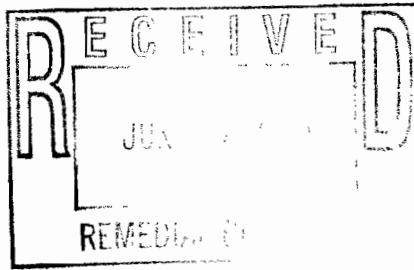




PACTIV
Advanced Packaging Solutions

Pactiv Corporation

Technology Center
2651 Brickyard Road
Canandaigua, New York 14424-1026



June 3, 2009

Ms. Nicole Bonsteel
New York State Department of Environmental Conservation
Remedial Bureau D
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7013

RE: Macedon Films Site
Supplemental Investigation Report
Brownfield Cleanup Agreement #B8-0669-04-06
Site ID C859025

Dear Ms. Bonsteel:

Enclosed you will find two copies of the *Supplemental Investigation (SI) Report* for the Macedon Films Site in Macedon, New York. This report describes the completed field activities and presents the findings of the SI tasks, as defined in the *Supplemental Site Investigation Work Plan* (URS 2008), and as requested by NYSDEC in its electronic mail to Pactiv dated November 12, 2008.

Pactiv understands that a certification by the person with the primary responsibility for the day-to-day performance of the activities under the above referenced Brownfield Cleanup Agreement is to accompany this *SI Report*. This letter and my signature below serves as that certification.

If you have any questions on this submittal, please do not hesitate to contact me at 585-393-5062 or email me at dstjames@pactiv.com.

Sincerely,

Dick St. James
Pactiv Remediation Manager

cc: Ed Hampston – NYSDEC
James Charles - NYSDEC

Melissa Menetti - NYSDOH

Ray Reott – Law Offices of Ray Reott, LLC

Tim Sheehan – Pactiv

John Rousakis – Law Offices of O’Melveny & Myers

Steve Knapp – Berry – Covalence Plastics

Mathew Tanzer - Tyco

Eric Bender – Exxon-Mobil

Mary Bitka – URS – Buffalo

SUPPLEMENTAL INVESTIGATION REPORT

FOR THE MACEDON FILMS SITE

MACEDON, NEW YORK 14502

Prepared for:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

625 BROADWAY, 12TH FLOOR

ALBANY, NY 12233

Prepared by:

URS CORPORATION

77 GOODELL STREET

BUFFALO, NY 14203

June 2009

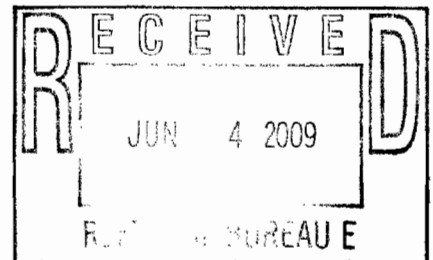


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ABBREVIATIONS

Agencies

NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
USEPA	United States Environmental Protection Agency

Units of Measure

amsl	Above Mean Sea Level
bgs	Below Ground Surface
mg/Kg	Milligrams per Kilogram
µg/Kg	Micrograms per Kilogram
µg/L	Micrograms per Liter

Regulatory

BCA	Brownfield Site Cleanup Agreement
BCP	Brownfield Cleanup Program
ELAP	Environmental Laboratory Approval Program
RCRA	Resource Conservation and Recovery Act
TOGS	Technical and Operational Guidance Series

Environmental

ASP	Analytical Services Protocol
CAS	Columbia Analytical Services
MTBE	Methyl tert-Butyl Ether
PAH	Polycyclic Aromatic Hydrocarbon
PCB	Polychlorinated Biphenyl
PID	Photoionization Detector
SCOs	Soil Clean-up Objectives
SVOC	Semi-volatile Organic Compound
TCL	Target Compound List
VOC	Volatile Organic Compound

Miscellaneous

DUSR	Data Usability Summary Report
HDPE	High Density Polyethylene
IDW	Investigation-Derived Waste
NAVD88	North American Vertical Datum (1988)
PPE	Personal Protective Equipment
RI	Remedial Investigation
SI	Supplemental Investigation
URS	URS Corporation
USCS	Unified Soil Classification System

1.0 INTRODUCTION

On behalf of Pactiv Corporation (Pactiv), URS Corporation-New York (URS) is pleased to present the New York State Department of Environmental Conservation (NYSDEC) with this *Supplemental Investigation (SI) Report* for the Macedon Films Site at 112 Main Street in Macedon, New York. The location of the Macedon Films Site is shown in Figure 1-1. The NYSDEC identification number for this site is C859025. This site is being investigated under the Brownfield Cleanup Program (BCP) in accordance with Brownfield Site Cleanup Agreement (BCA) number B8-0669-04-06 between Pactiv and the NYSDEC.

The required tasks for this investigation are defined in the *Supplemental Site Investigation (SI) Work Plan* (URS 2008), which was prepared in response to the March 13, 2008 NYSDEC comment letter regarding the URS *Remedial Investigation (RI) Report* for the Macedon Films Site (URS 2005). A conference call was held on March 24, 2008 with Pactiv, NYSDEC, and URS to discuss further investigation/additional information required for this site. The scope of work presented in the SI Work Plan reflected what was agreed upon during the conference call, and was approved by NYSDEC on June 25, 2008. Subsequent to the March 24, 2008 call and the submittal of the *Data Usability Summary Report (DUSR)* for the July 2008 sampling event, NYSDEC requested the following via electronic mail to Pactiv on November 12, 2008:

- PAH/SVOC detection limits for the second round of groundwater sampling must meet the Class GA groundwater standards and guidance (TOGS 1.1.1);
- Soil boring logs and PID readings collected in the field during the collection of the surface and subsurface soil sampling shall be submitted as part of the Supplemental Investigation report, as well as any photo-documentation collected; and
- At MMW-7 (courtyard area), the second round of groundwater sampling should be collected for PCBs in addition to VOCs, SVOCs, and RCRA Metals.

This report describes the completed field activities and presents the findings of the SI tasks. The additional items requested by NYSDEC that are listed above were incorporated into the second round of groundwater sampling and are included in this report. No photographs were taken during the investigation.

2.0 BACKGROUND

2.1 Site Description

Pactiv's former Macedon facility is located on Main Street in the Village of Macedon, Wayne County, New York. Pactiv's former Macedon facility (Macedon Films) is the westernmost part of a 23.6-acre complex. The 23.6-acre complex consists of approximately 92,000 square feet of building space and includes manufacturing facilities for Pliant Corporation (formerly Huntsman Design Products). The location of the site is shown on Figure 1-1.

The Macedon Films site occupies 6.95 acres on the western portion of the 23.6 acre complex. The Macedon Films site is bordered by a spillway of the New York State Barge Canal (Barge Canal) and a Pennsylvania Central railroad spur to the north, New York State Route 31 to the south, New York State Route 350 to the west, and Pliant Corporation to the east. Quaker Road and a truck trailer parking area are east of Pliant Corporation.

2.2 Site History

In the 1920's, the site was originally developed for vegetable canning operations. Sanborn maps from 1906, 1912, and 1931 show that there also were lumberyards and a creamery previously located on the site.

Polyethylene flexible packaging products have been manufactured at the site since the 1950s. Polyethylene resin pellets were processed and extruded to form a film that was subsequently converted into packaging products such as produce bags. Manufacturing operations ceased at the site in July 2004.

Previous investigations (identified in Section 2.4) have indicated the presence of volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), and metals in soil and groundwater samples collected at various locations both indoors and outdoors throughout the site.

However, the data indicated that neither the soil nor the groundwater at the site has been significantly impact by releases or past operations at the site, and various remedial measures have been completed to address any identified sources of contamination.

A deed restriction (dated January 2001) for the site limits its use to industrial purposes and prohibits the use of groundwater beneath the site as a source of potable water.

2.3 Geology and Hydrogeology

Previous investigations completed at the site indicate that the overburden at the site generally consists of brown and gray fine- to medium-grained sand with traces of silt and angular gravel above a one- to two-foot thick layer of brown and gray clay. Bedrock at the site generally occurs between eight and 16.5 feet below ground surface (bgs). Groundwater at the site occurs between 5 and 15 feet bgs, and generally flows from the southwest toward the northeast. Seasonal water level fluctuations in the Barge Canal and spillway affect the localized groundwater flow patterns and water levels beneath the northern portion of the site, but groundwater consistently flows toward the canal spillway in the investigation area. The site geology and hydrogeology is discussed in detail in the RI Report (URS 2005).

2.4 Previous Investigations

Previous investigations completed at the site have been documented in the following ten reports:

- *Environmental Priority Initiative Preliminary Assessment, Mobil Chemical Company, Macedon Packaging, USEPA, June 30, 1992.*
- *Soil-Gas Survey Building 10 Courtyard Storm Drain No. 93 Area, Mobil Chemical Company, Macedon, New York, H&A of New York, January 1995.*
- *Environmental Audit Tenneco Packaging Specialty Products, Macedon, New York, CH2M Hill, April 19, 1997.*

- *Summary of Environmental Issues and Investigation Plan, Tenneco Packaging Macedon Plant*, IT Corporation, July 1998.
- *Site Assessment and Closure of Two Chemical Bulk Storage Tanks, CBS Registration No. 8-000025, Tenneco Packaging Macedon Facility*, International Technology Corporation, January 1999.
- *SPDES Investigation Report*, URS Corporation, August 31, 1999.
- *Soil and Groundwater Investigation for Pactiv Macedon, New York*, URS Corporation, August 21, 2000.
- *Revised Water Table Maps Soil Gas Survey Former Pactiv Facility Macedon, New York*, URS Corporation, September 11, 2002.
- *SWMU Questionnaire for Macedon, NY*, URS Corporation, October 17, 2002.
- *Remedial Investigation Report, Macedon Films Site*, URS Corporation, November 28, 2005.

A more in-depth discussion of each of the previous investigations is presented in the RI Report (URS 2005).

3.0 SUPPLEMENTAL INVESTIGATION FIELD ACTIVITIES

3.1 Scope of Work

The scope of work, as identified in the SI Work Plan, consisted of four tasks: surface soil sampling; installation of three monitoring wells; two water level gauging and groundwater sampling events; and preparation of a Supplemental Investigation Report. The activities associated with these tasks are discussed in this section.

3.2 Surface Soil Sampling

The rationale for the collection and analysis on the surface soil samples was to evaluate the potential impacts to surface soil in the southern portion of the courtyard area and west of the former ink room (Buildings 6 and 6A), and evaluate the potential health exposure to direct soil contact in these areas.

Four surface soil samples (0"- 2" below ground surface (bgs)) were collected on July 22, 2008 from the locations shown on Figure 3-1. Three surface soil samples (SS-1, SS-2, and SS-3) were collected at the southwest corner of the complex, west of the ink room near piezometer MP-1. A fourth surface soil sample (SS-4) was collected in the southern section of the courtyard area just west of Building 14A, near well MMW-7. The surface soil samples were collected after removal of grass and/or other vegetation at each location. The surface soil samples were collected using stainless-steel trowels and bowls, which were decontaminated between each sample location.

The four surface soil samples were analyzed by Columbia Analytical Services, Inc. (CAS), a NYSDOH-approved laboratory, for target compound list (TCL) polychlorinated biphenyls (PCBs) by USEPA Method 8082, TCL SVOCs by USEPA Method 8270C, and Resource Conservation and Recovery Act (RCRA) metals by USEPA Methods 6010B/7471A. The RCRA metals include arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver. CAS provided a NYSDEC Analytical Services Protocol (ASP) Category B deliverable

package so that URS could prepare a *Data Usability Summary Report (DUSR)* in accordance with NYSDEC Division of Environmental Remediation *Draft DER-10, Technical Guidance for Site Investigation and Remediation, Appendix 2B - Guidance for the Development of Data Usability Summary Reports*, December 2002.

3.3 Monitoring Well Installation and Subsurface Soil Sampling

Three overburden monitoring wells (locations MMW-8, MMW-9, and MMW-10) were installed at the site on July 22, 2008. Monitoring well locations are shown on Figure 3-1, and were selected based on an evaluation of areas with significant staining or floor cracking, or within existing pits. Prior to intrusive activities, utilities were cleared by SoftDig Underground Services (East Syracuse, New York).

Monitoring well MMW-8 was installed inside Building 7N (the old machine shop) to assess the potential for subsurface soil and groundwater impacts from historical machine shop activities.

Monitoring well MMW-9 was installed inside an ink mixing room, north of Building 10, where the storage, use, and mixing of ink products historically occurred.

The third monitoring well, MMW-10, was installed indoors between Buildings 6 and 6A to determine if ink that was previously stored there may have impacted the subsurface.

All monitoring wells were installed by Nothnagle Drilling Company (Nothnagle, Scottsville, New York), a subcontractor to URS. Soil borings at the well locations were advanced using a Bobcat-mounted Power Probe 9630 VTR-M direct-push drill rig equipped with a 2" outside diameter (OD) by 4-foot long acetate-lined macrocore sampler. A URS geologist logged each 4-foot macrocore sample and classified the soils in accordance with the Unified Soil Classification System (USCS).

All borings were advanced through the approximate 0.6-foot concrete slab present in each building. The soil underneath the slabs generally consisted of fill of varying composition from 0.6 feet bgs to 4-5 feet bgs (primarily sand and gravel, with trace amounts of slag, silt, clay, and organic material). From 4-5 feet bgs to the bottom of each borehole (16 feet bgs), the soil consisted of varying mixtures of fine/medium/coarse sand, silty sand, fine/medium/coarse gravel, clay, and trace amounts of silt. Bedrock was not encountered at any of the three locations. Specific details of each boring are provided on the boring logs presented in Appendix A.

Each 4-foot macrocore sample was also screened with a MiniRae 2000 photoionization detector (PID). PID measurements are summarized in Table 3-1. As per the *SI Work Plan*, soil samples for offsite chemical analyses were to be collected from the boring interval exhibiting the greatest impact to soil (i.e., the highest PID measurement or visual contamination). In the absence of these, soils were to be collected from the interval just above the water table. Since the PID measurements and visual identifications of boring intervals above the water table did not suggest any significant contaminant impacts, one soil sample was collected from each boring location at the interval just above the water table. The subsurface soil samples were analyzed for TCL VOCs by USEPA Method 8260B, TCL SVOCs by USEPA Method 8270C, and RCRA metals by USEPA Methods 6010B/7471A. CAS provided a NYSDEC ASP Category B deliverable data package so that URS could prepare a *DUSR*.

At each of the three locations, Nothnagle installed a 1-inch diameter Schedule 40 polyvinyl chloride (PVC) monitoring well, with #10 (0.010-inch) slot screen from 5 to 15 feet bgs and an appropriate length of riser to allow for flush mount finish. Filter pack material consisting of washed and graded sand (size #2) was placed in the annular space between the screened section and borehole wall, extending from 4 to 16 feet bgs. A hydrated bentonite seal was placed in the annular space above the sand filter pack from 0.5 to 4 feet bgs. Cement was added to the uppermost 0.5-foot section of each borehole and each well finished at ground surface with a lockable cap and a flush mount steel protective casing. Monitoring well construction logs are provided in Appendix B.

On July 24, 2008, URS personnel developed the three newly-installed monitoring wells by surging and bailing each well with a dedicated 1-inch high-density polyethylene (HDPE)

bailer. Since turbidity measurements remained greater than 1000 NTUs throughout development, development was considered complete when the remaining field water quality parameters (pH, specific conductance, temperature, dissolved oxygen, and oxidation-reduction potential) had stabilized and more than 10 well volumes were removed. Field water quality measurements recorded during development are presented on the monitoring well development logs in Appendix C.

3.4 Water Level Gauging Stations

Three water level gauging stations were installed by URS in the spillway of the Barge Canal located to the north of the site. These were installed as replacements for the three stations installed in 1999 but could not be located during the July 2008 investigation activities. The gauging stations are used to help evaluate the impact of water level fluctuations in the Barge Canal/spillway on the groundwater levels beneath the site. The locations of the gauging stations are shown on Figure 3-1.

3.5 Site Survey

The locations and elevations of all surface soil sampling locations, newly installed monitoring wells, and water level gauging stations were surveyed to an accuracy of 0.01 feet by a URS New York State-licensed surveyor on July 24, 2008. The elevation of each monitoring well riser was surveyed to a reference point that was marked on the top of the well riser at the time of construction. The gauging station elevations were measured at the 'zero' mark on the gauge. Elevation data are referenced vertically to the North American Vertical Datum of 1988 (NAVD88). Horizontal coordinates were referenced to a site-specific datum established during prior investigations at the site. A tabulated summary of the survey data and the associated field notes are presented in Appendix D.

3.6 Water Level Gauging and Groundwater Sampling

Two rounds of water level gauging and groundwater sampling were conducted during the SI. The first was completed on July 23-24, 2008, during the Barge Canal navigation season. The depth to groundwater in the three new monitoring wells, as well as seven existing monitoring wells (MMW-1 through MMW-7) and one piezometer (MP-1), were measured to the nearest 0.01 foot on July 24, 2008 using an electronic water level indicator. The depth to water at each of the three gauging stations was also measured.

All new and existing monitoring wells/piezometers were purged and sampled on July 23-24, 2008 following the USEPA's low flow purging and sampling protocol (EPA 540/S-95/504), as described in the SI Work Plan (URS 2008). All collected groundwater samples were analyzed for TCL VOCs by USEPA Method 8260B, TCL SVOCs by USEPA Method 8270C, and RCRA metals by USEPA Methods 6010B/7470A. CAS provided a NYSDEC ASP Category B deliverable data package so that URS could prepare a *DUSR*.

The second round of water level gauging and groundwater sampling occurred on February 11-12, 2009, during the time the water level in the Barge Canal had been lowered for the season. Depth to water measurements were recorded on February 11, 2009, and purging/sampling was completed on February 11-12, 2009. All procedures employed during the first round of water level gauging and groundwater sampling were also followed for the second round. The analytical program was also the same, except that the groundwater sample collected at location MMW-7 was also analyzed for TCL PCBs by USEPA Method 8082. Also, monitoring wells MMW-5 and MMW-8 yielded an insufficient volume of groundwater, and no samples were collected for laboratory analysis. CAS provided a NYSDEC ASP Category B deliverable data package so that URS could prepare a *DUSR*.

Depth to water measurements and monitoring well purging/sampling logs for both events are provided in Appendix E.

3.7 Investigation-Derived Waste Handling

A total of five 55-gallon drums of investigation-derived waste (IDW) were generated during the July 2008 and February 2009 activities at the site: two drums containing down-hole drilling tool decontamination water and monitoring well development/purge water; one drum containing drill cuttings generated during the monitoring well installations; and two drums containing discarded personal protective equipment (PPE) and macrocore acetate liners. Pactiv Corporation arranged for proper off-site disposal of all IDW. Copies of the waste manifests are provided in Appendix F.

4.0 SUPPLEMENTAL INVESTIGATION RESULTS

The nature and extent of contamination at the site, based on the data obtained for samples collected during the July 2008 – February 2009 SI activities, is discussed in this section. Additional information regarding the nature and extent of contamination throughout the site was presented in the *RI Report* (URS 2005) and the other documents referenced in Section 2.4.

All validated analytical laboratory data generated during the SI are summarized in the *DUSRs* presented in Appendix G. Copies of sample chain-of-custody (COC) records are included in the *DUSRs*.

The discussions included in this section are based on these results and the potentially applicable New York State cleanup objectives, standards and guidance values against which the sample results have been compared. In light of the existing deed restrictions (see Section 2.2), surface and subsurface soil results were compared to the NYS Restricted Use Soil Cleanup Objectives (SCOs) – Industrial, *6 NYCRR Subpart 375-6: Remedial Program Soil Cleanup Objectives* (December 2006). Groundwater sample results were compared to NYS Class GA groundwater quality standards, *6 NYCRR Part 703, Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations* (revised February 2008). Where applicable, groundwater sample results were also compared to Class GA guidance values presented in *NYSDEC Technical Operations and Guidance Series (TOGS) 1.1.1* (March 1998, including subsequent addenda).

4.1 Surface Soil Samples

All surface soil samples collected during the SI were analyzed for TCL SVOCs, TCL PCBs, and RCRA metals. A summary of analytes detected in the surface soil samples is presented in Table 4-1, which compares detected analyte concentrations against the industrial use SCOs. Sample analyte concentrations exceeding industrial SCOs are highlighted (circled).

4.1.1 Semivolatile Organic Compounds

All detected SVOC concentrations in surface soil samples SS-1, SS-2, SS-3, and SS-4 were below the industrial use SCOs, in most cases orders of magnitude below the SCOs.

It should be noted that the laboratory quantitation limits for sample SS-4 were elevated by a factor of 10 due to matrix interference problems during analysis (i.e., a highly viscous sample extract). Quantitation limits of 3,600 micrograms per kilogram ($\mu\text{g/Kg}$) were reported for benzo(a)pyrene and dibenz(a,h)anthracene in sample SS-4, which exceeds the SCO for 1,100 $\mu\text{g/Kg}$ for both compounds. The quantitation limits for the remaining SVOCs were below the SCOs. Since laboratories can typically detect SVOCs at concentrations approximately five times lower than the quantitation limits, and since neither benzo(a)pyrene nor dibenz(a,h)anthracene were detected in the sample, it is believed that concentrations of benzo(a)pyrene and dibenz(a,h)anthracene in the soil at location SS-4, if present, would be below the industrial use SCO of 1,100 $\mu\text{g/Kg}$.

4.1.2 Polychlorinated Biphenyls

The PCB Aroclor 1260 was detected in sample SS-4 at a concentration of 99 $\mu\text{g/Kg}$, well below the industrial use SCO of 25,000 $\mu\text{g/Kg}$ (for total PCBs). No other PCBs were detected in the surface soil samples.

4.1.3 Metals

Cadmium was detected in surface soil sample SS-4 at a concentration of 127 milligrams per kilogram (mg/Kg), above the industrial use SCO of 60 mg/Kg . The concentrations of cadmium in the remaining surface soil samples, and the concentrations of all other metals in all four surface soil samples, were below industrial use SCOs.

4.2 Subsurface Soil Samples

Subsurface soil samples collected during the SI were analyzed for TCL VOCs, TCL SVOCs, and RCRA metals. A summary of analytes detected in the subsurface soil samples is presented in Table 4-2, which compares detected analyte concentrations against the industrial use SCOs. Sample analyte concentrations exceeding SCOs are highlighted (circled).

4.2.1 Volatile Organic Compounds

Only the VOCs benzene and toluene were detected in the subsurface soil sample collected at location MMW-10 (4 to 5.4 ft bgs) but were at concentrations well below the industrial use SCOs for these analytes. No other VOCs were detected in any of the three subsurface soil samples collected during the SI.

4.2.2 Semivolatile Organic Compounds

SVOCs, primarily PAHs, were detected in the subsurface soil sample collected at location MMW-10 (4 to 5.4 ft bgs) at concentrations substantially below the industrial use SCOs. No SVOCs were detected in the remaining two subsurface soil samples collected during the SI.

4.2.3 Metals

The concentrations of all metals in the subsurface soil samples collected during the SI were well below their respective industrial use SCOs.

4.3 Groundwater Samples

Groundwater samples collected in July 2008 and February 2009 were analyzed for TCL VOCs, TCL SVOCs, and RCRA metals. The sample collected at location MMW-7 in February 2009 was also analyzed for TCL PCBs. As previously mentioned, monitoring wells MMW-5 and MMW-8 yielded an insufficient volume of groundwater during the February 2009 round of

sampling, and no samples were collected for laboratory analysis. A summary of analytes detected in the groundwater samples is presented in Table 4-3, which compares detected analyte concentrations against the Class GA groundwater standards and guidance values. Sample analyte concentrations exceeding the standards or guidance values are highlighted (circled).

4.3.1 Volatile Organic Compounds

Three groundwater samples collected in July 2008 exhibited concentrations of VOCs above their respective standards or guidance values:

- The concentration of chloroform in sample MMW-6 [21 micrograms per liter ($\mu\text{g/L}$)] exceeded the groundwater standard of 7 $\mu\text{g/L}$;
- The concentration of methyl tert-butyl ether (MTBE) in sample MMW-9 (22 $\mu\text{g/L}$) exceeded the guidance value of 10 $\mu\text{g/L}$;
- The concentration of m,p-xylene in sample MMW-10 (6.0 $\mu\text{g/L}$) exceeded the standard of 5 $\mu\text{g/L}$.

The concentrations of these VOCs in the remaining groundwater samples collected in July 2008 were below their respective Class GA groundwater standards and guidance values.

The concentrations of all VOCs detected in the groundwater samples collected during the February 2009 round of sampling were below their respective Class GA groundwater standards and guidance values.

4.3.2 Semivolatile Organic Compounds

The concentrations of all SVOCs detected in the groundwater samples collected during the July 2008 and February 2009 rounds of sampling were below their respective Class GA groundwater standards and guidance values.

4.3.3 Metals

The concentrations of all metals in the groundwater samples collected during the July 2008 and February 2009 rounds of sampling were below their respective Class GA groundwater standards.

4.3.4 Polychlorinated Biphenyls

No PCBs were detected in the groundwater sample collected at location MMW-7 during the February 2009 round of sampling.

4.3.5 Groundwater Elevation Contours

Water levels measured in July 2008 and February 2009 at the 11 site monitoring wells/piezometers and the three gauging stations in spillway of the Barge Canal were used to develop groundwater elevation contours as shown on Figure 4-1 (July 2008) and Figure 4-2 (February 2009). A tabulated summary of groundwater elevation data is presented in Table 4-4. As was established during past investigations, the data shows that groundwater at the site generally flows in an east/northeast direction toward the Barge Canal spillway, with localized variations resulting from water level fluctuations in the Barge Canal. Groundwater elevations in the northern sections of the site were generally one to two feet lower during the February 2009 monitoring event compared to the July 2008 monitoring event, indicating that changes in the Barge Canal water levels affect groundwater elevations in those areas of the site. Groundwater elevations at locations MP-1 and MMW-10, in the southern section of the site, were generally

consistent between the July 2008 and February 2009 events and do not appear to be significantly impacted by changes in the Barge Canal water levels.

5.0 SUMMARY AND CONCLUSIONS

5.1 Summary

The tasks defined in the Macedon Films SI Work Plan (URS 2008) were completed in July 2008 and February 2009. Four surface soil samples (SS-1 through SS-4) were collected to evaluate the potential impacts of past site activities to surface soil and to evaluate the potential health exposure to direct soil contact. All analyte concentrations in the collected surface soils were below industrial use SCOs, with the exception of cadmium in the surface soil sample at location SS-4.

Three monitoring wells were installed in July 2008 as additions to the existing network of wells at the site. One subsurface soil sample was collected for laboratory analysis at each of the newly-installed monitoring well locations. All analyte concentrations in the collected subsurface soils were substantially below industrial use SCOs.

Groundwater samples were collected for laboratory analysis in July 2008 and February 2009 from all new and existing monitoring wells located at the site. Monitoring wells MMW-5 and MMW-8 yielded an insufficient volume of groundwater during the February 2009 round of sampling, and no samples were collected for laboratory analysis. The following VOC contaminants were detected in groundwater samples collected in July 2008 at concentrations exceeding Class GA groundwater standards or guidance values: chloroform in sample MMW-6, MTBE in sample MMW-9, and m,p-xylene in sample MMW-10. It was established during previous investigations that the presence of chloroform in groundwater at location MMW-6 is attributed to the use of water treatment chemicals associated with the cooling tower.

Newly-installed well MMW-9 is located southeast of the former gasoline USTs, which were removed along with identified contaminated soils in 1978 to a depth of 10 feet bgs (CH2M Hill, 1997). While petroleum-related VOCs and SVOCs were detected in soil samples collected during past investigations (1999) in the vicinity of the former USTs (locations MSB-1 and MSB-2, 1999), MTBE was not among the list of detected analytes. In addition, MTBE has not been

detected in groundwater samples collected at locations MMW-2 and MMW-3 in 2005 and 2008-2009, which are located down gradient from the former UST area. This evidence, and the absence of other petroleum-related VOCs in the groundwater at location MMW-9, suggests that the presence of MTBE in groundwater at location MMW-9 is not likely attributable to the former gasoline USTs or other past operations at the site. MTBE was also detected in the groundwater sample collected at MMW-9 in February 2009, at a concentration below the Class GA guidance value.

Newly-installed monitoring well MMW-10 is located approximately 60 feet down gradient from piezometer MP-1. Since m,p-xylene has not been detected in groundwater samples collected at MP-1 during the SI or past monitoring events, and no VOCs were detected in groundwater at location MMW-10 in February 2009, the presence of m,p-xylene in the groundwater at MMW-10 in July 2008 is not indicative of a significant contaminant source at the site.

The concentrations of all other VOCs, as well as all SVOCs and metals, were below their respective Class GA groundwater standards and guidance values in all other groundwater samples collected during the July 2008, and in all samples collected during the February 2009 monitoring event. PCBs were not detected in monitoring well MMW-7 in February 2009; no other groundwater samples were analyzed for PCBs.

Concurrent with each of the two groundwater sampling events, water levels at each monitoring well location and at each gauging station installed in July 2008 were measured to facilitate the development of groundwater elevation contour maps. As was the case during prior investigations, the data demonstrated that groundwater at the site generally flows toward the northeast, with some localized variations resulting from water elevation changes in the Barge Canal.

All soil sampling locations, newly-installed monitoring well locations, and gauging stations were surveyed to an accuracy of 0.01 feet by a New York State-licensed surveyor (URS). Five drums of IDW generated during the SI activities were stored at the site and subsequently transported off-site for proper disposal in accordance with all applicable regulations.

5.2 Conclusions

All analyte concentrations detected in the surface soil samples (SS-1, SS-2, and SS-3) collected during the SI in the vicinity of piezometer MP-1, located west of Buildings 6 and 6A, were below industrial use SCOs, indicating that past operations have not impacted surface soil quality in this area to an extent that would impair the area for its intended future use as an industrial site pursuant to the 2001 industrial use deed restriction, or pose a direct contact exposure risk if the existing access and land use deed restrictions continue to be followed. A concentration of cadmium (127 mg/kg) above the industrial use SCO (60 mg/kg) was detected in the surface soil in the courtyard area (SS-4).

All analyte concentrations detected in the subsurface soil samples collected during the SI (MMW-8, MMW-9, and MMW-10) were below industrial use SCOs, indicating that past operations at the investigation locations have not impacted subsurface soil quality to an extent that would impair the affected areas for their intended future use as industrial site, or pose an exposure risk if the existing access and land use deed restrictions continue to be followed.

The analytical results from two rounds of groundwater samples collected during the SI are generally consistent with those from the RI (URS, 2005). Relatively low concentrations of VOCs were detected, but do not indicate the presence of extensive contaminant plumes or significant source areas at the site. A deed restriction prohibits the use of groundwater at the site as a source of potable water, and exposure to groundwater is unlikely if the existing access and land use deed restrictions continue to be followed.

Groundwater elevations in the northern sections of the site appear to be affected by seasonal changes in the Barge Canal water levels, although overall groundwater flow at the site is generally towards the northeast regardless of the Barge Canal water level. There are no identifiable groundwater contaminant trends (i.e., increasing or decreasing analyte concentrations) resulting from water level fluctuations in the Barge Canal.

6.0 REFERENCES

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TABLES

TABLE 3-1
SUMMARY OF PHOTOIONIZATION DETECTOR (PID) FIELD MEASUREMENTS
PACTIV CORPORATION - MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION

Matrix	Location	Depth Interval	PID Measurement (PPM)
Subsurface Soil	MMW-8	0.0' - 4.0'	0.1
		4.0' - 8.0'	0.0
		8.0' - 12.0'	0.0
		12.0' - 16.0'	0.0
	MMW-9	0.0' - 4.0'	0.9
		4.0' - 8.0'	0.1
		8.0' - 12.0'	0.2
		12.0' - 16.0'	0.0
	MMW-10	0.0' - 4.0'	0.0
		4.0' - 8.0'	2.9
		8.0' - 12.0'	1811
		12.0' - 16.0'	51.9

*All measurements recorded using a MiniRae 2000 photoionization detector.

TABLE 4-1
SUMMARY OF DETECTED ANALYTES IN SURFACE SOIL
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID			SS-01	SS-02	SS-03	SS-04
Sample ID			SS-1(07/22/2008)	SS-2(07/22/2008)	SS-3(07/22/2008)	SS-4(07/22/2008)
Matrix			Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2
Date Sampled			07/22/08	07/22/08	07/22/08	07/22/08
Parameter	Units	Criteria*				
Semivolatile Organic Compounds						
Acenaphthene	UG/KG	1.00E+06	63 J	89 J		
Anthracene	UG/KG	1.00E+06	160 J	270 J		
Benzo(a)anthracene	UG/KG	11000	410 J	620	140 J	
Benzo(a)pyrene	UG/KG	1100	390 J	520	160 J	
Benzo(b)fluoranthene	UG/KG	11000	350 J	500	140 J	
Benzo(g,h,i)perylene	UG/KG	1.00E+06	280 J	320 J	120 J	
Benzo(k)fluoranthene	UG/KG	1.10E+05	370 J	430 J	130 J	
bis(2-Ethylhexyl)phthalate	UG/KG	-	160 J	200 J	220 J	590 J
Carbazole	UG/KG	-	68 J	130 J		
Chrysene	UG/KG	1.10E+05	420 J	590	170 J	
Dibenz(a,h)anthracene	UG/KG	1100	54 J	83 J		
Di-n-butylphthalate	UG/KG	-	51 J	55 J	88 J	
Fluoranthene	UG/KG	1.00E+06	890	1,500	320 J	
Fluorene	UG/KG	1.00E+06	52 J	86 J		
Indeno(1,2,3-cd)pyrene	UG/KG	11000	250 J	310 J	100 J	
Phenanthrene	UG/KG	1.00E+06	550	980	140 J	
Pyrene	UG/KG	1.00E+06	710	1,000	240 J	
Total Polynuclear Aromatic Hydrocarbons	UG/KG	-	4,949	7,298	1,660	ND
Total Semivolatile Organic Compounds	UG/KG	-	5,228	7,683	1,968	590
Polychlorinated Biphenyls						
Aroclor 1260	UG/KG	-				99
Total Polychlorinated Biphenyls	UG/KG	25000	ND	ND	ND	99

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

J - The reported concentration is an estimated value.

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

ND - Not detected (used for total analyte group concentrations only).

Only Detected Results Reported.

TABLE 4-1
SUMMARY OF DETECTED ANALYTES IN SURFACE SOIL
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID			SS-01	SS-02	SS-03	SS-04
Sample ID			SS-1(07/22/2008)	SS-2(07/22/2008)	SS-3(07/22/2008)	SS-4(07/22/2008)
Matrix			Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2
Date Sampled			07/22/08	07/22/08	07/22/08	07/22/08
Parameter	Units	Criteria*				
Metals						
Arsenic	MG/KG	16	4.2	2.9	5.0	5.5
Barium	MG/KG	10000	65.7	54.5	72.2	81.1
Cadmium	MG/KG	60	0.42 J	0.47 J	0.55 J	127
Chromium	MG/KG	6800	14.8	13.0	15.4	23.8
Lead	MG/KG	3900	52.1 J	52.2 J	53.6 J	121 J
Mercury	MG/KG	5.7	0.09	0.09	0.07	0.13
Selenium	MG/KG	6800	1.5 J	0.72 J	2.3 J	1.1 J
Miscellaneous Parameters						
Solids, Percent	PERCENT	-	76.3	74.4	76.1	91.2

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

J - The reported concentration is an estimated value.

JG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

ND - Not detected (used for total analyte group concentrations only).

Only Detected Results Reported.

TABLE 4-2
SUMMARY OF DETECTED ANALYTES IN SUBSURFACE SOIL
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID			MMW-08	MMW-09	MMW-10
Sample ID			MMW-8 8'-12'	MMW-9 4'-8'	MMW-10 4'-5.4'
Matrix			Soil	Soil	Soil
Depth Interval (ft)			8.0-12.0	4.0-8.0	4.0-5.4
Date Sampled			07/22/08	07/22/08	07/22/08
Parameter	Units	Criteria*			
Volatile Organic Compounds					
Benzene	UG/KG	89000			2.4 J
Toluene	UG/KG	1.00E+06			2.1 J
Total Volatile Organic Compounds	UG/KG	-	ND	ND	4.5
Semivolatile Organic Compounds					
2-Methylnaphthalene	UG/KG	-			110 J
Acenaphthene	UG/KG	1.00E+06			54 J
Acenaphthylene	UG/KG	1.00E+06			130 J
Anthracene	UG/KG	1.00E+06			390 J
Benzo(a)anthracene	UG/KG	11000			880
Benzo(a)pyrene	UG/KG	1100			670
Benzo(b)fluoranthene	UG/KG	11000			580
Benzo(g,h,i)perylene	UG/KG	1.00E+06			330 J
Benzo(k)fluoranthene	UG/KG	1.10E+05			520
bis(2-Ethylhexyl)phthalate	UG/KG	-			450
Chrysene	UG/KG	1.10E+05			690
Dibenz(a,h)anthracene	UG/KG	1100			92 J
Dibenzofuran	UG/KG	1.00E+06			100 J
Di-n-butylphthalate	UG/KG	-			130 J
Fluoranthene	UG/KG	1.00E+06			1,600
Fluorene	UG/KG	1.00E+06			130 J
Indeno(1,2,3-cd)pyrene	UG/KG	11000			340 J
Naphthalene	UG/KG	1.00E+06			330 J

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06, Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown



Concentration Exceeds Criteria

J - The reported concentration is an estimated value.

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

ND - Not detected (used for total analyte group concentrations only).

Only Detected Results Reported.

TABLE 4-2
SUMMARY OF DETECTED ANALYTES IN SUBSURFACE SOIL
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID			MMW-08	MMW-09	MMW-10
Sample ID			MMW-8 8'-12'	MMW-9 4'-8'	MMW-10 4'-5.4'
Matrix			Soil	Soil	Soil
Depth Interval (ft)			8.0-12.0	4.0-8.0	4.0-5.4
Date Sampled			07/22/08	07/22/08	07/22/08
Parameter	Units	Criteria*			
Semivolatile Organic Compounds					
Phenanthrene	UG/KG	1.00E+06			910
Pyrene	UG/KG	1.00E+06			1,200
Total Polynuclear Aromatic Hydrocarbons	UG/KG	-	ND	ND	8,956
Total Semivolatile Organic Compounds	UG/KG	-	ND	ND	9,636
Metals					
Arsenic	MG/KG	16		1.3	0.29 J
Barium	MG/KG	10000	9.6	19.0	50.4
Chromium	MG/KG	6800	5.3	11.8	8.2
Lead	MG/KG	3900	3.5 J	8.1 J	6.6 J
Mercury	MG/KG	5.7	0.01 J	0.02 J	0.03 J
Selenium	MG/KG	6800	1.2 J		1.3 J
Miscellaneous Parameters					
Solids, Percent	PERCENT	-	85.2	82.2	79.4

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

¹ - The reported concentration is an estimated value.

UG/KG - Micrograms per kilogram. MG/KG - Milligrams per kilogram.

ND - Not detected (used for total analyte group concentrations only).

Only Detected Results Reported.

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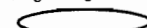
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TABLE 4-3
SUMMARY OF DETECTED ANALYTES IN GROUNDWATER
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008 & FEBRUARY 2009

Location ID			MMW-01	MMW-01	MMW-02	MMW-02	MMW-03
Sample ID			MMW-01(07/23/08)	MMW-1	MMW-02(07/23/08)	MMW-2	MMW-03(07/23/08)
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/23/08	02/12/09	07/23/08	02/12/09	07/23/08
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5					
Acetone	UG/L	50					
Chloroform	UG/L	7					
Cyclohexane	UG/L	-					
Dichlorodifluoromethane	UG/L	5					
Ethylbenzene	UG/L	5					
Methyl tert-butyl ether	UG/L	10					
Methylcyclohexane	UG/L	-					
tetrachloroethene	UG/L	5					
m&p-Xylene	UG/L	5					
Semivolatile Organic Compounds							
bis(2-Ethylhexyl)phthalate	UG/L	5					
Diethylphthalate	UG/L	50					
Di-n-butylphthalate	UG/L	50					
Metals							
Arsenic	UG/L	25	2.4 J				
Barium	UG/L	1000	68.8	49.5 J	38.1	25.9 J	107
Cadmium	UG/L	5					
Chromium	UG/L	50	2.4 J		1.1 J		1.6 J
Selenium	UG/L	10					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

J - The reported concentration is an estimated value.

UG/L - Micrograms per liter.

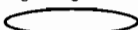
Only Detected Results Reported.

TABLE 4-3
SUMMARY OF DETECTED ANALYTES IN GROUNDWATER
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008 & FEBRUARY 2009

Location ID			MMW-03	MMW-04	MMW-04	MMW-05	MMW-06
Sample ID			MMW-3	MMW-04(07/23/08)	MMW-4	MMW-05(07/23/08)	MMW-06(07/23/08)
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			02/11/09	07/23/08	02/11/09	07/23/08	07/23/08
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5					0.38 J
Acetone	UG/L	50			4.1 J		
Chloroform	UG/L	7					21
Cyclohexane	UG/L	-					
Dichlorodifluoromethane	UG/L	5					
Ethylbenzene	UG/L	5					
Methyl tert-butyl ether	UG/L	10					
Methylcyclohexane	UG/L	-					
1,2-Dichloroethane	UG/L	5					1.0
m&p-Xylene	UG/L	5					
Semivolatile Organic Compounds							
bis(2-Ethylhexyl)phthalate	UG/L	5			1.3 J		
Diethylphthalate	UG/L	50			3.4 J		
Di-n-butylphthalate	UG/L	50					
Metals							
Arsenic	UG/L	25					
Barium	UG/L	1000	54.4 J	98.9	22.5 J	115	12.8 J
Cadmium	UG/L	5					
Chromium	UG/L	50		1.3 J		1.1 J	2.3 J
Selenium	UG/L	10				5.1 J	

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, April 2000, Class GA.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

J - The reported concentration is an estimated value.

G/L - Micrograms per liter.

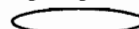
Only Detected Results Reported.

TABLE 4-3
SUMMARY OF DETECTED ANALYTES IN GROUNDWATER
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008 & FEBRUARY 2009

Location ID			MMW-06	MMW-07	MMW-07	MMW-08	MMW-09
Sample ID			MMW-6	MMW-07(07/24/08)	MMW-7	MMW-08(07/24/08)	MMW-09(07/24/08)
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			02/11/09	07/24/08	02/12/09	07/24/08	07/24/08
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5				0.62 J	
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5					
Acetone	UG/L	50					
Chloroform	UG/L	7	1.2		1.7		
Cyclohexane	UG/L	-					
Dichlorodifluoromethane	UG/L	5					2.0 J
Ethylbenzene	UG/L	5					
Methyl tert-butyl ether	UG/L	10	0.53 J				22
Methylcyclohexane	UG/L	-					
Tetrachloroethene	UG/L	5					
m&p-Xylene	UG/L	5					
Semivolatile Organic Compounds							
bis(2-Ethylhexyl)phthalate	UG/L	5					
Diethylphthalate	UG/L	50					
Di-n-butylphthalate	UG/L	50				1.5 J	
Metals							
Arsenic	UG/L	25					
Barium	UG/L	1000	49.3 J	60.5	69.8 J	23.8	39.5
Cadmium	UG/L	5		0.65 J			
Chromium	UG/L	50		1.3 J		1.7 J	1.7 J
Selenium	UG/L	10					

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

J - The reported concentration is an estimated value.

UG/L - Micrograms per liter.

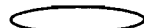
Only Detected Results Reported.

TABLE 4-3
SUMMARY OF DETECTED ANALYTES IN GROUNDWATER
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008 & FEBRUARY 2009

Location ID			MMW-09	MMW-10	MMW-10	MP-01	MP-01
Sample ID			MMW-9	MMW-10(07/24/08)	MMW-10	MP-01(07/24/08)	MP-1
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			02/12/09	07/24/08	02/12/09	07/24/08	02/11/09
Parameter	Units	Criteria*					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5					
Acetone	UG/L	50				12	
Chloroform	UG/L	7					
Cyclohexane	UG/L	-		22			
Dichlorodifluoromethane	UG/L	5					
Ethylbenzene	UG/L	5		0.99 J			
Methyl tert-butyl ether	UG/L	10	7.1				
Methylcyclohexane	UG/L	-		100		1.1	
Pertrachloroethene	UG/L	5					
m&p-Xylene	UG/L	5		6.0			
Semivolatile Organic Compounds							
bis(2-Ethylhexyl)phthalate	UG/L	5					
Diethylphthalate	UG/L	50					
Di-n-butylphthalate	UG/L	50					
Metals							
Arsenic	UG/L	25					
Barium	UG/L	1000	38.4 J	52.8	32.9 J	31.8	31.5 J
Cadmium	UG/L	5					
Chromium	UG/L	50		1.2 J		1.0 J	
Selenium	UG/L	10	4.8 J	5.1 J		7.6 J	8.7 J

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, April 2000, Class GA

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

J - The reported concentration is an estimated value.

UG/L - Micrograms per liter.

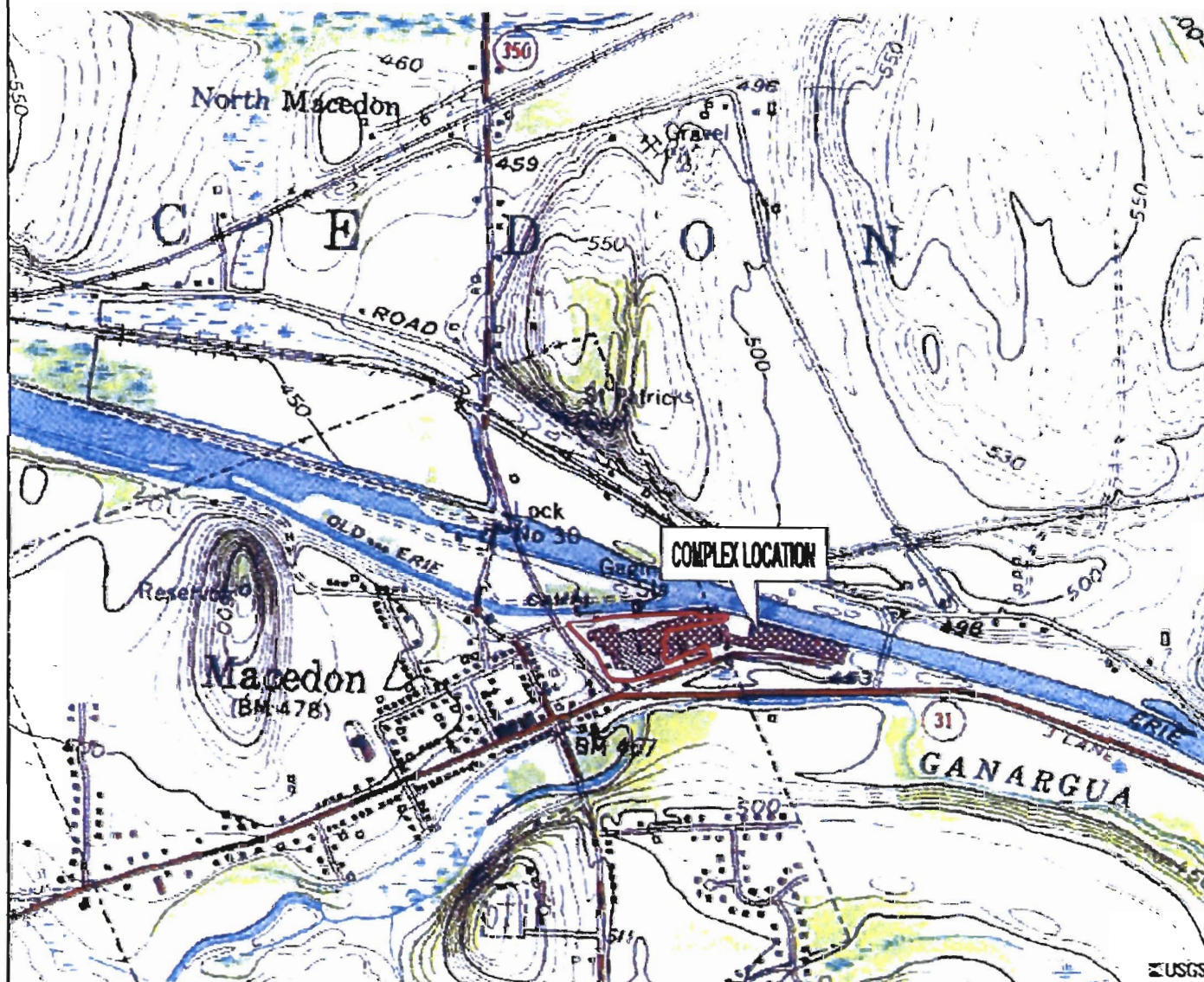
Only Detected Results Reported.

TABLE 4-4
SUMMARY OF GROUNDWATER ELEVATIONS
PACTIV CORPORATION - MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION

Location	Well Casing Elevation (feet)	July 2008		February 2009	
		Depth to Water (feet)	Groundwater Elevation (feet amsl)	Depth to Water (feet)	Groundwater Elevation (feet amsl)
MMW-01	454.88	7.79	447.09	9.23	445.65
MMW-02	456.05	6.34	449.71	7.53	448.52
MMW-03	456.61	7.64	448.97	8.7	447.91
MMW-04	454.22	6.8	447.42	8.42	445.8
MMW-05	452.90	8.36	444.54	Dry	Dry
MMW-06	454.50	9.84	444.66	15.61	438.89
MMW-07	455.85	9.08	446.77	11.38	444.47
MP-01	457.31	6.54	450.77	5.1	452.21
MMW-08	455.24	9.4	445.84	Dry	Dry
MMW-09	455.14	7.18	447.96	9.22	445.92
MMW-10	456.86	5.77	451.09	5.4	451.46
GS-01	443.60	1.62	441.98	Dry	Dry
GS-02	457.34	0.71	456.63	Dry	Dry
GS-03	448.24	1.35	446.89	0.42	447.82

amsl - above mean sea level

FIGURES



LEGEND:

— Site Boundary

SOURCE:

USGS 7 1/2 Minute Series Topographic Map
Macedon, New York 1984



Title: **COMPLEX LOCATION MAP**

Location: **MACEDON, NEW YORK**

Client:



PACTIV

Advanced Packaging Solutions

URS

URS Corporation
28 Corporate Drive, Suite 200
Dillon Park, New York 10865

Drafter:

DAD

Date:

MAY 2009

Dwg. Size:

8.5 x 11

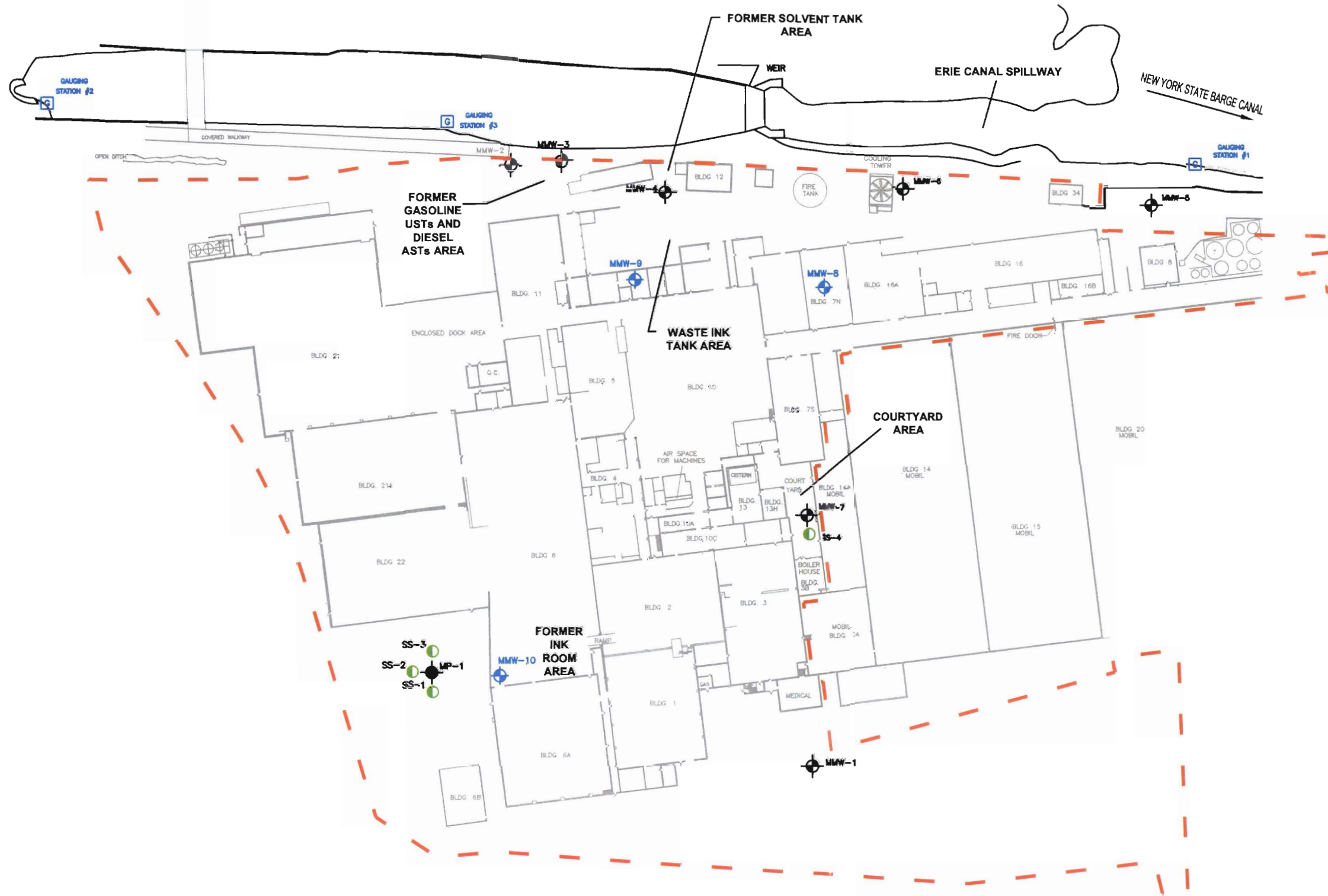
Job No.:

11175654.00000

FIGURE 1-1



True North Per Barge
Canal Mapping Prepared
By State of New York



LEGEND

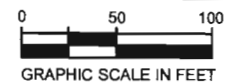
-  Installed Gauging Station
-  New Installed Monitoring Well Location (July 2008)
-  Surface Soil Sampling Location
-  Existing Monitoring Well
-  Existing Piezometer
-  Site Boundary
-  Building Number

NOTES:

All locations are approximate.

DRAWING SOURCE:

Mobil Chemical Drawing DX1631 (SPCC Drawing) 3/94



Title: SUPPLEMENTAL INVESTIGATION
MONITORING LOCATIONS

Location: MACEDON, NEW YORK

Client:  **PACTIV**
Advanced Packaging Solutions

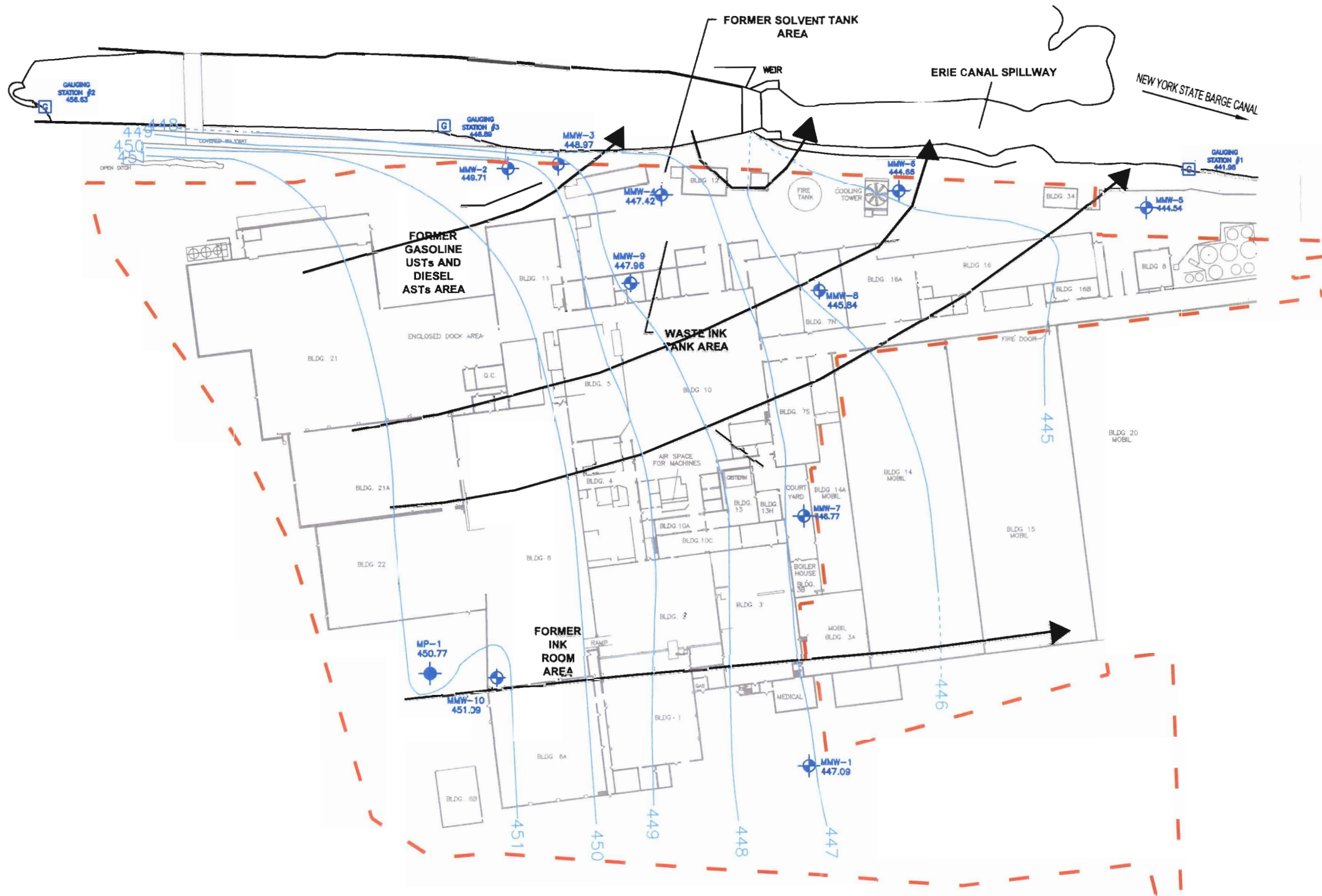
URS
URS Corporation
77 Goodell Street
Buffalo, New York 14203

Drafter: SRV	Date: May 2009
Drg. Size: 11 x 17	Job No.: 11175654.00000

FIGURE 3-1



True North Per Barge
Canal Mapping Prepared
By State of New York

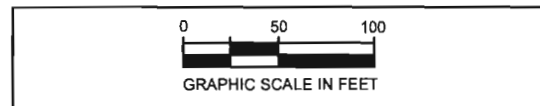


LEGEND

- Gauging Station with Groundwater Elevation
- Monitoring Well Location with Groundwater Elevation
- Piezometer Location with groundwater elevation
- Groundwater Flow
- Site Boundary
- Building Number

NOTES:
All locations are approximate.

DRAWING SOURCE:
Mobil Chemical Drawing DX1631 (SPCC Drawing) 3/94



Title: GROUNDWATER ELEVATION CONTOURS, JULY 2008

Location: MACEDON, NEW YORK

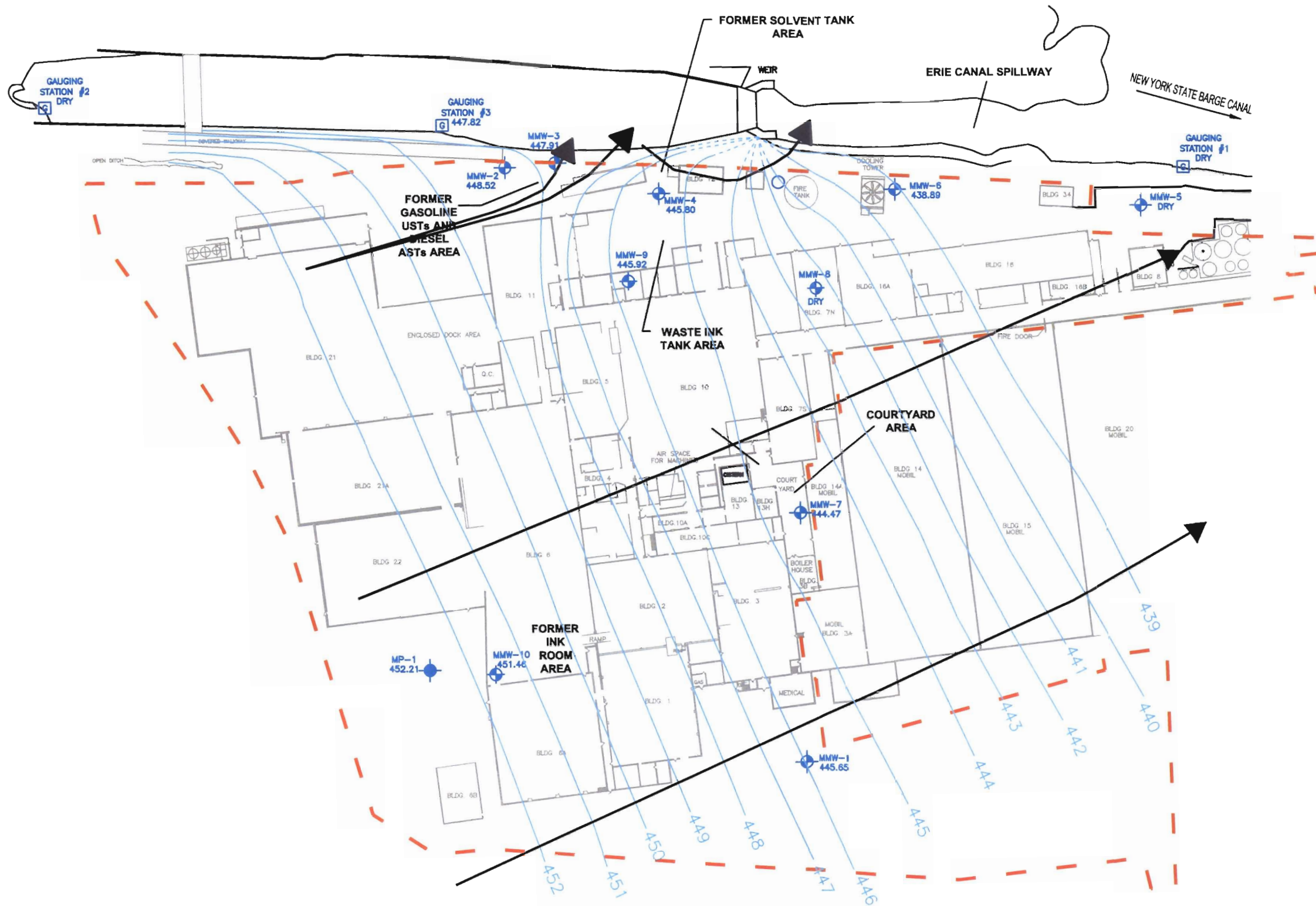
Client: **PACTIV**
Advanced Packaging Solutions

 URS Corporation 77 Goodell Street Buffalo, New York 14203	Drafter: SRV	Date: May 2009
	Drg. Size: 11 x 17	Job No.: 11175654.00000

FIGURE 4-1



True North Per Barge
Canal Mapping Prepared
By State of New York



LEGEND

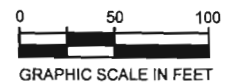
- Gauging Station with Groundwater Elevation
- Monitoring Well Location with Groundwater Elevation
- Piezometer Location with groundwater elevation
- Groundwater Flow
- Site Boundary
- Building Number

NOTES:

All locations are approximate.

DRAWING SOURCE:

Mobil Chemical Drawing DX1631 (SPCC Drawing) 3/94



Title: GROUNDWATER ELEVATION CONTOURS,
FEBRUARY 2009

Location: MACEDON, NEW YORK

Client: PACTIV
Advanced Packaging Solutions

URS
URS Corporation
77 Goodell Street
Buffalo, New York 14203

Drafter: SRV	Date: May 2009
Drg. Size: 11 x 17	Job No.: 11175654.00000

FIGURE 4-2

APPENDIX A

BORING LOGS

URS Corporation										TEST BORING LOG									
PROJECT: Macedon Film Site, Macedon, NY										BORING NO: MMW-8									
CLIENT: Pactiv Corporation										SHEET: 1 of 1									
BORING CONTRACTOR: Nothnagle Drilling Co.										JOB NO.: 11175654									
GROUNDWATER:										CAS.	SAMPLER	CORE	TUBE	BORING LOCATION: Building 7N					
DATE										TIME		LEVEL		TYPE		TYPE		GROUND ELEVATION: 455.50	
																DATE STARTED: 07/22/08			
																DATE FINISHED: 07/22/08			
																DRILLER: Jeff Schweitzer			
																GEOLOGIST: Rob Piurek			
																REVIEWED BY: Tim Burmeier			
																* POCKET PENETROMETER READING			
DEPTH FEET	SAMPLE						DESCRIPTION						REMARKS						
	STRATA	NO.	TYPE	BLOWS PER 6"	REC% RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	PID	Moist								
		1	2" MC		70%	Gray / Light brown Dk Brown Black		0'-0.6'- Concrete Pavement FILL. Coarse-fine sand, trace-little fine gravel, trace slag.	FILL ↓	0.1	Dry								
5		2	2" MC		80%	Light Brown ↓		Fine SILTY SAND, trace coarse-medium sand.	SM ↓	0.0	Dry-Slightly Moist								
10		3*	2" MC		63%	↓		Medium-fine SAND, trace silt.	SP	0.0	V. Mois -Moist								
								Fine subangular GRAVEL and coarse-fine SAND, trace silt.	GW		Slightly Moist								
15		4	2" MC		95%	Gray ↓		Medium-fine SAND, trace silt.	SP ↓	0.0	Very Moist								
								End of Boring at 16' bgs.											
20								-Monitoring well installed. Screened with 1" slotted PVC from 5'-15' bgs. Sandpack from 4'-15' bgs. Hydrated bentonite seal from 0.5'-4' bgs. Flush mount well cover installed and concrete to surface level.											
25																			
30																			
COMMENTS: Macrocore advanced with a Bobcat-mounted Power Probe 9630 VTR-M.										PROJECT NO.		11175654							
*= Sample collected for VOCs, SVOCs, and Metals (MMW-8 8'-12').										BORING NO.		MMW-8							

URS Corporation										TEST BORING LOG					
PROJECT: Macedon Film Site, Macedon, NY										BORING NO: MMW-9					
CLIENT: Pactiv Corporation										SHEET: 1 of 1					
BORING CONTRACTOR: Nothnagle Drilling Co.										JOB NO.: 11175654					
GROUNDWATER:										CAS.	SAMPLER	CORE	TUBE	BORING LOCATION: Ink Mixing Room	
DATE	TIME	LEVEL	TYPE	TYPE			Macrocore			GROUND ELEVATION: 455.44					
				DIA.			2"			DATE STARTED: 07/22/08					
				WT.			--			DATE FINISHED: 07/22/08					
				FALL			--			DRILLER: Jeff Schweitzer					
										* POCKET PENETROMETER READING				GEOLOGIST: Rob Piurek	
														REVIEWED BY: Tim Burmeier	
DEPTH FEET	SAMPLE						DESCRIPTION						REMARKS		
	STRATA	NO.	TYPE	BLOWS PER 6"	REC% RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	PID	Moist				
		1	2" MC		70%	Gray		0'-0.6'- Concrete Pavement	FILL	0.9	Slightly Moist- Dry				
5						Light Brown		Medium-fine SAND, some coarse-fine subround-subangular gravel, trace slag.							
		2*	2" MC		68%	Dark Brown		-trace silt, trace fine gravel	SP	0.1	Dry				
								Fine SAND, some silt, little-trace medium sand.			Moist				
10		3	2" MC		78%	Brown		Medium-fine SAND, trace silt.	SW	0.2	Very Moist				
						Light Gray		Coarse-fine SAND, little fine gravel.			Moist				
		4	2" MC		90%	Light Brown		SILT and CLAY, little subround-subangular gravel.	ML/CL	0.0	Slightly Moist				
15								Medium-fine SAND, trace silt and coarse sand.	SW		Very Moist				
						Dk Brown		Dense coarse-fine SAND, some fine gravel.			Dry				
20								End of Boring at 16' bgs.							
25								-Monitoring well installed. Screened with 1" slotted PVC from 5'-15' bgs. Sandpack from 4'-15' bgs. Hydrated bentonite seal from 0.5'-4' bgs. Flush mount well cover installed and concrete to surface level.							
30															
COMMENTS: Macrocore advanced with a Bobcat-mounted Power Probe 9630 VTR-M.										PROJECT NO. 11175654					
*= Sample and MS/MSD collected for VOCs, SVOCs, and Metals (MMW-9 4'-8', MMW-9 4'-8' MS, and MMW-9 4'-8' + MS/MSD).										BORING NO. MMW-9					

URS Corporation										TEST BORING LOG					
PROJECT: Macedon Film Site, Macedon, NY										BORING NO: MMW-10					
CLIENT: Pactiv Corporation										SHEET: 1 of 1					
BORING CONTRACTOR: Nothnagle Drilling Co.										JOB NO.: 11175654					
GROUNDWATER: About 5.5' bgs.										CAS.	SAMPLER	CORE	TUBE	BORING LOCATION: Former Ink Room	
DATE	TIME	LEVEL	TYPE	TYPE			Macrocore			GROUND ELEVATION: 457.15					
				DIA.			2"			DATE STARTED: 07/22/08					
				WT.			--			DATE FINISHED: 07/22/08					
				FALL			--			DRILLER: Jeff Schweitzer					
* POCKET PENETROMETER READING										GEOLOGIST: Rob Piurek					
										REVIEWED BY: Tim Burmeier					
DEPTH FEET	STRATA	SAMPLE				DESCRIPTION				USCS	REMARKS				
		NO.	TYPE	BLOWS PER 6"	REC% RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	PID		Moist				
		1	2" MC		93%	Gray		0'-0.6'- Concrete Pavement	FILL	0.0	Slightly Moist				
5					Light-Dark Brown		Fine SANDY SILT, little clay, trace plant material, trace orange mottles.								
		2*	2" MC		73%	Light Brown		-trace clay, trace coal fragments	SM	2.9	Very Moist				
10		3	2" MC		95%	Black		Fine SILTY SAND, some medium sand.							
					Light Brown		Medium-fine SILTY SAND, trace fine gravel. High PID readings throughout sample, highest reading at 9.0'. Strong petroleum odor.								
15		4	2" MC		95%	Light Gray		Medium-fine SILTY SAND. Petroleum odor.	CL	51.9	Very Moist Slightly Moist				
								Fine SILTY CLAY, some fine gravel and coarse sand.							
								End of Boring at 16' bgs.							
20								-Monitoring well installed. Screened with 1" slotted PVC from 5'-15' bgs. Sandpack from 4'-15' bgs. Hydrated bentonite seal from 0.5'-4' bgs. Flush mount well cover installed and concrete to surface level.							
25															
30															
COMMENTS: Macrocore advanced with a Bobcat-mounted Power Probe 9630 VTR-M.										PROJECT NO. 11175654					
*= Sample collected for VOCs, SVOCs, and Metals (MMW-10 4'-5.4').										BORING NO. MMW-10					

APPENDIX B

MONITORING WELL CONSTRUCTION LOGS

DRILLING SUMMARY

Geologist:

Rob Piurek

Drilling Company:

Nothnagle Drilling Co.

Driller:

Jeff Schweitzer

Rig Make/Model:

Geoprobe/Power Probe 9630 VTR-M

Date:

7/22/2008

GEOLOGIC LOG

Depth(ft.)**Description**

See Boring Log

WELL DESIGN

Elevation 455.50' amsl
Elevation 455.24' amsl

Flush Mount

Protective Casing and Lockable Cap

Ground Level

AUGERHOLE

2 inch dia.
16 feet length

0.5'

PVC CASING

1 inch dia.
5 feet length

4.0'

5.0'

PVC SCREEN

1 inch dia.
10 feet length

15.0'

16.0'

D
E
P
T
H**CASING MATERIAL**

Surface: Steel grade well cover

Monitor: 1" PVC

SCREEN MATERIAL

Type: 1" PVC

Slot Size: .010"

FILTER MATERIAL

Type: #2 Sand Setting: 4.0' - 16.0'

SEAL MATERIAL

Type: Bentonite Setting: 0.5' - 4.0'

COMMENTS:**LEGEND**

Cement Grout



Bentonite Seal



Silica Sandpack

Client: Pactiv Corporation

Location: Macedon Films Site

Project No.: 11175654

URS Corporation

MONITORING WELL
CONSTRUCTION DETAILS

Well Number: MMW-8

DRILLING SUMMARY

Geologist:

Rob Piurek

Drilling Company:

Nothnagle Drilling Co.

Driller:

Jeff Schweitzer

Rig Make/Model:

Geoprobe/Power Probe 9630 VTR-M

Date:

7/22/2008

GEOLOGIC LOG

Depth(ft.)	Description

See Boring Log

WELL DESIGN

Elevation 455.44' amsl

Elevation 455.14' amsl

Flush Mount

Protective Casing and Lockable Cap

Ground Level

AUGERHOLE

2 inch dia.

16 feet length

0.5'

4.0'

5.0'

15.0'

16.0'

PVC CASING

1 inch dia.

5 feet length

PVC SCREEN

1 inch dia.

10 feet length

D
E
P
T
H**CASING MATERIAL**

Surface: Steel grade well cover

Monitor: 1" PVC

SCREEN MATERIAL

Type: 1" PVC

Slot Size: .010"

FILTER MATERIAL

Type: #2 Sand Setting: 4.0' - 16.0'

SEAL MATERIAL

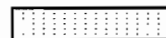
Type: Bentonite Setting: 0.5' - 4.0'

COMMENTS:**LEGEND**

Cement Grout



Bentonite Seal



Silica Sandpack

Client: Pactiv Corporation

Location: Macedon Films Site

Project No.: 11175654

URS Corporation

MONITORING WELL
CONSTRUCTION DETAILS

Well Number: MMW-9

DRILLING SUMMARY

Geologist:

Rob Piurek

Drilling Company:

Nothnagle Drilling Co.

Driller:

Jeff Schweitzer

Rig Make/Model:

Geoprobe/Power Probe 9630 VTR-M

Date:

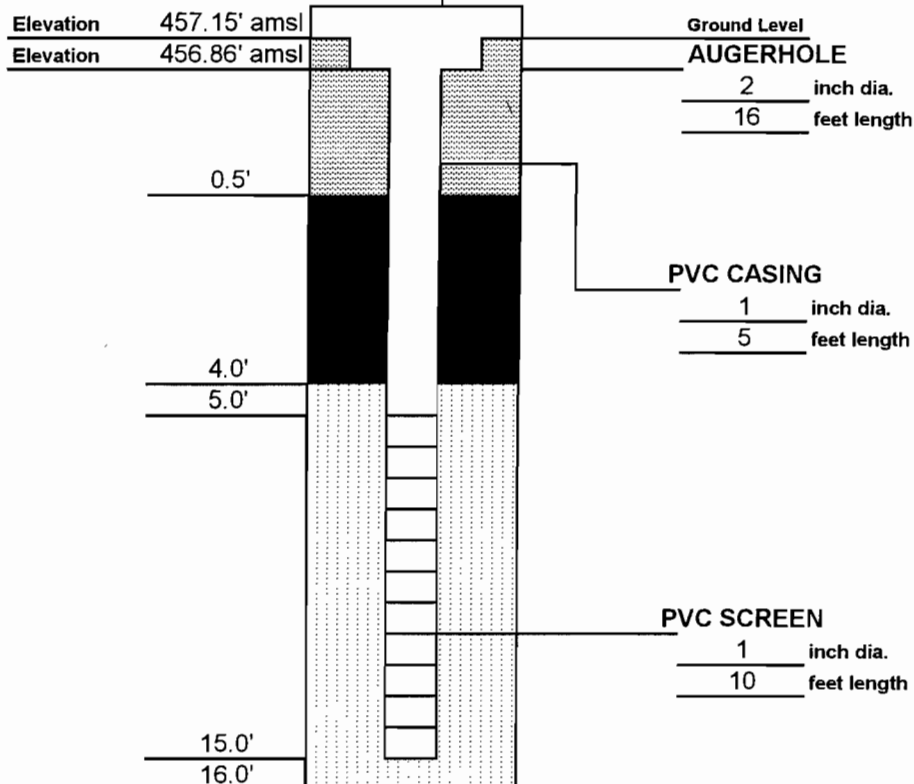
7/22/2008

GEOLOGIC LOG

Depth(ft.)	Description

See Boring Log

WELL DESIGN

D
E
P
T
H**CASING MATERIAL**

Surface: Steel grade well cover

Monitor: 1" PVC

SCREEN MATERIAL

Type: 1" PVC

Slot Size: .010"

FILTER MATERIAL

Type: #2 Sand Setting: 4.0' - 16.0'

SEAL MATERIAL

Type: Bentonite Setting: 0.5' - 4.0'

COMMENTS:**LEGEND**

- Cement Grout
- Bentonite Seal
- Silica Sandpack

Client: Pactiv Corporation

Location: Macedon Films Site

Project No.: 11175654

URS Corporation

MONITORING WELL
CONSTRUCTION DETAILS

Well Number: MMW-10

APPENDIX C

MONITORING WELL DEVELOPMENT LOGS

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Macedon Films Site- Macedon, NY

WELL NO.: MMW-8

PROJECT NO.: 11175654.00001

STAFF: R. Piurek

DATE(S): 7/24/2008

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>13.4</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>9.4</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>4.0</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.04</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>0.16</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u>0.48</u>	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>5.5</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	Initial	1	2	4	5						
pH	7.61	7.69	7.65	7.55	7.60						
SPEC. COND. (mS/cm)	0.946	0.862	0.811	0.717	0.761						
APPEARANCE	Cloudy Brown	Cloudy Brown	Cloudy Brown	Cloudy Brown	Cloudy Brown						
TEMPERATURE (°C)	21.7	21.8	21.5	22.0	21.9						
Turbidity (ntu)	>1000	>1000	>1000	>1000	>1000						
Dissolved Oxygen (mg/L)	9.06	6.69	8.08	7.16	7.74						
ORP (mV)	12	39	74	74	78						

COMMENTS:

- Purged with a dedicated 1" plastic bailer.
- Surged with plastic bailer after initial, 1 gallon, and 2 gallon readings.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Macedon Films Site- Macedon, NY

WELL NO.: MMW-9

PROJECT NO.: 11175654.00001

STAFF: R. Piurek

DATE(S): 7/24/2008

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>14.0</u>	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>7.2</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>6.8</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.04</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>0.27</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ____)	=	<u>0.8184</u>	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>8.5</u>	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	Initial	1	2	3	4	5	6	7	8		
pH	6.6	7.1	7.3	7.4	7.1	7.1	7.1	7.0	7.0		
SPEC. COND. (mS/cm)	9.00	0.40	0.57	0.80	1.78	1.78	1.74	1.78	1.79		
APPEARANCE	Cloudy Brown	Cloudy Brown	Cloudy Brown	Cloudy Brown	Cloudy Brown	Cloudy Brown	Cloudy Brown	Cloudy Gray	Cloudy Gray		
TEMPERATURE (°C)	19.5	19.4	19.3	19.2	18.8	19.1	19.0	19.1	19.1		
Turbidity (ntu)	>1000	>1000	>1000	>1000	>1000	>1000	>1000	>1000	>1000		
Dissolved Oxygen (mg/L)	9.69	10.16	10.15	10.12	6.89	6.16	7.40	7.30	7.25		
ORP (mV)	-	-	-	-	-	-	-	-	-		

COMMENTS:

- Purged with a dedicated 1" plastic bailer.
- Surged with plastic bailer after initial, 1 gallon, 2 gallon, and 5 gallon readings.

WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: Macedon Films Site- Macedon, NY

WELL NO.: MMW-10

PROJECT NO.: 11175654.00001

STAFF: R. Piurek

DATE(S): 7/24/2008

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	14.63	WELL ID. 1"	VOL. (GAL/FT) 0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	5.77	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	8.9	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.04	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	0.35	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x #6)	=	1.0632	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	6.5	8"	2.60

OR
V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	Initial	1	2	3	4	5	6				
pH	7.04	6.63	6.61	6.97	7.00	6.93	7.03				
SPEC. COND. (mS/cm)	0.552	0.532	0.459	0.531	0.529	0.522	0.511				
APPEARANCE	Cloudy Brown	Cloudy Brown	Cloudy Brown	Cloudy Brown	Cloudy Brown	Cloudy Brown	Cloudy Brown				
TEMPERATURE (°C)	18.7	18.0	18.0	18.4	18.8	18.7	18.9				
Turbidity (ntu)	>1000	>1000	>1000	>1000	>1000	>1000	>1000				
Dissolved Oxygen (mg/L)	9.93	5.08	4.41	6.8	7.74	7.97	7.86				
ORP (mV)	8	7	7	6	-4	-6	-9				

COMMENTS:

- Purged with a dedicated 1" plastic bailer.
- Surged with plastic bailer after initial, 1 gallon, 2 gallon readings.
- Distinct petroleum odor in purge water.

APPENDIX D

SURVEY DATA

PACTIV CORPORATION - MACEDON FILMS SITE

HORIZONTAL DATUM: SITE SPECIFIC

VERTICAL DATUM: NAVD88

July 24, 2008

Designation	Coordinates		Elevations (feet amsl)		
	Northing	Easting	Ground ¹	Casing	Riser
GS-1	2074.26	5364.00	443.60	n/a	n/a
GS-2	2130.63	4287.98	457.34	n/a	n/a
GS-3	2099.14	4725.96	448.24	n/a	n/a
MMW-8	1975.57	5033.58	455.50	455.50	455.24
MMW-9	1967.15	4868.90	455.44	455.44	455.14
MMW-10	1612.89	4749.00	457.15	457.15	456.86
SS-1	1630.47	4696.33	457.8	n/a	n/a
SS-2	1634.22	4689.79	458.4	n/a	n/a
SS-3	1641.92	4695.15	457.5	n/a	n/a
SS-4	1766.58	5021.35	456.4	n/a	n/a

Notes:

1. All Gauging Station (GS-1, GS-2, GS-3) "ground" elevations are measured at the at zero mark on the gauge.

amsl = Above mean sea level.

6 cloudy, Rain
T Trimble 4700 Iat.
Te Topcon 5800

7-24-08

NT, DC

File: Macedon Films

A
Base @ 5 (MMW-5) HI = 5.63
5.80

Ht Here

~~shot 4A MMW-4 shot 8A MP-1~~
~~5A MMW-5 5A MMW-5~~
~~6A MMW-6~~

Held MP-1 for Horiz + Vert

MMW-5 for Horiz

Scale Factor 1.00960485

Rotation $6^{\circ}-44'-49''$

vert -5.386

Located MMW-1, 3, 4, 5, 6, 7 SS-4

Set 101, 102, 103, 104, 105 Control

File: Macedon

T@105 BS 8 HI = 5.25 HR = 5.78

CHT H = 0.50 V = 0.01

106 MMW-10 107-109 SS-1.23

T@102 BS 5 HI = 5.52 HR = 5.78

110 GS-1 @ 3.0' CHT H = 0.33 V = 0.07

70° Rain

1 Topcon 6500

7-24-08

NT, DL

File: Macedon

T@ 101 BS 4

HI=5.43 HR=5.78

CHK

H=0.70 V=0.09

1/1

T@ 8 = MMW 8

T@ 4 BS 101

HI=5.55 HR=5.78

CHK

H=0.70 V=0.04

1/2

T@ 1 = MMW 9

1/3

T@ 1 = MMW 3

1/4

T@ 1 = MMW 2

T@ 111 BS 4

HI=5.49 HR=5.78

CHK

H=0.04 V=0.03

1/5

T@ 12 GS-X3 @ 3.0'

T@ 103

BS 104

HI=5.60 HR=4.78

CHK

H=0.537 V=0.07

116 GS=2 @ 3.0'

700 Rarh		7-24-08		NT, DC	
Topcon Level					
STA	+	HI	-	Elev.	Desc
MP-1 Ca				457.83	
	4.68	462.51			
			5.36	457.15	MMW-10 6 1/2 ft
			5.65	456.86	Ri
TP-1			3.70	458.81	CP-105 Nail
	10.05	468.86			
TP-2			7.81	461.05	Nail
	8.09	469.14			
			0.73	462.41	CP-104
			5.13	461.01	CP-103
			8.80	460.34	SSGS-2
TP-3			10.01	459.13	Conc Cap
	2.41	461.54			
			10.30	456.24	SC-3 @ 30'
			5.25	456.29	MMW-2 Ca
			4.48	457.06	MMW-3 Ca
TP-4			2.66	458.88	Conc Nail
	0.69	459.57			
			4.80	454.77	MMW-4 Ca
			4.13	455.44	MMW-9 Ca
			4.43	455.14	Pi
TP-5			3.86	455.71	Ri
	4.29	460.00			
			4.50	455.50	MMW-8 6 1/2 ft
			4.786	455.24	Ri

MMW-2 456.25

MMW-5 457.63

MMW-4 454.47

MMW-5 452.86

MMW-6 454.90

@ 3.0' Elev @ 0.00 = 457.34

Elev @ 0.00 = 448.24

70° Rain
Topcon Level

7-24-08

N7, DL

STA	+	HI	-	Elev	Desc
		460.00			
			5.15	454.85	CP-101
TP-6			5.16	454.84	Conc. Core
	4.73	459.57			
			4.68	454.89	MHW-6 Gr/Ka
TV-7	~~3.87~~		3.87	455.70	Conc. Wall
	1.80	452.50	7.40		
			5.14	452.36	CP-102
			10.90	446.60	SS-1 @ 30'
			4.42	453.08	MHW-5 Gr/Ka
			+0.02		✓

Elev @ 0.00 = 443.60'

APPENDIX E

MONITORING WELL PURGE LOGS and

DEPTH TO WATER MEASUREMENTS

JULY 2008

WATER LEVEL FIELD DATA SHEET

Project: *Kent Racco MacGoon*

Date: 7/24/08

Field Personnel

Kevin J. McGovern

[illegible]

FIELD PARAMETER METER CALIBRATION SHEET

Project# 11175654.00001

Project Name RACINE MALCOON

Meter 1: HANNA U-22

Equipment # ASHLEAD NERAC

Meter 2: LAMORTE 2020

Equipment # ↓

Meter 3: M.M. 108 2000

Equipment # ↓

Meter 4:

Equipment #

Date	Initials	Meter 1	Meter 2	Meter 3	Meter 4	Comments
7/24/08	KSM	pH SC Temp DO ORP Turb Other	pH SC Temp DO ORP Turb Other	pH SC Temp DO ORP Turb Other <u>P.O. M.M.</u>	pH SC Temp DO ORP Turb Other	
7/23/08	KSM	pH SC Temp DO ORP Turb Other	pH SC Temp DO ORP Turb Other	pH SC Temp DO ORP Turb Other	pH SC Temp DO ORP Turb Other	
7/24/08	KSM	pH SC Temp DO ORP Turb Other	pH SC Temp DO ORP Turb Other	pH SC Temp DO ORP Turb Other	pH SC Temp DO ORP Turb Other	
		pH SC Temp DO ORP Turb Other	pH SC Temp DO ORP Turb Other	pH SC Temp DO ORP Turb Other	pH SC Temp DO ORP Turb Other	
		pH SC Temp DO ORP Turb Other	pH SC Temp DO ORP Turb Other	pH SC Temp DO ORP Turb Other	pH SC Temp DO ORP Turb Other	
		pH SC Temp DO ORP Turb Other	pH SC Temp DO ORP Turb Other	pH SC Temp DO ORP Turb Other	pH SC Temp DO ORP Turb Other	
		pH SC Temp DO ORP Turb Other	pH SC Temp DO ORP Turb Other	pH SC Temp DO ORP Turb Other	pH SC Temp DO ORP Turb Other	

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: LRCON Site: LRCON Macdon Well I.D.: MP1
Date: 7/24/08 Sampling Personnel: Kenn J. McGowan Company: URS Corporation

Purging/ Sampling Device:	<u>MASTIFFLOX</u> <u>POWERSLATIC</u>		Tubing Type:	<u>LOPE</u>	Pump/Tubing Inlet Location:	<u>Screen midpoint</u>
Measuring Point:	<u>Below Top of Riser</u>	<u>Initial Depth to Water:</u> <u>6.54'</u>	<u>Depth to Well Bottom:</u>	<u>13.29'</u>	<u>Well Diameter:</u> <u>0.75"</u>	<u>Screen Length:</u> <u>10'</u>
Casing Type:	<u>PVC</u>		Volume in 1 Well Casing (liters):	<u>0.6'</u>	Estimated Purge Volume (liters):	<u>6</u>

Sample ID: MP-01 (02/24/2008) Sample Time: 12:40 QA/QC: NONE

Sample Parameters: VOCs, SVOCs, MGBALS (TOTAL)

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
6:21:12	6.92	16.4	0.850	8.92	101	88	200	
12:17	6.55	16.1	0.862	5.01	20	99	200	
12:22	6.56	16.0	0.853	5.00	20	92	200	
12:27	6.53	15.6	0.859	4.42	28	106	200	
12:32	6.52	15.6	0.859	4.32	27	113	200	
12:37	6.54	15.7	0.860	4.39	27	118	200	
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

SLIP CAP ONLY, NO LOCKING T-PLUG

Sample ID: MMN-01 (07/23/2008) Sample Time: 15:55 QA/QC: None

Sample Parameters: VOCs, SVOCs, PCRA MGDs (TOTAL)

Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---

2.63

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: PACDV MACDON Site: MACDON, NY Well I.D.: MMW-2
Date: 7/23/08 Sampling Personnel: Kevin J. McGovern Company: URS Corporation

Purging/ Sampling	Device: <u>MUSSELOX PENETRATOR</u>		Tubing Type: <u>HDPE</u>	Pump/Tubing Inlet	Location: <u>Screen midpoint</u>
Measuring Point:	Below Top of Riser	Initial Depth to Water: <u>6.24'</u>	Depth to Well Bottom: <u>13.03'</u>	Well Diameter: <u>2"</u>	Screen Length: <u>10'</u>
Casing Type:	<u>PVC</u>		Volume in 1 Well Casing (liters): <u>4.2</u>	Estimated Purge Volume (liters): <u>6.0</u>	

Sample ID: MMN-02 (07/23/2008) Sample Time: 14:50 QA/QC: None
Sample Parameters: VOCs, SVOCs, PCRA Metals (TOTAL)

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
14:20	6.49	18.7	0.837	9.16	51.1	99	200	
14:25	6.28	18.4	0.823	1.22	32.8	108	200	
14:30	6.26	18.2	0.820	0.34	22.3	113	200	
14:35	6.25	18.0	~~0.807~~ 1.04	0.00	15.5	116	200	
14:40	6.26	18.0	1.05	0.00	13.7	118	200	
14:45	6.27	17.9	1.07	0.00	14.9	120	200	
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

Project: RACING MACEON Site: PACON, MACEON Well I.D.: MMW-4
Date: 7/23/08 Sampling Personnel: Kenn F. McBrown Company: URS Corporation

Purging/ Sampling Device:	<u>MASDA FLOX Pumps</u>		Tubing Type:	<u>LDPE</u>	Pump/Tubing Inlet Location:	<u>Screen midpoint</u>
Measuring Point:	Below Top of Riser	Initial Depth to Water: <u>6.80'</u>	Depth to Well Bottom: <u>13.45'</u>	Well Diameter:	<u>2"</u>	Screen Length: <u>10'</u>
Casing Type:	<u>PVC</u>		Volume in 1 Well Casing (liters):	<u>4.1</u>	Estimated Purge Volume (liters):	<u>6.0</u>

Sample ID: MMW-04607/23/2008 Sample Time: 12:30 QA/QC: NONE
Sample Parameters: VOCs, SVOCs, PCNA, METALS (TOTAL)

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
12:00	7.04	18.2	0.730	10.65	150	125	200	
12:05	6.61	18.5	0.701	6.18	28.4	138	200	
12:10	6.54	18.8	0.691	5.95	26.3	139	200	
12:15	6.55	19.2	0.689	5.88	24.9	137	200	
12:20	6.58	19.3	0.697	5.71	12.9	135	200	
12:25	6.62	19.4	0.703	5.52	8.1	130	200	
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---

Information: WATER VOLUMES—0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

Project: Pacifi MACGoon Site: Pacifi Well I.D.: MMWS
Date: 7/23/08 Sampling Personnel: Kenn J. McGowan Company: URS Corporation

Purging/ Sampling Device:	<u>MASON FLOO Pumps</u>		Tubing Type:	<u>LDPE</u>	Pump/Tubing Inlet Location:	<u>Screen midpoint</u>
Measuring Point:	Below Top of Riser	Initial Depth to Water: <u>8.18'</u>	Depth to Well Bottom: <u>9.75'</u>	Well Diameter:	<u>2"</u>	Screen Length: <u>10'</u>
Casing Type:	<u>PVC</u>		Volume in 1 Well Casing (liters): <u>0.97</u>	Estimated Purge Volume (liters):	<u>6</u>	

Sample ID: MMW-05 (07/23/2008) Sample Time: 09:30 QA/QC: NONE
Sample Parameters: VOCs, SVOCs, PCBs, MCHALS (TODAD)

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
09:01	6.28	20.8	2.65	6.32	5.0	-35	200	
09:06	6.54	20.4	2.66	0.61	4.4	-60	200	
09:11	6.59	20.3	2.68	0.06	3.0	-77	200	
09:16	6.61	20.2	2.70	0.00	2.6	-80	200	
09:21	6.63	20.3	2.72	0.00	2.7	-80	200	
09:26	6.64	20.3	2.78	0.00	2.7	-79	200	
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES—0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks: J-Plug Broken, Can Not Lock

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: PACW Macdon Site: PACW Well I.D.: MMW-6

Date: 7/23/08 Sampling Personnel: Kevin J. McGowan Company: URS Corporation

Purging/
Sampling
Device: Masina Pro Pansonic Tubing Type: LOPE Pump/Tubing
Inlet
Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 11.60' Depth to Well Bottom: 20.85' Well Diameter: 2" Screen Length: 10'

Casing Type:	PVC	Volume in 1 Well Casing (liters):	5.7	Estimated Purge Volume (liters):	6.0

Sample ID: MMW-06/07/23/2008 Sample Time: 10:58 QA/QC: MS + MSD

Sample Parameters: VOCS, SVOCs, PCRA Metals (TOTAL)

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
10:28	7.44	17.2	0.479	5.76	141.0	78	200	
10:33	7.12	17.3	0.464	5.83	44.8	94		
10:38	7.14	17.2	0.462	5.38	31.7	93		
10:43	7.17	17.2	0.462	5.39	25.9	93		
10:48	7.17	17.0	0.464	5.32	11.4	94		
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

Project: PACIN Macdon Site: PACIN Well I.D.: MMW-7
Date: 7/24/08 Sampling Personnel: Kenn J. McGowan Company: URS Corporation

Purging/ Sampling Device:	<i>Mastaflex Pump</i>		Tubing Type:	<i>LDPE</i>		Pump/Tubing Inlet Location:	Screen midpoint	
Measuring Point:	Below Top of Riser	Initial Depth to Water: <i>9.08'</i>	Depth to Well Bottom:	<i>18.32'</i>		Well Diameter:	<i>2"</i>	
							Screen Length:	<i>10'</i>
Casing Type:	PVC		Volume in 1 Well Casing (liters):	<i>3.8</i>		Estimated Purge Volume (liters):	<i>6</i>	

Sample ID: *MAN-07 (07/24/2008)* Sample Time: *11:15* QA/QC: *NONE*

Sample Parameters: VOCs, SVOCs, Metals (Total)

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Raccoon Macdon Site: Raccoon Macdon Well I.D.: MMW-8
Date: 7/24/08 Sampling Personnel: Kenn S. McEvoy Company: URS Corporation

Purging/ Sampling Device:	MASTEC FLEX - PONSOLINE		Tubing Type:	LONG		Pump/Tubing Inlet Location:	Screen midpoint				
Measuring Point:	Below Top of Riser	Initial Depth to Water:	9.40'		Depth to Well Bottom:	13.40'		Well Diameter:	1"	Screen Length:	10
Casing Type:	PVC		Volume in 1 Well Casing (liters):	0.6		Estimated Purge Volume (liters):	5				

Sample ID: MAN-08 (07/24/08) Sample Time: 15:45 QA/QC: NONE
Sample Parameters: VOCs, SVOCs, PCNA, MIBZAL (TOTAL)

PURGE PARAMETERS

[illegible]

Tolerance:	0.1	---	3%	10%	10%	+ or - 10	--- to ---

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

Project: Bacon MacGon Site: ACTIV MACGON Well I.D.: MAW-9
Date: 7/24/68 Sampling Personnel: Kenn J. McGowan Company: URS Corporation

Purging/ Sampling Device:	<u>MARLBOROUGH PUMP</u>		Tubing Type:	<u>LDPE</u>		Pump/Tubing Inlet Location:	<u>Screen midpoint</u>	
Measuring Point:	Below Top of Riser	Initial Depth to Water: <u>7.18</u>	Depth to Well Bottom:	<u>140</u>		Well Diameter:	<u>1"</u>	
Casing Type:	<u>PVC</u>		Volume in 1 Well Casing (liters):	<u>1.1 m</u>		Estimated Purge Volume (liters):	<u>3</u>	

Sample ID: MMW-09 (07/24/2008) Sample Time: 13:30 QA/QC: NONE
Sample Parameters: VOL₁, SVOL₂, MGRALS (TOTAL)

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
13:20	7.04	19.1	1.80	7.30	58.2	88	200	
13:23	7.04	19.0	1.81	7.25	23.1	86	200	
13:26	7.03	18.9	1.79	7.20	14.8	77	200	
13:30	7.02	18.9	1.80	7.20	10.0	65	200	
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks: *PURGED THIS ~~RECORD~~ w/ DISPOSABLE RAILON*
EXAMINER

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: PACW Magoon Site: PACTW Well I.D.: MW-10
Date: 7/24/08 Sampling Personnel: Kevin J. McGowan Company: URS Corporation

Purging/ Sampling Device:	MASTON PUMP PENSACOLA		Tubing Type:	LOPE		Pump/Tubing Inlet Location:	Screen midpoint				
Measuring Point:	Below Top of Riser	Initial Depth to Water:	5.77		Depth to Well Bottom:	1463		Well Diameter:	1"	Screen Length:	10'
Casing Type:	PVC		Volume in 1 Well Casing (liters):		1.4		Estimated Purge Volume (liters):		3.4		

Sample ID: MMW-10 (07/24/2008) Sample Time: 14:30 QA/QC: None
Sample Parameters: VOCs, SVOCs, ~~Met~~ PCRA MCR-50 (TOTAL)

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES—0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

FEBRUARY 2009

202 9 13 2001

Pactiu Macedon

2/11/09

Matt Kandefer

new box
gasket

FIELD PARAMETER METER CALIBRATION SHEET

Project# 11175654.00002

Project Name Pactio Macedon

Meter 1: Lanette 2020 Turbidity

Equipment # 15600100

Meter 2: Rac Minicore 2000

Equipment # 110-006826

Meter 3: YSI 556

Equipment # 07 F100306

Meter 4:

Equipment #

Date	Initials	Meter 1	Meter 2	Meter 3	Meter 4	Comments
2/11/09	ML	pH SC Temp DO ORP Turb <u>1.0 TV</u> Other	pH SC Temp DO ORP Turb Other <u>PPH ISO 100</u>	pH SC Temp DO ORP Turb Other	pH SC Temp DO ORP Turb Other	
2/12/09	ML	pH SC Temp DO ORP Turb <u>1.0 TV</u> Other	pH SC Temp DO ORP Turb Other <u>PPH ISO 100</u>	pH SC Temp DO ORP Turb Other	pH SC Temp DO ORP Turb Other	
		pH SC Temp DO ORP Turb Other	pH SC Temp DO ORP Turb Other	pH SC Temp DO ORP Turb Other	pH SC Temp DO ORP Turb Other	
		pH SC Temp DO ORP Turb Other	pH SC Temp DO ORP Turb Other	pH SC Temp DO ORP Turb Other	pH SC Temp DO ORP Turb Other	
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		pH SC Temp DO ORP Turb Other	pH SC Temp DO ORP Turb Other	pH SC Temp DO ORP Turb Other	pH SC Temp DO ORP Turb Other	

**SAFETY COMPLIANCE AGREEMENT, BRIEFING FORM,
AIR MONITORING LOG, AND CALIBRATION CHECK SHEET
FOR MACEDON FILMS SITE**

I have read the Health and Safety Plan for the project and I understand it, and agree to comply with all of its provisions. I understand that I could be prohibited from working on the project for violating any of the health and safety requirements specified in the Plan.

	Name	Signature
URS Site Manager		
URS Site Safety Officer	<u>MATT KANDOLFE</u>	<u>M. K.</u>
URS Site Personnel	<u>MATT KANDOLFE</u>	<u>M. K.</u>
URS Site Personnel		

SAFETY ISSUES

DISCUSSED

	Yes
No	
Protective Clothing/Equipment	<u>X</u>
Chemical and Physical Hazards	<u>X</u>
Control Methods	<u>X</u>
Air Monitoring Action Levels and Requirements	<u>X</u>
Nearest Phone	<u>X</u>
Hospital Name/Address/Directions	<u>X</u>

Meeting conducted by: MATT KANDOLFE Date: 2/11/09

Attendees' Names (print)	Signatures
_____	_____
_____	_____
_____	_____
_____	_____

DAILY INSTRUMENT CALIBRATION CHECK SHEET

DATE	INSTRUMENT	BATTERY CHECK OK?	ZERO ADJUST OK?	CALIBRA TION GAS(PPM)	READING (PPM)	CALIBRATED BY
2/11/09	Mini Rae 200	Y	Y	ISO But	100	mk
2/12/09	Mini Rae 2000	Y	Y	ISO But	100	mk

FIELD MONITORING ACTIVITY LOG

DATE	ACTIVITY MONITORED	TIME	LOCATION	READING	ACTION	READING BY

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Pactio Site: Macedon Well I.D.: MMW-1
Date: 2/12/09 Sampling Personnel: M. Kandefer Company: URS Corporation

Purging/ Sampling Device:	master flex Peristaltic		Tubing Type:	LDPE		Pump/Tubing Inlet Location:	Screen midpoint				
Measuring Point:	BTOIL	Initial Depth to Water:	9.02		Depth to Well Bottom:	14.51		Well Diameter:	2"	Screen Length:	10'
Casing Type:	PVC		Volume in 1 Well Casing (liters):		3.39L		Estimated Purge Volume (liters):		~6.5L		

Sample ID: MMW-1 Sample Time: 0930 QA/QC: None
Sample Parameters: VOCs, SVOCs, Metals

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES—0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

$\rho_{10} = 0.0 \text{ ppm}$

weether 40°F Rain + wind

water started light brown w/ particulates
water at sample time clear w/ some
particulates

Project: PACTIV Site: Maceldon Well I.D.: MMW-2
Date: 2/12/09 Sampling Personnel: M. Kandefer Company: URS Corporation

Purging/ Sampling Device:	Master Flex Peristaltic		Tubing Type:	LDPE		Pump/Tubing Inlet Location:	Screen midpoint		
Measuring Point:	BTOR	Initial Depth to Water:	7.15	Depth to Well Bottom:	13.03	Well Diameter:	2"	Screen Length:	10'
Casing Type:	PVC		Volume in 1 Well Casing (liters):	3.62 L		Estimated Purge Volume (liters):	~ 4 L		

Sample ID: MMW-2 Sample Time: 1050 QA/QC: None
Sample Parameters: VOCs, SVOCs, Metals

[illegible]

water clear w/no particulates, no odor

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: PACTIV Site: Macedon Well I.D.: MMW-4
Date: 2/11/09 Sampling Personnel: M. Kandefer Company: URS Corporation

Purging/ Sampling Device:	Master Flex Peristaltic		Tubing Type:	LDPE	Pump/Tubing Inlet Location:	Screen midpoint			
Measuring Point:	B.T.O.R.	Initial Depth to Water:	6.90	Depth to Well Bottom:	13.45	Well Diameter:	2"	Screen Length:	10'
Casing Type:	PVC	Volume in 1 Well Casing (liters):	4.04 L	Estimated Purge Volume (liters):	~ 7L				

Sample ID: MMW-4 Sample Time: 1515 QA/QC: None
Sample Parameters: VOC, SVOC, metals

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1430	7.72	8.23	0.247	6.82	32	273	-200	7.90
1435	7.72	8.33	0.239	6.45	42	277	200	8.25
1440	7.73	8.43	0.236	6.30	60	270	200	8.60
1445	7.73	8.55	0.235	5.76	87	282	130	8.80
1450	7.74	8.50	0.234	5.66	95	286	120	9.10
1455	7.74	8.34	0.233	5.96	74	289	120	8.90
1500	7.72	8.21	0.230	5.82	62	292		8.50
1505	7.70	7.70	0.228	6.07	47	296		8.50
1510	7.74	7.04	0.221	6.22	48	295		
1515	7.72	6.56	0.218	6.28	45	298	↓	↑
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES=0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

water mostly clear w/ some fine particulates
pH = 0.0 ppm

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Pactiv Site: Macedon Well ID: MHW-3
Date: 2/11/09 Sampling Personnel: M. Kandofer Company: URS Corporation

Purging/ Sampling Device:	master flex peristaltic	Tubing Type:	LOPE	Pump/Tubing Inlet Location:	Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 8.56 Depth to Well Bottom: 11.60 Well Diameter: 2' Screen Length: 10'

Casing Type:	PVC	Volume in 1 Well Casing (liters):	1.87 L	Estimated Purge Volume (liters):	~4 L

Sample ID: MMW-3 Sample Time: 1630 QA/QC: NONE

Sample Parameters: VOCs, SVOC, Metals

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1600	6.97	8.95	367	3.35	46	315	~200	9.20
1605	6.89	9.04	369	2.97	56	318	150	9.30
1610	6.83	9.09	372	2.71	38	318	120	9.32
1615	6.80	9.07	377	2.75	30	318	120	9.36
1620	6.77	9.03	384	2.71	18	317	120	9.40
1625	6.78	9.06	388	2.63	14	317	120	9.41
1630	6.77	8.97	397	2.68	8	317	120	9.43
Tolerance:	0.1	--	3%	10%	10%	+ or - 10	--	*

Information: WATER VOLUMES=0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

water clear, no odor

$\rho_{10} = 0.0 \text{ ppm}$

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Pactio Site: Macedon Well ID.: MMW-5
Date: _____ Sampling Personnel: M. Randolph Company: URS Corporation

Purging/
Sampling
Device: Masterflex Peristaltic Tubing Type: LDPE Pump/Tubing
Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: Dry Depth to Well Bottom: 9.75 Well Diameter: 2" Screen Length: 10'

Casing Type:	PVC	Volume in 1 Well Casing (liters):	Estimated Purge Volume (liters):

Sample ID: MMW-5 Sample Time: QA/QC: None

Sample Parameters:

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES—0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_w = \pi r^2 h$)

Remarks:

Well was dry - Not sampled

Project: Pactio Site: Macedon Well ID: MMW-6
Date: 2/10/99 Sampling Personnel: M Kandor Company: URS Corporation

Purging/
Sampling
Device: Mastflex Peristaltic Tubing Type: LDPE Pump/Tubing
Inlet
Location: Screen midpoint

Measuring Below Top of Initial Depth
Point: Riser to Water: 15.85 Depth to
Well Bottom: 20.85 Well
Diameter: 2" Screen
Length: 10'

Casing
Type: PVC Volume in 1
Well Casing
(liters): 3.08 L Estimated
Purge
Volume
(liters): ~7 L

Sample ID: MMW-6 Sample Time: 1315 QA/QC: None (MS/MSO)

Sample Parameters: VOC, SVOC, Metals

[illegible]

Information: WATER VOLUMES—0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

water clear - no odor
P.O. = 0.0 ppm

Project: Pactiv Site: Macedon Well ID: MKW-7
Date: 2/12/09 Sampling Personnel: M. Kardoer Company: URS Corporation

Purging/ Sampling Device:	Masterflex Peristaltic		Tubing Type:	LOPE		Pump/Tubing Inlet Location:	Screen midpoint				
Measuring Point:	Below Top of Riser	Initial Depth to Water:	11.23		Depth to Well Bottom:	15.30		Well Diameter:	2"	Screen Length:	10'
Casing Type:	PVC		Volume in 1 Well Casing (liters):	2.51		Estimated Purge Volume (liters):	4.5L				

Sample ID: MMW-7 Sample Time: 1250 QA/QC: none
Sample Parameters: VOC, SVOC, Metals, + PCBs

[illegible]

Information: WATER VOLUMES—0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

PID 0.05pm water clear - no odor
 weather 30-40°F 30-50 mph wind + rain

Project: Pactw Site: Macedon Well ID.: MMW-8
Date: _____ Sampling Personnel: M. Kandef Company: URS Corporation

Masterflex Peristaltic

Tubing Type: LOPE

Location: Screen midpoint

Dry

Depth to
Well Bottom: 13.40

Well Diameter: 1 1/2"

Screen Length: 10'

Casing
Type: PVC

Volume in 1
Well Casing
(liters):

Estimated
Purge
Volume
(liters):

Sample ID: MHW-8

Sample
Time:

QA/QC: None

Sample Parameters:

[illegible]

Information: WATER VOLUMES—0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi^2 h$)

Remarks:

Well Dry - NO SAMPLE
Dry 2/11/09 + 2/12/09

Project: Pactiv Site: Macedon Well ID.: MMW-9
Date: 2/12/09 Sampling Personnel: M. Kandefer Company: URS Corporation

Purging/ Sampling Device:	Masterflex Peristaltic		Tubing Type:	LDPE	Pump/Tubing Inlet Location:	Screen midpoint
Measuring Point:	Below Top of Riser	Initial Depth to Water: 8.81	Depth to Well Bottom:	14.0	Well Diameter:	1"
						Screen Length: 10'
Casing Type:	PVC	Volume in 1 Well Casing (liters):	0.80	Estimated Purge Volume (liters):	5L	

Sample ID: MMW-9 Sample Time: 1600 QA/QC: None
Sample Parameters: VOCs, SVOC, Metals

[illegible]

Information: WATER VOLUMES—0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

Weather 30-40°F
Rain = wind

0.0 ppm PID

Turbidity Meter not working
- water change

Water clear - no particulates
no odor

Project: Pactiv Site: Macedon Well ID: MMW-10
Date: 2/12/09 Sampling Personnel: M Kandeke Company: URS Corporation

Purging/ Sampling Device:	Master/Slave Peristaltic		Tubing Type:	LOPE		Pump/Tubing Inlet Location:	Screen midpoint				
Measuring Point:	Below Top of Riser	Initial Depth to Water:	4.17		Depth to Well Bottom:	14.63		Well Diameter:	1"	Screen Length:	10'
Casing Type:	PVC		Volume in 1 Well Casing (liters):	1.61		Estimated Purge Volume (liters):	42				

Sample ID: MMW-10 Sample Time: 1435 QA/QC: None
Sample Parameters: VOCs, SVOCs, Metals

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1405	7.47	13.30	0.372	5.67	N/A	280	20	4.15
1410	7.13	13.45	0.365	4.93		298	120	4.50
1415	7.00	13.85	0.359	4.47		302	120	4.50
1420	6.96	14.08	0.356	4.24		301	120	
1425	6.93	14.14	0.355	4.13		302	120	
1430	6.91	14.18	0.354	4.11		303	120	
1435	6.90	14.19	0.353	4.08	↓	302	+	+
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES—0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 134 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($\text{vol}_{\text{cyl}} = \pi r^2 h$)

Remarks:

Weather 30-40°F
Rain + Wind
0.0 ppm PbO

LaMotte 2020 MAL functioning
Water clear / no no Particulates
no odor

Project: Pactiv Site: Macedon Well ID.: mp-1
Date: 2/11/09 Sampling Personnel: M. Kandor Company: URS Corporation

Purging/ Sampling Device:	Masterflex Peristaltic		Tubing Type:	LDPE		Pump/Tubing Inlet Location:	Screen midpoint				
Measuring Point:	Below Top of Riser	Initial Depth to Water:	5.10		Depth to Well Bottom:	13.29		Well Diameter:	0.75	Screen Length:	10'
Casing Type:	PVC		Volume in 1 Well Casing (liters):	0.71		Estimated Purge Volume (liters):	5.0 L				

Sample ID: MP-1 Sample Time: 1115 QA/QC: None
Sample Parameters: VOC, SVOC Metals

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

0.0 ppm 810

water clear - no odor

APPENDIX F

INVESTIGATION-DERIVED WASTE MANIFESTS

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number		2. Page 1 of 1	3. Emergency Response Phone 585.436.5660		4. Waste Tracking Number 7479	
5. Generator's Name and Mailing Address PACTIV CORPORATION 100 NORTH STREET CANANDAIGUA NY 14424					Generator's Site Address (if different than mailing address) 200 EAST MAIN ST. MACEDON NY 14502			
Generator's Phone: 585 393-5062					U.S. EPA ID Number NYD986983229			
6. Transporter 1 Company Name NEW YORK ENVIRONMENTAL TECHNOLOGIES					U.S. EPA ID Number			
7. Transporter 2 Company Name					U.S. EPA ID Number			
8. Designated Facility Name and Site Address CYCLE CHEM, INC. 550 INDUSTRIAL DRIVE LEWISBERRY PA 17339					U.S. EPA ID Number PAD067098822			
Facility's Phone: (717) 938-4700								
9. Waste Shipping Name and Description					10. Containers		11. Total Quantity	12. Unit WL/Vol.
					No.	Type		
1. NON-RCRA, NON-DOT LIQUIDS, NOS (GROUNDWATER)					001		55	
					~~002~~	DM	~~0100~~	G
2. NON-RCRA, NON-DOT SOLIDS, NOS (SOIL CUTTINGS)					003			
					~~002~~	DM	0500	P
3.								
4.								
13. Special Handling Instructions and Additional Information								
a. 709389-OW					a. S01			
b. 709389-LD					b. S01			
Job#R5399 PO#34304								
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.								
Generator's/Officer's Printed/Typed Name RICHARD ST. JAMES					Signature <i>Richard St. James</i>		Month Day Year 10/31/08	
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:								
16. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name THOMAS HENDERSON					Signature <i>Thomas Henderson</i>		Month Day Year 10/31/08	
Transporter 2 Printed/Typed Name					Signature		Month Day Year	
17. Discrepancy								
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection								
Manifest Reference Number:								
17b. Alternate Facility (or Generator)					U.S. EPA ID Number			
Facility's Phone:								
17c. Signature of Alternate Facility (or Generator)					Signature		Month Day Year	
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a								
Printed/Typed Name					Signature		Month Day Year	

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of 1

3. Emergency Response Phone

4. Waste Tracking Number

585 436 5660

09-087

5. Generator's Name and Mailing Address

PACTIV CORPORATION
100 NORTH STREET
CANANDAIGUA NY 14424

ALL DISK ST JAMES

Generator's Site Address (if different than mailing address)

PACTIV CORPORATION
200 EAST MAIN ST
MACEDON NY 14502

Generator's Phone: 585 393 5082

6. Transporter 1 Company Name

NEW YORK ENVIRONMENTAL TECHNOLOGIES, INC.

U.S. EPA ID Number

NYD988983229

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

CYCLE CHEM, INC.
550 INDUSTRIAL DR
LEWISBERRY PA 17339

U.S. EPA ID Number

Facility's Phone: 717 936-4700

PADO57098822

9. Waste Shipping Name and Description

10. Containers

No.

Type

11. Total
Quantity

12. Unit
Wt./Vol.

1. NON-RCRA NON DOT LIQUIDS, NOS (GROUNDWATER)

001

DM

00050

G

2.

3.

4.

13. Special Handling Instructions and Additional Information

0. 70-354-04

000 485 499 274 3304

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Officer's Printed/Typed Name

Signature

Month Day Year

15. International Shipments

☐ Import to U.S.

☐ Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space:

☐ Quantity

☐ Type

☐ Residue

☐ Partial Rejection

☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

APPENDIX G

DATA USABILITY SUMMARY REPORTS

**DATA USABILITY SUMMARY REPORT
FOR THE
MACEDON FILMS SITE
SUPPLEMENTAL INVESTIGATION
JULY 2008 SAMPLING EVENT**

Prepared for:

**PACTIV CORPORATION
TECHNOLOGY CENTER
2651 BRICKYARD ROAD
CANANDAIGUA, NY 14424**

Prepared by:

**URS CORPORATION
77 GOODELL STREET
BUFFALO, NY 14203**

September 2008

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II. ANALYTICAL METHODOLOGIES AND DATA VALIDATION	1
III. DATA DELIVERABLE COMPLETENESS	2
IV. HOLDING TIMES/SAMPLE RECEIPT	3
V. NON-CONFORMANCES	3
VI. SAMPLE RESULTS AND REPORTING	5
VII. SUMMARY	5

TABLES (Following Text)

Table 1	Summary of Data Qualifications
Table 2	Validated Surface Soil Sample Analytical Results
Table 3	Validated Subsurface Soil Sample Analytical Results
Table 4	Validated Groundwater Sample Analytical Results
Table 5	Validated Field QC Sample Analytical Results

ATTACHMENTS

Attachment A	Validated Form 1's
Attachment B	Support Documentation

I. INTRODUCTION

This Data Usability Summary Report (DUSR) has been prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *Draft DER-10, Technical Guidance for Site Investigation and Remediation, Appendix 2B - Guidance for the Development of Data Usability Summary Reports*, December 2002. Analytical data for four surface soil samples, three subsurface soil samples, 11 groundwater samples, one equipment rinsate blank, and two trip blanks collected by URS personnel on July 22-24, 2008 in support of the Macedon Films Site Supplemental Investigation are discussed in this DUSR.

II. ANALYTICAL METHODOLOGIES AND DATA VALIDATION

All samples were analyzed by Columbia Analytical Services (CAS) of Rochester, New York. The surface soil samples and equipment rinsate blank were analyzed for target compound list (TCL) semivolatile organic compounds (SVOCs) following USEPA Method 8270C, TCL polychlorinated biphenyls (PCBs) following USEPA Method 8082, and the Resource Conservation and Recovery Act (RCRA) metals following USEPA Methods 6010B/7470A/7471A. The subsurface soil and groundwater samples were analyzed for TCL volatile organic compounds (VOCs) following USEPA Method 8260B, TCL SVOCs following USEPA Method 8270C, and RCRA metals following USEPA Methods 6010B/7470A/7471A. The trip blanks were analyzed for TCL VOCs only following USEPA Method 8260B. All VOC and SVOC analyses included library searches of any tentatively identified compounds (TICs) detected in the samples.

A limited data validation was performed on the samples following the guidelines in the following USEPA Region II documents:

- *Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B, SOP HW-24, Rev. 2, October 2006;*

- *Validating Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8270D, SOP HW-22, Rev. 3, October 2006;*
- *Validating PCB Compounds by Gas Chromatography SW-846 Method 8082A, SOP HW-45, Rev. 1, October 2006; and*
- *Validation of Metals for the Contract Laboratory Program (CLP) Based on SOW ILMO5.3, SOP HW-2, Rev. 13, September 2006.*

The limited validation included a review of holding times; completeness of all required deliverables; quality control (QC) results (blanks, instrument tunes, calibration standards, matrix spike recoveries, duplicate analyses, and laboratory control sample recoveries) to determine if the data are within the protocol-required QC limits and specifications; a determination that all samples were analyzed using established and agreed upon analytical protocols; an evaluation of the raw data to confirm the results provided in the data summary sheets; and a review of laboratory data qualifiers.

Qualifications applied to the data include 'R' (rejected, data are unusable) 'U' (not detected), 'J' (estimated concentration), and 'UJ' (estimated quantitation limit). A summary of qualifications made to the data is presented in Table 1. The validated analytical results are presented in Tables 2 through 5. Copies of the validated laboratory results (i.e., Form 1's) are presented in Attachment A. Documentation supporting the qualification of data is presented in Attachment B. Only problems affecting data usability are discussed in this report.

III. DATA DELIVERABLE COMPLETENESS

Full deliverable data packages (i.e., NYSDEC ASP Category B or equivalent) were provided by the laboratory, and included all reporting forms and raw data necessary to fully evaluate and verify the reported analytical results.

IV. HOLDING TIMES/SAMPLE RECEIPT

All samples were received by the laboratory intact and under proper chain-of-custody, and were analyzed within the required holding times. In addition to the samples identified in Section I (Introduction), one additional subsurface soil sample (MMW-10 8.5'-9') was collected for VOC analysis. This analysis was later canceled by URS upon laboratory receipt of the samples.

V. NON-CONFORMANCES

Instrument Calibration

The percent difference (%D) between the initial calibration (ICAL) average relative response factor (RRF) and the RRF in the continuing calibration (CCAL) standard associated with groundwater sample MMW-09 was greater than 20% for the following VOCs: bromomethane, dichlorodifluoromethane, trichlorofluoromethane, methyl acetate, 1,1,1-trichloroethane, carbon tetrachloride, 1,2-dichloroethane, and tetrachloroethene. The non-detect results for these compounds in groundwater sample MMW-09 were qualified 'UJ', and the detected results qualified 'J'.

The %D between the ICAL average RRF and the RRF in the CCAL standard associated with surface soil sample SS-4 and subsurface soil sample MMW-8 8'-12' was greater than 20% for SVOCs 2,4-dinitrophenol and hexachlorocyclopentadiene. The non-detect results for these compounds in samples SS-4 and MMW-8 8'-12' were qualified 'UJ'.

The %D between the ICAL average RRF and the RRF in the CCAL standard associated with equipment rinsate blank RB20080722 was greater than 20% for SVOC benzaldehyde. The non-detect result for benzaldehyde in this sample was qualified 'UJ'.

The recovery of selenium in the metals contract required detection limit (CRDL) standard associated with the following surface and subsurface soil samples exceeded the upper QC

limit of 130%: SS-1, SS-3, SS-4, MMW-8 8'-12', and MMW-10 4'-5.4'. The detected results for selenium in these samples were qualified 'J'.

Documentation supporting the qualification of data (Forms 5 and 7 for VOCs and SVOCs; Forms 2B and 14 for metals) is presented in Attachment B.

Serial Dilutions (Metals Only)

The %D for lead in the metals serial dilution analysis of surface soil sample SS-3 exceeded the QC limit of 10%. Since the laboratory did not perform a serial dilution analysis on any of the subsurface soil samples, the serial dilution of sample SS-3 was used to evaluate all surface and subsurface soil sample results. The detected results for lead were qualified 'J' in all surface and subsurface soil samples. Documentation supporting the qualification of data (Form 9) is presented in Attachment B.

Blank Contamination

Acetone was detected in subsurface soil sample MMW-9 4'-8', and groundwater samples MMW-01, MMW-02, MMW-03, MMW-05, MMW-06, MMW-07, and MMW-08, at concentrations below the quantitation limit (QL). Acetone was also detected in the VOC method blanks associated with the analyses of these samples at concentrations below the QL. The results for acetone in these samples were raised to the QL and qualified 'U'.

The results for one SVOC TIC in surface and subsurface soil samples SS-1, SS-2, SS-3, MMW-8 8'-12', MMW-9 4'-8', and MMW-10 4'-5.4' were qualified 'R' because the TIC was also present in the associated SVOC method blank.

Arsenic was detected in groundwater sample MMW-09 at a concentration below the CRDL. Arsenic was also detected in the metals calibration blank associated with the analysis of this sample at a concentration below the CRDL. The result for arsenic in sample MMW-09 was raised to the CRDL and qualified 'U'.

Documentation supporting the qualification of data (i.e., method blank Forms 1 and 4 for VOCs and SVOCs; Forms 3 and 14 for metals) is presented in Attachment B.

VI. SAMPLE RESULTS AND REPORTING

All sample results were reported in accordance with method requirements and were adjusted for sample size, dilution factors, and moisture content (soil samples only). The SVOC analysis of surface soil sample SS-4 was diluted by a factor of 10 prior to analysis due to the viscous (almost solid) nature of the sample extract. The QLs for the non-detect compounds in this sample are the lowest achievable at the diluted level.

Sample concentrations of VOCs and SVOCs greater than the method detection limit (MDL) but below the QL were qualified 'J' by the laboratory. Sample concentrations of metals greater than the MDL but below the CRDL were qualified 'B' by the laboratory, which is the qualifier historically used when performing metals analyses following USEPA protocols. However, USEPA has replaced the 'B' qualifier with 'J' in the most current methodology. Therefore, all laboratory 'B' qualifiers applied to the metals results were changed to 'J' during validation.

VII. SUMMARY

All sample analyses were found to be compliant with the method criteria, except where previously noted. Those results qualified 'R' (rejected) are unusable. Those results qualified 'J' (estimated) or 'UJ' (estimated quantitation limit) are considered conditionally usable. Results qualified 'U' are considered non-detect. URS does not recommend the re-collection of any samples at this time.

Prepared By: James J. Lehnen, Senior Chemist

Date: 9/17/08

Reviewed By: George Kisluk, Senior Chemist

Date: 9/18/08

DEFINITIONS OF USEPA REGION II DATA QUALIFIERS

- U – The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J – The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ – The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R – The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
- D – The sample results are reported from a separate secondary dilution analysis.
- NJ – The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

TABLE 1
SUMMARY OF DATA QUALIFICATIONS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION

Affected Samples	Fraction	Analytical Deviation	Qualification
Groundwater sample MMW-09	VOA	%D between the ICAL average RRF and the CCAL RRF >20% for bromomethane, dichlorodifluoromethane, trichlorofluoromethane, methyl acetate, 1,1,1-trichloroethane, carbon tetrachloride, 1,2-dichloroethane, and tetrachloroethene.	Qualify non-detect results 'UJ' and detected results 'J'.
Sub-surface soil sample MMW-9 4'-8' and groundwater samples MMW-01, MMW-02, MMW-03, MMW-05, MMW-06, MMW-07, and MMW-08	VOA	Acetone detected in samples and associated method blank at concentrations below the QL.	Raise the reported result to the QL and qualify 'U'.
Surface soil sample SS-4 and sub-surface soil sample MMW-8 8'-12'	SVOA	%D between the ICAL average RRF and the CCAL RRF >20% for 2,4-dinitrophenol and hexachlorocyclopentadiene.	Qualify non-detect results 'UJ'.
Equipment rinsate blank RB20080722	SVOA	%D between the ICAL average RRF and the CCAL RRF >20% for benzaldehyde.	Qualify non-detect result 'UJ'.
Surface soil samples SS-1, SS-2, and SS-3; sub-surface soil samples MMW-8 8'-12', MMW-9 4'-8', and MMW-10 4'-5.4'	SVOA	TIC present in samples and associated method blank.	Qualify associated TIC results 'R'.
Surface soil samples SS-1, SS-3, and SS-4; sub-surface soil samples MMW-8 8'-12' and MMW-10 4'-5.4'	Metals	Recovery of selenium in the CRDL standard exceeded the upper QC limit of 130%.	Qualify detected results 'J'.
All surface and sub-surface soil samples	Metals	Serial dilution %D for lead exceeded the QC limit of 10%.	Qualify detected results 'J'.
Groundwater sample MMW-09	Metals	Arsenic detected in sample and associated calibration blank at a concentration below the CRDL.	Raise the reported result to the CRDL and qualify 'U'.

TABLE 1
SUMMARY OF DETECTED ANALYTES IN SURFACE SOIL
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID				SS-01	SS-02	SS-03	SS-04
Sample ID				SS-1(07/22/2008)	SS-2(07/22/2008)	SS-3(07/22/2008)	SS-4(07/22/2008)
Matrix				Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2
Date Sampled				07/22/08	07/22/08	07/22/08	07/22/08
Parameter	Units	Criteria (1)	Criteria (2)				
Semivolatile Organic Compounds							
Acenaphthene	UG/KG	1.00E+06	20000	63 J	89 J		
Anthracene	UG/KG	1.00E+06	100000	160 J	270 J		
Benzo(a)anthracene	UG/KG	11000	1000	410 J	620	140 J	
Benzo(a)pyrene	UG/KG	1100	1000	390 J	520	160 J	
Benzo(b)fluoranthene	UG/KG	11000	1000	350 J	500	140 J	
Benzo(g,h,i)perylene	UG/KG	1.00E+06	100000	280 J	320 J	120 J	
Benzo(k)fluoranthene	UG/KG	1.10E+05	800	370 J	430 J	130 J	
bis(2-Ethylhexyl)phthalate	UG/KG	-	-	160 J	200 J	220 J	590 J
Carbazole	UG/KG	-	-	68 J	130 J		
Chrysene	UG/KG	1.10E+05	1000	420 J	590	170 J	
Dibenz(a,h)anthracene	UG/KG	1100	330	54 J	83 J		
Di-n-butylphthalate	UG/KG	-	-	51 J	55 J	88 J	
Fluoranthene	UG/KG	1.00E+06	100000	890	1,500	320 J	
Fluorene	UG/KG	1.00E+06	30000	52 J	86 J		
Indeno(1,2,3-cd)pyrene	UG/KG	11000	500	250 J	310 J	100 J	
Phenanthrene	UG/KG	1.00E+06	100000	550	980	140 J	
Pyrene	UG/KG	1.00E+06	100000	710	1,000	240 J	
Polychlorinated Biphenyls							
Aroclor 1260	UG/KG	-	-				99
Total Polychlorinated Biphenyls	UG/KG	25000	100	ND	ND	ND	99

Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06 Protection of Public Health, Industrial

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06 Unrestricted Use

Flags assigned during chemistry validation are shown



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

J - The reported concentration is an estimated value

ND - Not detected (used for total analyte group concentrations only)

Only Detected Results Reported

TABLE 1
SUMMARY OF DETECTED ANALYTES IN SURFACE SOIL
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID				SS-01	SS-02	SS-03	SS-04
Sample ID				SS-1(07/22/2008)	SS-2(07/22/2008)	SS-3(07/22/2008)	SS-4(07/22/2008)
Matrix				Soil	Soil	Soil	Soil
Depth Interval (ft)				0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2
Date Sampled				07/22/08	07/22/08	07/22/08	07/22/08
Parameter	Units	Criteria (1)	Criteria (2)				
Metals							
Arsenic	MG/KG	16 ✓	13 ✓	4.2	2.9	5.0	5.5
Barium	MG/KG	10000 ✓	350 ✓	65.7	54.5	72.2	81.1
Cadmium	MG/KG	60 ✓	2.5 ✓	0.42 J	0.47 J	0.55 J	127
Chromium	MG/KG	6800 ✓	30 ✓	14.8	13.0	15.4	23.8
Lead	MG/KG	3900 ✓	63 ✓	52.1 J	52.2 J	53.6 J	121 J
Mercury	MG/KG	5.7 ✓	0.18 ✓	0.09	0.09	0.07	0.13
Selenium	MG/KG	6800 ✓	3.9 ✓	1.5 J	0.72 J	2.3 J	1.1 J
Miscellaneous Parameters							
Solids, Percent	PERCENT	-	-	76.3	74.4	76.1	91.2

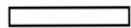
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Unrestricted Use

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

The reported concentration is an estimated value.

J - Not detected (used for total analyte group concentrations only).

Only Detected Results Reported.

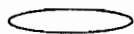
TABLE 2
SUMMARY OF DETECTED ANALYTES IN SUBSURFACE SOIL
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID				MMW-08	MMW-09	MMW-10
Sample ID				MMW-8 8'-12'	MMW-9 4'-8'	MMW-10 4'-5.4'
Matrix				Soil	Soil	Soil
Depth Interval (ft)				8.0-12.0	4.0-8.0	4.0-5.4
Date Sampled				07/22/08	07/22/08	07/22/08
Parameter	Units	Criteria (1)	Criteria (2)			
Volatile Organic Compounds						
Benzene	UG/KG	89000 ✓	60 ✓			2.4 J
Toluene	UG/KG	1.00E+06 ✓	700 ✓			2.1 J
Semivolatile Organic Compounds						
2-Methylnaphthalene	UG/KG	-	-			110 J
Acenaphthene	UG/KG	1.00E+06 ✓	20000 ✓			54 J
Acenaphthylene	UG/KG	1.00E+06 ✓	100000 ✓			130 J
Anthracene	UG/KG	1.00E+06 ✓	100000 ✓			390 J
Benzo(a)anthracene	UG/KG	11000 ✓	1000 ✓			880
Benzo(a)pyrene	UG/KG	1100 ✓	1000 ✓			670
Benzo(b)fluoranthene	UG/KG	11000 ✓	1000 ✓			580
Benzo(g,h,i)perylene	UG/KG	1.00E+06 ✓	100000 ✓			330 J
Benzo(k)fluoranthene	UG/KG	1.10E+05 ✓	800 ✓			520
bis(2-Ethylhexyl)phthalate	UG/KG	-	-			450
Chrysene	UG/KG	1.10E+05 ✓	1000 ✓			690
Dibenz(a,h)anthracene	UG/KG	1100 ✓	330 ✓			92 J
Dibenzofuran	UG/KG	1.00E+06 ✓	7000 ✓			100 J
Di-n-butylphthalate	UG/KG	-	-			130 J
Fluoranthene	UG/KG	1.00E+06 ✓	100000 ✓			1,600
Fluorene	UG/KG	1.00E+06 ✓	30000 ✓			130 J
Indeno(1,2,3-cd)pyrene	UG/KG	11000 ✓	500 ✓			340 J

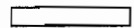
Criteria (1) - 6 NYCRR Part 375.6 Remedial Program Soil Cleanup Objectives, Effective 12/14/06 Protection of Public Health, Industrial.

Criteria (2) - 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06 Unrestricted Use

Flags assigned during chemistry validation are shown



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

J - The reported concentration is an estimated value

Only Detected Results Reported

TABLE 2
SUMMARY OF DETECTED ANALYTES IN SUBSURFACE SOIL
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID				MMW-08	MMW-09	MMW-10
Sample ID				MMW-8 8'-12'	MMW-9 4'-8'	MMW-10 4'-5.4'
Matrix				Soil	Soil	Soil
Depth Interval (ft)				8.0-12.0	4.0-8.0	4.0-5.4
Date Sampled				07/22/08	07/22/08	07/22/08
Parameter	Units	Criteria (1)	Criteria (2)			
Semivolatile Organic Compounds						
Naphthalene	UG/KG	1.00E+06	12000			330 J
Phenanthrene	UG/KG	1.00E+06	100000			910
Pyrene	UG/KG	1.00E+06	100000			1,200
Metals						
Arsenic	MG/KG	16	13		1.3	0.29 J
Barium	MG/KG	10000	350	9.6	19.0	50.4
Chromium	MG/KG	6800	30	5.3	11.8	8.2
Lead	MG/KG	3900	63	3.5 J	8.1 J	6.6 J
Mercury	MG/KG	5.7	0.18	0.01 J	0.02 J	0.03 J
Selenium	MG/KG	6800	3.9	1.2 J		1.3 J
Miscellaneous Parameters						
Solids, Percent	PERCENT	-	-	85.2	82.2	79.4

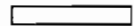
Criteria (1)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06, Protection of Public Health, Industrial

Criteria (2)- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06, Unrestricted Use

Flags assigned during chemistry validation are shown



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

The reported concentration is an estimated value

Only Detected Results Reported

TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID		SS-01	SS-02	SS-03	SS-04
Sample ID		SS-1(07/22/2008)	SS-2(07/22/2008)	SS-3(07/22/2008)	SS-4(07/22/2008)
Matrix		Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2
Date Sampled		07/22/08	07/22/08	07/22/08	07/22/08
Parameter	Units				
Semivolatile Organic Compounds					
1,1-Biphenyl	UG/KG	430 U	440 U	430 U	3,600 U
2,2-oxybis(1-Chloropropane)	UG/KG	430 U	440 U	430 U	3,600 U
2,4,5-Trichlorophenol	UG/KG	430 U	440 U	430 U	3,600 U
2,4,6-Trichlorophenol	UG/KG	430 U	440 U	430 U	3,600 U
2,4-Dichlorophenol	UG/KG	430 U	440 U	430 U	3,600 U
2,4-Dimethylphenol	UG/KG	430 U	440 U	430 U	3,600 U
2,4-Dinitrophenol	UG/KG	2,200 U	2,300 U	2,200 U	19,000 UJ
2,4-Dinitrotoluene	UG/KG	430 U	440 U	430 U	3,600 U
2,6-Dinitrotoluene	UG/KG	430 U	440 U	430 U	3,600 U
2-Chloronaphthalene	UG/KG	430 U	440 U	430 U	3,600 U
2-Chlorophenol	UG/KG	430 U	440 U	430 U	3,600 U
2-Methylnaphthalene	UG/KG	430 U	440 U	430 U	3,600 U
2-Methylphenol (o-cresol)	UG/KG	430 U	440 U	430 U	3,600 U
2-Nitroaniline	UG/KG	2,200 U	2,300 U	2,200 U	19,000 U
2-Nitrophenol	UG/KG	430 U	440 U	430 U	3,600 U
3,3-Dichlorobenzidine	UG/KG	430 U	440 U	430 U	3,600 U
3-Nitroaniline	UG/KG	2,200 U	2,300 U	2,200 U	19,000 U
4,6-Dinitro-2-methylphenol	UG/KG	2,200 U	2,300 U	2,200 U	19,000 U
4-Bromophenyl-phenylether	UG/KG	430 U	440 U	430 U	3,600 U
4-Chloro-3-methylphenol	UG/KG	430 U	440 U	430 U	3,600 U
4-Chloroaniline	UG/KG	430 U	440 U	430 U	3,600 U
4-Chlorophenyl-phenylether	UG/KG	430 U	440 U	430 U	3,600 U
4-Methylphenol (p-cresol)	UG/KG	430 U	440 U	430 U	3,600 U

Flags assigned during chemistry validation are shown

U - Not detected above the reported quantitation limit. J - The reported concentration is an estimated value

UJ - Not detected. The reported quantitation limit is an estimated value. ND - Not detected (used for total analyte group concentrations only)

MG/KG - Milligrams per kilogram UG/KG - Micrograms per kilogram

Made By: JJL 9/12/2008 Checked By: GEK 9/15/2008

Detection Limits shown are PQL

TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID		SS-01	SS-02	SS-03	SS-04
Sample ID		SS-1(07/22/2008)	SS-2(07/22/2008)	SS-3(07/22/2008)	SS-4(07/22/2008)
Matrix		Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2
Date Sampled		07/22/08	07/22/08	07/22/08	07/22/08
Parameter	Units				
Semivolatile Organic Compounds					
4-Nitroaniline	UG/KG	2,200 U	2,300 U	2,200 U	19,000 U
4-Nitrophenol	UG/KG	2,200 U	2,300 U	2,200 U	19,000 U
Acenaphthene	UG/KG	63 J	89 J	430 U	3,600 U
Acenaphthylene	UG/KG	430 U	440 U	430 U	3,600 U
Acetophenone	UG/KG	430 U	440 U	430 U	3,600 U
Anthracene	UG/KG	160 J	270 J	430 U	3,600 U
Atrazine	UG/KG	430 U	440 U	430 U	3,600 U
Benzaldehyde	UG/KG	430 U	440 U	430 U	3,600 U
Benzo(a)anthracene	UG/KG	410 J	620	140 J	3,600 U
Benzo(a)pyrene	UG/KG	390 J	520	160 J	3,600 U
Benzo(b)fluoranthene	UG/KG	350 J	500	140 J	3,600 U
Benzo(g,h,i)perylene	UG/KG	280 J	320 J	120 J	3,600 U
Benzo(k)fluoranthene	UG/KG	370 J	430 J	130 J	3,600 U
bis(2-Chloroethoxy)methane	UG/KG	430 U	440 U	430 U	3,600 U
bis(2-Chloroethyl)ether	UG/KG	430 U	440 U	430 U	3,600 U
bis(2-Ethylhexyl)phthalate	UG/KG	160 J	200 J	220 J	590 J
Butylbenzylphthalate	UG/KG	430 U	440 U	430 U	3,600 U
Caprolactam	UG/KG	430 U	440 U	430 U	3,600 U
Carbazole	UG/KG	68 J	130 J	430 U	3,600 U
Chrysene	UG/KG	420 J	590	170 J	3,600 U
Dibenz(a,h)anthracene	UG/KG	54 J	83 J	430 U	3,600 U
Dibenzofuran	UG/KG	430 U	440 U	430 U	3,600 U
Diethylphthalate	UG/KG	430 U	440 U	430 U	3,600 U

Flags assigned during chemistry validation are shown.

- Not detected above the reported quantitation limit. J - The reported concentration is an estimated value

U - Not detected. The reported quantitation limit is an estimated value. ND - Not detected (used for total analyte group concentrations only)

MG/KG - Milligrams per kilogram UG/KG - Micrograms per kilogram

Made By: JJL 9/12/2008 Checked By: GEK 9/15/2008

Detection Limits shown are PQL

TABLE 2
VALIDATED SURFACE SOIL SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID		SS-01	SS-02	SS-03	SS-04
Sample ID		SS-1(07/22/2008)	SS-2(07/22/2008)	SS-3(07/22/2008)	SS-4(07/22/2008)
Matrix		Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2
Date Sampled		07/22/08	07/22/08	07/22/08	07/22/08
Parameter	Units				
Polychlorinated Biphenyls					
Aroclor 1232	UG/KG	43 U	44 U	43 U	36 U
Aroclor 1242	UG/KG	43 U	44 U	43 U	36 U
Aroclor 1248	UG/KG	43 U	44 U	43 U	36 U
Aroclor 1254	UG/KG	43 U	44 U	43 U	36 U
Aroclor 1260	UG/KG	43 U	44 U	43 U	99
Total Polychlorinated Biphenyls	UG/KG	ND	ND	ND	99
Metals					
Arsenic	MG/KG	4.2	2.9	5.0	5.5
Barium	MG/KG	65.7	54.5	72.2	81.1
Cadmium	MG/KG	0.42 J	0.47 J	0.55 J	127
Chromium	MG/KG	14.8	13.0	15.4	23.8
Lead	MG/KG	52.1 J	52.2 J	53.6 J	121 J
Mercury	MG/KG	0.09	0.09	0.07	0.13
Selenium	MG/KG	1.5 J	0.72 J	2.3 J	1.1 J
Silver	MG/KG	0.09 U	0.10 U	0.09 U	0.08 U
Miscellaneous Parameters					
Solids, Percent	PERCENT	76.3	74.4	76.1	91.2

Flags assigned during chemistry validation are shown.

- Not detected above the reported quantitation limit. J - The reported concentration is an estimated value

J - Not detected. The reported quantitation limit is an estimated value. ND - Not detected (used for total analyte group concentrations only)

MG/KG - Milligrams per kilogram UG/KG - Micrograms per kilogram.

Made By: JJL 9/12/2008 Checked By: GEK 9/15/2008

Detection Limits shown are PQL

TABLE 3
VALIDATED SUBSURFACE SOIL SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID		MMW-08	MMW-09	MMW-10
Sample ID		MMW-8 8'-12'	MMW-9 4'-8'	MMW-10 4'-5.4'
Matrix		Soil	Soil	Soil
Depth Interval (ft)		8.0-12.0	4.0-8.0	4.0-5.4
Date Sampled		07/22/08	07/22/08	07/22/08
Parameter	Units			
Volatile Organic Compounds				
1,1,1-Trichloroethane	UG/KG	5.9 U	6.1 U	6.3 U
1,1,2,2-Tetrachloroethane	UG/KG	5.9 U	6.1 U	6.3 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/KG	5.9 U	6.1 U	6.3 U
1,1,2-Trichloroethane	UG/KG	5.9 U	6.1 U	6.3 U
1,1-Dichloroethane	UG/KG	5.9 U	6.1 U	6.3 U
1,1-Dichloroethene	UG/KG	5.9 U	6.1 U	6.3 U
1,2,4-Trichlorobenzene	UG/KG	5.9 U	6.1 U	6.3 U
1,2-Dibromo-3-chloropropane	UG/KG	5.9 U	6.1 U	6.3 U
1,2-Dibromoethane (Ethylene dibromide)	UG/KG	5.9 U	6.1 U	6.3 U
1,2-Dichlorobenzene	UG/KG	5.9 U	6.1 U	6.3 U
1,2-Dichloroethane	UG/KG	5.9 U	6.1 U	6.3 U
1,2-Dichloroethene (cis)	UG/KG	5.9 U	6.1 U	6.3 U
1,2-Dichloroethene (trans)	UG/KG	5.9 U	6.1 U	6.3 U
1,2-Dichloropropane	UG/KG	5.9 U	6.1 U	6.3 U
1,3-Dichlorobenzene	UG/KG	5.9 U	6.1 U	6.3 U
1,3-Dichloropropene (cis)	UG/KG	5.9 U	6.1 U	6.3 U
1,3-Dichloropropene (trans)	UG/KG	5.9 U	6.1 U	6.3 U
1,4-Dichlorobenzene	UG/KG	5.9 U	6.1 U	6.3 U
2-Hexanone	UG/KG	12 U	12 U	13 U
4-Methyl-2-pentanone	UG/KG	12 U	12 U	13 U
Acetone	UG/KG	23 U	24 U	25 U
Benzene	UG/KG	5.9 U	6.1 U	2.4 J
Bromodichloromethane	UG/KG	5.9 U	6.1 U	6.3 U

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit J - The reported concentration is an estimated value

UJ - Not detected. The reported quantitation limit is an estimated value ND - Not detected (used for total analyte group concentrations only)

MG/KG - Milligrams per kilogram. UG/KG - Micrograms per kilogram.

Made By: JJJ 9/12/2008 Checked By: GEK 9/15/2008

Detection Limits shown are PQL

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[LOGDATE] >= #7/22/2008# AND [MATRIX] = 'SO' AND [FLOSAPIO] NOT LIKE 'SS' AND [SACODE] = 'N'

TABLE 3
VALIDATED SUBSURFACE SOIL SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID		MMW-08	MMW-09	MMW-10
Sample ID		MMW-8 8'-12'	MMW-9 4'-8'	MMW-10 4'-5.4'
Matrix		Soil	Soil	Soil
Depth Interval (ft)		8.0-12.0	4.0-8.0	4.0-5.4
Date Sampled		07/22/08	07/22/08	07/22/08
Parameter	Units			
Volatile Organic Compounds				
Bromoform	UG/KG	5.9 U	6.1 U	6.3 U
Bromomethane	UG/KG	5.9 U	6.1 U	6.3 U
Carbon disulfide	UG/KG	12 U	12 U	13 U
Carbon tetrachloride	UG/KG	5.9 U	6.1 U	6.3 U
Chlorobenzene	UG/KG	5.9 U	6.1 U	6.3 U
Chloroethane	UG/KG	12 U	12 U	13 U
Chloroform	UG/KG	5.9 U	6.1 U	6.3 U
Chloromethane	UG/KG	5.9 U	6.1 U	6.3 U
Cyclohexane	UG/KG	5.9 U	6.1 U	6.3 U
1,1-Dibromochloromethane	UG/KG	5.9 U	6.1 U	6.3 U
Dichlorodifluoromethane	UG/KG	5.9 U	6.1 U	6.3 U
Ethylbenzene	UG/KG	5.9 U	6.1 U	6.3 U
Isopropylbenzene (Cumene)	UG/KG	5.9 U	6.1 U	6.3 U
Methyl acetate	UG/KG	12 U	12 U	13 U
Methyl ethyl ketone (2-Butanone)	UG/KG	12 U	12 U	13 U
Methyl tert-butyl ether	UG/KG	5.9 U	6.1 U	6.3 U
Methylcyclohexane	UG/KG	5.9 U	6.1 U	6.3 U
Methylene chloride	UG/KG	5.9 U	6.1 U	6.3 U
Styrene	UG/KG	5.9 U	6.1 U	6.3 U
Tetrachloroethene	UG/KG	5.9 U	6.1 U	6.3 U
Toluene	UG/KG	5.9 U	6.1 U	2.1 J
Trichloroethene	UG/KG	5.9 U	6.1 U	6.3 U
Trichlorofluoromethane	UG/KG	5.9 U	6.1 U	6.3 U

Flags assigned during chemistry validation are shown.

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 U - Not detected The reported quantitation limit is an estimated value ND - Not detected (used for total analyte group concentrations only)
 MG/KG - Milligrams per kilogram. UG/KG - Micrograms per kilogram
 Made By JJL 9/12/2008 Checked By. GEK 9/15/2008

Detection Limits shown are PQL

TABLE 3
VALIDATED SUBSURFACE SOIL SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID		MMW-08	MMW-09	MMW-10
Sample ID		MMW-8 8'-12'	MMW-9 4'-8'	MMW-10 4'-5.4'
Matrix		Soil	Soil	Soil
Depth Interval (ft)		8.0-12.0	4.0-8.0	4.0-5.4
Date Sampled		07/22/08	07/22/08	07/22/08
Parameter	Units			
Volatile Organic Compounds				
Vinyl chloride	UG/KG	5.9 U	6.1 U	6.3 U
Xylene (total)	UG/KG	5.9 U	6.1 U	6.3 U
Total Volatile Organic Compounds	UG/KG	ND	ND	4.5
Semivolatile Organic Compounds				
1,1-Biphenyl	UG/KG	390 U	400 U	420 U
2,2-oxybis(1-Chloropropane)	UG/KG	390 U	400 U	420 U
2,4,5-Trichlorophenol	UG/KG	390 U	400 U	420 U
2,4,6-Trichlorophenol	UG/KG	390 U	400 U	420 U
2,4-Dichlorophenol	UG/KG	390 U	400 U	420 U
2,4-Dimethylphenol	UG/KG	390 U	400 U	420 U
2,4-Dinitrophenol	UG/KG	2,000 UJ	2,100 U	2,100 U
2,4-Dinitrotoluene	UG/KG	390 U	400 U	420 U
2,6-Dinitrotoluene	UG/KG	390 U	400 U	420 U
2-Chloronaphthalene	UG/KG	390 U	400 U	420 U
2-Chlorophenol	UG/KG	390 U	400 U	420 U
2-Methylnaphthalene	UG/KG	390 U	400 U	110 J
2-Methylphenol (o-cresol)	UG/KG	390 U	400 U	420 U
2-Nitroaniline	UG/KG	2,000 U	2,100 U	2,100 U
2-Nitrophenol	UG/KG	390 U	400 U	420 U
3,3-Dichlorobenzidine	UG/KG	390 U	400 U	420 U
3-Nitroaniline	UG/KG	2,000 U	2,100 U	2,100 U
4,6-Dinitro-2-methylphenol	UG/KG	2,000 U	2,100 U	2,100 U
4-Bromophenyl-phenylether	UG/KG	390 U	400 U	420 U

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit J - The reported concentration is an estimated value

UJ - Not detected The reported quantitation limit is an estimated value. ND - Not detected (used for total analyte group concentrations only)

MG/KG - Milligrams per kilogram. UG/KG - Micrograms per kilogram.

Made By: JJJ 9/12/2008 Checked By: GEK 9/15/2008

Detection Limits shown are PQL

TABLE 3
VALIDATED SUBSURFACE SOIL SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID		MMW-08	MMW-09	MMW-10
Sample ID		MMW-8 8'-12'	MMW-9 4'-8'	MMW-10 4'-5.4'
Matrix		Soil	Soil	Soil
Depth Interval (ft)		8.0-12.0	4.0-8.0	4.0-5.4
Date Sampled		07/22/08	07/22/08	07/22/08
Parameter	Units			
Semivolatile Organic Compounds				
4-Chloro-3-methylphenol	UG/KG	390 U	400 U	420 U
4-Chloroaniline	UG/KG	390 U	400 U	420 U
4-Chlorophenyl-phenylether	UG/KG	390 U	400 U	420 U
4-Methylphenol (p-cresol)	UG/KG	390 U	400 U	420 U
4-Nitroaniline	UG/KG	2,000 U	2,100 U	2,100 U
4-Nitrophenol	UG/KG	2,000 U	2,100 U	2,100 U
Acenaphthene	UG/KG	390 U	400 U	54 J
Acenaphthylene	UG/KG	390 U	400 U	130 J
Acetophenone	UG/KG	390 U	400 U	420 U
Anthracene	UG/KG	390 U	400 U	390 J
Atrazine	UG/KG	390 U	400 U	420 U
Benzaldehyde	UG/KG	390 U	400 U	420 U
Benzo(a)anthracene	UG/KG	390 U	400 U	880
Benzo(a)pyrene	UG/KG	390 U	400 U	670
Benzo(b)fluoranthene	UG/KG	390 U	400 U	580
Benzo(g,h,i)perylene	UG/KG	390 U	400 U	330 J
Benzo(k)fluoranthene	UG/KG	390 U	400 U	520
bis(2-Chloroethoxy)methane	UG/KG	390 U	400 U	420 U
bis(2-Chloroethyl)ether	UG/KG	390 U	400 U	420 U
bis(2-Ethylhexyl)phthalate	UG/KG	390 U	400 U	450
Butylbenzylphthalate	UG/KG	390 U	400 U	420 U
Caprolactam	UG/KG	390 U	400 U	420 U
Carbazole	UG/KG	390 U	400 U	420 U

Flags assigned during chemistry validation are shown

- Not detected above the reported quantitation limit J - The reported concentration is an estimated value.

J - Not detected The reported quantitation limit is an estimated value ND - Not detected (used for total analyte group concentrations only)

MG/KG - Milligrams per kilogram. UG/KG - Micrograms per kilogram.

Made By: JJL 9/12/2008 Checked By: GEK 9/15/2008

Detection Limits shown are PQL

TABLE 3
VALIDATED SUBSURFACE SOIL SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID		MMW-08	MMW-09	MMW-10
Sample ID		MMW-8 8'-12'	MMW-9 4'-8'	MMW-10 4'-5.4'
Matrix		Soil	Soil	Soil
Depth Interval (ft)		8.0-12.0	4.0-8.0	4.0-5.4
Date Sampled		07/22/08	07/22/08	07/22/08
Parameter	Units			
Semivolatile Organic Compounds				
Chrysene	UG/KG	390 U	400 U	690
Dibenz(a,h)anthracene	UG/KG	390 U	400 U	92 J
Dibenzofuran	UG/KG	390 U	400 U	100 J
Diethylphthalate	UG/KG	390 U	400 U	420 U
Dimethylphthalate	UG/KG	390 U	400 U	420 U
Di-n-butylphthalate	UG/KG	390 U	400 U	130 J
Di-n-octylphthalate	UG/KG	390 U	400 U	420 U
Fluoranthene	UG/KG	390 U	400 U	1,600
Fluorene	UG/KG	390 U	400 U	130 J
Hexachlorobenzene	UG/KG	390 U	400 U	420 U
Hexachlorobutadiene	UG/KG	390 U	400 U	420 U
Hexachlorocyclopentadiene	UG/KG	390 UJ	400 U	420 U
Hexachloroethane	UG/KG	390 U	400 U	420 U
Indeno(1,2,3-cd)pyrene	UG/KG	390 U	400 U	340 J
Isophorone	UG/KG	390 U	400 U	420 U
Naphthalene	UG/KG	390 U	400 U	330 J
Nitrobenzene	UG/KG	390 U	400 U	420 U
N-Nitroso-di-n-propylamine	UG/KG	390 U	400 U	420 U
N-Nitrosodiphenylamine	UG/KG	390 U	400 U	420 U
Pentachlorophenol	UG/KG	2,000 U	2,100 U	2,100 U
Phenanthrene	UG/KG	390 U	400 U	910
Phenol	UG/KG	390 U	400 U	420 U
Pyrene	UG/KG	390 U	400 U	1,200

Flags assigned during chemistry validation are shown.

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UJ - Not detected The reported quantitation limit is an estimated value ND - Not detected (used for total analyte group concentrations only)

MG/KG - Milligrams per kilogram. UG/KG - Micrograms per kilogram.

Made By JJL 9/12/2008 Checked By GEK 9/15/2008

Detection Limits shown are PQL

TABLE 3
VALIDATED SUBSURFACE SOIL SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID		MMW-08	MMW-09	MMW-10
Sample ID		MMW-8 8'-12'	MMW-9 4'-8'	MMW-10 4'-5.4'
Matrix		Soil	Soil	Soil
Depth Interval (ft)		8.0-12.0	4.0-8.0	4.0-5.4
Date Sampled		07/22/08	07/22/08	07/22/08
Parameter	Units			
Semivolatile Organic Compounds				
Total Semivolatile Organic Compounds	UG/KG	ND	ND	9,636
Metals				
Arsenic	MG/KG	0.26 U	1.3	0.29 J
Barium	MG/KG	9.6	19.0	50.4
Cadmium	MG/KG	0.04 U	0.04 U	0.04 U
Chromium	MG/KG	5.3	11.8	8.2
Lead	MG/KG	3.5 J	8.1 J	6.6 J
Mercury	MG/KG	0.01 J	0.02 J	0.03 J
Selenium	MG/KG	1.2 J	0.50 U	1.3 J
Silver	MG/KG	0.08 U	0.09 U	0.09 U
Miscellaneous Parameters				
Solids, Percent	PERCENT	85.2	82.2	79.4

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 J - Not detected. The reported quantitation limit is an estimated value. ND - Not detected (used for total analyte group concentrations only)
 MG/KG - Milligrams per kilogram UG/KG - Micrograms per kilogram
 Made By: JLL 9/12/2008 Checked By: GEK 9/15/2008

Detection Limits shown are PQL

TABLE 4
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID		MMW-01	MMW-02	MMW-03	MMW-04	MMW-05
Sample ID		MMW-01(07/23/08)	MMW-02(07/23/08)	MMW-03(07/23/08)	MMW-04(07/23/08)	MMW-05(07/23/08)
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		07/23/08	07/23/08	07/23/08	07/23/08	07/23/08
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	10 U	10 U	10 U	10 U	10 U
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown

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UJ - Not detected. The reported quantitation limit is an estimated value

UG/L - Micrograms per liter.

Made By: JLL 9/12/2008 Checked By: GEK 9/15/2008

Detection Limits shown are PQL

TABLE 4
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID		MMW-01	MMW-02	MMW-03	MMW-04	MMW-05
Sample ID		MMW-01(07/23/08)	MMW-02(07/23/08)	MMW-03(07/23/08)	MMW-04(07/23/08)	MMW-05(07/23/08)
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		07/23/08	07/23/08	07/23/08	07/23/08	07/23/08
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Carbon disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	10 U	10 U	10 U	10 U	10 U
Methyl ethyl ketone (2-Butanone)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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UG/L - Micrograms per liter.

Made By: JJL 9/12/2008 Checked By: GEK 9/15/2008

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TABLE 4
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID		MMW-01	MMW-02	MMW-03	MMW-04	MMW-05
Sample ID		MMW-01(07/23/08)	MMW-02(07/23/08)	MMW-03(07/23/08)	MMW-04(07/23/08)	MMW-05(07/23/08)
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		07/23/08	07/23/08	07/23/08	07/23/08	07/23/08
Parameter	Units					
Volatile Organic Compounds						
Vinyl chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	11 U	11 U	12 U	10 U
2,2-oxybis(1-Chloropropane)	UG/L	10 U	11 U	11 U	12 U	10 U
2,4,5-Trichlorophenol	UG/L	10 U	11 U	11 U	12 U	10 U
2,4,6-Trichlorophenol	UG/L	10 U	11 U	11 U	12 U	10 U
2,4-Dichlorophenol	UG/L	10 U	11 U	11 U	12 U	10 U
2,4-Dimethylphenol	UG/L	10 U	11 U	11 U	12 U	10 U
2,4-Dinitrophenol	UG/L	51 U	56 U	54 U	58 U	50 U
2,4-Dinitrotoluene	UG/L	10 U	11 U	11 U	12 U	10 U
2,6-Dinitrotoluene	UG/L	10 U	11 U	11 U	12 U	10 U
2-Chloronaphthalene	UG/L	10 U	11 U	11 U	12 U	10 U
2-Chlorophenol	UG/L	10 U	11 U	11 U	12 U	10 U
2-Methylnaphthalene	UG/L	10 U	11 U	11 U	12 U	10 U
2-Methylphenol (o-cresol)	UG/L	10 U	11 U	11 U	12 U	10 U
2-Nitroaniline	UG/L	51 U	56 U	54 U	58 U	50 U
2-Nitrophenol	UG/L	10 U	11 U	11 U	12 U	10 U
3,3-Dichlorobenzidine	UG/L	10 U	11 U	11 U	12 U	10 U
3-Nitroaniline	UG/L	51 U	56 U	54 U	58 U	50 U
4,6-Dinitro-2-methylphenol	UG/L	51 U	56 U	54 U	58 U	50 U
4-Bromophenyl-phenylether	UG/L	10 U	11 U	11 U	12 U	10 U

Flags assigned during chemistry validation are shown.

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UJ - Not detected. The reported quantitation limit is an estimated value

UG/L - Micrograms per liter.

Made By: JJL 9/12/2008 Checked By: GEK 9/15/2008

Detection Limits shown are PQL

TABLE 4
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID		MMW-01	MMW-02	MMW-03	MMW-04	MMW-05
Sample ID		MMW-01(07/23/08)	MMW-02(07/23/08)	MMW-03(07/23/08)	MMW-04(07/23/08)	MMW-05(07/23/08)
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		07/23/08	07/23/08	07/23/08	07/23/08	07/23/08
Parameter	Units					
Semivolatile Organic Compounds						
4-Chloro-3-methylphenol	UG/L	10 U	11 U	11 U	12 U	10 U
4-Chloroaniline	UG/L	10 U	11 U	11 U	12 U	10 U
4-Chlorophenyl-phenylether	UG/L	10 U	11 U	11 U	12 U	10 U
4-Methylphenol (p-cresol)	UG/L	10 U	11 U	11 U	12 U	10 U
4-Nitroaniline	UG/L	51 U	56 U	54 U	58 U	50 U
4-Nitrophenol	UG/L	51 U	56 U	54 U	58 U	50 U
Acenaphthene	UG/L	10 U	11 U	11 U	12 U	10 U
Acenaphthylene	UG/L	10 U	11 U	11 U	12 U	10 U
Acetophenone	UG/L	10 U	11 U	11 U	12 U	10 U
Anthracene	UG/L	10 U	11 U	11 U	12 U	10 U
Atrazine	UG/L	10 U	11 U	11 U	12 U	10 U
Benzaldehyde	UG/L	10 U	11 U	11 U	12 U	10 U
Benzo(a)anthracene	UG/L	10 U	11 U	11 U	12 U	10 U
Benzo(a)pyrene	UG/L	10 U	11 U	11 U	12 U	10 U
Benzo(b)fluoranthene	UG/L	10 U	11 U	11 U	12 U	10 U
Benzo(g,h,i)perylene	UG/L	10 U	11 U	11 U	12 U	10 U
Benzo(k)fluoranthene	UG/L	10 U	11 U	11 U	12 U	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	11 U	11 U	12 U	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	11 U	11 U	12 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	11 U	11 U	12 U	10 U
Butylbenzylphthalate	UG/L	10 U	11 U	11 U	12 U	10 U
Caprolactam	UG/L	10 U	11 U	11 U	12 U	10 U
Carbazole	UG/L	10 U	11 U	11 U	12 U	10 U

Flags assigned during chemistry validation are shown

Not detected above the reported quantitation limit J - The reported concentration is an estimated value

U - Not detected. The reported quantitation limit is an estimated value

UG/L - Micrograms per liter.

Made By: JJJ 9/12/2008 Checked By: GEK 9/15/2008

Detection Limits shown are PQL

TABLE 4
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID		MMW-01	MMW-02	MMW-03	MMW-04	MMW-05
Sample ID		MMW-01(07/23/08)	MMW-02(07/23/08)	MMW-03(07/23/08)	MMW-04(07/23/08)	MMW-05(07/23/08)
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		07/23/08	07/23/08	07/23/08	07/23/08	07/23/08
Parameter	Units					
Semivolatile Organic Compounds						
Chrysene	UG/L	10 U	11 U	11 U	12 U	10 U
Dibenz(a,h)anthracene	UG/L	10 U	11 U	11 U	12 U	10 U
Dibenzofuran	UG/L	10 U	11 U	11 U	12 U	10 U
Diethylphthalate	UG/L	10 U	11 U	11 U	12 U	10 U
Dimethylphthalate	UG/L	10 U	11 U	11 U	12 U	10 U
Di-n-butylphthalate	UG/L	10 U	11 U	11 U	12 U	10 U
Di-n-octylphthalate	UG/L	10 U	11 U	11 U	12 U	10 U
Fluoranthene	UG/L	10 U	11 U	11 U	12 U	10 U
Fluorene	UG/L	10 U	11 U	11 U	12 U	10 U
Hexachlorobenzene	UG/L	10 U	11 U	11 U	12 U	10 U
Hexachlorobutadiene	UG/L	10 U	11 U	11 U	12 U	10 U
Hexachlorocyclopentadiene	UG/L	10 U	11 U	11 U	12 U	10 U
Hexachloroethane	UG/L	10 U	11 U	11 U	12 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	11 U	11 U	12 U	10 U
Isophorone	UG/L	10 U	11 U	11 U	12 U	10 U
Naphthalene	UG/L	10 U	11 U	11 U	12 U	10 U
Nitrobenzene	UG/L	10 U	11 U	11 U	12 U	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U	11 U	11 U	12 U	10 U
N-Nitrosodiphenylamine	UG/L	10 U	11 U	11 U	12 U	10 U
Pentachlorophenol	UG/L	51 U	56 U	54 U	58 U	50 U
Phenanthrene	UG/L	10 U	11 U	11 U	12 U	10 U
Phenol	UG/L	10 U	11 U	11 U	12 U	10 U
Pyrene	UG/L	10 U	11 U	11 U	12 U	10 U

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit J - The reported concentration is an estimated value

UJ - Not detected The reported quantitation limit is an estimated value

UG/L - Micrograms per liter

Made By JJL 9/12/2008 Checked By. GEK 9/15/2008

Detection Limits shown are PQL

TABLE 4
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID		MMW-01	MMW-02	MMW-03	MMW-04	MMW-05
Sample ID		MMW-01(07/23/08)	MMW-02(07/23/08)	MMW-03(07/23/08)	MMW-04(07/23/08)	MMW-05(07/23/08)
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		07/23/08	07/23/08	07/23/08	07/23/08	07/23/08
Parameter	Units					
Metals						
Arsenic	UG/L	2.4 J	2.2 U	2.2 U	2.2 U	2.2 U
Barium	UG/L	68.8	38.1	107	98.9	115
Cadmium	UG/L	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Chromium	UG/L	2.4 J	1.1 J	1.6 J	1.3 J	1.1 J
Lead	UG/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Mercury	UG/L	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Selenium	UG/L	4.3 U	4.3 U	4.3 U	4.3 U	5.1 J
Silver	UG/L	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U

Flags assigned during chemistry validation are shown.

- Not detected above the reported quantitation limit J - The reported concentration is an estimated value

UG/L - Micrograms per liter

Made By JLL 9/12/2008 Checked By GEK 9/15/2008

Detection Limits shown are PQL

TABLE 4
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID		MMW-06	MMW-07	MMW-08	MMW-09	MMW-10
Sample ID		MMW-06(07/23/08)	MMW-07(07/24/08)	MMW-08(07/24/08)	MMW-09(07/24/08)	MMW-10(07/24/08)
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		07/23/08	07/24/08	07/24/08	07/24/08	07/24/08
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	0.62 J	1.0 UJ	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	0.38 J	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	10 U	10 U	10 U	10 U	10 U
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

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UJ - Not detected The reported quantitation limit is an estimated value

UG/L - Micrograms per liter.

Made By: JJL 9/12/2008 Checked By: GEK 9/15/2008

Detection Limits shown are PQL

TABLE 4
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID		MMW-06	MMW-07	MMW-08	MMW-09	MMW-10
Sample ID		MMW-06(07/23/08)	MMW-07(07/24/08)	MMW-08(07/24/08)	MMW-09(07/24/08)	MMW-10(07/24/08)
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		07/23/08	07/24/08	07/24/08	07/24/08	07/24/08
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U
Carbon disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroform	UG/L	21	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	22
1,1-Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	2.0 J	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	0.99 J
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	10 U	10 U	10 U	10 UJ	10 U
Methyl ethyl ketone (2-Butanone)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	22	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	100
Methylene chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0	1.0 U	1.0 U	1.0 UJ	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U

Flags assigned during chemistry validation are shown

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U - Not detected. The reported quantitation limit is an estimated value.

UG/L - Micrograms per liter

Made By JJL 9/12/2008 Checked By GEK 9/15/2008

Detection Limits shown are PQL

TABLE 4
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID		MMW-06	MMW-07	MMW-08	MMW-09	MMW-10
Sample ID		MMW-06(07/23/08)	MMW-07(07/24/08)	MMW-08(07/24/08)	MMW-09(07/24/08)	MMW-10(07/24/08)
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		07/23/08	07/24/08	07/24/08	07/24/08	07/24/08
Parameter	Units					
Volatile Organic Compounds						
Vinyl chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	6.0
o-Xylene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
2,2-oxybis(1-Chloropropane)	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
2,4,5-Trichlorophenol	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
2,4,6-Trichlorophenol	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
2,4-Dichlorophenol	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
2,4-Dimethylphenol	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
2,4-Dinitrophenol	UG/L	47 U	48 U	57 U	47 U	48 U
2,4-Dinitrotoluene	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
2,6-Dinitrotoluene	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
2-Chloronaphthalene	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
2-Chlorophenol	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
2-Methylnaphthalene	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
2-Methylphenol (o-cresol)	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
2-Nitroaniline	UG/L	47 U	48 U	57 U	47 U	48 U
2-Nitrophenol	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
3,3-Dichlorobenzidine	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
3-Nitroaniline	UG/L	47 U	48 U	57 U	47 U	48 U
4,6-Dinitro-2-methylphenol	UG/L	47 U	48 U	57 U	47 U	48 U
4-Bromophenyl-phenylether	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U

Flags assigned during chemistry validation are shown.

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UJ - Not detected. The reported quantitation limit is an estimated value

UG/L - Micrograms per liter

Made By: JJJ 9/12/2008 Checked By: GEK 9/15/2008

Detection Limits shown are PQL

TABLE 4
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID		MMW-06	MMW-07	MMW-08	MMW-09	MMW-10
Sample ID		MMW-06(07/23/08)	MMW-07(07/24/08)	MMW-08(07/24/08)	MMW-09(07/24/08)	MMW-10(07/24/08)
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		07/23/08	07/24/08	07/24/08	07/24/08	07/24/08
Parameter	Units					
Semivolatile Organic Compounds						
4-Chloro-3-methylphenol	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
4-Chloroaniline	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
4-Chlorophenyl-phenylether	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
4-Methylphenol (p-cresol)	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
4-Nitroaniline	UG/L	47 U	48 U	57 U	47 U	48 U
4-Nitrophenol	UG/L	47 U	48 U	57 U	47 U	48 U
Acenaphthene	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
Acenaphthylene	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
Acetophenone	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
Anthracene	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
Atrazine	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
Benzaldehyde	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
Benzo(a)anthracene	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
Benzo(a)pyrene	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
Benzo(b)fluoranthene	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
Benzo(g,h,i)perylene	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
Benzo(k)fluoranthene	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
bis(2-Chloroethoxy)methane	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
bis(2-Chloroethyl)ether	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
bis(2-Ethylhexyl)phthalate	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
Butylbenzylphthalate	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
Caprolactam	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
Carbazole	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U

Flags assigned during chemistry validation are shown.

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U - Not detected The reported quantitation limit is an estimated value

UG/L - Micrograms per liter.

Made By J.JL 9/12/2008 Checked By GEK 9/15/2008

Detection Limits shown are PQL

TABLE 4
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID		MMW-06	MMW-07	MMW-08	MMW-09	MMW-10
Sample ID		MMW-06(07/23/08)	MMW-07(07/24/08)	MMW-08(07/24/08)	MMW-09(07/24/08)	MMW-10(07/24/08)
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		07/23/08	07/24/08	07/24/08	07/24/08	07/24/08
Parameter	Units					
Semivolatile Organic Compounds						
Chrysene	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
Dibenz(a,h)anthracene	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
Dibenzofuran	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
Diethylphthalate	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
Dimethylphthalate	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
Di-n-butylphthalate	UG/L	9.4 U	9.5 U	1.5 J	9.4 U	9.5 U
Di-n-octylphthalate	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
Fluoranthene	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
Fluorene	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
Hexachlorobenzene	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
Hexachlorobutadiene	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
Hexachlorocyclopentadiene	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
Hexachloroethane	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
Indeno(1,2,3-cd)pyrene	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
Isophorone	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
Naphthalene	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
Nitrobenzene	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
N-Nitroso-di-n-propylamine	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
N-Nitrosodiphenylamine	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
Pentachlorophenol	UG/L	47 U	48 U	57 U	47 U	48 U
Phenanthrene	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
Phenol	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U
Pyrene	UG/L	9.4 U	9.5 U	12 U	9.4 U	9.5 U

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit. J - The reported concentration is an estimated value

UJ - Not detected. The reported quantitation limit is an estimated value

UG/L - Micrograms per liter.

Made By: JLL 9/12/2008 Checked By: GEK 9/15/2008

Detection Limits shown are PQL

TABLE 4
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID		MMW-06	MMW-07	MMW-08	MMW-09	MMW-10
Sample ID		MMW-06(07/23/08)	MMW-07(07/24/08)	MMW-08(07/24/08)	MMW-09(07/24/08)	MMW-10(07/24/08)
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		07/23/08	07/24/08	07/24/08	07/24/08	07/24/08
Parameter	Units					
Metals						
Arsenic	UG/L	2.2 U	2.2 U	2.2 U	10 U	2.2 U
Barium	UG/L	12.8 J	60.5	23.8	39.5	52.8
Cadmium	UG/L	0.35 U	0.65 J	0.35 U	0.35 U	0.35 U
Chromium	UG/L	2.3 J	1.3 J	1.7 J	1.7 J	1.2 J
Lead	UG/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Mercury	UG/L	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Selenium	UG/L	4.3 U	4.3 U	4.3 U	4.3 U	5.1 J
Silver	UG/L	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U

Flags assigned during chemistry validation are shown.

- Not detected above the reported quantitation limit. J - The reported concentration is an estimated value

J - Not detected. The reported quantitation limit is an estimated value.

UG/L - Micrograms per liter

Made By: JLL 9/12/2008 Checked By: GEK 9/15/2008

Detection Limits shown are PQL

TABLE 4
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID		MP-01
Sample ID		MP-01(07/24/08)
Matrix		Groundwater
Depth Interval (ft)		-
Date Sampled		07/24/08
Parameter	Units	
Volatile Organic Compounds		
1,1,1-Trichloroethane	UG/L	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U
1,1-Dichloroethane	UG/L	1.0 U
1,1-Dichloroethene	UG/L	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U
1,2-Dichloroethane	UG/L	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U
1,2-Dichloropropane	UG/L	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U
2-Hexanone	UG/L	5.0 U
4-Methyl-2-pentanone	UG/L	5.0 U
Acetone	UG/L	12
Benzene	UG/L	1.0 U
Bromodichloromethane	UG/L	1.0 U

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit J - The reported concentration is an estimated value

UJ - Not detected The reported quantitation limit is an estimated value

UG/L - Micrograms per liter.

Made By: JLL 9/12/2008 Checked By: GEK 9/15/2008

Detection Limits shown are PQL

TABLE 4
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID		MP-01
Sample ID		MP-01(07/24/08)
Matrix		Groundwater
Depth Interval (ft)		-
Date Sampled		07/24/08
Parameter	Units	
Volatile Organic Compounds		
Bromoform	UG/L	1.0 U
Bromomethane	UG/L	2.0 U
Carbon disulfide	UG/L	1.0 U
Carbon tetrachloride	UG/L	1.0 U
Chlorobenzene	UG/L	1.0 U
Chloroethane	UG/L	2.0 U
Chloroform	UG/L	1.0 U
Chloromethane	UG/L	2.0 U
Cyclohexane	UG/L	1.0 U
1,1-dibromochloromethane	UG/L	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U
Ethylbenzene	UG/L	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U
Methyl acetate	UG/L	10 U
Methyl ethyl ketone (2-Butanone)	UG/L	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U
Methylcyclohexane	UG/L	1.1
Methylene chloride	UG/L	1.0 U
Styrene	UG/L	1.0 U
Tetrachloroethene	UG/L	1.0 U
Toluene	UG/L	1.0 U
Trichloroethene	UG/L	1.0 U
Trichlorofluoromethane	UG/L	1.0 U

Flags assigned during chemistry validation are shown.

- Not detected above the reported quantitation limit J - The reported concentration is an estimated value

- Not detected The reported quantitation limit is an estimated value

UG/L - Micrograms per liter

Made By JJJ 9/12/2008 Checked By GEK 9/15/2008

Detection Limits shown are PQL

TABLE 4
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID		MP-01
Sample ID		MP-01(07/24/08)
Matrix		Groundwater
Depth Interval (ft)		-
Date Sampled		07/24/08
Parameter	Units	
Volatile Organic Compounds		
Vinyl chloride	UG/L	1.0 U
m&p-Xylene	UG/L	1.0 U
o-Xylene	UG/L	1.0 U
Semivolatile Organic Compounds		
1,1-Biphenyl	UG/L	11 U
2,2-oxybis(1-Chloropropane)	UG/L	11 U
2,4,5-Trichlorophenol	UG/L	11 U
2,4,6-Trichlorophenol	UG/L	11 U
2,4-Dichlorophenol	UG/L	11 U
2,4-Dimethylphenol	UG/L	11 U
2,4-Dinitrophenol	UG/L	55 U
2,4-Dinitrotoluene	UG/L	11 U
2,6-Dinitrotoluene	UG/L	11 U
2-Chloronaphthalene	UG/L	11 U
2-Chlorophenol	UG/L	11 U
2-Methylnaphthalene	UG/L	11 U
2-Methylphenol (o-cresol)	UG/L	11 U
2-Nitroaniline	UG/L	55 U
2-Nitrophenol	UG/L	11 U
3,3-Dichlorobenzidine	UG/L	11 U
3-Nitroaniline	UG/L	55 U
4,6-Dinitro-2-methylphenol	UG/L	55 U
4-Bromophenyl-phenylether	UG/L	11 U

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit J - The reported concentration is an estimated value

UJ - Not detected The reported quantitation limit is an estimated value

UG/L - Micrograms per liter.

Made By: JJJ 9/12/2008 Checked By: GEK 9/15/2008

Detection Limits shown are PQL

TABLE 4
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID		MP-01
Sample ID		MP-01(07/24/08)
Matrix		Groundwater
Depth Interval (ft)		-
Date Sampled		07/24/08
Parameter	Units	
Semivolatile Organic Compounds		
4-Chloro-3-methylphenol	UG/L	11 U
4-Chloroaniline	UG/L	11 U
4-Chlorophenyl-phenylether	UG/L	11 U
4-Methylphenol (p-cresol)	UG/L	11 U
4-Nitroaniline	UG/L	55 U
4-Nitrophenol	UG/L	55 U
Acenaphthene	UG/L	11 U
Acenaphthylene	UG/L	11 U
Acetophenone	UG/L	11 U
Anthracene	UG/L	11 U
Atrazine	UG/L	11 U
Benzaldehyde	UG/L	11 U
Benzo(a)anthracene	UG/L	11 U
Benzo(a)pyrene	UG/L	11 U
Benzo(b)fluoranthene	UG/L	11 U
Benzo(g,h,i)perylene	UG/L	11 U
Benzo(k)fluoranthene	UG/L	11 U
bis(2-Chloroethoxy)methane	UG/L	11 U
bis(2-Chloroethyl)ether	UG/L	11 U
bis(2-Ethylhexyl)phthalate	UG/L	11 U
Butylbenzylphthalate	UG/L	11 U
Caprolactam	UG/L	11 U
Carbazole	UG/L	11 U

Flags assigned during chemistry validation are shown.

- Not detected above the reported quantitation limit J - The reported concentration is an estimated value

U - Not detected. The reported quantitation limit is an estimated value

UG/L - Micrograms per liter.

Made By: JJL 9/12/2008 Checked By: GEK 9/15/2008

Detection Limits shown are PQL

TABLE 4
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID		MP-01
Sample ID		MP-01(07/24/08)
Matrix		Groundwater
Depth Interval (ft)		-
Date Sampled		07/24/08
Parameter	Units	
Semivolatile Organic Compounds		
Chrysene	UG/L	11 U
Dibenz(a,h)anthracene	UG/L	11 U
Dibenzofuran	UG/L	11 U
Diethylphthalate	UG/L	11 U
Dimethylphthalate	UG/L	11 U
Di-n-butylphthalate	UG/L	11 U
Di-n-octylphthalate	UG/L	11 U
Fluoranthene	UG/L	11 U
Fluorene	UG/L	11 U
Hexachlorobenzene	UG/L	11 U
Hexachlorobutadiene	UG/L	11 U
Hexachlorocyclopentadiene	UG/L	11 U
Hexachloroethane	UG/L	11 U
Indeno(1,2,3-cd)pyrene	UG/L	11 U
Isophorone	UG/L	11 U
Naphthalene	UG/L	11 U
Nitrobenzene	UG/L	11 U
N-Nitroso-di-n-propylamine	UG/L	11 U
N-Nitrosodiphenylamine	UG/L	11 U
Pentachlorophenol	UG/L	55 U
Phenanthrene	UG/L	11 U
Phenol	UG/L	11 U
Pyrene	UG/L	11 U

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit J - The reported concentration is an estimated value

UJ - Not detected. The reported quantitation limit is an estimated value

UG/L - Micrograms per liter.

Made By: JLL 9/12/2008 Checked By: GEK 9/15/2008

Detection Limits shown are PQL

TABLE 4
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID		MP-01
Sample ID		MP-01(07/24/08)
Matrix		Groundwater
Depth Interval (ft)		-
Date Sampled		07/24/08
Parameter	Units	
Metals		
Arsenic	UG/L	2.2 U
Barium	UG/L	31.8
Cadmium	UG/L	0.35 U
Chromium	UG/L	1.0 J
Lead	UG/L	1.2 U
Mercury	UG/L	0.03 U
Selenium	UG/L	7.6 J
Silver	UG/L	0.72 U

Flags assigned during chemistry validation are shown

- Not detected above the reported quantitation limit J - The reported concentration is an estimated value

J - Not detected The reported quantitation limit is an estimated value

UG/L - Micrograms per liter

Made By JJL 9/12/2008 Checked By GEK 9/15/2008

Detection Limits shown are PQL

TABLE 5
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID		FIELDQC	FIELDQC	FIELDQC
Sample ID		RB20080722	TRIP BLANK(07/23/08)	TRIP BLANK(07/24/08)
Matrix		Water Quality	Water Quality	Water Quality
Depth Interval (ft)		-	-	-
Date Sampled		07/22/08	07/23/08	07/24/08
Parameter	Units	Rinse Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds				
1,1,1-Trichloroethane	UG/L	NA	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	NA	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	NA	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	NA	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	NA	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	NA	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	NA	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	NA	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	NA	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	NA	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	NA	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	NA	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	NA	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	NA	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	NA	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	NA	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	NA	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	NA	1.0 U	1.0 U
2-Hexanone	UG/L	NA	5.0 U	5.0 U
4-Methyl-2-pentanone	UG/L	NA	5.0 U	5.0 U
Acetone	UG/L	NA	10 U	10 U
Benzene	UG/L	NA	1.0 U	1.0 U
Bromodichloromethane	UG/L	NA	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit J - The reported concentration is an estimated value

UJ - Not detected The reported quantitation limit is an estimated value.

UG/L - Micrograms per liter. NA - The sample was not analyzed for this parameter.

Made By JLL 9/12/2008 Checked By. GEK 9/15/2008

Detection Limits shown are PQL

TABLE 5
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID		FIELDQC	FIELDQC	FIELDQC
Sample ID		RB20080722	TRIP BLANK(07/23/08)	TRIP BLANK(07/24/08)
Matrix		Water Quality	Water Quality	Water Quality
Depth Interval (ft)		-	-	-
Date Sampled		07/22/08	07/23/08	07/24/08
Parameter	Units	Rinse Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds				
Bromoform	UG/L	NA	1.0 U	1.0 U
Bromomethane	UG/L	NA	2.0 U	2.0 U
Carbon disulfide	UG/L	NA	1.0 U	1.0 U
Carbon tetrachloride	UG/L	NA	1.0 U	1.0 U
Chlorobenzene	UG/L	NA	1.0 U	1.0 U
Chloroethane	UG/L	NA	2.0 U	2.0 U
Chloroform	UG/L	NA	1.0 U	1.0 U
Chloromethane	UG/L	NA	2.0 U	2.0 U
Cyclohexane	UG/L	NA	1.0 U	1.0 U
1-bromochloromethane	UG/L	NA	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	NA	1.0 U	1.0 U
Ethylbenzene	UG/L	NA	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	NA	1.0 U	1.0 U
Methyl acetate	UG/L	NA	10 U	10 U
Methyl ethyl ketone (2-Butanone)	UG/L	NA	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	NA	1.0 U	1.0 U
Methylcyclohexane	UG/L	NA	1.0 U	1.0 U
Methylene chloride	UG/L	NA	1.0 U	1.0 U
Styrene	UG/L	NA	1.0 U	1.0 U
Tetrachloroethene	UG/L	NA	1.0 U	1.0 U
Toluene	UG/L	NA	1.0 U	1.0 U
Trichloroethene	UG/L	NA	1.0 U	1.0 U
Trichlorofluoromethane	UG/L	NA	1.0 U	1.0 U

Flags assigned during chemistry validation are shown

- Not detected above the reported quantitation limit J - The reported concentration is an estimated value

U - Not detected. The reported quantitation limit is an estimated value

UG/L - Micrograms per liter NA - The sample was not analyzed for this parameter.

Made By JJL 9/12/2008 Checked By GEK 9/15/2008

Detection Limits shown are PQL

TABLE 5
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID		FIELDQC	FIELDQC	FIELDQC
Sample ID		RB20080722	TRIP BLANK(07/23/08)	TRIP BLANK(07/24/08)
Matrix		Water Quality	Water Quality	Water Quality
Depth Interval (ft)		-	-	-
Date Sampled		07/22/08	07/23/08	07/24/08
Parameter	Units	Rinse Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds				
Vinyl chloride	UG/L	NA	1.0 U	1.0 U
m&p-Xylene	UG/L	NA	1.0 U	1.0 U
o-Xylene	UG/L	NA	1.0 U	1.0 U
Semivolatile Organic Compounds				
1,1-Biphenyl	UG/L	9.5 U	NA	NA
2,2-oxybis(1-Chloropropane)	UG/L	9.5 U	NA	NA
2,4,5-Trichlorophenol	UG/L	9.5 U	NA	NA
2,4,6-Trichlorophenol	UG/L	9.5 U	NA	NA
2,4-Dichlorophenol	UG/L	9.5 U	NA	NA
2,4-Dimethylphenol	UG/L	9.5 U	NA	NA
2,4-Dinitrophenol	UG/L	48 U	NA	NA
2,4-Dinitrotoluene	UG/L	9.5 U	NA	NA
2,6-Dinitrotoluene	UG/L	9.5 U	NA	NA
2-Chloronaphthalene	UG/L	9.5 U	NA	NA
2-Chlorophenol	UG/L	9.5 U	NA	NA
2-Methylnaphthalene	UG/L	9.5 U	NA	NA
2-Methylphenol (o-cresol)	UG/L	9.5 U	NA	NA
2-Nitroaniline	UG/L	48 U	NA	NA
2-Nitrophenol	UG/L	9.5 U	NA	NA
3,3-Dichlorobenzidine	UG/L	9.5 U	NA	NA
3-Nitroaniline	UG/L	48 U	NA	NA
4,6-Dinitro-2-methylphenol	UG/L	48 U	NA	NA
4-Bromophenyl-phenylether	UG/L	9.5 U	NA	NA

Flags assigned during chemistry validation are shown

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UG/L - Micrograms per liter. NA - The sample was not analyzed for this parameter.

Made By: JLL 9/12/2008 Checked By: GEK 9/15/2008

Detection Limits shown are PQL

TABLE 5
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID		FIELDQC	FIELDQC	FIELDQC
Sample ID		RB20080722	TRIP BLANK(07/23/08)	TRIP BLANK(07/24/08)
Matrix		Water Quality	Water Quality	Water Quality
Depth Interval (ft)		-	-	-
Date Sampled		07/22/08	07/23/08	07/24/08
Parameter	Units	Rinse Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)
Semivolatile Organic Compounds				
4-Chloro-3-methylphenol	UG/L	9.5 U	NA	NA
4-Chloroaniline	UG/L	9.5 U	NA	NA
4-Chlorophenyl-phenylether	UG/L	9.5 U	NA	NA
4-Methylphenol (p-cresol)	UG/L	9.5 U	NA	NA
4-Nitroaniline	UG/L	48 U	NA	NA
4-Nitrophenol	UG/L	48 U	NA	NA
Acenaphthene	UG/L	9.5 U	NA	NA
Acenaphthylene	UG/L	9.5 U	NA	NA
Acetophenone	UG/L	9.5 U	NA	NA
Anthracene	UG/L	9.5 U	NA	NA
Atrazine	UG/L	9.5 U	NA	NA
Benzaldehyde	UG/L	9.5 UJ	NA	NA
Benzo(a)anthracene	UG/L	9.5 U	NA	NA
Benzo(a)pyrene	UG/L	9.5 U	NA	NA
Benzo(b)fluoranthene	UG/L	9.5 U	NA	NA
Benzo(g,h,i)perylene	UG/L	9.5 U	NA	NA
Benzo(k)fluoranthene	UG/L	9.5 U	NA	NA
bis(2-Chloroethoxy)methane	UG/L	9.5 U	NA	NA
bis(2-Chloroethyl)ether	UG/L	9.5 U	NA	NA
bis(2-Ethylhexyl)phthalate	UG/L	9.5 U	NA	NA
Butylbenzylphthalate	UG/L	9.5 U	NA	NA
Caprolactam	UG/L	9.5 U	NA	NA
Carbazole	UG/L	9.5 U	NA	NA

Flags assigned during chemistry validation are shown.

- Not detected above the reported quantitation limit J - The reported concentration is an estimated value.

UJ - Not detected. The reported quantitation limit is an estimated value.

UG/L - Micrograms per liter NA - The sample was not analyzed for this parameter

Made By JJJ 9/12/2008 Checked By GEK 9/15/2008

Detection Limits shown are PQL

TABLE 5
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID		FIELDQC	FIELDQC	FIELDQC
Sample ID		RB20080722	TRIP BLANK(07/23/08)	TRIP BLANK(07/24/08)
Matrix		Water Quality	Water Quality	Water Quality
Depth Interval (ft)		-	-	-
Date Sampled		07/22/08	07/23/08	07/24/08
Parameter	Units	Rinse Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)
Semivolatile Organic Compounds				
Chrysene	UG/L	9.5 U	NA	NA
Dibenz(a,h)anthracene	UG/L	9.5 U	NA	NA
Dibenzofuran	UG/L	9.5 U	NA	NA
Diethylphthalate	UG/L	9.5 U	NA	NA
Dimethylphthalate	UG/L	9.5 U	NA	NA
Di-n-butylphthalate	UG/L	9.5 U	NA	NA
Di-n-octylphthalate	UG/L	9.5 U	NA	NA
Fluoranthene	UG/L	9.5 U	NA	NA
Fluorene	UG/L	9.5 U	NA	NA
Hexachlorobenzene	UG/L	9.5 U	NA	NA
Hexachlorobutadiene	UG/L	9.5 U	NA	NA
Hexachlorocyclopentadiene	UG/L	9.5 U	NA	NA
Hexachloroethane	UG/L	9.5 U	NA	NA
Indeno(1,2,3-cd)pyrene	UG/L	9.5 U	NA	NA
Isophorone	UG/L	9.5 U	NA	NA
Naphthalene	UG/L	9.5 U	NA	NA
Nitrobenzene	UG/L	9.5 U	NA	NA
N-Nitroso-di-n-propylamine	UG/L	9.5 U	NA	NA
N-Nitrosodiphenylamine	UG/L	9.5 U	NA	NA
Pentachlorophenol	UG/L	48 U	NA	NA
Phenanthrene	UG/L	9.5 U	NA	NA
Phenol	UG/L	9.5 U	NA	NA
Pyrene	UG/L	9.5 U	NA	NA

Flags assigned during chemistry validation are shown

U - Not detected above the reported quantitation limit J - The reported concentration is an estimated value.

UJ - Not detected The reported quantitation limit is an estimated value

UG/L - Micrograms per liter NA - The sample was not analyzed for this parameter.

Made By JJJ 9/12/2008 Checked By GEK 9/15/2008

Detection Limits shown are PQL

TABLE 5
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
JULY 2008

Location ID		FIELDQC	FIELDQC	FIELDQC
Sample ID		RB20080722	TRIP BLANK(07/23/08)	TRIP BLANK(07/24/08)
Matrix		Water Quality	Water Quality	Water Quality
Depth Interval (ft)		-	-	-
Date Sampled		07/22/08	07/23/08	07/24/08
Parameter	Units	Rinse Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)
Polychlorinated Biphenyls				
Aroclor 1016	UG/L	0.94 U	NA	NA
Aroclor 1221	UG/L	1.9 U	NA	NA
Aroclor 1232	UG/L	0.94 U	NA	NA
Aroclor 1242	UG/L	0.94 U	NA	NA
Aroclor 1248	UG/L	0.94 U	NA	NA
Aroclor 1254	UG/L	0.94 U	NA	NA
Aroclor 1260	UG/L	0.94 U	NA	NA
Metals				
Arsenic	UG/L	2.2 U	NA	NA
Barium	UG/L	4.8 U	NA	NA
Cadmium	UG/L	0.35 U	NA	NA
Chromium	UG/L	0.67 J	NA	NA
Lead	UG/L	1.2 U	NA	NA
Mercury	UG/L	0.03 U	NA	NA
Selenium	UG/L	4.3 U	NA	NA
Silver	UG/L	0.72 U	NA	NA

Flags assigned during chemistry validation are shown

- Not detected above the reported quantitation limit. J - The reported concentration is an estimated value.

UG/L - Not detected. The reported quantitation limit is an estimated value

UG/L - Micrograms per liter NA - The sample was not analyzed for this parameter.

Made By: JJL 9/12/2008 Checked By: GEK 9/15/2008

Detection Limits shown are PQL

ATTACHMENT A

VALIDATED FORM 1'S

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B

Reported: 08/21/08

URS Corporation

Project Reference: PACTIV - MACEDON, NY

Client Sample ID : MMW-8 8'-12'

Date Sampled : 07/22/08 14:47 Order #: 1119958 Sample Matrix: SOIL/SEDIMENT
 Date Received: 07/22/08 Submission #: R2845062 Percent Solid: 85.2

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/24/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
ACETONE	20	23 U	UG/KG
BENZENE	5.0	5.9 U	UG/KG
BROMODICHLOROMETHANE	5.0	5.9 U	UG/KG
BROMOFORM	5.0	5.9 U	UG/KG
BROMOMETHANE	5.0	5.9 U	UG/KG
2-BUTANONE (MEK)	10	12 U	UG/KG
METHYL-TERT-BUTYL ETHER	5.0	5.9 U	UG/KG
CARBON DISULFIDE	10	12 U	UG/KG
CARBON TETRACHLORIDE	5.0	5.9 U	UG/KG
CHLOROBENZENE	5.0	5.9 U	UG/KG
CHLOROETHANE	10	12 U	UG/KG
CHLOROFORM	5.0	5.9 U	UG/KG
CHLOROMETHANE	5.0	5.9 U	UG/KG
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.9 U	UG/KG
CYCLOHEXANE	5.0	5.9 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	5.9 U	UG/KG
1,2-DIBROMOETHANE	5.0	5.9 U	UG/KG
1,3-DICHLOROBENZENE	5.0	5.9 U	UG/KG
1,4-DICHLOROBENZENE	5.0	5.9 U	UG/KG
1,2-DICHLOROBENZENE	5.0	5.9 U	UG/KG
DICHLORODIFLUOROMETHANE	5.0	5.9 U	UG/KG
1,1-DICHLOROETHANE	5.0	5.9 U	UG/KG
1,2-DICHLOROETHANE	5.0	5.9 U	UG/KG
1,1-DICHLOROETHENE	5.0	5.9 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	5.9 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	5.9 U	UG/KG
1,2-DICHLOROPROPANE	5.0	5.9 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	5.9 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	5.9 U	UG/KG
ETHYLBENZENE	5.0	5.9 U	UG/KG
2-HEXANONE	10	12 U	UG/KG
ISOPROPYLBENZENE	5.0	5.9 U	UG/KG
METHYL ACETATE	10	12 U	UG/KG
METHYLCYCLOHEXANE	5.0	5.9 U	UG/KG
METHYLENE CHLORIDE	5.0	5.9 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	12 U	UG/KG
STYRENE	5.0	5.9 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	5.9 U	UG/KG
TETRACHLOROETHENE	5.0	5.9 U	UG/KG
TOLUENE	5.0	5.9 U	UG/KG
1,2,4-TRICHLOROBENZENE	5.0	5.9 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	5.9 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	5.9 U	UG/KG
TRICHLOROETHENE	5.0	5.9 U	UG/KG

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B
Reported: 08/21/08

URS Corporation
Project Reference: PACTIV - MACEDON, NY
Client Sample ID : MMW-8 8'-12'

Date Sampled : 07/22/08 14:47 Order #: 1119958 Sample Matrix: SOIL/SEDIMENT
Date Received: 07/22/08 Submission #: R2845062 Percent Solid: 85.2

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 07/24/08		
ANALYTICAL DILUTION:	1.00		Dry Weight
TRICHLOROFLUOROMETHANE	5.0	5.9 U	UG/KG
1,1,2-TRICHLORO1,2,2-TRIFLUOROETHA	5.0	5.9 U	UG/KG
VINYL CHLORIDE	5.0	5.9 U	UG/KG
O-XYLENE	5.0	5.9 U	UG/KG
M+P-XYLENE	5.0	5.9 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(50 - 135 %)	71	%
TOLUENE-D8	(75 - 128 %)	87	%
DIBROMOFLUOROMETHANE	(58 - 133 %)	86	%

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW-8 8-12

Lab Name: CASROCH Contract: URS

Lab Code: 10145 Case No.: R8-45062 SAS No.: SDG No.: MW-10

Matrix: (soil/water) SOIL Lab Sample ID: 1119958 1.0

Sample wt/vol: 5.0 (g/ml) G Lab File ID: K8553.D

Level: (low/med) LOW Date Received: 07/22/08

% Moisture: not dec. 0 Date Analyzed: 07/24/08

GC Column: DB624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B

Reported: 08/21/08

URS Corporation

Project Reference: PACTIV - MACEDON, NY

Client Sample ID : MMW-9 4'-8'

Date Sampled : 07/22/08 13:15 Order #: 1119957 Sample Matrix: SOIL/SEDIMENT
 Date Received: 07/22/08 Submission #: R2845062 Percent Solid: 82.2

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/24/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
ACETONE	20	24 3.3 JB U	UG/KG
BENZENE	5.0	6.1 U	UG/KG
BROMODICHLOROMETHANE	5.0	6.1 U	UG/KG
BROMOFORM	5.0	6.1 U	UG/KG
BROMOMETHANE	5.0	6.1 U	UG/KG
2-BUTANONE (MEK)	10	12 U	UG/KG
METHYL-TERT-BUTYL ETHER	5.0	6.1 U	UG/KG
CARBON DISULFIDE	10	12 U	UG/KG
CARBON TETRACHLORIDE	5.0	6.1 U	UG/KG
CHLOROBENZENE	5.0	6.1 U	UG/KG
CHLOROETHANE	10	12 U	UG/KG
CHLOROFORM	5.0	6.1 U	UG/KG
CHLOROMETHANE	5.0	6.1 U	UG/KG
1,2-DIBROMO-3-CHLOROPROPANE	5.0	6.1 U	UG/KG
CYCLOHEXANE	5.0	6.1 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	6.1 U	UG/KG
1,2-DIBROMOETHANE	5.0	6.1 U	UG/KG
1,3-DICHLOROBENZENE	5.0	6.1 U	UG/KG
1,4-DICHLOROBENZENE	5.0	6.1 U	UG/KG
1,2-DICHLOROBENZENE	5.0	6.1 U	UG/KG
DICHLORODIFLUOROMETHANE	5.0	6.1 U	UG/KG
1,1-DICHLOROETHANE	5.0	6.1 U	UG/KG
1,2-DICHLOROETHANE	5.0	6.1 U	UG/KG
1,1-DICHLOROETHENE	5.0	6.1 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	6.1 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	6.1 U	UG/KG
1,2-DICHLOROPROPANE	5.0	6.1 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	6.1 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	6.1 U	UG/KG
ETHYLBENZENE	5.0	6.1 U	UG/KG
2-HEXANONE	10	12 U	UG/KG
ISOPROPYLBENZENE	5.0	6.1 U	UG/KG
METHYL ACETATE	10	12 U	UG/KG
METHYLCYCLOHEXANE	5.0	6.1 U	UG/KG
METHYLENE CHLORIDE	5.0	6.1 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	12 U	UG/KG
STYRENE	5.0	6.1 U	UG/KG
1,2,2-TETRACHLOROETHANE	5.0	6.1 U	UG/KG
TETRACHLOROETHENE	5.0	6.1 U	UG/KG
TOLUENE	5.0	6.1 U	UG/KG
1,2,4-TRICHLOROBENZENE	5.0	6.1 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	6.1 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	6.1 U	UG/KG
TRICHLOROETHENE	5.0	6.1 U	UG/KG

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B
Reported: 08/21/08

URS Corporation
Project Reference: PACTIV - MACEDON, NY
Client Sample ID : MMW-9 4'-8'

Date Sampled : 07/22/08 13:15 Order #: 1119957 Sample Matrix: SOIL/SEDIMENT
Date Received: 07/22/08 Submission #: R2845062 Percent Solid: 82.2

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/24/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
TRICHLOROFLUOROMETHANE	5.0	6.1 U	UG/KG
1,1,2-TRICHLORO1,2,2-TRIFLUOROETHA	5.0	6.1 U	UG/KG
VINYL CHLORIDE	5.0	6.1 U	UG/KG
O-XYLENE	5.0	6.1 U	UG/KG
M+P-XYLENE	5.0	6.1 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(50 - 135 %)	83	%
TOLUENE-D8	(75 - 128 %)	90	%
DIBROMOFLUOROMETHANE	(58 - 133 %)	83	%

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW-9 4-8

Lab Name: CASROCH Contract: URS
Lab Code: 10145 Case No.: R8-45062 SAS No.: _____ SDG No.: MW-10
Matrix: (soil/water) SOIL Lab Sample ID: 1119957 1.0
Sample wt/vol: 5.0 (g/ml) G Lab File ID: K8551.D
Level: (low/med) LOW Date Received: 07/22/08
% Moisture: not dec. 0 Date Analyzed: 07/24/08
GC Column: DB624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B

Reported: 08/21/08

URS Corporation

Project Reference: PACTIV - MACEDON, NY

Client Sample ID : MMW-10 4'-5.4'

Date Sampled : 07/22/08 10:34 Order #: 1119956 Sample Matrix: SOIL/SEDIMENT
 Date Received: 07/22/08 Submission #: R2845062 Percent Solid: 79.4

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/24/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
ACETONE	20	25 U	UG/KG
BENZENE	5.0	2.4 J	UG/KG
BROMODICHLOROMETHANE	5.0	6.3 U	UG/KG
BROMOFORM	5.0	6.3 U	UG/KG
BROMOMETHANE	5.0	6.3 U	UG/KG
2-BUTANONE (MEK)	10	13 U	UG/KG
METHYL-TERT-BUTYL ETHER	5.0	6.3 U	UG/KG
CARBON DISULFIDE	10	13 U	UG/KG
CARBON TETRACHLORIDE	5.0	6.3 U	UG/KG
CHLOROBENZENE	5.0	6.3 U	UG/KG
CHLOROETHANE	10	13 U	UG/KG
CHLOROFORM	5.0	6.3 U	UG/KG
CHLOROMETHANE	5.0	6.3 U	UG/KG
1,2-DIBROMO-3-CHLOROPROPANE	5.0	6.3 U	UG/KG
CYCLOHEXANE	5.0	6.3 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	6.3 U	UG/KG
1,2-DIBROMOETHANE	5.0	6.3 U	UG/KG
1,3-DICHLOROBENZENE	5.0	6.3 U	UG/KG
1,4-DICHLOROBENZENE	5.0	6.3 U	UG/KG
1,2-DICHLOROBENZENE	5.0	6.3 U	UG/KG
DICHLORODIFLUOROMETHANE	5.0	6.3 U	UG/KG
1,1-DICHLOROETHANE	5.0	6.3 U	UG/KG
1,2-DICHLOROETHANE	5.0	6.3 U	UG/KG
1,1-DICHLOROETHENE	5.0	6.3 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	6.3 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	6.3 U	UG/KG
1,2-DICHLOROPROPANE	5.0	6.3 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	6.3 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	6.3 U	UG/KG
ETHYLBENZENE	5.0	6.3 U	UG/KG
2-HEXANONE	10	13 U	UG/KG
ISOPROPYLBENZENE	5.0	6.3 U	UG/KG
METHYL ACETATE	10	13 U	UG/KG
METHYLCYCLOHEXANE	5.0	6.3 U	UG/KG
METHYLENE CHLORIDE	5.0	6.3 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	13 U	UG/KG
STYRENE	5.0	6.3 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	6.3 U	UG/KG
TETRACHLOROETHENE	5.0	6.3 U	UG/KG
TOLUENE	5.0	2.1 J	UG/KG
1,2,4-TRICHLOROBENZENE	5.0	6.3 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	6.3 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	6.3 U	UG/KG
TRICHLOROETHENE	5.0	6.3 U	UG/KG

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B

Reported: 08/21/08

URS Corporation

Project Reference: PACTIV - MACEDON, NY

Client Sample ID : MMW-10 4'-5.4'

Date Sampled : 07/22/08 10:34 Order #: 1119956 Sample Matrix: SOIL/SEDIMENT
Date Received: 07/22/08 Submission #: R2845062 Percent Solid: 79.4

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/24/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
TRICHLOROFLUOROMETHANE	5.0	6.3 U	UG/KG
1,1,2-TRICHLORO1,2,2-TRIFLUOROETHA	5.0	6.3 U	UG/KG
VINYL CHLORIDE	5.0	6.3 U	UG/KG
O-XYLENE	5.0	6.3 U	UG/KG
M+P-XYLENE	5.0	6.3 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(50 - 135 %)	85	%
TOLUENE-D8	(75 - 128 %)	90	%
DIBROMOFLUOROMETHANE	(58 - 133 %)	91	%

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW-10 4-5.4

Lab Name: CASROCH Contract: URS
Lab Code: 10145 Case No.: R8-45062 SAS No.: _____ SDG No.: MW-10
Matrix: (soil/water) SOIL Lab Sample ID: 1119956 1.0
Sample wt/vol: 5.0 (g/ml) G Lab File ID: K8552.D
Level: (low/med) LOW Date Received: 07/22/08
% Moisture: not dec. 0 Date Analyzed: 07/24/08
GC Column: DB624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B

Reported: 08/21/08

URS Corporation

Project Reference: PACTIV - MACEDON, NY

Client Sample ID : MMW-01(07/23/08)

Date Sampled : 07/23/08 15:55 Order #: 1120241 Sample Matrix: WATER
 Date Received: 07/23/08 Submission #: R2845071 Analytical Run 165256

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/31/08			
ANALYTICAL DILUTION: 1.00			
ACETONE	10	10 ~~2.1~~ ~~UB~~ U	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	5.0	5.0 U	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
CARBON DISULFIDE	1.0	1.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	2.0	2.0 U	UG/L
CYCLOHEXANE	1.0	1.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
1,3-DICHLOROBENZENE	1.0	1.0 U	UG/L
1,4-DICHLOROBENZENE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	1.0	1.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
2-HEXANONE	5.0	5.0 U	UG/L
ISOPROPYLBENZENE	1.0	1.0 U	UG/L
METHYL ACETATE	10	10 U	UG/L
METHYLCYCLOHEXANE	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	1.0	1.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	5.0	5.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	1.0	1.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L

9/19/08

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B
Reported: 08/21/08

URS Corporation
Project Reference: PACTIV - MACEDON, NY
Client Sample ID : MMW-01(07/23/08)

Date Sampled : 07/23/08 15:55 Order #: 1120241 Sample Matrix: WATER
Date Received: 07/23/08 Submission #: R2845071 Analytical Run 165256

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/31/08			
ANALYTICAL DILUTION: 1.00			
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLORO1,2,2-TRIFLUOROETHA	1.0	1.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L
M+P-XYLENE	1.0	1.0 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(80 - 123 %)	95	%
TOLUENE-D8	(88 - 124 %)	97	%
DIBROMOFLUOROMETHANE	(89 - 115 %)	90	%

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW-01

Lab Name: CASROCH Contract: URS
Lab Code: 10145 Case No.: R8-45071 SAS No.: _____ SDG No.: MMW-01
Matrix: (soil/water) WATER Lab Sample ID: 1120241 1.0
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V5964.D
Level: (low/med) LOW Date Received: 07/23/08
% Moisture: not dec. _____ Date Analyzed: 07/31/08
GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0
Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICESVOLATILE ORGANICS
METHOD 8260B
Reported: 08/21/08URS Corporation
Project Reference: PACTIV - MACEDON, NY
Client Sample ID : MMW-02(07/23/08)Date Sampled : 07/23/08 14:50 Order #: 1120242 Sample Matrix: WATER
Date Received: 07/23/08 Submission #: R2845071 Analytical Run 165256

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/31/08			
ANALYTICAL DILUTION: 1.00			
ACETONE	10	10 2.2 JB U	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	5.0	5.0 U	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
CARBON DISULFIDE	1.0	1.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	2.0	2.0 U	UG/L
CYCLOHEXANE	1.0	1.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
1,3-DICHLOROBENZENE	1.0	1.0 U	UG/L
1,4-DICHLOROBENZENE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	1.0	1.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
2-HEXANONE	5.0	5.0 U	UG/L
ISOPROPYLBENZENE	1.0	1.0 U	UG/L
METHYL ACETATE	10	10 U	UG/L
METHYLCYCLOHEXANE	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	1.0	1.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	5.0	5.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	1.0	1.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L

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COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B

Reported: 08/21/08

URS Corporation

Project Reference: PACTIV - MACEDON, NY

Client Sample ID : MMW-02(07/23/08)

Date Sampled : 07/23/08 14:50 Order #: 1120242 Sample Matrix: WATER
Date Received: 07/23/08 Submission #: R2845071 Analytical Run 165256

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/31/08			
ANALYTICAL DILUTION: 1.00			
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLORO1,2,2-TRIFLUOROETHA	1.0	1.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L
M+P-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIESQC LIMITS

4-BROMOFLUOROBENZENE	(80 - 123 %)	94	%
TOLUENE-D8	(88 - 124 %)	98	%
DIBROMOFLUOROMETHANE	(89 - 115 %)	92	%

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW-02

Lab Name: CASROCH Contract: URS
Lab Code: 10145 Case No.: R8-45071 SAS No.: _____ SDG No.: MMW-01
Matrix: (soil/water) WATER Lab Sample ID: 1120242 1.0
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V5965.D
Level: (low/med) LOW Date Received: 07/23/08
% Moisture: not dec. _____ Date Analyzed: 07/31/08
GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0
Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B

Reported: 08/21/08

URS Corporation

Project Reference: PACTIV - MACEDON, NY

Client Sample ID : MMW-03 (07/23/08)

Date Sampled : 07/23/08 13:55 Order #: 1120243
 Date Received: 07/23/08 Submission #: R2845071

Sample Matrix: WATER
 Analytical Run 165256

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/31/08			
ANALYTICAL DILUTION: 1.00			
ACETONE	10	10 ~~1.2~~ JB U	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	5.0	5.0 U	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
CARBON DISULFIDE	1.0	1.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	2.0	2.0 U	UG/L
CYCLOHEXANE	1.0	1.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
1,3-DICHLOROBENZENE	1.0	1.0 U	UG/L
1,4-DICHLOROBENZENE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	1.0	1.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
2-HEXANONE	5.0	5.0 U	UG/L
ISOPROPYLBENZENE	1.0	1.0 U	UG/L
METHYL ACETATE	10	10 U	UG/L
METHYLCYCLOHEXANE	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	1.0	1.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	5.0	5.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	1.0	1.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B

Reported: 08/21/08

URS Corporation

Project Reference: PACTIV - MACEDON, NY

Client Sample ID : MMW-03(07/23/08)

Date Sampled : 07/23/08 13:55 Order #: 1120243 Sample Matrix: WATER
Date Received: 07/23/08 Submission #: R2845071 Analytical Run 165256

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/31/08			
ANALYTICAL DILUTION: 1.00			
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLORO1,2,2-TRIFLUOROETHA	1.0	1.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L
M+P-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(80 - 123 %)	97	%
TOLUENE-D8	(88 - 124 %)	99	%
DIBROMOFLUOROMETHANE	(89 - 115 %)	91	%

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW-03

Lab Name: CASROCH Contract: URS
Lab Code: 10145 Case No.: R8-45071 SAS No.: _____ SDG No.: MMW-01
Matrix: (soil/water) WATER Lab Sample ID: 1120243 1.0
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V5966.D
Level: (low/med) LOW Date Received: 07/23/08
% Moisture: not dec. _____ Date Analyzed: 07/31/08
GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0
Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B

Reported: 08/21/08

URS Corporation

Project Reference: PACTIV - MACEDON, NY

Client Sample ID : MMW-04(07/23/08)

Date Sampled : 07/23/08 12:30 Order #: 1120244
Date Received: 07/23/08 Submission #: R2845071

Sample Matrix: WATER
Analytical Run 165256

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/31/08			
ANALYTICAL DILUTION: 1.00			
ACETONE	10	10 U	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	5.0	5.0 U	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
CARBON DISULFIDE	1.0	1.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	2.0	2.0 U	UG/L
CYCLOHEXANE	1.0	1.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
1,3-DICHLOROBENZENE	1.0	1.0 U	UG/L
1,4-DICHLOROBENZENE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	1.0	1.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
2-HEXANONE	5.0	5.0 U	UG/L
ISOPROPYLBENZENE	1.0	1.0 U	UG/L
METHYL ACETATE	10	10 U	UG/L
METHYLCYCLOHEXANE	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	1.0	1.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	5.0	5.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	1.0	1.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B
Reported: 08/21/08

URS Corporation
Project Reference: PACTIV - MACEDON, NY
Client Sample ID : MMW-04(07/23/08)

Date Sampled : 07/23/08 12:30 Order #: 1120244 Sample Matrix: WATER
Date Received: 07/23/08 Submission #: R2845071 Analytical Run 165256

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/31/08			
ANALYTICAL DILUTION: 1.00			
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLORO1,2,2-TRIFLUOROETHA	1.0	1.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L
M+P-XYLENE	1.0	1.0 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(80 - 123 %)	95	%
TOLUENE-D8	(88 - 124 %)	97	%
DIBROMOFLUOROMETHANE	(89 - 115 %)	89	%

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW-04

Lab Name: CASROCH Contract: URS
Lab Code: 10145 Case No.: R8-45071 SAS No.: _____ SDG No.: MMW-01
Matrix: (soil/water) WATER Lab Sample ID: 1120244 1.0
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V5967.D
Level: (low/med) LOW Date Received: 07/23/08
% Moisture: not dec. _____ Date Analyzed: 07/31/08
GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0
Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B

Reported: 08/21/08

URS Corporation

Project Reference: PACTIV - MACEDON, NY

Client Sample ID : MMW-05(07/23/08)

Date Sampled : 07/23/08 09:30 Order #: 1120245
Date Received: 07/23/08 Submission #: R2845071Sample Matrix: WATER
Analytical Run 165262

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/01/08			
ANALYTICAL DILUTION: 1.00			
ACETONE	10	10 ~~1.3~~ ~~JB~~ U	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	5.0	5.0 U	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
CARBON DISULFIDE	1.0	1.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	2.0	2.0 U	UG/L
CYCLOHEXANE	1.0	1.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
1,3-DICHLOROBENZENE	1.0	1.0 U	UG/L
1,4-DICHLOROBENZENE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	1.0	1.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
2-HEXANONE	5.0	5.0 U	UG/L
ISOPROPYLBENZENE	1.0	1.0 U	UG/L
METHYL ACETATE	10	10 U	UG/L
METHYLCYCLOHEXANE	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	1.0	1.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	5.0	5.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	1.0	1.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L

9/10/08

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COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B

Reported: 08/21/08

URS Corporation

Project Reference: PACTIV - MACEDON, NY

Client Sample ID : MMW-05(07/23/08)

Date Sampled : 07/23/08 09:30 Order #: 1120245 Sample Matrix: WATER
Date Received: 07/23/08 Submission #: R2845071 Analytical Run 165262

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/01/08			
ANALYTICAL DILUTION: 1.00			
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLORO1,2,2-TRIFLUOROETHA	1.0	1.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L
M+P-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(80 - 123 %)	94	%
TOLUENE-D8	(88 - 124 %)	96	%
DIBROMOFLUOROMETHANE	(89 - 115 %)	92	%

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW-05

Lab Name: CASROCH Contract: URS
Lab Code: 10145 Case No.: R8-45071 SAS No.: SDG No.: MMW-01
Matrix: (soil/water) WATER Lab Sample ID: 1120245 1.0
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V5987.D
Level: (low/med) LOW Date Received: 07/23/08
% Moisture: not dec. Date Analyzed: 08/01/08
GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0
Soil Extract Volume (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B

Reported: 08/21/08

URS Corporation

Project Reference: PACTIV - MACEDON, NY

Client Sample ID : MMW-06(07/23/08)

Date Sampled : 07/23/08 10:55 Order #: 1120246

Sample Matrix: WATER

Date Received: 07/23/08 Submission #: R2845071

Analytical Run 165262

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/01/08			
ANALYTICAL DILUTION: 1.00			
ACETONE	10	10 ~~2.1 JB~~	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	5.0	5.0 U	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
CARBON DISULFIDE	1.0	1.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	21	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	2.0	2.0 U	UG/L
CYCLOHEXANE	1.0	1.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
1,3-DICHLOROBENZENE	1.0	1.0 U	UG/L
1,4-DICHLOROBENZENE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	1.0	1.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
2-HEXANONE	5.0	5.0 U	UG/L
ISOPROPYLBENZENE	1.0	1.0 U	UG/L
METHYL ACETATE	10	10 U	UG/L
METHYLCYCLOHEXANE	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	1.0	1.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	5.0	5.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	1.0	1.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L

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COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B

Reported: 08/21/08

URS Corporation

Project Reference: PACTIV - MACEDON, NY

Client Sample ID : MMW-06(07/23/08)

Date Sampled : 07/23/08 10:55 Order #: 1120246 Sample Matrix: WATER
Date Received: 07/23/08 Submission #: R2845071 Analytical Run 165262

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 08/01/08		
ANALYTICAL DILUTION:	1.00		
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLORO1,2,2-TRIFLUOROETHA	1.0	0.38 J	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L
M+P-XYLENE	1.0	1.0 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(80 - 123 %)	95	%
TOLUENE-D8	(88 - 124 %)	100	%
DIBROMOFLUOROMETHANE	(89 - 115 %)	91	%

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW-06

Lab Name: CASROCH Contract: URS
Lab Code: 10145 Case No.: R8-45071 SAS No.: _____ SDG No.: MMW-01
Matrix: (soil/water) WATER Lab Sample ID: 1120246 1.0
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V5999.D
Level: (low/med) LOW Date Received: 07/23/08
% Moisture: not dec. _____ Date Analyzed: 08/01/08
GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0
Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B

Reported: 08/21/08

URS Corporation

Project Reference: PACTIV - MACEDON, NY

Client Sample ID : MMW-07(07/24/08)

Date Sampled : 07/24/08 11:15 Order #: 1120696 Sample Matrix: WATER
 Date Received: 07/24/08 Submission #: R2845071 Analytical Run 165262

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/01/08			
ANALYTICAL DILUTION: 1.00			
ACETONE	10	10 1.2 JB 0	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	5.0	5.0 U	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
CARBON DISULFIDE	1.0	1.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	2.0	2.0 U	UG/L
CYCLOHEXANE	1.0	1.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
1,3-DICHLOROBENZENE	1.0	1.0 U	UG/L
1,4-DICHLOROBENZENE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	1.0	1.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
2-HEXANONE	5.0	5.0 U	UG/L
ISOPROPYLBENZENE	1.0	1.0 U	UG/L
METHYL ACETATE	10	10 U	UG/L
METHYLCYCLOHEXANE	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	1.0	1.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	5.0	5.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	1.0	1.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B

Reported: 08/21/08

URS Corporation

Project Reference: PACTIV - MACEDON, NY

Client Sample ID : MMW-07(07/24/08)

Date Sampled : 07/24/08 11:15 Order #: 1120696 Sample Matrix: WATER
Date Received: 07/24/08 Submission #: R2845071 Analytical Run 165262

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED	: 08/01/08		
ANALYTICAL DILUTION:	1.00		
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLORO1,2,2-TRIFLUOROETHA	1.0	1.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L
M+P-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIESQC LIMITS

4-BROMOFLUOROBENZENE	(80 - 123 %)	94	%
TOLUENE-D8	(88 - 124 %)	94	%
DIBROMOFLUOROMETHANE	(89 - 115 %)	94	%

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW-07

Lab Name: CASROCH Contract: URS
Lab Code: 10145 Case No.: R8-45071 SAS No.: _____ SDG No.: MMW-01
Matrix: (soil/water) WATER Lab Sample ID: 1120696 1.0
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V5989.D
Level: (low/med) LOW Date Received: 07/24/08
% Moisture: not dec. _____ Date Analyzed: 08/01/08
GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0
Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B

Reported: 08/21/08

URS Corporation

Project Reference: PACTIV - MACEDON, NY

Client Sample ID : MMW-08(07/24/08)

Date Sampled : 07/24/08 15:45 Order #: 1120697 Sample Matrix: WATER
 Date Received: 07/24/08 Submission #: R2845071 Analytical Run 165262

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/01/08			
ANALYTICAL DILUTION: 1.00			
ACETONE	10	10 3.8 JB U	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	5.0	5.0 U	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
CARBON DISULFIDE	1.0	1.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	2.0	2.0 U	UG/L
CYCLOHEXANE	1.0	1.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
1,3-DICHLOROBENZENE	1.0	1.0 U	UG/L
1,4-DICHLOROBENZENE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	1.0	1.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
2-HEXANONE	5.0	5.0 U	UG/L
ISOPROPYLBENZENE	1.0	1.0 U	UG/L
METHYL ACETATE	10	10 U	UG/L
METHYLCYCLOHEXANE	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	1.0	1.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	5.0	5.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	1.0	1.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	0.62 J	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L

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COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B

Reported: 08/21/08

URS Corporation

Project Reference: PACTIV - MACEDON, NY

Client Sample ID : MMW-08(07/24/08)

Date Sampled : 07/24/08 15:45 Order #: 1120697 Sample Matrix: WATER
Date Received: 07/24/08 Submission #: R2845071 Analytical Run 165262

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/01/08			
ANALYTICAL DILUTION: 1.00			
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLORO1,2,2-TRIFLUOROETHA	1.0	1.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L
M+P-XYLENE	1.0	1.0 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(80 - 123 %)	96	%
TOLUENE-D8	(88 - 124 %)	97	%
DIBROMOFLUOROMETHANE	(89 - 115 %)	90	%

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW-08

Lab Name: CASROCH Contract: URS
Lab Code: 10145 Case No.: R8-45071 SAS No.: _____ SDG No.: MMW-01
Matrix: (soil/water) WATER Lab Sample ID: 1120697 1.0
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V5990.D
Level: (low/med) LOW Date Received: 07/24/08
% Moisture: not dec. _____ Date Analyzed: 08/01/08
GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0
Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B

Reported: 08/21/08

URS Corporation

Project Reference: PACTIV - MACEDON, NY

Client Sample ID : MMW-09(07/24/08)

Date Sampled : 07/24/08 13:30 Order #: 1120698 Sample Matrix: WATER
 Date Received: 07/24/08 Submission #: R2845071 Analytical Run 165271

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/05/08			
ANALYTICAL DILUTION: 1.00			
ACETONE	10	10 U	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	5.0	5.0 U	UG/L
METHYL-TERT-BUTYL ETHER	1.0	22	UG/L
CARBON-DISULFIDE	1.0	1.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
2-DIBROMO-3-CHLOROPROPANE	2.0	2.0 U	UG/L
CYCLOHEXANE	1.0	1.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
1,3-DICHLOROBENZENE	1.0	1.0 U	UG/L
1,4-DICHLOROBENZENE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	1.0	1.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	2.0	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
2-HEXANONE	5.0	5.0 U	UG/L
ISOPROPYLBENZENE	1.0	1.0 U	UG/L
METHYL ACETATE	10	10 U	UG/L
METHYLCYCLOHEXANE	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	1.0	1.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	5.0	5.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	1.0	1.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L

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COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B

Reported: 08/21/08

URS Corporation

Project Reference: PACTIV - MACEDON, NY

Client Sample ID : MMW-09(07/24/08)

Date Sampled : 07/24/08 13:30 Order #: 1120698 Sample Matrix: WATER
Date Received: 07/24/08 Submission #: R2845071 Analytical Run 165271

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/05/08			
ANALYTICAL DILUTION: 1.00			
TRICHLOROFLUOROMETHANE	1.0	1.0 U ⁴	UG/L
1,1,2-TRICHLORO1,2,2-TRIFLUOROETHA	1.0	1.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L
M+P-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(80 - 123 %)	96	%
TOLUENE-D8	(88 - 124 %)	96	%
DIBROMOFLUOROMETHANE	(89 - 115 %)	91	%

9/10/08

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW-09

Lab Name: CASROCH Contract: URS
Lab Code: 10145 Case No.: R8-45071 SAS No.: _____ SDG No.: MMW-01
Matrix: (soil/water) WATER Lab Sample ID: 1120698 1.0
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V6039.D
Level: (low/med) LOW Date Received: 07/24/08
% Moisture: not dec. _____ Date Analyzed: 08/05/08
GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0
Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B

Reported: 08/21/08

URS Corporation

Project Reference: PACTIV - MACEDON, NY

Client Sample ID : MMW-10(07/24/08)

Date Sampled : 07/24/08 14:30 Order #: 1120699 Sample Matrix: WATER
Date Received: 07/24/08 Submission #: R2845071 Analytical Run 165262

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/01/08			
ANALYTICAL DILUTION: 1.00			
ACETONE	10	10 U	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	5.0	5.0 U	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
CARBON DISULFIDE	1.0	1.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	2.0	2.0 U	UG/L
CYCLOHEXANE	1.0	22	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
1,3-DICHLOROBENZENE	1.0	1.0 U	UG/L
1,4-DICHLOROBENZENE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	1.0	1.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	0.99 J	UG/L
2-HEXANONE	5.0	5.0 U	UG/L
ISOPROPYLBENZENE	1.0	1.0 U	UG/L
METHYL ACETATE	10	10 U	UG/L
METHYLCYCLOHEXANE	1.0	100	UG/L
METHYLENE CHLORIDE	1.0	1.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	5.0	5.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	1.0	1.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICESVOLATILE ORGANICS
METHOD 8260B
Reported: 08/21/08URS Corporation
Project Reference: PACTIV - MACEDON, NY
Client Sample ID : MMW-10(07/24/08)

Date Sampled : 07/24/08 14:30 Order #: 1120699 Sample Matrix: WATER
Date Received: 07/24/08 Submission #: R2845071 Analytical Run 165262

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/01/08			
ANALYTICAL DILUTION: 1.00			
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLORO1,2,2-TRIFLUOROETHA	1.0	1.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L
M+P-XYLENE	1.0	6.0	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(80 - 123 %)	95	%
TOLUENE-D8	(88 - 124 %)	98	%
DIBROMOFLUOROMETHANE	(89 - 115 %)	90	%

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW-10

Lab Name: CASROCH Contract: URS
Lab Code: 10145 Case No.: R8-45071 SAS No.: _____ SDG No.: MMW-01
Matrix: (soil/water) WATER Lab Sample ID: 1120699 1.0
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V5992.D
Level: (low/med) LOW Date Received: 07/24/08
% Moisture: not dec. _____ Date Analyzed: 08/01/08
GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0
Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 7 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown aliphatic hydrocarbon	7.39	12	J
2. 000589-34-4	Hexane, 3-methyl-	7.58	36	JN
3.	unknown cyclic hydrocarbon	7.92	23	J
4. 002532-58-3	Cyclopentane, 1,3-dimethyl-, cis-	8.01	11	JN
5. 002452-99-5	Cyclopentane, 1,2-dimethyl-	8.10	18	JN
6. 004850-28-6	Cyclopentane, 1,2,4-trimethyl-, (	9.70	8	JN
7.	unknown cyclic hydrocarbon	9.95	6	J

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B

Reported: 08/21/08

URS Corporation

Project Reference: PACTIV - MACEDON, NY

Client Sample ID : MP-01(07/24/08)

Date Sampled : 07/24/08 12:40 Order #: 1120700

Sample Matrix: WATER

Date Received: 07/24/08 Submission #: R2845071

Analytical Run 165262

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/01/08			
ANALYTICAL DILUTION: 1.00			
ACETONE	10	12	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	5.0	5.0 U	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
CARBON DISULFIDE	1.0	1.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
2-DIBROMO-3-CHLOROPROPANE	2.0	2.0 U	UG/L
CYCLOHEXANE	1.0	1.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
1,3-DICHLOROBENZENE	1.0	1.0 U	UG/L
1,4-DICHLOROBENZENE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	1.0	1.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
2-HEXANONE	5.0	5.0 U	UG/L
ISOPROPYLBENZENE	1.0	1.0 U	UG/L
METHYL ACETATE	10	10 U	UG/L
METHYLCYCLOHEXANE	1.0	1.1	UG/L
METHYLENE CHLORIDE	1.0	1.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	5.0	5.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	1.0	1.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B

Reported: 08/21/08

URS Corporation

Project Reference: PACTIV - MACEDON, NY

Client Sample ID : MP-01(07/24/08)

Date Sampled : 07/24/08 12:40 Order #: 1120700 Sample Matrix: WATER
Date Received: 07/24/08 Submission #: R2845071 Analytical Run 165262

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/01/08			
ANALYTICAL DILUTION: 1.00			
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLORO1,2,2-TRIFLUOROETHA	1.0	1.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L
M+P-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIESQC LIMITS

4-BROMOFLUOROBENZENE	(80 - 123 %)
TOLUENE-D8	(88 - 124 %)
DIBROMOFLUOROMETHANE	(89 - 115 %)

94	%
95	%
91	%

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MP-01

Lab Name: CASROCH Contract: URS
Lab Code: 10145 Case No.: R8-45071 SAS No.: _____ SDG No.: MMW-01
Matrix: (soil/water) WATER Lab Sample ID: 1120700 1.0
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V5993.D
Level: (low/med) LOW Date Received: 07/24/08
% Moisture: not dec. _____ Date Analyzed: 08/01/08
GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0
Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B
Reported: 08/21/08

URS Corporation
Project Reference: PACTIV - MACEDON, NY
Client Sample ID : TRIP BLANK(07/23/08)

Date Sampled : 07/23/08 Order #: 1121765 Sample Matrix: WATER
Date Received: 07/24/08 Submission #: R2845071 Analytical Run 165262

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/01/08			
ANALYTICAL DILUTION: 1.00			
ACETONE	10	10 U	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	5.0	5.0 U	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
CARBON DISULFIDE	1.0	1.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	2.0	2.0 U	UG/L
CYCLOHEXANE	1.0	1.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
1,3-DICHLOROBENZENE	1.0	1.0 U	UG/L
1,4-DICHLOROBENZENE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	1.0	1.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
2-HEXANONE	5.0	5.0 U	UG/L
ISOPROPYLBENZENE	1.0	1.0 U	UG/L
METHYL ACETATE	10	10 U	UG/L
METHYLCYCLOHEXANE	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	1.0	1.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	5.0	5.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	1.0	1.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B
Reported: 08/21/08

URS Corporation
Project Reference: PACTIV - MACEDON, NY
Client Sample ID : TRIP BLANK(07/23/08)

Date Sampled : 07/23/08 Order #: 1121765 Sample Matrix: WATER
Date Received: 07/24/08 Submission #: R2845071 Analytical Run 165262

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/01/08			
ANALYTICAL DILUTION: 1.00			
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLORO1,2,2-TRIFLUOROETHA	1.0	1.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L
M+P-XYLENE	1.0	1.0 U	UG/L

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
4-BROMOFLUOROBENZENE	(80 - 123 %)	95	%
TOLUENE-D8	(88 - 124 %)	97	%
DIBROMOFLUOROMETHANE	(89 - 115 %)	92	%

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TB072308

Lab Name: CASROCH Contract: URS
Lab Code: 10145 Case No.: R8-45071 SAS No.: _____ SDG No.: MMW-01
Matrix: (soil/water) WATER Lab Sample ID: 1121765 1.0 T
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V5995.D
Level: (low/med) LOW Date Received: 07/23/08
% Moisture: not dec. _____ Date Analyzed: 08/01/08
GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0
Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B

Reported: 08/21/08

URS Corporation

Project Reference: PACTIV - MACEDON, NY

Client Sample ID : TRIP BLANK(07/24/08)

Date Sampled : 07/24/08 : Order #: 1120701 Sample Matrix: WATER
Date Received: 07/24/08 Submission #: R2845071 Analytical Run 165262

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/01/08			
ANALYTICAL DILUTION: 1.00			
ACETONE	10	10 U	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	5.0	5.0 U	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
CARBON DISULFIDE	1.0	1.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	2.0	2.0 U	UG/L
CYCLOHEXANE	1.0	1.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
1,3-DICHLOROBENZENE	1.0	1.0 U	UG/L
1,4-DICHLOROBENZENE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	1.0	1.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
2-HEXANONE	5.0	5.0 U	UG/L
ISOPROPYLBENZENE	1.0	1.0 U	UG/L
METHYL ACETATE	10	10 U	UG/L
METHYLCYCLOHEXANE	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	1.0	1.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	5.0	5.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
1,2,2-TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	1.0	1.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD 8260B
Reported: 08/21/08

URS Corporation
Project Reference: PACTIV - MACEDON, NY
Client Sample ID : TRIP BLANK(07/24/08)

Date Sampled : 07/24/08 : Order #: 1120701 Sample Matrix: WATER
Date Received: 07/24/08 Submission #: R2845071 Analytical Run 165262

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/01/08			
ANALYTICAL DILUTION: 1.00			
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLORO1,2,2-TRIFLUOROETHA	1.0	1.0 U	UG/L
VINYL CHLORIDE	1.0	1.0 U	UG/L
O-XYLENE	1.0	1.0 U	UG/L
M+P-XYLENE	1.0	1.0 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
4-BROMOFLUOROBENZENE	(80 - 123 %)	95	%
TOLUENE-D8	(88 - 124 %)	98	%
DIBROMOFLUOROMETHANE	(89 - 115 %)	92	%

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TB072408

Lab Name: CASROCH Contract: URS
Lab Code: 10145 Case No.: R8-45071 SAS No.: _____ SDG No.: MMW-01
Matrix: (soil/water) WATER Lab Sample ID: 1120701 1.0 T
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V5994.D
Level: (low/med) LOW Date Received: 07/24/08
% Moisture: not dec. _____ Date Analyzed: 08/01/08
GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0
Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 08/21/08

URS Corporation
Project Reference: PACTIV - MACEDON, NY
Client Sample ID : SS-1(07/22/2008)

Date Sampled : 07/22/08 09:55 Order #: 1119951 Sample Matrix: SOIL/SEDIMENT
Date Received: 07/22/08 Submission #: R2845062 Percent Solid: 76.3

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/25/08			
DATE ANALYZED : 08/05/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
ACENAPHTHENE	330	63 J	UG/KG
ACENAPHTHYLENE	330	430 U	UG/KG
ACETOPHENONE	330	430 U	UG/KG
ANTHRACENE	330	160 J	UG/KG
ATRAZINE	330	430 U	UG/KG
BENZALDEHYDE	330	430 U	UG/KG
BENZO (A) ANTHRACENE	330	410 J	UG/KG
BENZO (A) PYRENE	330	390 J	UG/KG
BENZO (B) FLUORANTHENE	330	350 J	UG/KG
BENZO (G, H, I) PERYLENE	330	280 J	UG/KG
BENZO (K) FLUORANTHENE	330	370 J	UG/KG
1,1'-BIPHENYL	330	430 U	UG/KG
BUTYL BENZYL PHTHALATE	330	430 U	UG/KG
DI-N-BUTYLPHTHALATE	330	51 J	UG/KG
CAPROLACTAM	330	430 U	UG/KG
CARBAZOLE	330	68 J	UG/KG
INDENO (1,2,3-CD) PYRENE	330	250 J	UG/KG
4-CHLOROANILINE	330	430 U	UG/KG
BIS (-2-CHLOROETHOXY) METHANE	330	430 U	UG/KG
BIS (2-CHLOROETHYL) ETHER	330	430 U	UG/KG
2-CHLORONAPHTHALENE	330	430 U	UG/KG
2-CHLOROPHENOL	330	430 U	UG/KG
2,2'-OXYBIS (1-CHLOROPROPANE)	330	430 U	UG/KG
CHRYSENE	330	420 J	UG/KG
DIBENZO (A, H) ANTHRACENE	330	54 J	UG/KG
DIBENZOFURAN	330	430 U	UG/KG
3,3'-DICHLOROBENZIDINE	330	430 U	UG/KG
2,4-DICHLOROPHENOL	330	430 U	UG/KG
DIETHYLPHTHALATE	330	430 U	UG/KG
DIMETHYL PHTHALATE	330	430 U	UG/KG
2,4-DIMETHYLPHENOL	330	430 U	UG/KG
2,4-DINITROPHENOL	1700	2200 U	UG/KG
2,4-DINITROTOLUENE	330	430 U	UG/KG
2,6-DINITROTOLUENE	330	430 U	UG/KG
BIS (2-ETHYLHEXYL) PHTHALATE	330	160 J	UG/KG
FLUORANTHENE	330	890	UG/KG
FLUORENE	330	52 J	UG/KG
HEXACHLOROBENZENE	330	430 U	UG/KG
HEXACHLOROBUTADIENE	330	430 U	UG/KG
HEXACHLOROCYCLOPENTADIENE	330	430 U	UG/KG
HEXACHLOROETHANE	330	430 U	UG/KG
ISOPHORONE	330	430 U	UG/KG
2-METHYLNAPHTHALENE	330	430 U	UG/KG

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 08/21/08

URS Corporation

Project Reference: PACTIV - MACEDON, NY

Client Sample ID : SS-1(07/22/2008)

Date Sampled : 07/22/08 09:55 Order #: 1119951 Sample Matrix: SOIL/SEDIMENT
Date Received: 07/22/08 Submission #: R2845062 Percent Solid: 76.3

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/25/08			
DATE ANALYZED : 08/05/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
4,6-DINITRO-2-METHYLPHENOL	1700	2200 U	UG/KG
4-CHLORO-3-METHYLPHENOL	330	430 U	UG/KG
2-METHYLPHENOL	330	430 U	UG/KG
4-METHYLPHENOL	330	430 U	UG/KG
NAPHTHALENE	330	430 U	UG/KG
2-NITROANILINE	1700	2200 U	UG/KG
3-NITROANILINE	1700	2200 U	UG/KG
4-NITROANILINE	1700	2200 U	UG/KG
NITROBENZENE	330	430 U	UG/KG
2-NITROPHENOL	330	430 U	UG/KG
1-NITROPHENOL	1700	2200 U	UG/KG
NITROSODIPHENYLAMINE	330	430 U	UG/KG
DI-N-OCTYL PHTHALATE	330	430 U	UG/KG
PENTACHLOROPHENOL	1700	2200 U	UG/KG
PHENANTHRENE	330	550	UG/KG
PHENOL	330	430 U	UG/KG
4-BROMOPHENYL-PHENYLETHER	330	430 U	UG/KG
4-CHLOROPHENYL-PHENYLETHER	330	430 U	UG/KG
N-NITROSO-DI-N-PROPYLAMINE	330	430 U	UG/KG
PYRENE	330	710	UG/KG
2,4,6-TRICHLOROPHENOL	330	430 U	UG/KG
2,4,5-TRICHLOROPHENOL	330	430 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(48 - 131 %)	88	%
NITROBENZENE-d5	(27 - 130 %)	98	%
PHENOL-d6	(10 - 133 %)	97	%
2-FLUOROBIPHENYL	(32 - 130 %)	104	%
2-FLUOROPHENOL	(10 - 130 %)	100	%
2,4,6-TRIBROMOPHENOL	(33 - 139 %)	112	%

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SS-1(07/22/08)

Lab Name: CAS-ROCH Contract: URS

Lab Code: 10145 Case No.: R845062 SAS No.: _____ SDG No.: MW-10

Matrix: (soil/water) SOIL Lab Sample ID: 1119951 1.0

Sample wt/vol: 30 (g/ml) G Lab File ID: CY539.D

Level: (low/med) LOW Date Received: 7/22/08

% Moisture: 23.7 decanted: (Y/N) N Date Extracted: 7/25/08

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 8/5/08

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

Number TICs found: 9 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	~~unknown~~	~~2.72~~	~~300~~	~~J~~
2. 040487-42-1	Penoxaline	14.96	280	JN
3.	unknown hydrocarbon	19.57	270	J
4.	unknown	20.49	190	J
5.	unknown	20.95	3500	J
6.	unknown hydrocarbon	21.61	1800	J
7. 007390-81-0	Oxirane, hexadecyl-	23.62	830	JN
8.	unknown hydrocarbon	24.43	4800	J
9.	unknown hydrocarbon	27.19	1600	J

4/11/08

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 08/21/08

URS Corporation
Project Reference: PACTIV - MACEDON, NY
Client Sample ID : SS-2(07/22/2008)

Date Sampled : 07/22/08 10:27 Order #: 1119952 Sample Matrix: SOIL/SEDIMENT
Date Received: 07/22/08 Submission #: R2845062 Percent Solid: 74.4

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/25/08			
DATE ANALYZED : 08/05/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
ACENAPHTHENE	330	89 J	UG/KG
ACENAPHTHYLENE	330	440 U	UG/KG
ACETOPHENONE	330	440 U	UG/KG
ANTHRACENE	330	270 J	UG/KG
ATRAZINE	330	440 U	UG/KG
BENZALDEHYDE	330	440 U	UG/KG
BENZO (A) ANTHRACENE	330	620	UG/KG
BENZO (A) PYRENE	330	520	UG/KG
BENZO (B) FLUORANTHENE	330	500	UG/KG
BENZO (G, H, I) PERYLENE	330	320 J	UG/KG
BENZO (K) FLUORANTHENE	330	430 J	UG/KG
1'-BIPHENYL	330	440 U	UG/KG
BUTYL BENZYL PHTHALATE	330	440 U	UG/KG
DI-N-BUTYLPHTHALATE	330	55 J	UG/KG
CAPROLACTAM	330	440 U	UG/KG
CARBAZOLE	330	130 J	UG/KG
INDENO (1, 2, 3-CD) PYRENE	330	310 J	UG/KG
4-CHLOROANILINE	330	440 U	UG/KG
BIS (-2-CHLOROETHOXY) METHANE	330	440 U	UG/KG
BIS (2-CHLOROETHYL) ETHER	330	440 U	UG/KG
2-CHLORONAPHTHALENE	330	440 U	UG/KG
2-CHLOROPHENOL	330	440 U	UG/KG
2, 2'-OXYBIS (1-CHLOROPROPANE)	330	440 U	UG/KG
CHRYSENE	330	590	UG/KG
DIBENZO (A, H) ANTHRACENE	330	83 J	UG/KG
DIBENZOFURAN	330	440 U	UG/KG
3, 3'-DICHLOROBENZIDINE	330	440 U	UG/KG
2, 4-DICHLOROPHENOL	330	440 U	UG/KG
DIETHYLPHTHALATE	330	440 U	UG/KG
DIMETHYL PHTHALATE	330	440 U	UG/KG
2, 4-DIMETHYLPHENOL	330	440 U	UG/KG
2, 4-DINITROPHENOL	1700	2300 U	UG/KG
2, 4-DINITROTOLUENE	330	440 U	UG/KG
2, 6-DINITROTOLUENE	330	440 U	UG/KG
BIS (2-ETHYLHEXYL) PHTHALATE	330	200 J	UG/KG
FLUORANTHENE	330	1500	UG/KG
UORENE	330	86 J	UG/KG
HEXACHLOROBENZENE	330	440 U	UG/KG
HEXACHLOROBUTADIENE	330	440 U	UG/KG
HEXACHLOROCYCLOPENTADIENE	330	440 U	UG/KG
HEXACHLOROETHANE	330	440 U	UG/KG
ISOPHORONE	330	440 U	UG/KG
2-METHYLNAPHTHALENE	330	440 U	UG/KG

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8270C SEMIVOLATILES

Reported: 08/21/08

URS Corporation

Project Reference: PACTIV - MACEDON, NY

Client Sample ID : SS-2(07/22/2008)

Date Sampled : 07/22/08 10:27 Order #: 1119952 Sample Matrix: SOIL/SEDIMENT
 Date Received: 07/22/08 Submission #: R2845062 Percent Solid: 74.4

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/25/08			
DATE ANALYZED : 08/05/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
4,6-DINITRO-2-METHYLPHENOL	1700	2300 U	UG/KG
4-CHLORO-3-METHYLPHENOL	330	440 U	UG/KG
2-METHYLPHENOL	330	440 U	UG/KG
4-METHYLPHENOL	330	440 U	UG/KG
NAPHTHALENE	330	440 U	UG/KG
2-NITROANILINE	1700	2300 U	UG/KG
3-NITROANILINE	1700	2300 U	UG/KG
4-NITROANILINE	1700	2300 U	UG/KG
NITROBENZENE	330	440 U	UG/KG
2-NITROPHENOL	330	440 U	UG/KG
4-NITROPHENOL	1700	2300 U	UG/KG
N-NITROSODIPHENYLAMINE	330	440 U	UG/KG
DI-N-OCTYL PHTHALATE	330	440 U	UG/KG
PENTACHLOROPHENOL	1700	2300 U	UG/KG
PHENANTHRENE	330	980	UG/KG
PHENOL	330	440 U	UG/KG
4-BROMOPHENYL-PHENYLETHER	330	440 U	UG/KG
4-CHLOROPHENYL-PHENYLETHER	330	440 U	UG/KG
N-NITROSO-DI-N-PROPYLAMINE	330	440 U	UG/KG
PYRENE	330	1000	UG/KG
2,4,6-TRICHLOROPHENOL	330	440 U	UG/KG
2,4,5-TRICHLOROPHENOL	330	440 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(48 - 131 %)	95	%
NITROBENZENE-d5	(27 - 130 %)	93	%
PHENOL-d6	(10 - 133 %)	95	%
2-FLUOROBIPHENYL	(32 - 130 %)	90	%
2-FLUOROPHENOL	(10 - 130 %)	96	%
2,4,6-TRIBROMOPHENOL	(33 - 139 %)	112	%

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SS-2(07/22/08)

Lab Name: CAS-ROCH Contract: URS
 Lab Code: 10145 Case No.: R845062 SAS No.: SDG No.: MW-10
 Matrix: (soil/water) SOIL Lab Sample ID: 1119952 1.0
 Sample wt/vol: 30 (g/ml) G Lab File ID: CY540.D
 Level: (low/med) LOW Date Received: 7/22/08
 % Moisture: 25.6 decanted: (Y/N) N Date Extracted: 7/25/08
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 8/5/08
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

Number TICs found: 9 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	~~unknown~~	~~2.72~~	~~280~~	~~J B~~
2.	unknown	13.98	210	J
3. 000243-17-4	11H-Benzo[b]fluorene	16.44	200	JN
4. 067860-04-2	Oxirane, heptadecyl-	20.94	1900	JN
5.	unknown hydrocarbon	21.59	510	J
6.	unknown	22.01	270	J
7.	unknown	23.60	200	J
8.	unknown hydrocarbon	24.41	1300	J
9.	unknown	27.17	460	J

9/16/08

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 08/21/08

URS Corporation
Project Reference: PACTIV - MACEDON, NY
Client Sample ID : SS-3(07/22/2008)

Date Sampled : 07/22/08 10:47 Order #: 1119953 Sample Matrix: SOIL/SEDIMENT
Date Received: 07/22/08 Submission #: R2845062 Percent Solid: 76.1

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/25/08			
DATE ANALYZED : 08/05/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
ACENAPHTHENE	330	430 U	UG/KG
ACENAPHTHYLENE	330	430 U	UG/KG
ACETOPHENONE	330	430 U	UG/KG
ANTHRACENE	330	430 U	UG/KG
ATRAZINE	330	430 U	UG/KG
BENZALDEHYDE	330	430 U	UG/KG
BENZO (A) ANTHRACENE	330	140 J	UG/KG
BENZO (A) PYRENE	330	160 J	UG/KG
BENZO (B) FLUORANTHENE	330	140 J	UG/KG
BENZO (G, H, I) PERYLENE	330	120 J	UG/KG
BENZO (K) FLUORANTHENE	330	130 J	UG/KG
1,1'-BIPHENYL	330	430 U	UG/KG
BUTYL BENZYL PHTHALATE	330	430 U	UG/KG
DI-N-BUTYLPHTHALATE	330	88 J	UG/KG
CAPROLACTAM	330	430 U	UG/KG
CARBAZOLE	330	430 U	UG/KG
INDENO (1,2,3-CD) PYRENE	330	100 J	UG/KG
4-CHLOROANILINE	330	430 U	UG/KG
BIS (-2-CHLOROETHOXY) METHANE	330	430 U	UG/KG
BIS (2-CHLOROETHYL) ETHER	330	430 U	UG/KG
2-CHLORONAPHTHALENE	330	430 U	UG/KG
2-CHLOROPHENOL	330	430 U	UG/KG
2,2'-OXYBIS (1-CHLOROPROPANE)	330	430 U	UG/KG
CHRYSENE	330	170 J	UG/KG
DIBENZO (A, H) ANTHRACENE	330	430 U	UG/KG
DIBENZOFURAN	330	430 U	UG/KG
3,3'-DICHLOROBENZIDINE	330	430 U	UG/KG
2,4-DICHLOROPHENOL	330	430 U	UG/KG
DIETHYLPHTHALATE	330	430 U	UG/KG
DIMETHYL PHTHALATE	330	430 U	UG/KG
2,4-DIMETHYLPHENOL	330	430 U	UG/KG
2,4-DINITROPHENOL	1700	2200 U	UG/KG
2,4-DINITROTOLUENE	330	430 U	UG/KG
2,6-DINITROTOLUENE	330	430 U	UG/KG
BIS (2-ETHYLHEXYL) PHTHALATE	330	220 J	UG/KG
FLUORANTHENE	330	320 J	UG/KG
FLUORENE	330	430 U	UG/KG
HEXACHLOROBENZENE	330	430 U	UG/KG
HEXACHLOROBUTADIENE	330	430 U	UG/KG
HEXACHLOROCYCLOPENTADIENE	330	430 U	UG/KG
HEXACHLOROETHANE	330	430 U	UG/KG
ISOPHORONE	330	430 U	UG/KG
2-METHYLNAPHTHALENE	330	430 U	UG/KG

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 08/21/08

URS Corporation
Project Reference: PACTIV - MACEDON, NY
Client Sample ID : SS-3(07/22/2008)

Date Sampled : 07/22/08 10:47 Order #: 1119953 Sample Matrix: SOIL/SEDIMENT
Date Received: 07/22/08 Submission #: R2845062 Percent Solid: 76.1

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/25/08			
DATE ANALYZED : 08/05/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
4,6-DINITRO-2-METHYLPHENOL	1700	2200 U	UG/KG
4-CHLORO-3-METHYLPHENOL	330	430 U	UG/KG
2-METHYLPHENOL	330	430 U	UG/KG
4-METHYLPHENOL	330	430 U	UG/KG
NAPHTHALENE	330	430 U	UG/KG
2-NITROANILINE	1700	2200 U	UG/KG
3-NITROANILINE	1700	2200 U	UG/KG
4-NITROANILINE	1700	2200 U	UG/KG
NITROBENZENE	330	430 U	UG/KG
2-NITROPHENOL	330	430 U	UG/KG
4-NITROPHENOL	1700	2200 U	UG/KG
NITROSODIPHENYLAMINE	330	430 U	UG/KG
DI-N-OCTYL PHTHALATE	330	430 U	UG/KG
PENTACHLOROPHENOL	1700	2200 U	UG/KG
PHENANTHRENE	330	140 J	UG/KG
PHENOL	330	430 U	UG/KG
4-BROMOPHENYL-PHENYLETHER	330	430 U	UG/KG
4-CHLOROPHENYL-PHENYLETHER	330	430 U	UG/KG
N-NITROSO-DI-N-PROPYLAMINE	330	430 U	UG/KG
PYRENE	330	240 J	UG/KG
2,4,6-TRICHLOROPHENOL	330	430 U	UG/KG
2,4,5-TRICHLOROPHENOL	330	430 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(48 - 131 %)	91	%
NITROBENZENE-d5	(27 - 130 %)	94	%
PHENOL-d6	(10 - 133 %)	94	%
2-FLUOROBIPHENYL	(32 - 130 %)	101	%
2-FLUOROPHENOL	(10 - 130 %)	93	%
2,4,6-TRIBROMOPHENOL	(33 - 139 %)	115	%

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SS-3(07/22/08)

Lab Name: CAS-ROCH Contract: URS
Lab Code: 10145 Case No.: R845062 SAS No.: SDG No.: MW-10
Matrix: (soil/water) SOIL Lab Sample ID: 1119953 1.0
Sample wt/vol: 30 (g/ml) G Lab File ID: CY541.D
Level: (low/med) LOW Date Received: 7/22/08
% Moisture: 23.9 decanted: (Y/N) N Date Extracted: 7/25/08
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 8/5/08
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

Number TICs found: 8 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	~~unknown~~	~~2.73~~	~~310~~	~~J~~
2.	unknown	12.64	330	J
3.	unknown hydrocarbon	19.58	180	J
4. 067860-04-2	Oxirane, heptadecyl-	20.95	1900	JN
5.	unknown hydrocarbon	21.61	790	J
6.	unknown	23.62	470	J
7.	unknown hydrocarbon	24.44	1800	J
8.	unknown hydrocarbon	27.18	650	J

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 08/21/08

URS Corporation
Project Reference: PACTIV - MACEDON, NY
Client Sample ID : SS-4(07/22/2008)

Date Sampled : 07/22/08 11:35 Order #: 1119954 Sample Matrix: SOIL/SEDIMENT
Date Received: 07/22/08 Submission #: R2845062 Percent Solid: 91.2

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/25/08			
DATE ANALYZED : 08/06/08			
ANALYTICAL DILUTION: 10.00			Dry Weight
ACENAPHTHENE	330	3600 U	UG/KG
ACENAPHTHYLENE	330	3600 U	UG/KG
ACETOPHENONE	330	3600 U	UG/KG
ANTHRACENE	330	3600 U	UG/KG
ATRAZINE	330	3600 U	UG/KG
BENZALDEHYDE	330	3600 U	UG/KG
BENZO (A) ANTHRACENE	330	3600 U	UG/KG
BENZO (A) PYRENE	330	3600 U	UG/KG
BENZO (B) FLUORANTHENE	330	3600 U	UG/KG
BENZO (G, H, I) PERYLENE	330	3600 U	UG/KG
BENZO (K) FLUORANTHENE	330	3600 U	UG/KG
1'-BIPHENYL	330	3600 U	UG/KG
BUTYL BENZYL PHTHALATE	330	3600 U	UG/KG
DI-N-BUTYLPHTHALATE	330	3600 U	UG/KG
CAPROLACTAM	330	3600 U	UG/KG
CARBAZOLE	330	3600 U	UG/KG
INDENO (1, 2, 3-CD) PYRENE	330	3600 U	UG/KG
4-CHLOROANILINE	330	3600 U	UG/KG
BIS (-2-CHLOROETHOXY) METHANE	330	3600 U	UG/KG
BIS (2-CHLOROETHYL) ETHER	330	3600 U	UG/KG
2-CHLORONAPHTHALENE	330	3600 U	UG/KG
2-CHLOROPHENOL	330	3600 U	UG/KG
2, 2'-OXYBIS (1-CHLOROPROPANE)	330	3600 U	UG/KG
CHRYSENE	330	3600 U	UG/KG
DIBENZO (A, H) ANTHRACENE	330	3600 U	UG/KG
DIBENZOFURAN	330	3600 U	UG/KG
3, 3'-DICHLOROBENZIDINE	330	3600 U	UG/KG
2, 4-DICHLOROPHENOL	330	3600 U	UG/KG
DIETHYLPHTHALATE	330	3600 U	UG/KG
DIMETHYL PHTHALATE	330	3600 U	UG/KG
2, 4-DIMETHYLPHENOL	330	3600 U	UG/KG
2, 4-DINITROPHENOL	1700	19000 U J	UG/KG
2, 4-DINITROTOLUENE	330	3600 U	UG/KG
2, 6-DINITROTOLUENE	330	3600 U	UG/KG
BIS (2-ETHYLHEXYL) PHTHALATE	330	590 J	UG/KG
FLUORANTHENE	330	3600 U	UG/KG
UORENE	330	3600 U	UG/KG
HEXACHLOROBENZENE	330	3600 U	UG/KG
HEXACHLOROBUTADIENE	330	3600 U	UG/KG
HEXACHLOROCYCLOPENTADIENE	330	3600 U J	UG/KG
HEXACHLOROETHANE	330	3600 U	UG/KG
ISOPHORONE	330	3600 U	UG/KG
2-METHYLNAPHTHALENE	330	3600 U	UG/KG

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COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 08/21/08

URS Corporation
Project Reference: PACTIV - MACEDON, NY
Client Sample ID : SS-4(07/22/2008)

Date Sampled : 07/22/08 11:35 Order #: 1119954 Sample Matrix: SOIL/SEDIMENT
Date Received: 07/22/08 Submission #: R2845062 Percent Solid: 91.2

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/25/08			
DATE ANALYZED : 08/06/08			
ANALYTICAL DILUTION: 10.00			Dry Weight
4,6-DINITRO-2-METHYLPHENOL	1700	19000 U	UG/KG
4-CHLORO-3-METHYLPHENOL	330	3600 U	UG/KG
2-METHYLPHENOL	330	3600 U	UG/KG
4-METHYLPHENOL	330	3600 U	UG/KG
NAPHTHALENE	330	3600 U	UG/KG
2-NITROANILINE	1700	19000 U	UG/KG
3-NITROANILINE	1700	19000 U	UG/KG
4-NITROANILINE	1700	19000 U	UG/KG
NITROBENZENE	330	3600 U	UG/KG
2-NITROPHENOL	330	3600 U	UG/KG
4-NITROPHENOL	1700	19000 U	UG/KG
N-NITROSODIPHENYLAMINE	330	3600 U	UG/KG
DI-N-OCTYL PHTHALATE	330	3600 U	UG/KG
PENTACHLOROPHENOL	1700	19000 U	UG/KG
PHENANTHRENE	330	3600 U	UG/KG
PHENOL	330	3600 U	UG/KG
4-BROMOPHENYL-PHENYLETHER	330	3600 U	UG/KG
4-CHLOROPHENYL-PHENYLETHER	330	3600 U	UG/KG
N-NITROSO-DI-N-PROPYLAMINE	330	3600 U	UG/KG
PYRENE	330	3600 U	UG/KG
2,4,6-TRICHLOROPHENOL	330	3600 U	UG/KG
2,4,5-TRICHLOROPHENOL	330	3600 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(48 - 131 %)	77	%
NITROBENZENE-d5	(27 - 130 %)	65	%
PHENOL-d6	(10 - 133 %)	62	%
2-FLUOROBIPHENYL	(32 - 130 %)	83	%
2-FLUOROPHENOL	(10 - 130 %)	64	%
2,4,6-TRIBROMOPHENOL	(33 - 139 %)	88	%

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SS-4(07/22/08)

Lab Name: CAS-ROCH Contract: URS
Lab Code: 10145 Case No.: R845062 SAS No.: SDG No.: MW-10
Matrix: (soil/water) SOIL Lab Sample ID: 1119954 10
Sample wt/vol: 30 (g/ml) G Lab File ID: CY550.D
Level: (low/med) LOW Date Received: 7/22/08
% Moisture: 8.8 decanted: (Y/N) N Date Extracted: 7/25/08
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 8/6/08
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	19.88	2200	J

COLUMBIA ANALYTICAL SERVICESEXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 08/21/08URS Corporation
Project Reference: PACTIV - MACEDON, NY
Client Sample ID : MMW-8 8'-12'Date Sampled : 07/22/08 14:47 Order #: 1119958 Sample Matrix: SOIL/SEDIMENT
Date Received: 07/22/08 Submission #: R2845062 Percent Solid: 85.2

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/25/08			
DATE ANALYZED : 08/06/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
ACENAPHTHENE	330	390 U	UG/KG
ACENAPHTHYLENE	330	390 U	UG/KG
ACETOPHENONE	330	390 U	UG/KG
ANTHRACENE	330	390 U	UG/KG
ATRAZINE	330	390 U	UG/KG
BENZALDEHYDE	330	390 U	UG/KG
BENZO (A) ANTHRACENE	330	390 U	UG/KG
BENZO (A) PYRENE	330	390 U	UG/KG
BENZO (B) FLUORANTHENE	330	390 U	UG/KG
BENZO (G, H, I) PERYLENE	330	390 U	UG/KG
BENZO (K) FLUORANTHENE	330	390 U	UG/KG
1,1'-BIPHENYL	330	390 U	UG/KG
BUTYL BENZYL PHTHALATE	330	390 U	UG/KG
DI-N-BUTYLPHTHALATE	330	390 U	UG/KG
CAPROLACTAM	330	390 U	UG/KG
CARBAZOLE	330	390 U	UG/KG
INDENO (1,2,3-CD) PYRENE	330	390 U	UG/KG
4-CHLOROANILINE	330	390 U	UG/KG
BIS (-2-CHLOROETHOXY) METHANE	330	390 U	UG/KG
BIS (2-CHLOROETHYL) ETHER	330	390 U	UG/KG
2-CHLORONAPHTHALENE	330	390 U	UG/KG
2-CHLOROPHENOL	330	390 U	UG/KG
2,2'-OXYBIS (1-CHLOROPROPANE)	330	390 U	UG/KG
CHRYSENE	330	390 U	UG/KG
DIBENZO (A, H) ANTHRACENE	330	390 U	UG/KG
DIBENZOFURAN	330	390 U	UG/KG
3,3'-DICHLOROBENZIDINE	330	390 U	UG/KG
2,4-DICHLOROPHENOL	330	390 U	UG/KG
DIETHYLPHTHALATE	330	390 U	UG/KG
DIMETHYL PHTHALATE	330	390 U	UG/KG
2,4-DIMETHYLPHENOL	330	390 U	UG/KG
2,4-DINITROPHENOL	1700	2000 U J	UG/KG
2,4-DINITROTOLUENE	330	390 U	UG/KG
2,6-DINITROTOLUENE	330	390 U	UG/KG
BIS (2-ETHYLHEXYL) PHTHALATE	330	390 U	UG/KG
FLUORANTHENE	330	390 U	UG/KG
FLUORENE	330	390 U	UG/KG
HEXACHLOROBENZENE	330	390 U	UG/KG
HEXACHLOROBUTADIENE	330	390 U	UG/KG
HEXACHLOROCYCLOPENTADIENE	330	390 U J	UG/KG
HEXACHLOROETHANE	330	390 U	UG/KG
ISOPHORONE	330	390 U	UG/KG
2-METHYLNAPHTHALENE	330	390 U	UG/KG

9/11/08

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COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 08/21/08

URS Corporation

Project Reference: PACTIV - MACEDON, NY

Client Sample ID : MMW-8 8'-12'

Date Sampled : 07/22/08 14:47 Order #: 1119958 Sample Matrix: SOIL/SEDIMENT
Date Received: 07/22/08 Submission #: R2845062 Percent Solid: 85.2

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/25/08			
DATE ANALYZED : 08/06/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
4,6-DINITRO-2-METHYLPHENOL	1700	2000 U	UG/KG
4-CHLORO-3-METHYLPHENOL	330	390 U	UG/KG
2-METHYLPHENOL	330	390 U	UG/KG
4-METHYLPHENOL	330	390 U	UG/KG
NAPHTHALENE	330	390 U	UG/KG
2-NITROANILINE	1700	2000 U	UG/KG
3-NITROANILINE	1700	2000 U	UG/KG
4-NITROANILINE	1700	2000 U	UG/KG
NITROBENZENE	330	390 U	UG/KG
2-NITROPHENOL	330	390 U	UG/KG
4-NITROPHENOL	1700	2000 U	UG/KG
NITROSODIPHENYLAMINE	330	390 U	UG/KG
DI-N-OCTYL PHTHALATE	330	390 U	UG/KG
PENTACHLOROPHENOL	1700	2000 U	UG/KG
PHENANTHRENE	330	390 U	UG/KG
PHENOL	330	390 U	UG/KG
4-BROMOPHENYL-PHENYLETHER	330	390 U	UG/KG
4-CHLOROPHENYL-PHENYLETHER	330	390 U	UG/KG
N-NITROSO-DI-N-PROPYLAMINE	330	390 U	UG/KG
PYRENE	330	390 U	UG/KG
2,4,6-TRICHLOROPHENOL	330	390 U	UG/KG
2,4,5-TRICHLOROPHENOL	330	390 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(48 - 131 %)	107	%
NITROBENZENE-d5	(27 - 130 %)	84	%
PHENOL-d6	(10 - 133 %)	96	%
2-FLUOROBIPHENYL	(32 - 130 %)	88	%
2-FLUOROPHENOL	(10 - 130 %)	95	%
2,4,6-TRIBROMOPHENOL	(33 - 139 %)	122	%

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW-8 8'-12'

Lab Name: CAS-ROCH Contract: URS
Lab Code: 10145 Case No.: R845062 SAS No.: _____ SDG No.: MW-10
Matrix: (soil/water) SOIL Lab Sample ID: 1119958 1.0
Sample wt/vol: 30 (g/ml) G Lab File ID: CY552.D
Level: (low/med) LOW Date Received: 7/22/08
% Moisture: 14.8 decanted: (Y/N) N Date Extracted: 7/25/08
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 8/6/08
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
~~1.~~	~~unknown~~	~~2.70~~	~~340~~	~~JB~~

9/11/08

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 08/21/08

URS Corporation
Project Reference: PACTIV - MACEDON, NY
Client Sample ID : MMW-9 4'-8'

Date Sampled : 07/22/08 13:15 Order #: 1119957 Sample Matrix: SOIL/SEDIMENT
Date Received: 07/22/08 Submission #: R2845062 Percent Solid: 82.2

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/25/08			
DATE ANALYZED : 08/05/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
ACENAPHTHENE	330	400 U	UG/KG
ACENAPHTHYLENE	330	400 U	UG/KG
ACETOPHENONE	330	400 U	UG/KG
ANTHRACENE	330	400 U	UG/KG
ATRAZINE	330	400 U	UG/KG
BENZALDEHYDE	330	400 U	UG/KG
BENZO (A) ANTHRACENE	330	400 U	UG/KG
BENZO (A) PYRENE	330	400 U	UG/KG
BENZO (B) FLUORANTHENE	330	400 U	UG/KG
BENZO (G, H, I) PERYLENE	330	400 U	UG/KG
BENZO (K) FLUORANTHENE	330	400 U	UG/KG
1'-BIPHENYL	330	400 U	UG/KG
BUTYL BENZYL PHTHALATE	330	400 U	UG/KG
DI-N-BUTYLPHTHALATE	330	400 U	UG/KG
CAPROLACTAM	330	400 U	UG/KG
CARBAZOLE	330	400 U	UG/KG
INDENO (1, 2, 3-CD) PYRENE	330	400 U	UG/KG
4-CHLOROANILINE	330	400 U	UG/KG
BIS (-2-CHLOROETHOXY) METHANE	330	400 U	UG/KG
BIS (2-CHLOROETHYL) ETHER	330	400 U	UG/KG
2-CHLORONAPHTHALENE	330	400 U	UG/KG
2-CHLOROPHENOL	330	400 U	UG/KG
2, 2'-OXYBIS (1-CHLOROPROPANE)	330	400 U	UG/KG
CHRYSENE	330	400 U	UG/KG
DIBENZO (A, H) ANTHRACENE	330	400 U	UG/KG
DIBENZOFURAN	330	400 U	UG/KG
3, 3'-DICHLOBENZIDINE	330	400 U	UG/KG
2, 4-DICHLOROPHENOL	330	400 U	UG/KG
DIETHYLPHTHALATE	330	400 U	UG/KG
DIMETHYL PHTHALATE	330	400 U	UG/KG
2, 4-DIMETHYLPHENOL	330	400 U	UG/KG
2, 4-DINITROPHENOL	1700	2100 U	UG/KG
2, 4-DINITROTOLUENE	330	400 U	UG/KG
2, 6-DINITROTOLUENE	330	400 U	UG/KG
BIS (2-ETHYLHEXYL) PHTHALATE	330	400 U	UG/KG
FLUORANTHENE	330	400 U	UG/KG
INDORENE	330	400 U	UG/KG
HEXACHLORO BENZENE	330	400 U	UG/KG
HEXACHLOROBUTADIENE	330	400 U	UG/KG
HEXACHLOROCYCLOPENTADIENE	330	400 U	UG/KG
HEXACHLOROETHANE	330	400 U	UG/KG
ISOPHORONE	330	400 U	UG/KG
2-METHYLNAPHTHALENE	330	400 U	UG/KG

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 08/21/08

URS Corporation
Project Reference: PACTIV - MACEDON, NY
Client Sample ID : MMW-9 4'-8'

Date Sampled : 07/22/08 13:15 Order #: 1119957 Sample Matrix: SOIL/SEDIMENT
Date Received: 07/22/08 Submission #: R2845062 Percent Solid: 82.2

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/25/08			
DATE ANALYZED : 08/05/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
4,6-DINITRO-2-METHYLPHENOL	1700	2100 U	UG/KG
4-CHLORO-3-METHYLPHENOL	330	400 U	UG/KG
2-METHYLPHENOL	330	400 U	UG/KG
4-METHYLPHENOL	330	400 U	UG/KG
NAPHTHALENE	330	400 U	UG/KG
2-NITROANILINE	1700	2100 U	UG/KG
3-NITROANILINE	1700	2100 U	UG/KG
4-NITROANILINE	1700	2100 U	UG/KG
NITROBENZENE	330	400 U	UG/KG
2-NITROPHENOL	330	400 U	UG/KG
4-NITROPHENOL	1700	2100 U	UG/KG
N-NITROSODIPHENYLAMINE	330	400 U	UG/KG
DI-N-OCTYL PHTHALATE	330	400 U	UG/KG
PENTACHLOROPHENOL	1700	2100 U	UG/KG
PHENANTHRENE	330	400 U	UG/KG
PHENOL	330	400 U	UG/KG
4-BROMOPHENYL-PHENYLETHER	330	400 U	UG/KG
4-CHLOROPHENYL-PHENYLETHER	330	400 U	UG/KG
N-NITROSO-DI-N-PROPYLAMINE	330	400 U	UG/KG
PYRENE	330	400 U	UG/KG
2,4,6-TRICHLOROPHENOL	330	400 U	UG/KG
2,4,5-TRICHLOROPHENOL	330	400 U	UG/KG

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(48 - 131 %)	95	%
NITROBENZENE-d5	(27 - 130 %)	82	%
PHENOL-d6	(10 - 133 %)	87	%
2-FLUOROBIPHENYL	(32 - 130 %)	85	%
2-FLUOROPHENOL	(10 - 130 %)	88	%
2,4,6-TRIBROMOPHENOL	(33 - 139 %)	101	%

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW-9 4'-8'

Lab Name: CAS-ROCH Contract: URS
Lab Code: 10145 Case No.: R845062 SAS No.: _____ SDG No.: MW-10
Matrix: (soil/water) SOIL Lab Sample ID: 1119957 1.0
Sample wt/vol: 30 (g/ml) G Lab File ID: CY546.D
Level: (low/med) LOW Date Received: 7/22/08
% Moisture: 17.8 decanted: (Y/N) N Date Extracted: 7/25/08
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 8/5/08
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
~~1.~~	~~unknown~~	~~2.72~~	~~360~~	~~J6~~

9/11/08

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 08/21/08

URS Corporation
Project Reference: PACTIV - MACEDON, NY
Client Sample ID : MMW-10 4'-5.4'

Date Sampled : 07/22/08 10:34 Order #: 1119956 Sample Matrix: SOIL/SEDIMENT
Date Received: 07/22/08 Submission #: R2845062 Percent Solid: 79.4

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/25/08			
DATE ANALYZED : 08/05/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
ACENAPHTHENE	330	54 J	UG/KG
ACENAPHTHYLENE	330	130 J	UG/KG
ACETOPHENONE	330	420 U	UG/KG
ANTHRACENE	330	390 J	UG/KG
ATRAZINE	330	420 U	UG/KG
BENZALDEHYDE	330	420 U	UG/KG
BENZO (A) ANTHRACENE	330	880	UG/KG
BENZO (A) PYRENE	330	670	UG/KG
BENZO (B) FLUORANTHENE	330	580	UG/KG
BENZO (G, H, I) PERYLENE	330	330 J	UG/KG
BENZO (K) FLUORANTHENE	330	520	UG/KG
1,1'-BIPHENYL	330	420 U	UG/KG
BUTYL BENZYL PHTHALATE	330	420 U	UG/KG
DI-N-BUTYLPHTHALATE	330	130 J	UG/KG
CAPROLACTAM	330	420 U	UG/KG
CARBAZOLE	330	420 U	UG/KG
INDENO (1,2,3-CD) PYRENE	330	340 J	UG/KG
4-CHLOROANILINE	330	420 U	UG/KG
BIS (-2-CHLOROETHOXY) METHANE	330	420 U	UG/KG
BIS (2-CHLOROETHYL) ETHER	330	420 U	UG/KG
2-CHLORONAPHTHALENE	330	420 U	UG/KG
2-CHLOROPHENOL	330	420 U	UG/KG
2,2'-OXYBIS (1-CHLOROPROPANE)	330	420 U	UG/KG
CHRYSENE	330	690	UG/KG
DIBENZO (A, H) ANTHRACENE	330	92 J	UG/KG
DIBENZOFURAN	330	100 J	UG/KG
3,3'-DICHLOOROBENZIDINE	330	420 U	UG/KG
2,4-DICHLOROPHENOL	330	420 U	UG/KG
DIETHYLPHTHALATE	330	420 U	UG/KG
DIMETHYL PHTHALATE	330	420 U	UG/KG
2,4-DIMETHYLPHENOL	330	420 U	UG/KG
2,4-DINITROPHENOL	1700	2100 U	UG/KG
2,4-DINITROTOLUENE	330	420 U	UG/KG
2,6-DINITROTOLUENE	330	420 U	UG/KG
BIS (2-ETHYLHEXYL) PHTHALATE	330	450	UG/KG
FLUORANTHENE	330	1600	UG/KG
FLUORENE	330	130 J	UG/KG
HEXACHLOOROBENZENE	330	420 U	UG/KG
HEXACHLOOROBUTADIENE	330	420 U	UG/KG
HEXACHLOOROCYCLOPENTADIENE	330	420 U	UG/KG
HEXACHLOOROETHANE	330	420 U	UG/KG
ISOPHORONE	330	420 U	UG/KG
2-METHYLNAPHTHALENE	330	110 J	UG/KG

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 08/21/08

URS Corporation
Project Reference: PACTIV - MACEDON, NY
Client Sample ID : MMW-10 4'-5.4'

Date Sampled : 07/22/08 10:34 Order #: 1119956 Sample Matrix: SOIL/SEDIMENT
Date Received: 07/22/08 Submission #: R2845062 Percent Solid: 79.4

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/25/08			
DATE ANALYZED : 08/05/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
4,6-DINITRO-2-METHYLPHENOL	1700	2100 U	UG/KG
4-CHLORO-3-METHYLPHENOL	330	420 U	UG/KG
2-METHYLPHENOL	330	420 U	UG/KG
4-METHYLPHENOL	330	420 U	UG/KG
NAPHTHALENE	330	330 J	UG/KG
2-NITROANILINE	1700	2100 U	UG/KG
3-NITROANILINE	1700	2100 U	UG/KG
4-NITROANILINE	1700	2100 U	UG/KG
NITROBENZENE	330	420 U	UG/KG
2-NITROPHENOL	330	420 U	UG/KG
4-NITROPHENOL	1700	2100 U	UG/KG
NITROSODIPHENYLAMINE	330	420 U	UG/KG
DI-N-OCTYL PHTHALATE	330	420 U	UG/KG
PENTACHLOROPHENOL	1700	2100 U	UG/KG
PHENANTHRENE	330	910	UG/KG
PHENOL	330	420 U	UG/KG
4-BROMOPHENYL-PHENYLETHER	330	420 U	UG/KG
4-CHLOROPHENYL-PHENYLETHER	330	420 U	UG/KG
N-NITROSO-DI-N-PROPYLAMINE	330	420 U	UG/KG
PYRENE	330	1200	UG/KG
2,4,6-TRICHLOROPHENOL	330	420 U	UG/KG
2,4,5-TRICHLOROPHENOL	330	420 U	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
TERPHENYL-d14	(48 - 131 %)	87	%
NITROBENZENE-d5	(27 - 130 %)	81	%
PHENOL-d6	(10 - 133 %)	91	%
2-FLUOROBIPHENYL	(32 - 130 %)	86	%
2-FLUOROPHENOL	(10 - 130 %)	93	%
2,4,6-TRIBROMOPHENOL	(33 - 139 %)	104	%

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW-10 4'-5.4'

Lab Name: CAS-ROCH Contract: URS

Lab Code: 10145 Case No.: R845062 SAS No.: _____ SDG No.: MW-10

Matrix: (soil/water) SOIL Lab Sample ID: 1119956 1.0

Sample wt/vol: 30 (g/ml) G Lab File ID: CY545.D

Level: (low/med) LOW Date Received: 7/22/08

% Moisture: 20.6 decanted: (Y/N) N Date Extracted: 7/25/08

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 8/5/08

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

Number TICs found: 10 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	~~unknown~~	~~2.71~~	~~320~~	~~J S~~
2.	unknown pah	13.75	220	J
3.	unknown pah	13.81	320	J
4.	unknown pah	13.89	180	J
5.	unknown	13.99	420	J
6.	unknown pah	15.45	290	J
7. 000243-17-4	11H-Benzo[b]fluorene	16.46	460	JN
8. 033543-31-6	Fluoranthene, 2-methyl-	16.59	320	JN
9.	unknown	19.26	260	J
10.	unknown	20.13	180	J

7/11/08

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 08/21/08

URS Corporation
Project Reference: PACTIV - MACEDON, NY
Client Sample ID : MMW-01(07/23/08)

Date Sampled : 07/23/08 15:55 Order #: 1120241 Sample Matrix: WATER
Date Received: 07/23/08 Submission #: R2845071 Analytical Run 165121

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/28/08			
DATE ANALYZED : 08/05/08			
ANALYTICAL DILUTION: 1.02			
ACENAPHTHENE	10	10 U	UG/L
ACENAPHTHYLENE	10	10 U	UG/L
ACETOPHENONE	10	10 U	UG/L
ANTHRACENE	10	10 U	UG/L
ATRAZINE	10	10 U	UG/L
BENZALDEHYDE	10	10 U	UG/L
BENZO (A) ANTHRACENE	10	10 U	UG/L
BENZO (A) PYRENE	10	10 U	UG/L
BENZO (B) FLUORANTHENE	10	10 U	UG/L
BENZO (G, H, I) PERYLENE	10	10 U	UG/L
BENZO (K) FLUORANTHENE	10	10 U	UG/L
1'-BIPHENYL	10	10 U	UG/L
BUTYL BENZYL PHTHALATE	10	10 U	UG/L
DI-N-BUTYLPHTHALATE	10	10 U	UG/L
CAPROLACTAM	10	10 U	UG/L
CARBAZOLE	10	10 U	UG/L
INDENO (1, 2, 3-CD) PYRENE	10	10 U	UG/L
4-CHLOROANILINE	10	10 U	UG/L
BIS (-2-CHLOROETHOXY) METHANE	10	10 U	UG/L
BIS (2-CHLOROETHYL) ETHER	10	10 U	UG/L
2-CHLORONAPHTHALENE	10	10 U	UG/L
2-CHLOROPHENOL	10	10 U	UG/L
2, 2'-OXYBIS (1-CHLOROPROPANE)	10	10 U	UG/L
CHRYSENE	10	10 U	UG/L
DIBENZO (A, H) ANTHRACENE	10	10 U	UG/L
DIBENZOFURAN	10	10 U	UG/L
3, 3'-DICHLOROBENZIDINE	10	10 U	UG/L
2, 4-DICHLOROPHENOL	10	10 U	UG/L
DIETHYLPHTHALATE	10	10 U	UG/L
DIMETHYL PHTHALATE	10	10 U	UG/L
2, 4-DIMETHYLPHENOL	10	10 U	UG/L
2, 4-DINITROPHENOL	50	51 U	UG/L
2, 4-DINITROTOLUENE	10	10 U	UG/L
2, 6-DINITROTOLUENE	10	10 U	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	10	10 U	UG/L
FLUORANTHENE	10	10 U	UG/L
UORENE	10	10 U	UG/L
HEXACHLOROBENZENE	10	10 U	UG/L
HEXACHLOROBUTADIENE	10	10 U	UG/L
HEXACHLOROCYCLOPENTADIENE	10	10 U	UG/L
HEXACHLOROETHANE	10	10 U	UG/L
ISOPHORONE	10	10 U	UG/L
2-METHYLNAPHTHALENE	10	10 U	UG/L

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 08/21/08

URS Corporation
Project Reference: PACTIV - MACEDON, NY
Client Sample ID : MMW-01(07/23/08)

Date Sampled : 07/23/08 15:55 Order #: 1120241 Sample Matrix: WATER
Date Received: 07/23/08 Submission #: R2845071 Analytical Run 165121

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/28/08			
DATE ANALYZED : 08/05/08			
ANALYTICAL DILUTION: 1.02			
4,6-DINITRO-2-METHYLPHENOL	50	51 U	UG/L
4-CHLORO-3-METHYLPHENOL	10	10 U	UG/L
2-METHYLPHENOL	10	10 U	UG/L
4-METHYLPHENOL	10	10 U	UG/L
NAPHTHALENE	10	10 U	UG/L
2-NITROANILINE	50	51 U	UG/L
3-NITROANILINE	50	51 U	UG/L
4-NITROANILINE	50	51 U	UG/L
NITROBENZENE	10	10 U	UG/L
2-NITROPHENOL	10	10 U	UG/L
4-NITROPHENOL	50	51 U	UG/L
N-NITROSODIPHENYLAMINE	10	10 U	UG/L
DI-N-OCTYL PHTHALATE	10	10 U	UG/L
PENTACHLOROPHENOL	50	51 U	UG/L
PHENANTHRENE	10	10 U	UG/L
PHENOL	10	10 U	UG/L
4-BROMOPHENYL-PHENYLETHER	10	10 U	UG/L
4-CHLOROPHENYL-PHENYLETHER	10	10 U	UG/L
N-NITROSO-DI-N-PROPYLAMINE	10	10 U	UG/L
PYRENE	10	10 U	UG/L
2,4,6-TRICHLOROPHENOL	10	10 U	UG/L
2,4,5-TRICHLOROPHENOL	10	10 U	UG/L

SURROGATE RECOVERIESQC LIMITS

TERPHENYL-d14	(40 - 137 %)	77	%
NITROBENZENE-d5	(38 - 105 %)	64	%
PHENOL-d6	(10 - 69 %)	23	%
2-FLUOROBIPHENYL	(38 - 100 %)	68	%
2-FLUOROPHENOL	(17 - 74 %)	40	%
2,4,6-TRIBROMOPHENOL	(41 - 135 %)	75	%

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW -
01(07/23/08)

Lab Name: CAS-ROCH Contract: URS
Lab Code: 10145 Case No.: R845071 SAS No.: _____ SDG No.: MMW-01
Matrix: (soil/water) WATER Lab Sample ID: 1120241 1.02
Sample wt/vol: 980 (g/ml) ML Lab File ID: BT386.D
Level: (low/med) LOW Date Received: 7/23/08
% Moisture: _____ decanted: (Y/N) N Date Extracted: 7/28/08
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 8/5/08
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 8

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 08/21/08

URS Corporation
Project Reference: PACTIV - MACEDON, NY
Client Sample ID : MMW-02(07/23/08)

Date Sampled : 07/23/08 14:50 Order #: 1120242 Sample Matrix: WATER
Date Received: 07/23/08 Submission #: R2845071 Analytical Run 165121

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/28/08			
DATE ANALYZED : 08/05/08			
ANALYTICAL DILUTION: 1.12			
ACENAPHTHENE	10	11 U	UG/L
ACENAPHTHYLENE	10	11 U	UG/L
ACETOPHENONE	10	11 U	UG/L
ANTHRACENE	10	11 U	UG/L
ATRAZINE	10	11 U	UG/L
BENZALDEHYDE	10	11 U	UG/L
BENZO (A) ANTHRACENE	10	11 U	UG/L
BENZO (A) PYRENE	10	11 U	UG/L
BENZO (B) FLUORANTHENE	10	11 U	UG/L
BENZO (G, H, I) PERYLENE	10	11 U	UG/L
BENZO (K) FLUORANTHENE	10	11 U	UG/L
1,1'-BIPHENYL	10	11 U	UG/L
BUTYL BENZYL PHTHALATE	10	11 U	UG/L
DI-N-BUTYLPHTHALATE	10	11 U	UG/L
CAPROLACTAM	10	11 U	UG/L
CARBAZOLE	10	11 U	UG/L
INDENO (1,2,3-CD) PYRENE	10	11 U	UG/L
4-CHLOROANILINE	10	11 U	UG/L
BIS (-2-CHLOROETHOXY) METHANE	10	11 U	UG/L
BIS (2-CHLOROETHYL) ETHER	10	11 U	UG/L
2-CHLORONAPHTHALENE	10	11 U	UG/L
2-CHLOROPHENOL	10	11 U	UG/L
2,2'-OXYBIS (1-CHLOROPROPANE)	10	11 U	UG/L
CHRYSENE	10	11 U	UG/L
DIBENZO (A, H) ANTHRACENE	10	11 U	UG/L
DIBENZOFURAN	10	11 U	UG/L
3,3'-DICHLOROBENZIDINE	10	11 U	UG/L
2,4-DICHLOROPHENOL	10	11 U	UG/L
DIETHYLPHTHALATE	10	11 U	UG/L
DIMETHYL PHTHALATE	10	11 U	UG/L
2,4-DIMETHYLPHENOL	10	11 U	UG/L
2,4-DINITROPHENOL	50	56 U	UG/L
2,4-DINITROTOLUENE	10	11 U	UG/L
2,6-DINITROTOLUENE	10	11 U	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	10	11 U	UG/L
FLUORANTHENE	10	11 U	UG/L
FLUORENE	10	11 U	UG/L
HEXACHLOROBENZENE	10	11 U	UG/L
HEXACHLOROBUTADIENE	10	11 U	UG/L
HEXACHLOROCYCLOPENTADIENE	10	11 U	UG/L
HEXACHLOROETHANE	10	11 U	UG/L
ISOPHORONE	10	11 U	UG/L
2-METHYLNAPHTHALENE	10	11 U	UG/L

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 08/21/08

URS Corporation
Project Reference: PACTIV - MACEDON, NY
Client Sample ID : MMW-02(07/23/08)

Date Sampled : 07/23/08 14:50 Order #: 1120242 Sample Matrix: WATER
Date Received: 07/23/08 Submission #: R2845071 Analytical Run 165121

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/28/08			
DATE ANALYZED : 08/05/08			
ANALYTICAL DILUTION: 1.12			
4,6-DINITRO-2-METHYLPHENOL	50	56 U	UG/L
4-CHLORO-3-METHYLPHENOL	10	11 U	UG/L
2-METHYLPHENOL	10	11 U	UG/L
4-METHYLPHENOL	10	11 U	UG/L
NAPHTHALENE	10	11 U	UG/L
2-NITROANILINE	50	56 U	UG/L
3-NITROANILINE	50	56 U	UG/L
4-NITROANILINE	50	56 U	UG/L
NITROBENZENE	10	11 U	UG/L
2-NITROPHENOL	10	11 U	UG/L
NITROPHENOL	50	56 U	UG/L
NITROSODIPHENYLAMINE	10	11 U	UG/L
DI-N-OCTYL PHTHALATE	10	11 U	UG/L
PENTACHLOROPHENOL	50	56 U	UG/L
PHENANTHRENE	10	11 U	UG/L
PHENOL	10	11 U	UG/L
4-BROMOPHENYL-PHENYLETHER	10	11 U	UG/L
4-CHLOROPHENYL-PHENYLETHER	10	11 U	UG/L
N-NITROSO-DI-N-PROPYLAMINE	10	11 U	UG/L
PYRENE	10	11 U	UG/L
2,4,6-TRICHLOROPHENOL	10	11 U	UG/L
2,4,5-TRICHLOROPHENOL	10	11 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
TERPHENYL-d14	(40 - 137 %)	76	%
NITROBENZENE-d5	(38 - 105 %)	62	%
PHENOL-d6	(10 - 69 %)	23	%
2-FLUOROBIPHENYL	(38 - 100 %)	68	%
2-FLUOROPHENOL	(17 - 74 %)	38	%
2,4,6-TRIBROMOPHENOL	(41 - 135 %)	71	%

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW -
02(07/23/08)

Lab Name: CAS-ROCH Contract: URS
Lab Code: 10145 Case No.: R845071 SAS No.: _____ SDG No.: MMW-01
Matrix: (soil/water) WATER Lab Sample ID: 1120242 1.12
Sample wt/vol: 890 (g/ml) ML Lab File ID: BT387.D
Level: (low/med) LOW Date Received: 7/23/08
% Moisture: _____ decanted: (Y/N) N Date Extracted: 7/28/08
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 8/5/08
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 8

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8270C SEMIVOLATILES
 Reported: 08/21/08

URS Corporation
 Project Reference: PACTIV - MACEDON, NY
 Client Sample ID : MMW-03(07/23/08)

Date Sampled : 07/23/08 13:55 Order #: 1120243 Sample Matrix: WATER
 Date Received: 07/23/08 Submission #: R2845071 Analytical Run 165121

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/28/08			
DATE ANALYZED : 08/05/08			
ANALYTICAL DILUTION: 1.07			
ACENAPHTHENE	10	11 U	UG/L
ACENAPHTHYLENE	10	11 U	UG/L
ACETOPHENONE	10	11 U	UG/L
ANTHRACENE	10	11 U	UG/L
ATRAZINE	10	11 U	UG/L
BENZALDEHYDE	10	11 U	UG/L
BENZO (A) ANTHRACENE	10	11 U	UG/L
BENZO (A) PYRENE	10	11 U	UG/L
BENZO (B) FLUORANTHENE	10	11 U	UG/L
BENZO (G, H, I) PERYLENE	10	11 U	UG/L
BENZO (K) FLUORANTHENE	10	11 U	UG/L
1'-BIPHENYL	10	11 U	UG/L
BUTYL BENZYL PHTHALATE	10	11 U	UG/L
DI-N-BUTYLPHTHALATE	10	11 U	UG/L
CAPROLACTAM	10	11 U	UG/L
CARBAZOLE	10	11 U	UG/L
INDENO (1, 2, 3-CD) PYRENE	10	11 U	UG/L
4-CHLOROANILINE	10	11 U	UG/L
BIS (-2-CHLOROETHOXY) METHANE	10	11 U	UG/L
BIS (2-CHLOROETHYL) ETHER	10	11 U	UG/L
2-CHLORONAPHTHALENE	10	11 U	UG/L
2-CHLOROPHENOL	10	11 U	UG/L
2, 2'-OXYBIS (1-CHLOROPROPANE)	10	11 U	UG/L
CHRYSENE	10	11 U	UG/L
DIBENZO (A, H) ANTHRACENE	10	11 U	UG/L
DIBENZOFURAN	10	11 U	UG/L
3, 3'-DICHLOBENZIDINE	10	11 U	UG/L
2, 4-DICHLOROPHENOL	10	11 U	UG/L
DIETHYLPHTHALATE	10	11 U	UG/L
DIMETHYL PHTHALATE	10	11 U	UG/L
2, 4-DIMETHYLPHENOL	10	11 U	UG/L
2, 4-DINITROPHENOL	50	54 U	UG/L
2, 4-DINITROTOLUENE	10	11 U	UG/L
2, 6-DINITROTOLUENE	10	11 U	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	10	11 U	UG/L
FLUORANTHENE	10	11 U	UG/L
UORENE	10	11 U	UG/L
HEXACHLOROBENZENE	10	11 U	UG/L
HEXACHLOROBUTADIENE	10	11 U	UG/L
HEXACHLOROCYCLOPENTADIENE	10	11 U	UG/L
HEXACHLOROETHANE	10	11 U	UG/L
ISOPHORONE	10	11 U	UG/L
2-METHYLNAPHTHALENE	10	11 U	UG/L

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COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 08/21/08

URS Corporation
Project Reference: PACTIV - MACEDON, NY
Client Sample ID : MMW-03(07/23/08)

Date Sampled : 07/23/08 13:55 Order #: 1120243 Sample Matrix: WATER
Date Received: 07/23/08 Submission #: R2845071 Analytical Run 165121

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/28/08			
DATE ANALYZED : 08/05/08			
ANALYTICAL DILUTION: 1.07			
4,6-DINITRO-2-METHYLPHENOL	50	54 U	UG/L
4-CHLORO-3-METHYLPHENOL	10	11 U	UG/L
2-METHYLPHENOL	10	11 U	UG/L
4-METHYLPHENOL	10	11 U	UG/L
NAPHTHALENE	10	11 U	UG/L
2-NITROANILINE	50	54 U	UG/L
3-NITROANILINE	50	54 U	UG/L
4-NITROANILINE	50	54 U	UG/L
NITROBENZENE	10	11 U	UG/L
2-NITROPHENOL	10	11 U	UG/L
4-NITROPHENOL	50	54 U	UG/L
N-NITROSODIPHENYLAMINE	10	11 U	UG/L
DI-N-OCTYL PHTHALATE	10	11 U	UG/L
PENTACHLOROPHENOL	50	54 U	UG/L
PHENANTHRENE	10	11 U	UG/L
PHENOL	10	11 U	UG/L
4-BROMOPHENYL-PHENYLEETHER	10	11 U	UG/L
4-CHLOROPHENYL-PHENYLEETHER	10	11 U	UG/L
N-NITROSO-DI-N-PROPYLAMINE	10	11 U	UG/L
PYRENE	10	11 U	UG/L
2,4,6-TRICHLOROPHENOL	10	11 U	UG/L
2,4,5-TRICHLOROPHENOL	10	11 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(40 - 137 %)	73	%
NITROBENZENE-d5	(38 - 105 %)	67	%
PHENOL-d6	(10 - 69 %)	24	%
2-FLUOROBIPHENYL	(38 - 100 %)	68	%
2-FLUOROPHENOL	(17 - 74 %)	40	%
2,4,6-TRIBROMOPHENOL	(41 - 135 %)	81	%

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW
03(07/23/08)

Lab Name: CAS-ROCH Contract: URS
Lab Code: 10145 Case No.: R845071 SAS No.: _____ SDG No.: MMW-01
Matrix: (soil/water) WATER Lab Sample ID: 1120243 1.07
Sample wt/vol: 930 (g/ml) ML Lab File ID: BT388.D
Level: (low/med) LOW Date Received: 7/23/08
% Moisture: _____ decanted: (Y/N) N Date Extracted: 7/28/08
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 8/5/08
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 8

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 08/21/08URS Corporation
Project Reference: PACTIV - MACEDON, NY
Client Sample ID : MMW-04(07/23/08)Date Sampled : 07/23/08 12:30 Order #: 1120244 Sample Matrix: WATER
Date Received: 07/23/08 Submission #: R2845071 Analytical Run 165121

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/28/08			
DATE ANALYZED : 08/05/08			
ANALYTICAL DILUTION: 1.16			
ACENAPHTHENE	10	12 U	UG/L
ACENAPHTHYLENE	10	12 U	UG/L
ACETOPHENONE	10	12 U	UG/L
ANTHRACENE	10	12 U	UG/L
ATRAZINE	10	12 U	UG/L
BENZALDEHYDE	10	12 U	UG/L
BENZO (A) ANTHRACENE	10	12 U	UG/L
BENZO (A) PYRENE	10	12 U	UG/L
BENZO (B) FLUORANTHENE	10	12 U	UG/L
BENZO (G, H, I) PERYLENE	10	12 U	UG/L
BENZO (K) FLUORANTHENE	10	12 U	UG/L
1,1'-BIPHENYL	10	12 U	UG/L
BUTYL BENZYL PHTHALATE	10	12 U	UG/L
DI-N-BUTYL PHTHALATE	10	12 U	UG/L
CAPROLACTAM	10	12 U	UG/L
CARBAZOLE	10	12 U	UG/L
INDENO (1,2,3-CD) PYRENE	10	12 U	UG/L
4-CHLOROANILINE	10	12 U	UG/L
BIS (-2-CHLOROETHOXY) METHANE	10	12 U	UG/L
BIS (2-CHLOROETHYL) ETHER	10	12 U	UG/L
2-CHLORONAPHTHALENE	10	12 U	UG/L
2-CHLOROPHENOL	10	12 U	UG/L
2,2'-OXYBIS (1-CHLOROPROPANE)	10	12 U	UG/L
CHRYSENE	10	12 U	UG/L
DIBENZO (A, H) ANTHRACENE	10	12 U	UG/L
DIBENZOFURAN	10	12 U	UG/L
3,3'-DICHLOROBENZIDINE	10	12 U	UG/L
2,4-DICHLOROPHENOL	10	12 U	UG/L
DIETHYL PHTHALATE	10	12 U	UG/L
DIMETHYL PHTHALATE	10	12 U	UG/L
2,4-DIMETHYLPHENOL	10	12 U	UG/L
2,4-DINITROPHENOL	50	58 U	UG/L
2,4-DINITROTOLUENE	10	12 U	UG/L
2,6-DINITROTOLUENE	10	12 U	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	10	12 U	UG/L
FLUORANTHENE	10	12 U	UG/L
FLUORENE	10	12 U	UG/L
HEXACHLOROBENZENE	10	12 U	UG/L
HEXACHLOROBUTADIENE	10	12 U	UG/L
HEXACHLOROCYCLOPENTADIENE	10	12 U	UG/L
HEXACHLOROETHANE	10	12 U	UG/L
ISOPHORONE	10	12 U	UG/L
2-METHYLNAPHTHALENE	10	12 U	UG/L

COLUMBIA ANALYTICAL SERVICES**EXTRACTABLE ORGANICS**

METHOD 8270C SEMIVOLATILES

Reported: 08/21/08

URS Corporation

Project Reference: PACTIV - MACEDON, NY

Client Sample ID : MMW-04(07/23/08)

Date Sampled : 07/23/08 12:30 Order #: 1120244 Sample Matrix: WATER
Date Received: 07/23/08 Submission #: R2845071 Analytical Run 165121

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/28/08			
DATE ANALYZED : 08/05/08			
ANALYTICAL DILUTION: 1.16			
4,6-DINITRO-2-METHYLPHENOL	50	58 U	UG/L
4-CHLORO-3-METHYLPHENOL	10	12 U	UG/L
2-METHYLPHENOL	10	12 U	UG/L
4-METHYLPHENOL	10	12 U	UG/L
NAPHTHALENE	10	12 U	UG/L
2-NITROANILINE	50	58 U	UG/L
3-NITROANILINE	50	58 U	UG/L
4-NITROANILINE	50	58 U	UG/L
NITROBENZENE	10	12 U	UG/L
2-NITROPHENOL	10	12 U	UG/L
NITROPHENOL	50	58 U	UG/L
NITROSODIPHENYLAMINE	10	12 U	UG/L
DI-N-OCTYL PHTHALATE	10	12 U	UG/L
PENTACHLOROPHENOL	50	58 U	UG/L
PHENANTHRENE	10	12 U	UG/L
PHENOL	10	12 U	UG/L
4-BROMOPHENYL-PHENYLEETHER	10	12 U	UG/L
4-CHLOROPHENYL-PHENYLEETHER	10	12 U	UG/L
N-NITROSO-DI-N-PROPYLAMINE	10	12 U	UG/L
PYRENE	10	12 U	UG/L
2,4,6-TRICHLOROPHENOL	10	12 U	UG/L
2,4,5-TRICHLOROPHENOL	10	12 U	UG/L

SURROGATE RECOVERIESQC LIMITS

TERPHENYL-d14	(40 - 137 %)	80	%
NITROBENZENE-d5	(38 - 105 %)	68	%
PHENOL-d6	(10 - 69 %)	29	%
2-FLUOROBIPHENYL	(38 - 100 %)	71	%
2-FLUOROPHENOL	(17 - 74 %)	46	%
2,4,6-TRIBROMOPHENOL	(41 - 135 %)	76	%

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW-
04(07/23/08)

Lab Name: CAS-ROCH Contract: URS
Lab Code: 10145 Case No.: R845071 SAS No.: _____ SDG No.: MMW-01
Matrix: (soil/water) WATER Lab Sample ID: 1120244 1.16
Sample wt/vol: 860 (g/ml) ML Lab File ID: BT389.D
Level: (low/med) LOW Date Received: 7/23/08
% Moisture: _____ decanted: (Y/N) N Date Extracted: 7/28/08
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 8/5/08
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 8

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 08/21/08

URS Corporation
Project Reference: PACTIV - MACEDON, NY
Client Sample ID : MMW-05(07/23/08)

Date Sampled : 07/23/08 09:30 Order #: 1120245 Sample Matrix: WATER
Date Received: 07/23/08 Submission #: R2845071 Analytical Run 165121

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/28/08			
DATE ANALYZED : 08/05/08			
ANALYTICAL DILUTION: 1.00			
ACENAPHTHENE	10	10 U	UG/L
ACENAPHTHYLENE	10	10 U	UG/L
ACETOPHENONE	10	10 U	UG/L
ANTHRACENE	10	10 U	UG/L
ATRAZINE	10	10 U	UG/L
BENZALDEHYDE	10	10 U	UG/L
BENZO (A) ANTHRACENE	10	10 U	UG/L
BENZO (A) PYRENE	10	10 U	UG/L
BENZO (B) FLUORANTHENE	10	10 U	UG/L
BENZO (G, H, I) PERYLENE	10	10 U	UG/L
BENZO (K) FLUORANTHENE	10	10 U	UG/L
1'-BIPHENYL	10	10 U	UG/L
BUTYL BENZYL PHTHALATE	10	10 U	UG/L
DI-N-BUTYLPHTHALATE	10	10 U	UG/L
CAPROLACTAM	10	10 U	UG/L
CARBAZOLE	10	10 U	UG/L
INDENO (1, 2, 3-CD) PYRENE	10	10 U	UG/L
4-CHLOROANILINE	10	10 U	UG/L
BIS (-2-CHLOROETHOXY) METHANE	10	10 U	UG/L
BIS (2-CHLOROETHYL) ETHER	10	10 U	UG/L
2-CHLORONAPHTHALENE	10	10 U	UG/L
2-CHLOROPHENOL	10	10 U	UG/L
2, 2'-OXYBIS (1-CHLOROPROPANE)	10	10 U	UG/L
CHRYSENE	10	10 U	UG/L
DIBENZO (A, H) ANTHRACENE	10	10 U	UG/L
DIBENZOFURAN	10	10 U	UG/L
3, 3'-DICHLOROBENZIDINE	10	10 U	UG/L
2, 4-DICHLOROPHENOL	10	10 U	UG/L
DIETHYLPHTHALATE	10	10 U	UG/L
DIMETHYL PHTHALATE	10	10 U	UG/L
2, 4-DIMETHYLPHENOL	10	10 U	UG/L
2, 4-DINITROPHENOL	50	50 U	UG/L
2, 4-DINITROTOLUENE	10	10 U	UG/L
2, 6-DINITROTOLUENE	10	10 U	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	10	10 U	UG/L
FLUORANTHENE	10	10 U	UG/L
FLUORENE	10	10 U	UG/L
HEXACHLOROBENZENE	10	10 U	UG/L
HEXACHLOROBUTADIENE	10	10 U	UG/L
HEXACHLOROCYCLOPENTADIENE	10	10 U	UG/L
HEXACHLOROETHANE	10	10 U	UG/L
ISOPHORONE	10	10 U	UG/L
2-METHYLNAPHTHALENE	10	10 U	UG/L

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8270C SEMIVOLATILES

Reported: 08/21/08

URS Corporation

Project Reference: PACTIV - MACEDON, NY

Client Sample ID : MMW-05(07/23/08)

Date Sampled : 07/23/08 09:30 Order #: 1120245 Sample Matrix: WATER
Date Received: 07/23/08 Submission #: R2845071 Analytical Run 165121

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/28/08			
DATE ANALYZED : 08/05/08			
ANALYTICAL DILUTION: 1.00			
4,6-DINITRO-2-METHYLPHENOL	50	50 U	UG/L
4-CHLORO-3-METHYLPHENOL	10	10 U	UG/L
2-METHYLPHENOL	10	10 U	UG/L
4-METHYLPHENOL	10	10 U	UG/L
NAPHTHALENE	10	10 U	UG/L
2-NITROANILINE	50	50 U	UG/L
3-NITROANILINE	50	50 U	UG/L
4-NITROANILINE	50	50 U	UG/L
NITROBENZENE	10	10 U	UG/L
2-NITROPHENOL	10	10 U	UG/L
4-NITROPHENOL	50	50 U	UG/L
N-NITROSODIPHENYLAMINE	10	10 U	UG/L
DI-N-OCTYL PHTHALATE	10	10 U	UG/L
PENTACHLOROPHENOL	50	50 U	UG/L
PHENANTHRENE	10	10 U	UG/L
PHENOL	10	10 U	UG/L
4-BROMOPHENYL-PHENYLEETHER	10	10 U	UG/L
4-CHLOROPHENYL-PHENYLEETHER	10	10 U	UG/L
N-NITROSO-DI-N-PROPYLAMINE	10	10 U	UG/L
PYRENE	10	10 U	UG/L
2,4,6-TRICHLOROPHENOL	10	10 U	UG/L
2,4,5-TRICHLOROPHENOL	10	10 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(40 - 137 %)	78	%
NITROBENZENE-d5	(38 - 105 %)	71	%
PHENOL-d6	(10 - 69 %)	25	%
2-FLUOROBIPHENYL	(38 - 100 %)	73	%
2-FLUOROPHENOL	(17 - 74 %)	43	%
2,4,6-TRIBROMOPHENOL	(41 - 135 %)	84	%

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW -
05(07/23/08)

Lab Name: CAS-ROCH Contract: URS
Lab Code: 10145 Case No.: R845071 SAS No.: _____ SDG No.: MMW-01
Matrix: (soil/water) WATER Lab Sample ID: 1120245 1.0
Sample wt/vol: 1000 (g/ml) ML Lab File ID: BT390.D
Level: (low/med) LOW Date Received: 7/23/08
% Moisture: _____ decanted: (Y/N) N Date Extracted: 7/28/08
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 8/5/08
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 8

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 002216-15-1	N,N-Diethyl-p-nitroaniline	14.52	8	JN

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8270C SEMIVOLATILES
 Reported: 08/21/08

URS Corporation
 Project Reference: PACTIV - MACEDON, NY
 Client Sample ID : MMW-06(07/23/08)

Date Sampled : 07/23/08 10:55 Order #: 1120246 Sample Matrix: WATER
 Date Received: 07/23/08 Submission #: R2845071 Analytical Run 165121

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/28/08			
DATE ANALYZED : 08/05/08			
ANALYTICAL DILUTION: 0.94			
ACENAPHTHENE	10	9.4 U	UG/L
ACENAPHTHYLENE	10	9.4 U	UG/L
ACETOPHENONE	10	9.4 U	UG/L
ANTHRACENE	10	9.4 U	UG/L
ATRAZINE	10	9.4 U	UG/L
BENZALDEHYDE	10	9.4 U	UG/L
BENZO (A) ANTHRACENE	10	9.4 U	UG/L
BENZO (A) PYRENE	10	9.4 U	UG/L
BENZO (B) FLUORANTHENE	10	9.4 U	UG/L
BENZO (G, H, I) PERYLENE	10	9.4 U	UG/L
BENZO (K) FLUORANTHENE	10	9.4 U	UG/L
1,1'-BIPHENYL	10	9.4 U	UG/L
BUTYL BENZYL PHTHALATE	10	9.4 U	UG/L
DI-N-BUTYLPHTHALATE	10	9.4 U	UG/L
CAPROLACTAM	10	9.4 U	UG/L
CARBAZOLE	10	9.4 U	UG/L
INDENO (1,2,3-CD) PYRENE	10	9.4 U	UG/L
4-CHLOROANILINE	10	9.4 U	UG/L
BIS (-2-CHLOROETHOXY) METHANE	10	9.4 U	UG/L
BIS (2-CHLOROETHYL) ETHER	10	9.4 U	UG/L
2-CHLORONAPHTHALENE	10	9.4 U	UG/L
2-CHLOROPHENOL	10	9.4 U	UG/L
2,2'-OXYBIS (1-CHLOROPROPANE)	10	9.4 U	UG/L
CHRYSENE	10	9.4 U	UG/L
DIBENZO (A, H) ANTHRACENE	10	9.4 U	UG/L
DIBENZOFURAN	10	9.4 U	UG/L
3,3'-DICHLOROBENZIDINE	10	9.4 U	UG/L
2,4-DICHLOROPHENOL	10	9.4 U	UG/L
DIETHYLPHTHALATE	10	9.4 U	UG/L
DIMETHYL PHTHALATE	10	9.4 U	UG/L
2,4-DIMETHYLPHENOL	10	9.4 U	UG/L
2,4-DINITROPHENOL	50	47 U	UG/L
2,4-DINITROTOLUENE	10	9.4 U	UG/L
2,6-DINITROTOLUENE	10	9.4 U	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	10	9.4 U	UG/L
FLUORANTHENE	10	9.4 U	UG/L
FLUORENE	10	9.4 U	UG/L
HEXACHLOROBENZENE	10	9.4 U	UG/L
HEXACHLOROBUTADIENE	10	9.4 U	UG/L
HEXACHLOROCYCLOPENTADIENE	10	9.4 U	UG/L
HEXACHLOROETHANE	10	9.4 U	UG/L
ISOPHORONE	10	9.4 U	UG/L
2-METHYLNAPHTHALENE	10	9.4 U	UG/L

00421

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 08/21/08

URS Corporation
Project Reference: PACTIV - MACEDON, NY
Client Sample ID : MMW-06(07/23/08)

Date Sampled : 07/23/08 10:55 Order #: 1120246 Sample Matrix: WATER
Date Received: 07/23/08 Submission #: R2845071 Analytical Run 165121

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/28/08			
DATE ANALYZED : 08/05/08			
ANALYTICAL DILUTION: 0.94			
4,6-DINITRO-2-METHYLPHENOL	50	47 U	UG/L
4-CHLORO-3-METHYLPHENOL	10	9.4 U	UG/L
2-METHYLPHENOL	10	9.4 U	UG/L
4-METHYLPHENOL	10	9.4 U	UG/L
NAPHTHALENE	10	9.4 U	UG/L
2-NITROANILINE	50	47 U	UG/L
3-NITROANILINE	50	47 U	UG/L
4-NITROANILINE	50	47 U	UG/L
NITROBENZENE	10	9.4 U	UG/L
2-NITROPHENOL	10	9.4 U	UG/L
4-NITROPHENOL	50	47 U	UG/L
NITROSODIPHENYLAMINE	10	9.4 U	UG/L
DI-N-OCTYL PHTHALATE	10	9.4 U	UG/L
PENTACHLOROPHENOL	50	47 U	UG/L
PHENANTHRENE	10	9.4 U	UG/L
PHENOL	10	9.4 U	UG/L
4-BROMOPHENYL-PHENYLETHER	10	9.4 U	UG/L
4-CHLOROPHENYL-PHENYLETHER	10	9.4 U	UG/L
N-NITROSO-DI-N-PROPYLAMINE	10	9.4 U	UG/L
PYRENE	10	9.4 U	UG/L
2,4,6-TRICHLOROPHENOL	10	9.4 U	UG/L
2,4,5-TRICHLOROPHENOL	10	9.4 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(40 - 137 %)	73	%
NITROBENZENE-d5	(38 - 105 %)	71	%
PHENOL-d6	(10 - 69 %)	24	%
2-FLUOROBIPHENYL	(38 - 100 %)	71	%
2-FLUOROPHENOL	(17 - 74 %)	41	%
2,4,6-TRIBROMOPHENOL	(41 - 135 %)	77	%

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW-
06(7/23/08)

Lab Name: CAS-ROCH Contract: URS
Lab Code: 10145 Case No.: R845071 SAS No.: _____ SDG No.: MMW-01
Matrix: (soil/water) WATER Lab Sample ID: 1120246 0.94
Sample wt/vol: 1060 (g/ml) ML Lab File ID: BT391.D
Level: (low/med) LOW Date Received: 7/23/08
% Moisture: _____ decanted: (Y/N) N Date Extracted: 7/28/08
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 8/5/08
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 8

CONCENTRATION UNITS:

Number TICs found: 0(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 08/21/08

URS Corporation
Project Reference: PACTIV - MACEDON, NY
Client Sample ID : MMW-07(07/24/08)

Date Sampled : 07/24/08 11:15 Order #: 1120696 Sample Matrix: WATER
Date Received: 07/24/08 Submission #: R2845071 Analytical Run 165121

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/28/08			
DATE ANALYZED : 08/05/08			
ANALYTICAL DILUTION: 0.95			
ACENAPHTHENE	10	9.5 U	UG/L
ACENAPHTHYLENE	10	9.5 U	UG/L
ACETOPHENONE	10	9.5 U	UG/L
ANTHRACENE	10	9.5 U	UG/L
ATRAZINE	10	9.5 U	UG/L
BENZALDEHYDE	10	9.5 U	UG/L
BENZO (A) ANTHRACENE	10	9.5 U	UG/L
BENZO (A) PYRENE	10	9.5 U	UG/L
BENZO (B) FLUORANTHENE	10	9.5 U	UG/L
BENZO (G, H, I) PERYLENE	10	9.5 U	UG/L
BENZO (K) FLUORANTHENE	10	9.5 U	UG/L
1'-BIPHENYL	10	9.5 U	UG/L
BUTYL BENZYL PHTHALATE	10	9.5 U	UG/L
DI-N-BUTYLPHTHALATE	10	9.5 U	UG/L
CAPROLACTAM	10	9.5 U	UG/L
CARBAZOLE	10	9.5 U	UG/L
INDENO (1, 2, 3-CD) PYRENE	10	9.5 U	UG/L
4-CHLOROANILINE	10	9.5 U	UG/L
BIS (-2-CHLOROETHOXY) METHANE	10	9.5 U	UG/L
BIS (2-CHLOROETHYL) ETHER	10	9.5 U	UG/L
2-CHLORONAPHTHALENE	10	9.5 U	UG/L
2-CHLOROPHENOL	10	9.5 U	UG/L
2, 2'-OXYBIS (1-CHLOROPROPANE)	10	9.5 U	UG/L
CHRYSENE	10	9.5 U	UG/L
DIBENZO (A, H) ANTHRACENE	10	9.5 U	UG/L
DIBENZOFURAN	10	9.5 U	UG/L
3, 3'-DICHLOROBENZIDINE	10	9.5 U	UG/L
2, 4-DICHLOROPHENOL	10	9.5 U	UG/L
DIETHYLPHTHALATE	10	9.5 U	UG/L
DIMETHYL PHTHALATE	10	9.5 U	UG/L
2, 4-DIMETHYLPHENOL	10	9.5 U	UG/L
2, 4-DINITROPHENOL	50	48 U	UG/L
2, 4-DINITROTOLUENE	10	9.5 U	UG/L
2, 6-DINITROTOLUENE	10	9.5 U	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	10	9.5 U	UG/L
FLUORANTHENE	10	9.5 U	UG/L
INDANE	10	9.5 U	UG/L
HEXACHLOROBENZENE	10	9.5 U	UG/L
HEXACHLOROBUTADIENE	10	9.5 U	UG/L
HEXACHLOROCYCLOPENTADIENE	10	9.5 U	UG/L
HEXACHLOROETHANE	10	9.5 U	UG/L
ISOPHORONE	10	9.5 U	UG/L
2-METHYLNAPHTHALENE	10	9.5 U	UG/L

COLUMBIA ANALYTICAL SERVICESEXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 08/21/08URS Corporation
Project Reference: PACTIV - MACEDON, NY
Client Sample ID : MMW-07(07/24/08)Date Sampled : 07/24/08 11:15 Order #: 1120696 Sample Matrix: WATER
Date Received: 07/24/08 Submission #: R2845071 Analytical Run 165121

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/28/08			
DATE ANALYZED : 08/05/08			
ANALYTICAL DILUTION: 0.95			
4,6-DINITRO-2-METHYLPHENOL	50	48 U	UG/L
4-CHLORO-3-METHYLPHENOL	10	9.5 U	UG/L
2-METHYLPHENOL	10	9.5 U	UG/L
4-METHYLPHENOL	10	9.5 U	UG/L
NAPHTHALENE	10	9.5 U	UG/L
2-NITROANILINE	50	48 U	UG/L
3-NITROANILINE	50	48 U	UG/L
4-NITROANILINE	50	48 U	UG/L
NITROBENZENE	10	9.5 U	UG/L
2-NITROPHENOL	10	9.5 U	UG/L
4-NITROPHENOL	50	48 U	UG/L
N-NITROSODIPHENYLAMINE	10	9.5 U	UG/L
DI-N-OCTYL PHTHALATE	10	9.5 U	UG/L
PENTACHLOROPHENOL	50	48 U	UG/L
PHENANTHRENE	10	9.5 U	UG/L
PHENOL	10	9.5 U	UG/L
4-BROMOPHENYL-PHENYLEETHER	10	9.5 U	UG/L
4-CHLOROPHENYL-PHENYLEETHER	10	9.5 U	UG/L
N-NITROSO-DI-N-PROPYLAMINE	10	9.5 U	UG/L
PYRENE	10	9.5 U	UG/L
2,4,6-TRICHLOROPHENOL	10	9.5 U	UG/L
2,4,5-TRICHLOROPHENOL	10	9.5 U	UG/L

SURROGATE RECOVERIESQC LIMITS

TERPHENYL-d14	(40 - 137 %)	82	%
NITROBENZENE-d5	(38 - 105 %)	71	%
PHENOL-d6	(10 - 69 %)	25	%
2-FLUOROBIPHENYL	(38 - 100 %)	70	%
2-FLUOROPHENOL	(17 - 74 %)	43	%
2,4,6-TRIBROMOPHENOL	(41 - 135 %)	84	%

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW
07(07/24/08)

Lab Name: CAS-ROCH Contract: URS
Lab Code: 10145 Case No.: R845071 SAS No.: _____ SDG No.: MMW-01
Matrix: (soil/water) WATER Lab Sample ID: 1120696 0.95
Sample wt/vol: 1050 (g/ml) ML Lab File ID: BT394.D
Level: (low/med) LOW Date Received: 7/24/08
% Moisture: _____ decanted: (Y/N) N Date Extracted: 7/28/08
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 8/5/08
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 8

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 08/21/08

URS Corporation
Project Reference: PACTIV - MACEDON, NY
Client Sample ID : MMW-08(07/24/08)

Date Sampled : 07/24/08 15:45 Order #: 1120697 Sample Matrix: WATER
Date Received: 07/24/08 Submission #: R2845071 Analytical Run 165121

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/28/08			
DATE ANALYZED : 08/05/08			
ANALYTICAL DILUTION: 1.15			
ACENAPHTHENE	10	12 U	UG/L
ACENAPHTHYLENE	10	12 U	UG/L
ACETOPHENONE	10	12 U	UG/L
ANTHRACENE	10	12 U	UG/L
ATRAZINE	10	12 U	UG/L
BENZALDEHYDE	10	12 U	UG/L
BENZO (A) ANTHRACENE	10	12 U	UG/L
BENZO (A) PYRENE	10	12 U	UG/L
BENZO (B) FLUORANTHENE	10	12 U	UG/L
BENZO (G, H, I) PERYLENE	10	12 U	UG/L
BENZO (K) FLUORANTHENE	10	12 U	UG/L
1,1'-BIPHENYL	10	12 U	UG/L
BUTYL BENZYL PHTHALATE	10	12 U	UG/L
DI-N-BUTYLPHTHALATE	10	1.5 J	UG/L
CAPROLACTAM	10	12 U	UG/L
CARBAZOLE	10	12 U	UG/L
INDENO (1, 2, 3-CD) PYRENE	10	12 U	UG/L
4-CHLOROANILINE	10	12 U	UG/L
BIS (-2-CHLOROETHOXY) METHANE	10	12 U	UG/L
BIS (2-CHLOROETHYL) ETHER	10	12 U	UG/L
2-CHLORONAPHTHALENE	10	12 U	UG/L
2-CHLOROPHENOL	10	12 U	UG/L
2,2'-OXYBIS (1-CHLOROPROPANE)	10	12 U	UG/L
CHRYSENE	10	12 U	UG/L
DIBENZO (A, H) ANTHRACENE	10	12 U	UG/L
DIBENZOFURAN	10	12 U	UG/L
3,3'-DICHLOROBENZIDINE	10	12 U	UG/L
2,4-DICHLOROPHENOL	10	12 U	UG/L
DIETHYLPHTHALATE	10	12 U	UG/L
DIMETHYL PHTHALATE	10	12 U	UG/L
2,4-DIMETHYLPHENOL	10	12 U	UG/L
2,4-DINITROPHENOL	50	57 U	UG/L
2,4-DINITROTOLUENE	10	12 U	UG/L
2,6-DINITROTOLUENE	10	12 U	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	10	12 U	UG/L
FLUORANTHENE	10	12 U	UG/L
FLUORENE	10	12 U	UG/L
HEXACHLOROBENZENE	10	12 U	UG/L
HEXACHLOROBUTADIENE	10	12 U	UG/L
HEXACHLOROCYCLOPENTADIENE	10	12 U	UG/L
HEXACHLOROETHANE	10	12 U	UG/L
ISOPHORONE	10	12 U	UG/L
2-METHYLNAPHTHALENE	10	12 U	UG/L

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 08/21/08

URS Corporation

Project Reference: PACTIV - MACEDON, NY

Client Sample ID : MMW-08(07/24/08)

Date Sampled : 07/24/08 15:45 Order #: 1120697 Sample Matrix: WATER
Date Received: 07/24/08 Submission #: R2845071 Analytical Run 165121

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/28/08			
DATE ANALYZED : 08/05/08			
ANALYTICAL DILUTION: 1.15			
4,6-DINITRO-2-METHYLPHENOL	50	57 U	UG/L
4-CHLORO-3-METHYLPHENOL	10	12 U	UG/L
2-METHYLPHENOL	10	12 U	UG/L
4-METHYLPHENOL	10	12 U	UG/L
NAPHTHALENE	10	12 U	UG/L
2-NITROANILINE	50	57 U	UG/L
3-NITROANILINE	50	57 U	UG/L
4-NITROANILINE	50	57 U	UG/L
NITROBENZENE	10	12 U	UG/L
2-NITROPHENOL	10	12 U	UG/L
NITROPHENOL	50	57 U	UG/L
NITROSODIPHENYLAMINE	10	12 U	UG/L
DI-N-OCTYL PHTHALATE	10	12 U	UG/L
PENTACHLOROPHENOL	50	57 U	UG/L
PHENANTHRENE	10	12 U	UG/L
PHENOL	10	12 U	UG/L
4-BROMOPHENYL-PHENYLETHER	10	12 U	UG/L
4-CHLOROPHENYL-PHENYLETHER	10	12 U	UG/L
N-NITROSO-DI-N-PROPYLAMINE	10	12 U	UG/L
PYRENE	10	12 U	UG/L
2,4,6-TRICHLOROPHENOL	10	12 U	UG/L
2,4,5-TRICHLOROPHENOL	10	12 U	UG/L

SURROGATE RECOVERIES	QC LIMITS		
TERPHENYL-d14	(40 - 137 %)	71	%
NITROBENZENE-d5	(38 - 105 %)	70	%
PHENOL-d6	(10 - 69 %)	28	%
2-FLUOROBIPHENYL	(38 - 100 %)	71	%
2-FLUOROPHENOL	(17 - 74 %)	45	%
2,4,6-TRIBROMOPHENOL	(41 - 135 %)	73	%

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW
08(07/24/08)

Lab Name: CAS-ROCH Contract: URS

Lab Code: 10145 Case No.: R845071 SAS No.: _____ SDG No.: MMW-01

Matrix: (soil/water) WATER Lab Sample ID: 1120697 1.15

Sample wt/vol: 870 (g/ml) ML Lab File ID: BT395.D

Level: (low/med) LOW Date Received: 7/24/08

% Moisture: _____ decanted: (Y/N) N Date Extracted: 7/28/08

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 8/5/08

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 8

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 08/21/08

URS Corporation
Project Reference: PACTIV - MACEDON, NY
Client Sample ID : MMW-09(07/24/08)

Date Sampled : 07/24/08 13:30 Order #: 1120698 Sample Matrix: WATER
Date Received: 07/24/08 Submission #: R2845071 Analytical Run 165121

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/28/08			
DATE ANALYZED : 08/05/08			
ANALYTICAL DILUTION: 0.94			
ACENAPHTHENE	10	9.4 U	UG/L
ACENAPHTHYLENE	10	9.4 U	UG/L
ACETOPHENONE	10	9.4 U	UG/L
ANTHRACENE	10	9.4 U	UG/L
ATRAZINE	10	9.4 U	UG/L
BENZALDEHYDE	10	9.4 U	UG/L
BENZO (A) ANTHRACENE	10	9.4 U	UG/L
BENZO (A) PYRENE	10	9.4 U	UG/L
BENZO (B) FLUORANTHENE	10	9.4 U	UG/L
BENZO (G, H, I) PERYLENE	10	9.4 U	UG/L
BENZO (K) FLUORANTHENE	10	9.4 U	UG/L
1'-BIPHENYL	10	9.4 U	UG/L
BUTYL BENZYL PHTHALATE	10	9.4 U	UG/L
DI-N-BUTYLPHTHALATE	10	9.4 U	UG/L
CAPROLACTAM	10	9.4 U	UG/L
CARBAZOLE	10	9.4 U	UG/L
INDENO (1, 2, 3-CD) PYRENE	10	9.4 U	UG/L
4-CHLOROANILINE	10	9.4 U	UG/L
BIS (-2-CHLOROETHOXY) METHANE	10	9.4 U	UG/L
BIS (2-CHLOROETHYL) ETHER	10	9.4 U	UG/L
2-CHLORONAPHTHALENE	10	9.4 U	UG/L
2-CHLOROPHENOL	10	9.4 U	UG/L
2,2'-OXYBIS (1-CHLOROPROPANE)	10	9.4 U	UG/L
CHRYSENE	10	9.4 U	UG/L
DIBENZO (A, H) ANTHRACENE	10	9.4 U	UG/L
DIBENZOFURAN	10	9.4 U	UG/L
3,3'-DICHLOBENZIDINE	10	9.4 U	UG/L
2,4-DICHLOROPHENOL	10	9.4 U	UG/L
DIETHYLPHTHALATE	10	9.4 U	UG/L
DIMETHYL PHTHALATE	10	9.4 U	UG/L
2,4-DIMETHYLPHENOL	10	9.4 U	UG/L
2,4-DINITROPHENOL	50	47 U	UG/L
2,4-DINITROTOLUENE	10	9.4 U	UG/L
2,6-DINITROTOLUENE	10	9.4 U	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	10	9.4 U	UG/L
FLUORANTHENE	10	9.4 U	UG/L
IORENE	10	9.4 U	UG/L
HEXACHLOROBENZENE	10	9.4 U	UG/L
HEXACHLOROBUTADIENE	10	9.4 U	UG/L
HEXACHLOROCYCLOPENTADIENE	10	9.4 U	UG/L
HEXACHLOROETHANE	10	9.4 U	UG/L
ISOPHORONE	10	9.4 U	UG/L
2-METHYLNAPHTHALENE	10	9.4 U	UG/L

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 08/21/08

URS Corporation

Project Reference: PACTIV - MACEDON, NY

Client Sample ID : MMW-09(07/24/08)

Date Sampled : 07/24/08 13:30 Order #: 1120698 Sample Matrix: WATER
Date Received: 07/24/08 Submission #: R2845071 Analytical Run 165121

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/28/08			
DATE ANALYZED : 08/05/08			
ANALYTICAL DILUTION: 0.94			
4,6-DINITRO-2-METHYLPHENOL	50	47 U	UG/L
4-CHLORO-3-METHYLPHENOL	10	9.4 U	UG/L
2-METHYLPHENOL	10	9.4 U	UG/L
4-METHYLPHENOL	10	9.4 U	UG/L
NAPHTHALENE	10	9.4 U	UG/L
2-NITROANILINE	50	47 U	UG/L
3-NITROANILINE	50	47 U	UG/L
4-NITROANILINE	50	47 U	UG/L
NITROBENZENE	10	9.4 U	UG/L
2-NITROPHENOL	10	9.4 U	UG/L
4-NITROPHENOL	50	47 U	UG/L
N-NITROSODIPHENYLAMINE	10	9.4 U	UG/L
DI-N-OCTYL PHTHALATE	10	9.4 U	UG/L
PENTACHLOROPHENOL	50	47 U	UG/L
PHENANTHRENE	10	9.4 U	UG/L
PHENOL	10	9.4 U	UG/L
4-BROMOPHENYL-PHENYLETHER	10	9.4 U	UG/L
4-CHLOROPHENYL-PHENYLETHER	10	9.4 U	UG/L
N-NITROSO-DI-N-PROPYLAMINE	10	9.4 U	UG/L
PYRENE	10	9.4 U	UG/L
2,4,6-TRICHLOROPHENOL	10	9.4 U	UG/L
2,4,5-TRICHLOROPHENOL	10	9.4 U	UG/L

SURROGATE RECOVERIES

QC LIMITS

TERPHENYL-d14	(40 - 137 %)	80	%
NITROBENZENE-d5	(38 - 105 %)	81	%
PHENOL-d6	(10 - 69 %)	25	%
2-FLUOROBIPHENYL	(38 - 100 %)	89	%
2-FLUOROPHENOL	(17 - 74 %)	45	%
2,4,6-TRIBROMOPHENOL	(41 - 135 %)	82	%

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW
09(07/24/08)

Lab Name: CAS-ROCH Contract: URS
Lab Code: 10145 Case No.: R845071 SAS No.: _____ SDG No.: MMW-01
Matrix: (soil/water) WATER Lab Sample ID: 1120698 0.94
Sample wt/vol: 1060 (g/ml) ML Lab File ID: BT396.D
Level: (low/med) LOW Date Received: 7/24/08
% Moisture: _____ decanted: (Y/N) N Date Extracted: 7/28/08
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 8/5/08
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 8

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8270C SEMIVOLATILES
 Reported: 08/21/08

URS Corporation
 Project Reference: PACTIV - MACEDON, NY
 Client Sample ID : MMW-10(07/24/08)

Date Sampled : 07/24/08 14:30 Order #: 1120699 Sample Matrix: WATER
 Date Received: 07/24/08 Submission #: R2845071 Analytical Run 165121

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/28/08			
DATE ANALYZED : 08/05/08			
ANALYTICAL DILUTION: 0.95			
ACENAPHTHENE	10	9.5 U	UG/L
ACENAPHTHYLENE	10	9.5 U	UG/L
ACETOPHENONE	10	9.5 U	UG/L
ANTHRACENE	10	9.5 U	UG/L
ATRAZINE	10	9.5 U	UG/L
BENZALDEHYDE	10	9.5 U	UG/L
BENZO (A) ANTHRACENE	10	9.5 U	UG/L
BENZO (A) PYRENE	10	9.5 U	UG/L
BENZO (B) FLUORANTHENE	10	9.5 U	UG/L
BENZO (G, H, I) PERYLENE	10	9.5 U	UG/L
BENZO (K) FLUORANTHENE	10	9.5 U	UG/L
1,1'-BIPHENYL	10	9.5 U	UG/L
BUTYL BENZYL PHTHALATE	10	9.5 U	UG/L
DI-N-BUTYLPHTHALATE	10	9.5 U	UG/L
CAPROLACTAM	10	9.5 U	UG/L
CARBAZOLE	10	9.5 U	UG/L
INDENO (1, 2, 3-CD) PYRENE	10	9.5 U	UG/L
4-CHLOROANILINE	10	9.5 U	UG/L
BIS (-2-CHLOROETHOXY) METHANE	10	9.5 U	UG/L
BIS (2-CHLOROETHYL) ETHER	10	9.5 U	UG/L
2-CHLORONAPHTHALENE	10	9.5 U	UG/L
2-CHLOROPHENOL	10	9.5 U	UG/L
2,2'-OXYBIS (1-CHLOROPROPANE)	10	9.5 U	UG/L
CHRYSENE	10	9.5 U	UG/L
DIBENZO (A, H) ANTHRACENE	10	9.5 U	UG/L
DIBENZOFURAN	10	9.5 U	UG/L
3,3'-DICHLOROBENZIDINE	10	9.5 U	UG/L
2,4-DICHLOROPHENOL	10	9.5 U	UG/L
DIETHYLPHTHALATE	10	9.5 U	UG/L
DIMETHYL PHTHALATE	10	9.5 U	UG/L
2,4-DIMETHYLPHENOL	10	9.5 U	UG/L
2,4-DINITROPHENOL	50	48 U	UG/L
2,4-DINITROTOLUENE	10	9.5 U	UG/L
2,6-DINITROTOLUENE	10	9.5 U	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	10	9.5 U	UG/L
FLUORANTHENE	10	9.5 U	UG/L
FLUORENE	10	9.5 U	UG/L
HEXACHLOROBENZENE	10	9.5 U	UG/L
HEXACHLOROBUTADIENE	10	9.5 U	UG/L
HEXACHLOROCYCLOPENTADIENE	10	9.5 U	UG/L
HEXACHLOROETHANE	10	9.5 U	UG/L
ISOPHORONE	10	9.5 U	UG/L
2-METHYLNAPHTHALENE	10	9.5 U	UG/L

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 08/21/08

URS Corporation
Project Reference: PACTIV - MACEDON, NY
Client Sample ID : MMW-10(07/24/08)

Date Sampled : 07/24/08 14:30 Order #: 1120699 Sample Matrix: WATER
Date Received: 07/24/08 Submission #: R2845071 Analytical Run 165121

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/28/08			
DATE ANALYZED : 08/05/08			
ANALYTICAL DILUTION: 0.95			
4,6-DINITRO-2-METHYLPHENOL	50	48 U	UG/L
4-CHLORO-3-METHYLPHENOL	10	9.5 U	UG/L
2-METHYLPHENOL	10	9.5 U	UG/L
4-METHYLPHENOL	10	9.5 U	UG/L
NAPHTHALENE	10	9.5 U	UG/L
2-NITROANILINE	50	48 U	UG/L
3-NITROANILINE	50	48 U	UG/L
4-NITROANILINE	50	48 U	UG/L
NITROBENZENE	10	9.5 U	UG/L
2-NITROPHENOL	10	9.5 U	UG/L
NITROPHENOL	50	48 U	UG/L
NITROSODIPHENYLAMINE	10	9.5 U	UG/L
DI-N-OCTYL PHTHALATE	10	9.5 U	UG/L
PENTACHLOROPHENOL	50	48 U	UG/L
PHENANTHRENE	10	9.5 U	UG/L
PHENOL	10	9.5 U	UG/L
4-BROMOPHENYL-PHENYLEETHER	10	9.5 U	UG/L
4-CHLOROPHENYL-PHENYLEETHER	10	9.5 U	UG/L
N-NITROSO-DI-N-PROPYLAMINE	10	9.5 U	UG/L
PYRENE	10	9.5 U	UG/L
2,4,6-TRICHLOROPHENOL	10	9.5 U	UG/L
2,4,5-TRICHLOROPHENOL	10	9.5 U	UG/L

SURROGATE RECOVERIESQC LIMITS

TERPHENYL-d14	(40 - 137 %)	84	%
NITROBENZENE-d5	(38 - 105 %)	76	%
PHENOL-d6	(10 - 69 %)	25	%
2-FLUOROBIPHENYL	(38 - 100 %)	76	%
2-FLUOROPHENOL	(17 - 74 %)	43	%
2,4,6-TRIBROMOPHENOL	(41 - 135 %)	74	%

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

10(07/24/08)

Lab Name: CAS-ROCH Contract: URS
Lab Code: 10145 Case No.: R845071 SAS No.: _____ SDG No.: MMW-01
Matrix: (soil/water) WATER Lab Sample ID: 1120699 0.95
Sample wt/vol: 1050 (g/ml) ML Lab File ID: BT397.D
Level: (low/med) LOW Date Received: 7/24/08
% Moisture: _____ decanted: (Y/N) N Date Extracted: 7/28/08
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 8/5/08
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 8

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. ~~000108-87-2~~	~~Cyclohexane, methyl-~~	~~2.34~~	~~8~~	~~JN~~

*Reported as a
target VOC*

9/10/08 m

439A

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
 METHOD 8270C SEMIVOLATILES
 Reported: 08/21/08

URS Corporation
 Project Reference: PACTIV - MACEDON, NY
 Client Sample ID : MP-01(07/24/08)

Date Sampled : 07/24/08 12:40 Order #: 1120700 Sample Matrix: WATER
 Date Received: 07/24/08 Submission #: R2845071 Analytical Run 165121

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/28/08			
DATE ANALYZED : 08/06/08			
ANALYTICAL DILUTION: 1.09			
ACENAPHTHENE	10	11 U	UG/L
ACENAPHTHYLENE	10	11 U	UG/L
ACETOPHENONE	10	11 U	UG/L
ANTHRACENE	10	11 U	UG/L
ATRAZINE	10	11 U	UG/L
BENZALDEHYDE	10	11 U	UG/L
BENZO (A) ANTHRACENE	10	11 U	UG/L
BENZO (A) PYRENE	10	11 U	UG/L
BENZO (B) FLUORANTHENE	10	11 U	UG/L
BENZO (G, H, I) PERYLENE	10	11 U	UG/L
BENZO (K) FLUORANTHENE	10	11 U	UG/L
1'-BIPHENYL	10	11 U	UG/L
BUTYL BENZYL PHTHALATE	10	11 U	UG/L
DI-N-BUTYLPHTHALATE	10	11 U	UG/L
CAPROLACTAM	10	11 U	UG/L
CARBAZOLE	10	11 U	UG/L
INDENO (1, 2, 3-CD) PYRENE	10	11 U	UG/L
4-CHLOROANILINE	10	11 U	UG/L
BIS (-2-CHLOROETHOXY) METHANE	10	11 U	UG/L
BIS (2-CHLOROETHYL) ETHER	10	11 U	UG/L
2-CHLORONAPHTHALENE	10	11 U	UG/L
2-CHLOROPHENOL	10	11 U	UG/L
2, 2'-OXYBIS (1-CHLOROPROPANE)	10	11 U	UG/L
CHRYSENE	10	11 U	UG/L
DIBENZO (A, H) ANTHRACENE	10	11 U	UG/L
DIBENZOFURAN	10	11 U	UG/L
3, 3'-DICHLOROBENZIDINE	10	11 U	UG/L
2, 4-DICHLOROPHENOL	10	11 U	UG/L
DIETHYLPHTHALATE	10	11 U	UG/L
DIMETHYL PHTHALATE	10	11 U	UG/L
2, 4-DIMETHYLPHENOL	10	11 U	UG/L
2, 4-DINITROPHENOL	50	55 U	UG/L
2, 4-DINITROTOLUENE	10	11 U	UG/L
2, 6-DINITROTOLUENE	10	11 U	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	10	11 U	UG/L
FLUORANTHENE	10	11 U	UG/L
URENE	10	11 U	UG/L
HEXACHLOROBENZENE	10	11 U	UG/L
HEXACHLOROBUTADIENE	10	11 U	UG/L
HEXACHLOROCYCLOPENTADIENE	10	11 U	UG/L
HEXACHLOROETHANE	10	11 U	UG/L
ISOPHORONE	10	11 U	UG/L
2-METHYLNAPHTHALENE	10	11 U	UG/L

COLUMBIA ANALYTICAL SERVICESEXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 08/21/08URS Corporation
Project Reference: PACTIV - MACEDON, NY
Client Sample ID : MP-01(07/24/08)Date Sampled : 07/24/08 12:40 Order #: 1120700 Sample Matrix: WATER
Date Received: 07/24/08 Submission #: R2845071 Analytical Run 165121

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/28/08			
DATE ANALYZED : 08/06/08			
ANALYTICAL DILUTION: 1.09			
4,6-DINITRO-2-METHYLPHENOL	50	55 U	UG/L
4-CHLORO-3-METHYLPHENOL	10	11 U	UG/L
2-METHYLPHENOL	10	11 U	UG/L
4-METHYLPHENOL	10	11 U	UG/L
NAPHTHALENE	10	11 U	UG/L
2-NITROANILINE	50	55 U	UG/L
3-NITROANILINE	50	55 U	UG/L
4-NITROANILINE	50	55 U	UG/L
NITROBENZENE	10	11 U	UG/L
2-NITROPHENOL	10	11 U	UG/L
4-NITROPHENOL	50	55 U	UG/L
N-NITROSODIPHENYLAMINE	10	11 U	UG/L
DI-N-OCTYL PHTHALATE	10	11 U	UG/L
PENTACHLOROPHENOL	50	55 U	UG/L
PHENANTHRENE	10	11 U	UG/L
PHENOL	10	11 U	UG/L
4-BROMOPHENYL-PHENYLEETHER	10	11 U	UG/L
4-CHLOROPHENYL-PHENYLEETHER	10	11 U	UG/L
N-NITROSO-DI-N-PROPYLAMINE	10	11 U	UG/L
PYRENE	10	11 U	UG/L
2,4,6-TRICHLOROPHENOL	10	11 U	UG/L
2,4,5-TRICHLOROPHENOL	10	11 U	UG/L

SURROGATE RECOVERIESQC LIMITS

TERPHENYL-d14	(40 - 137 %)	85	%
NITROBENZENE-d5	(38 - 105 %)	78	%
PHENOL-d6	(10 - 69 %)	29	%
2-FLUOROBIPHENYL	(38 - 100 %)	80	%
2-FLUOROPHENOL	(17 - 74 %)	46	%
2,4,6-TRIBROMOPHENOL	(41 - 135 %)	91	%

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MP-01(07/24/08)

Lab Name: CAS-ROCH Contract: URS
Lab Code: 10145 Case No.: R845071 SAS No.: _____ SDG No.: MMW-01
Matrix: (soil/water) WATER Lab Sample ID: 1120700 1.09
Sample wt/vol: 920 (g/ml) ML Lab File ID: BT401.D
Level: (low/med) LOW Date Received: 7/24/08
% Moisture: _____ decanted: (Y/N) N Date Extracted: 7/28/08
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 8/6/08
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 8

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 08/21/08

URS Corporation
Project Reference: PACTIV - MACEDON, NY
Client Sample ID : RB20080722

Date Sampled : 07/22/08 12:10 Order #: 1119959 Sample Matrix: WATER
Date Received: 07/22/08 Submission #: R2845071 Analytical Run 164665

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/24/08			
DATE ANALYZED : 07/31/08			
ANALYTICAL DILUTION: 0.95			
ACENAPHTHENE	10	9.5 U	UG/L
ACENAPHTHYLENE	10	9.5 U	UG/L
ACETOPHENONE	10	9.5 U	UG/L
ANTHRACENE	10	9.5 U	UG/L
ATRAZINE	10	9.5 U	UG/L
BENZALDEHYDE	10	9.5 U	UG/L
BENZO (A) ANTHRACENE	10	9.5 U	UG/L
BENZO (A) PYRENE	10	9.5 U	UG/L
BENZO (B) FLUORANTHENE	10	9.5 U	UG/L
BENZO (G, H, I) PERYLENE	10	9.5 U	UG/L
BENZO (K) FLUORANTHENE	10	9.5 U	UG/L
1,1'-BIPHENYL	10	9.5 U	UG/L
BUTYL BENZYL PHTHALATE	10	9.5 U	UG/L
DI-N-BUTYLPHTHALATE	10	9.5 U	UG/L
CAPROLACTAM	10	9.5 U	UG/L
CARBAZOLE	10	9.5 U	UG/L
INDENO (1,2,3-CD) PYRENE	10	9.5 U	UG/L
4-CHLOROANILINE	10	9.5 U	UG/L
BIS (-2-CHLOROETHOXY) METHANE	10	9.5 U	UG/L
BIS (2-CHLOROETHYL) ETHER	10	9.5 U	UG/L
2-CHLORONAPHTHALENE	10	9.5 U	UG/L
2-CHLOROPHENOL	10	9.5 U	UG/L
2,2'-OXYBIS (1-CHLOROPROPANE)	10	9.5 U	UG/L
CHRYSENE	10	9.5 U	UG/L
DIBENZO (A, H) ANTHRACENE	10	9.5 U	UG/L
DIBENZOFURAN	10	9.5 U	UG/L
3,3'-DICHLOOROBENZIDINE	10	9.5 U	UG/L
2,4-DICHLOROPHENOL	10	9.5 U	UG/L
DIETHYLPHTHALATE	10	9.5 U	UG/L
DIMETHYL PHTHALATE	10	9.5 U	UG/L
2,4-DIMETHYLPHENOL	10	9.5 U	UG/L
2,4-DINITROPHENOL	50	48 U	UG/L
2,4-DINITROTOLUENE	10	9.5 U	UG/L
2,6-DINITROTOLUENE	10	9.5 U	UG/L
BIS (2-ETHYLHEXYL) PHTHALATE	10	9.5 U	UG/L
FLUORANTHENE	10	9.5 U	UG/L
FLUORENE	10	9.5 U	UG/L
HEXACHLOOROBENZENE	10	9.5 U	UG/L
HEXACHLOOROBUTADIENE	10	9.5 U	UG/L
HEXACHLOOROCYCLOPENTADIENE	10	9.5 U	UG/L
HEXACHLOOROETHANE	10	9.5 U	UG/L
ISOPHORONE	10	9.5 U	UG/L
2-METHYLNAPHTHALENE	10	9.5 U	UG/L

COLUMBIA ANALYTICAL SERVICESEXTRACTABLE ORGANICS
METHOD 8270C SEMIVOLATILES
Reported: 08/21/08URS Corporation
Project Reference: PACTIV - MACEDON, NY
Client Sample ID : RB20080722

Date Sampled : 07/22/08 12:10 Order #: 1119959 Sample Matrix: WATER
Date Received: 07/22/08 Submission #: R2845071 Analytical Run 164665

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/24/08			
DATE ANALYZED : 07/31/08			
ANALYTICAL DILUTION: 0.95			
4,6-DINITRO-2-METHYLPHENOL	50	48 U	UG/L
4-CHLORO-3-METHYLPHENOL	10	9.5 U	UG/L
2-METHYLPHENOL	10	9.5 U	UG/L
4-METHYLPHENOL	10	9.5 U	UG/L
NAPHTHALENE	10	9.5 U	UG/L
2-NITROANILINE	50	48 U	UG/L
3-NITROANILINE	50	48 U	UG/L
4-NITROANILINE	50	48 U	UG/L
NITROBENZENE	10	9.5 U	UG/L
2-NITROPHENOL	10	9.5 U	UG/L
NITROPHENOL	50	48 U	UG/L
NITROSODIPHENYLAMINE	10	9.5 U	UG/L
DI-N-OCTYL PHTHALATE	10	9.5 U	UG/L
PENTACHLOROPHENOL	50	48 U	UG/L
PHENANTHRENE	10	9.5 U	UG/L
PHENOL	10	9.5 U	UG/L
4-BROMOPHENYL-PHENYLETHER	10	9.5 U	UG/L
4-CHLOROPHENYL-PHENYLETHER	10	9.5 U	UG/L
N-NITROSO-DI-N-PROPYLAMINE	10	9.5 U	UG/L
PYRENE	10	9.5 U	UG/L
2,4,6-TRICHLOROPHENOL	10	9.5 U	UG/L
2,4,5-TRICHLOROPHENOL	10	9.5 U	UG/L

SURROGATE RECOVERIESQC LIMITS

TERPHENYL-d14	(40 - 137 %)	93	%
NITROBENZENE-d5	(38 - 105 %)	72	%
PHENOL-d6	(10 - 69 %)	26	%
2-FLUOROBIPHENYL	(38 - 100 %)	78	%
2-FLUOROPHENOL	(17 - 74 %)	42	%
2,4,6-TRIBROMOPHENOL	(41 - 135 %)	91	%

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RB20080722

Lab Name: CAS-ROCH Contract: URS
Lab Code: 10145 Case No.: R845071 SAS No.: SDG No.: MMW-01
Matrix: (soil/water) WATER Lab Sample ID: 1119959 0.95
Sample wt/vol: 1050 (g/ml) ML Lab File ID: BT343.D
Level: (low/med) LOW Date Received: 7/22/08
% Moisture: decanted: (Y/N) N Date Extracted: 7/24/08
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/31/08
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 6

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8082 PCB'S

Reported: 08/21/08

URS Corporation

Project Reference: PACTIV - MACEDON, NY

Client Sample ID : SS-1(07/22/2008)

Date Sampled : 07/22/08 09:55 Order #: 1119951 Sample Matrix: SOIL/SEDIMENT
Date Received: 07/22/08 Submission #: R2845062 Percent Solid: 76.3

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/28/08			
DATE ANALYZED : 07/31/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
PCB 1016	33	43 U	UG/KG
PCB 1221	67	88 U	UG/KG
PCB 1232	33	43 U	UG/KG
PCB 1242	33	43 U	UG/KG
PCB 1248	33	43 U	UG/KG
PCB 1254	33	43 U	UG/KG
PCB 1260	33	43 U	UG/KG

SURROGATE RECOVERIESQC LIMITS

1,2-DICHLOROBIPHENYL	(29 - 153 %)	84	%
1,2-DICHLORO-META-XYLENE	(27 - 134 %)	79	%

COLUMBIA ANALYTICAL SERVICES**EXTRACTABLE ORGANICS**

METHOD 8082 PCB'S

Reported: 08/21/08

URS Corporation

Project Reference: PACTIV - MACEDON, NY

Client Sample ID : SS-2(07/22/2008)

Date Sampled : 07/22/08 10:27 Order #: 1119952 Sample Matrix: SOIL/SEDIMENT
Date Received: 07/22/08 Submission #: R2845062 Percent Solid: 74.4

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED	: 07/28/08		
DATE ANALYZED	: 07/31/08		
ANALYTICAL DILUTION:	1.00		Dry Weight
PCB 1016	33	44 U	UG/KG
PCB 1221	67	90 U	UG/KG
PCB 1232	33	44 U	UG/KG
PCB 1242	33	44 U	UG/KG
PCB 1248	33	44 U	UG/KG
PCB 1254	33	44 U	UG/KG
PCB 1260	33	44 U	UG/KG

<u>SURROGATE RECOVERIES</u>	<u>QC LIMITS</u>		
DECACHLOROBIPHENYL	(29 - 153 %)	96	%
TETRACHLORO-META-XYLENE	(27 - 134 %)	91	%

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8082 PCB'S

Reported: 08/21/08

URS Corporation

Project Reference: PACTIV - MACEDON, NY

Client Sample ID : SS-3(07/22/2008)

Date Sampled : 07/22/08 10:47 Order #: 1119953 Sample Matrix: SOIL/SEDIMENT
Date Received: 07/22/08 Submission #: R2845062 Percent Solid: 76.1

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/28/08			
DATE ANALYZED : 07/31/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
PCB 1016	33	43 U	UG/KG
PCB 1221	67	88 U	UG/KG
PCB 1232	33	43 U	UG/KG
PCB 1242	33	43 U	UG/KG
PCB 1248	33	43 U	UG/KG
PCB 1254	33	43 U	UG/KG
PCB 1260	33	43 U	UG/KG

SURROGATE RECOVERIESQC LIMITS

PCACHLOROBIPHENYL

(29 - 153 %)

84

%

PCACHLORO-META-XYLENE

(27 - 134 %)

81

%

COLUMBIA ANALYTICAL SERVICES**EXTRACTABLE ORGANICS**

METHOD 8082 PCB'S

Reported: 08/21/08

URS Corporation

Project Reference: PACTIV - MACEDON, NY

Client Sample ID : SS-4 (07/22/2008)

Date Sampled : 07/22/08 11:35 Order #: 1119954 Sample Matrix: SOIL/SEDIMENT
Date Received: 07/22/08 Submission #: R2845062 Percent Solid: 91.2

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/28/08			
DATE ANALYZED : 07/31/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
PCB 1016	33	36 U	UG/KG
PCB 1221	67	73 U	UG/KG
PCB 1232	33	36 U	UG/KG
PCB 1242	33	36 U	UG/KG
PCB 1248	33	36 U	UG/KG
PCB 1254	33	36 U	UG/KG
PCB 1260	33	99	UG/KG

SURROGATE RECOVERIES	QC LIMITS		
DECACHLOROBIPHENYL	(29 - 153 %)	78	%
TETRACHLORO-META-XYLENE	(27 - 134 %)	88	%

COLUMBIA ANALYTICAL SERVICES

EXTRACTABLE ORGANICS

METHOD 8082 PCB'S

Reported: 08/21/08

URS Corporation

Project Reference: PACTIV - MACEDON, NY

Client Sample ID : RB20080722

Date Sampled : 07/22/08 12:10 Order #: 1119959 Sample Matrix: WATER
Date Received: 07/22/08 Submission #: R2845071 Analytical Run 164854

ANALYTE	PQL	RESULT	UNITS
DATE EXTRACTED : 07/29/08			
DATE ANALYZED : 07/30/08			
ANALYTICAL DILUTION: 1.00			
PCB 1016	0.94	0.94 U	UG/L
PCB 1221	1.9	1.9 U	UG/L
PCB 1232	0.94	0.94 U	UG/L
PCB 1242	0.94	0.94 U	UG/L
PCB 1248	0.94	0.94 U	UG/L
PCB 1254	0.94	0.94 U	UG/L
PCB 1260	0.94	0.94 U	UG/L

SURROGATE RECOVERIESQC LIMITS

TRACHLOROBIPHENYL	(10 - 129 %)	40	%
TRACHLORO-META-XYLENE	(34 - 113 %)	61	%

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SS-1 (07/22/2008)

Contract: R2845062

Lab Code:

Case No.:

SAS No.:

SDG NO.: MW-10

Matrix (soil/water): SOIL/SEDIMENT

Lab Sample ID: 1119951

Level (low/med): LOW

Date Received: 07/22/08

% Solids: 76.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.2			P
7440-39-3	Barium	65.7			P
7440-43-9	Cadmium	0.42	B ⁺		P
7440-47-3	Chromium	14.8			P
7439-92-1	Lead	52.1		B ⁺	P
7439-97-6	Mercury	0.09			CV
7782-49-2	Selenium	1.5		✓	P
7440-22-4	Silver	0.09	U		P

9/11/08

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After: CLEAR

Artifacts:

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SS-2 (07/22/2008)

Contract: R2845062

Lab Code:

Case No.:

SAS No.:

SDG NO.: MW-10

Matrix (soil/water): SOIL/SEDIMENT

Lab Sample ID: 1119952

Level (low/med): LOW

Date Received: 07/22/08

% Solids: 74.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.9			P
7440-39-3	Barium	54.5			P
7440-43-9	Cadmium	0.47	B ¹		P
7440-47-3	Chromium	13.0			P
7439-92-1	Lead	52.2		B ¹	P
7439-97-6	Mercury	0.09			CV
7782-49-2	Selenium	0.72	B ¹		P
7440-22-4	Silver	0.10	U		P

9/11/08

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After: CLEAR

Artifacts:

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SS-3 (07/22/2008)

Contract: R2845062

Lab Code:

Case No.:

SAS No.:

SDG NO.: MW-10

Matrix (soil/water): SOIL/SEDIMENT

Lab Sample ID: 1119953

Level (low/med): LOW

Date Received: 07/22/08

% Solids: 76.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	5.0			P
7440-39-3	Barium	72.2			P
7440-43-9	Cadmium	0.55	EA		P
7440-47-3	Chromium	15.4			P
7439-92-1	Lead	53.6		EA	P
7439-97-6	Mercury	0.07			CV
7782-49-2	Selenium	2.3		I	P
7440-22-4	Silver	0.09	U		P

9/11/08

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After: CLEAR

Artifacts:

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SS-4 (07/22/2008)

Contract: R2845062

Lab Code:

Case No.:

SAS No.:

SDG NO.: MW-10

Matrix (soil/water): SOIL/SEDIMENT

Lab Sample ID: 1119954

Level (low/med): LOW

Date Received: 07/22/08

% Solids: 91.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	5.5			P
7440-39-3	Barium	81.1			P
7440-43-9	Cadmium	127			P
7440-47-3	Chromium	23.8			P
7439-92-1	Lead	121		ET	P
7439-97-6	Mercury	0.13			CV
7782-49-2	Selenium	1.1	ET	J	P
7440-22-4	Silver	0.08	U		P

9/11/08

r Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After: CLEAR

Artifacts:

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MMW-8 8'-12'

Contract: R2845062

Lab Code:

Case No.:

SAS No.:

SDG NO.: MW-10

Matrix (soil/water): SOIL/SEDIMENT

Lab Sample ID: 1119958

Level (low/med): LOW

Date Received: 07/22/08

% Solids: 85.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	0.26	U		P
7440-39-3	Barium	9.6			P
7440-43-9	Cadmium	0.04	U		P
7440-47-3	Chromium	5.3			P
7439-92-1	Lead	3.5		BJ	P
7439-97-6	Mercury	0.01	BJ		CV
7782-49-2	Selenium	1.2		J	P
7440-22-4	Silver	0.08	U		P

9/11/08

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After: CLEAR

Artifacts:

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MMW-9 4'-8'

Contract: R2845062

Lab Code:

Case No.:

SAS No.:

SDG NO.: MW-10

Matrix (soil/water): SOIL/SEDIMENT

Lab Sample ID: 1119957

Level (low/med): LOW

Date Received: 07/22/08

% Solids: 82.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.3			P
7440-39-3	Barium	19.0			P
7440-43-9	Cadmium	0.04	U		P
7440-47-3	Chromium	11.8			P
7439-92-1	Lead	8.1		ET	P
7439-97-6	Mercury	0.02	ET		CV
7782-49-2	Selenium	0.50	U		P
7440-22-4	Silver	0.09	U		P

9/11/08 m

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After: CLEAR

Artifacts:

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MMW-10 4'-5.4'

Contract: R2845062

Lab Code:

Case No.:

SAS No.:

SDG NO.: MW-10

Matrix (soil/water): SOIL/SEDIMENT

Lab Sample ID: 1119956

Level (low/med): LOW

Date Received: 07/22/08

% Solids: 79.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	0.29	BS		P
7440-39-3	Barium	50.4			P
7440-43-9	Cadmium	0.04	U		P
7440-47-3	Chromium	8.2			P
7439-92-1	Lead	6.6		ET	P
7439-97-6	Mercury	0.03	BS		CV
7782-49-2	Selenium	1.3		J	P
7440-22-4	Silver	0.09	U		P

9/11/08

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After: CLEAR

Artifacts:

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MMW-01 (07/23/08)

Contract: R2845071

Lab Code:

Case No.:

SAS No.:

SDG NO.: MMW-01

Matrix (soil/water): WATER

Lab Sample ID: 1120241

Level (low/med): LOW

Date Received: 07/23/08

Concentration Units (ug/L or mg/kg dry weight): µg/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.4	BA		P
7440-39-3	Barium	68.8			P
7440-43-9	Cadmium	0.35	U		P
7440-47-3	Chromium	2.4	BA		P
7439-92-1	Lead	1.2	U		P
7439-97-6	Mercury	0.03	U		CV
7782-49-2	Selenium	4.3	U		P
7440-22-4	Silver	0.72	U		P

9/15/08 m

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MMW-02 (07/23/08)

Contract: R2845071

Lab Code:

Case No.:

SAS No.:

SDG NO.: MMW-01

Matrix (soil/water): WATER

Lab Sample ID: 1120242

Level (low/med): LOW

Date Received: 07/23/08

Concentration Units (ug/L or mg/kg dry weight): µG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.2	U		P
7440-39-3	Barium	38.1			P
7440-43-9	Cadmium	0.35	U		P
7440-47-3	Chromium	1.1	B4		P
7439-92-1	Lead	1.2	U		P
7439-97-6	Mercury	0.03	U		CV
7782-49-2	Selenium	4.3	U		P
7440-22-4	Silver	0.72	U		P

9/15/08

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MMW-03 (07/23/08)

Contract: R2845071

Lab Code:

Case No.:

SAS No.:

SDG NO.: MMW-01

Matrix (soil/water): WATER

Lab Sample ID: 1120243

Level (low/med): LOW

Date Received: 07/23/08

Concentration Units (ug/L or mg/kg dry weight): µG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.2	U		P
7440-39-3	Barium	107			P
7440-43-9	Cadmium	0.35	U		P
7440-47-3	Chromium	1.6	U		P
7439-92-1	Lead	1.2	U		P
7439-97-6	Mercury	0.03	U		CV
7782-49-2	Selenium	4.3	U		P
7440-22-4	Silver	0.72	U		P

9/15/08

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MMW-04 (07/23/08)

Contract: R2845071

Lab Code:

Case No.:

SAS No.:

SDG NO.: MMW-01

Matrix (soil/water): WATER

Lab Sample ID: 1120244

Level (low/med): LOW

Date Received: 07/23/08

Concentration Units (ug/L or mg/kg dry weight): µG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.2	U		P
7440-39-3	Barium	98.9			P
7440-43-9	Cadmium	0.35	U		P
7440-47-3	Chromium	1.3	U		P
7439-92-1	Lead	1.2	U		P
7439-97-6	Mercury	0.03	U		CV
7782-49-2	Selenium	4.3	U		P
7440-22-4	Silver	0.72	U		P

9/15/08

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MMW-05 (07/23/08)

Contract: R2845071

Lab Code:

Case No.:

SAS No.:

SDG NO.: MMW-01

Matrix (soil/water): WATER

Lab Sample ID: 1120245

Level (low/med): LOW

Date Received: 07/23/08

Concentration Units (ug/L or mg/kg dry weight): µG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.2	U		P
7440-39-3	Barium	115			P
7440-43-9	Cadmium	0.35	U		P
7440-47-3	Chromium	1.1	B ¹		P
7439-92-1	Lead	1.2	U		P
7439-97-6	Mercury	0.03	U		CV
7782-49-2	Selenium	5.1	B ¹		P
7440-22-4	Silver	0.72	U		P

9/15/08

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MMW-06 (07/23/08)

Contract: R2845071

Lab Code:

Case No.:

SAS No.:

SDG NO.: MMW-01

Matrix (soil/water): WATER

Lab Sample ID: 1120246

Level (low/med): LOW

Date Received: 07/23/08

Concentration Units (ug/L or mg/kg dry weight): µG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.2	U		P
7440-39-3	Barium	12.8	U		P
7440-43-9	Cadmium	0.35	U		P
7440-47-3	Chromium	2.3	U		P
7439-92-1	Lead	1.2	U		P
7439-97-6	Mercury	0.03	U		CV
7782-49-2	Selenium	4.3	U		P
7440-22-4	Silver	0.72	U		P

9/15/08

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MMW-07 (07/24/08)

Contract: R2845071

Lab Code:

Case No.:

SAS No.:

SDG NO.: MMW-01

Matrix (soil/water): WATER

Lab Sample ID: 1120696

Level (low/med): LOW

Date Received: 07/24/08

Concentration Units (ug/L or mg/kg dry weight): µG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.2	U		P
7440-39-3	Barium	60.5			P
7440-43-9	Cadmium	0.65	B ¹		P
7440-47-3	Chromium	1.3	B ¹		P
7439-92-1	Lead	1.2	U		P
7439-97-6	Mercury	0.03	U		CV
7782-49-2	Selenium	4.3	U		P
7440-22-4	Silver	0.72	U		P

9/15/08

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MMW-08 (07/24/08)

Contract: R2845071

Lab Code:

Case No.:

SAS No.:

SDG NO.: MMW-01

Matrix (soil/water): WATER

Lab Sample ID: 1120697

Level (low/med): LOW

Date Received: 07/24/08

Concentration Units (ug/L or mg/kg dry weight): µG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.2	U		P
7440-39-3	Barium	23.8			P
7440-43-9	Cadmium	0.35	U		P
7440-47-3	Chromium	1.7	B		P
7439-92-1	Lead	1.2	U		P
7439-97-6	Mercury	0.03	U		CV
7782-49-2	Selenium	4.3	U		P
7440-22-4	Silver	0.72	U		P

9/15/08

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MMW-09 (07/24/08)

Contract: R2845071

Lab Code:

Case No.:

SAS No.:

SDG NO.: MMW-01

Matrix (soil/water): WATER

Lab Sample ID: 1120698

Level (low/med): LOW

Date Received: 07/24/08

Concentration Units (ug/L or mg/kg dry weight): µg/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	10 3.2	B	U	P
7440-39-3	Barium	39.5			P
7440-43-9	Cadmium	0.35	U		P
7440-47-3	Chromium	1.7	B		P
7439-92-1	Lead	1.2	U		P
7439-97-6	Mercury	0.03	U		CV
7782-49-2	Selenium	4.3	U		P
7440-22-4	Silver	0.72	U		P

9/10/08

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MMW-10 (07/24/08)

Contract: R2845071

Lab Code:

Case No.:

SAS No.:

SDG NO.: MMW-01

Matrix (soil/water): WATER

Lab Sample ID: 1120699

Level (low/med): LOW

Date Received: 07/24/08

Concentration Units (ug/L or mg/kg dry weight): µg/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.2	U		P
7440-39-3	Barium	52.8			P
7440-43-9	Cadmium	0.35	U		P
7440-47-3	Chromium	1.2	B ³		P
7439-92-1	Lead	1.2	U		P
7439-97-6	Mercury	0.03	U		CV
7782-49-2	Selenium	5.1	B ³		P
7440-22-4	Silver	0.72	U		P

9/15/08

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MP-01 (07/24/08)

Contract: R2845071

Lab Code:

Case No.:

SAS No.:

SDG NO.: MMW-01

Matrix (soil/water): WATER

Lab Sample ID: 1120700

Level (low/med): LOW

Date Received: 07/24/08

Concentration Units (ug/L or mg/kg dry weight): µG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.2	U		P
7440-39-3	Barium	31.8			P
7440-43-9	Cadmium	0.35	U		P
7440-47-3	Chromium	1.0	B ¹		P
7439-92-1	Lead	1.2	U		P
7439-97-6	Mercury	0.03	U		CV
7782-49-2	Selenium	7.6	B ¹		P
7440-22-4	Silver	0.72	U		P

9/15/08

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

RB20080722

Contract: R2845071

Lab Code:

Case No.:

SAS No.:

SDG NO.: MMW-01

Matrix (soil/water): WATER

Lab Sample ID: 1119959

Level (low/med): LOW

Date Received: 07/22/08

Concentration Units (ug/L or mg/kg dry weight): µG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.2	U		P
7440-39-3	Barium	4.8	U		P
7440-43-9	Cadmium	0.35	U		P
7440-47-3	Chromium	0.67	U		P
7439-92-1	Lead	1.2	U		P
7439-97-6	Mercury	0.03	U		CV
7782-49-2	Selenium	4.3	U		P
7440-22-4	Silver	0.72	U		P

9/15/08

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

ATTACHMENT B

SUPPORT DOCUMENTATION

CASE NARRATIVE

Company: URS Corporation
Project: PACTIV – Macedon, NY
Submission #: R2845071
(Amended)

Water samples were collected on 7/22/08 - 7/24/08 and received at CAS on the same day as sampling in good conditions at cooler temperatures of 4 - 9 °C. A validation type data package has been provided.

VOLATILE ORGANICS - 8260

Eleven water samples and two Trip Blanks were analyzed for the OLM 4.2 list of Volatile Organics by method 8260B from SW-846. Values detected between the MDL and PQL have been flagged with a "J" as estimated. Library Searches against the NBS/EPA library were conducted on all samples. The 20 largest peaks, within 10 % of the nearest Internal Standard, were searched. A summary of detected peaks is included following the Target data. Any analytes detected are quantitated based on the closest internal standard and are reported flagged with a "J" as estimated. The flag "N" on a TIC compound indicates presumptive evidence of a particular compound.

All Tuning criteria for BFB and Internal Standard Areas were within QC limits.

All the initial and continuing calibration criteria were met for all analytes.

All surrogate standard recoveries were within acceptance limits for all samples.

The Blank Spike (LCS) recoveries were all acceptable. The Matrix Spike/Matrix Spike Duplicate Recoveries from sample MMW-06(7/23/08) were all within QC limits. The RPD results were also all within QC limits.

The Method Blanks associated with these samples were free of contamination except a "J" flagged value of Acetone in the lab blank from 7/31/08 and 8/01/08. Any Acetone detected in the samples within 5X of this level has been flagged with a "B".

No other analytical or QC problems were encountered.

SEMIVOLATILE ORGANIC – 8270

Twelve water samples were analyzed for the OLM 4.2 list of Semivolatile Organics by method 8270C from SW-846. Values detected between the MDL and PQL have been flagged with a "J" as estimated. Library Searches against the NBS/EPA library were conducted on all samples. The 20 largest peaks, within 10 % of the nearest Internal Standard, were searched. A summary of detected peaks is included following the Target data. Any analytes detected are quantitated based on the closest internal standard and are reported flagged with a "J" as estimated. The flag "N" on a TIC compound indicates presumptive evidence of a particular compound.

All Tuning criteria for DFTPP and Internal Standard Areas were within QC limits.

All the initial and continuing calibration criteria were met for all analytes.

All surrogate standard recoveries were within acceptance limits for all samples.

The Blank Spike (LCS) recoveries were all acceptable. The Matrix Spike/Matrix Spike Duplicate Recoveries from sample MMW-06(7/23/08) were all within QC limits. The RPD results were all within QC limits.

The Method Blanks associated with these samples were free of contamination.

No analytical or QC problems were encountered.

PCBS – 8082

One water sample was analyzed TCL PCBS by SW-846 method 8082.

All the initial and continuing calibration criteria were met for all analytes.

All surrogate standard recoveries were within acceptance limits for all samples.

The Blank Spike (LCS) recoveries were all acceptable.

The Method Blanks associated with these samples were free of contamination.

No analytical or QC problems were encountered.

METALS ANALYSIS

Twelve water samples were analyzed for a the RCRA list of Metals using SW-846 methods 6010C/7471.

All the initial and continuing calibration criteria were met for all analytes.

The Matrix Spike Recoveries from sample MMW-06(7/23/08) were all within QC limits of 75 – 125 %. The RPD results were all with QC limits. The Blank Spike (LCS) recoveries were all acceptable.

The Method Blanks associated with these samples are free of contamination.

No other analytical or QC problems were encountered.

111995

Cooler Receipt And Preservation Check Form

Project/Client URS Submission Number RA-4506a

Cooler received on 7/22/08 by: HP COURJER: CAS UPS FEDEX VELOCITY CLIENT

1. Were custody seals on outside of cooler? YES NO
2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
3. Did all bottles arrive in good condition (unbroken)? YES NO
4. Did any VOA vials have significant* air bubbles? YES NO N/A
5. Were Ice or Ice packs present? YES NO
6. Where did the bottles originate? CAS/ROG, CLIENT
7. Temperature of cooler(s) upon receipt: 9°

Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes

If No, Explain Below No No No No No

Date/Time Temperatures Taken: 7/22/08 1650

Thermometer ID: 161 / IR GUN#2 / IR GUN#3 Reading From: Temp Blank / Sample Bottle

If out of Temperature, note packing/ice condition, Client Approval to Run Samples: _____

PC Secondary Review: Mr. 7/22/08

Cooler Breakdown: Date: 7/23/08 by: RC

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? YES NO
3. Were correct containers used for the tests indicated? YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies: _____

pH	Reagent	YES	NO	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO ₃	✓		<u>BDB22085B</u>	<u>5/09</u>				
≤2	H ₂ SO ₄								
Residual Chlorine (-)	For TCN and Phenol			If present, contact PM to add ascorbic acid					
	Na ₂ S ₂ O ₃	-	-			*Not to be tested before analysis - pH tested and recorded by VOAs or GenChem on a separate worksheet			
	Zn Aceta	-	-						
	HCl	*	*						

Yes = All samples OK

No = Samples were preserved at lab as listed

PM OK to Adjust: _____

Bottle lot numbers: 0521008-1Y, 032372, 029598, 040708-1Y

Other Comments: _____

PC Secondary Review: _____

*significant air bubbles are greater than 5-6 mm

R2845071

CHAIN OF CUSTODY RECORD

*TESTS

URS

PROJECT NO.

11175654-00001

SITE NAME

RACIN, MACCORM, NY

SAMPLERS (PRINT/SIGNATURE)

KEVIN P. MCGOWAN

VIALS VIA

8260 B

5VOC'S VIA

8270 C

VIALS VIA

8270 C

VIALS VIA

8270 C

VIALS VIA

8270 C

VIALS VIA

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VIALS VIA

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VIALS VIA

8270 C

VIALS VIA

8270 C

BOTTLE TYPE AND PRESERVATIVE

LAB Con. LabCOOLER 182 of 2PAGE 1 of 1

DELIVERY SERVICE:

AIRBILL NO.:

CLIENT DROP OFF

TOTAL NO. # OF
CONTAINERS40% VIALS
w/ HCL1L AMBER
GLASS80% PLASTIC
w/ HNO380% PLASTIC
w/ HNO380% PLASTIC
w/ HNO380% PLASTIC
w/ HNO380% PLASTIC
w/ HNO380% PLASTIC
w/ HNO380% PLASTIC
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w/ HNO380% PLASTIC
w/ HNO380% PLASTIC
w/ HNO380% PLASTIC
w/ HNO380% PLASTIC
w/ HNO3

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS
MMW-1	7/23/08	15:55	GRAB	MMW-01 (07/23/2008)	WG	6
MMW-2		14:50		MMW-02 (07/23/2008)		
MMW-3		13:55		MMW-03 (07/23/2008)		
MMW-4		12:30		MMW-04 (07/23/2008)		
MMW-5		09:30		MMW-05 (07/23/2008)		
MMW-6		10:55		MMW-06 (07/23/2008)		
				MMW-06 (07/23/2008) MS		
				MMW-06 (07/23/2008) MS		
				TRIP BLANK		3

REMARKS

SAMPLE TYPE

BEGINNING
DEPTH (IN FEET)ENDING
DEPTH (IN FEET)FIELD NO. #
(JULIANS)MATRIX
CODESAA - AMBIENT AIR
SE - SEDIMENT
SH - HAZARDOUS SOLID WASTESL - SLUDGE
WP - DRINKING WATER
WW - WASTE WATERWG - GROUND WATER
SO - SOIL
DC - DRILL CUTTINGSWL - LEACHATE
GS - SOIL GAS
WC - DRILLING WATERWO - OCEAN WATER
WS - SURFACE WATER
WQ - WATER FIELD QCLH - HAZARDOUS LIQUID WASTE
LF - FLOATING/FREE PRODUCT ON GW TABLESAMPLE
TYPE CODESTB# - TRIP BLANK
SD# - MATRIX SPIKE DUPLICATERB# - RINSE BLANK
FR# - FIELD REPLICATEN# - NORMAL ENVIRONMENTAL SAMPLE
MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)

DATE

TIME

RECEIVED BY (SIGNATURE)

DATE

TIME

RELINQUISHED BY (SIGNATURE)

DATE

TIME

RECEIVED FOR LAB BY (SIGNATURE)

DATE

TIME

SPECIAL INSTRUCTIONS See Invoice, LOD & MYSOC ASP LOT B DATA RACIN TO: ARN JIM LEHMAN
URS CORPORATION
77 GOODWIN ST.
BUFFALO, NY 14203
(716) 856-5686

* TOTAL METALS

Distribution: Original accompanies shipment, copy to coordinator field files

Cooler Receipt And Preservation Check Form

Project/Client URS Submission Number 92845071Cooler received on 7/23/08 by: RG COURIER: CAS UPS FEDEX VELOCITY CLIENT

- Were custody seals on outside of cooler? YES NO
- Were custody papers properly filled out (ink, signed, etc.)? YES NO
- Did all bottles arrive in good condition (unbroken)? YES NO
- Did any VOA vials have significant* air bubbles? YES NO N/A
- Were ~~ice~~ or Ice packs present? YES NO
- Where did the bottles originate? CAS/ROC, CLIENT
- Temperature of cooler(s) upon receipt: 5° 4°

Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes

If No, Explain Below No No No No No

Date/Time Temperatures Taken: 7/23/08 @ 1700Thermometer ID: 161 / IR GUN#2 / IR GUN#3 Reading From: Temp Blank / Sample Bottle

If out of Temperature, note packing/ice condition, Client Approval to Run Samples:

PC Secondary Review: _____

Cooler Breakdown: Date: 7/24/08 by: W

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- Did all bottle labels and tags agree with custody papers? YES NO
- Were correct containers used for the tests indicated? YES NO
- Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies: _____

pH	Reagent	YES	NO	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO ₃	☒		<u>6DB2605D</u>	<u>05/09</u>				
≤2	H ₂ SO ₄								
Residual Chlorine (-)	For TCN and Phenol			If present, contact PM to add ascorbic acid					
	Na ₂ S ₂ O ₃	-	-			*Not to be tested before analysis – pH tested and recorded by VOAs or GenChem on a separate worksheet			
	Zn Aceta	-	-						
	HCl	*	*	<u>ES0211</u>	<u>06/09</u>				

Yes = All samples OK

No = Samples were preserved at lab as listed

PM OK to Adjust: _____

Bottle lot numbers: 052608-14, 032372, 8-116-002,

Other Comments: _____

PC Secondary Review: _____

*significant air bubbles are greater than 5-6 mm

R2845071

CHAIN OF CUSTODY RECORD

TESTS

URS

PROJECT NO.
11175654-00001SITE NAME
PACTIV, MALECON, NY

SAMPLERS (PRINT/SIGNATURE)

KEVIN MCGOVERA / *Kj/m*

LAB COLUMBIA

COOLER 1 of 2

PAGE 1 of 1

BOTTLE TYPE AND PRESERVATIVE

DELIVERY SERVICE:

Drop-off

AIRBILL NO.:

TOTAL NO. OF CONTAINERS

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	40 mL vial	1 L Amber	600 mL	8 oz Plastic	1 L NO3	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD USE NO. # (PRIMS)
mmw-9	7/24/08	1330	G	mmw-09(07/24/2008)	WG	6	3	2	1				N ₁	-	-	
mmw-10	7/24/08	1430	G	mmw-10(07/24/2008)	WG	6	3	2	1				N ₁	-	-	
mmw-8	7/24/08	1545	G	mmw-08(07/24/2008)	WG	6	3	2	1				N ₁	-	-	
mmw-7	7/24/08	1115	G	mmw-07(07/24/2008)	WG	6	3	2	1				N ₁	-	-	
mp-1	7/24/08	1240	G	mp-01(07/24/2008)	WG	6	3	2	1				N ₁	-	-	
TRIP BLANK	7/24/08	-	-	TRIP BLANK(7/24/08)	-	3	3						TB ₁	-	-	

MATRIX CODES

AA - AMBIENT AIR
SE - SEDIMENT
SH - HAZARDOUS SOLID WASTESL - SLUDGE
WP - DRINKING WATER
WW - WASTE WATERWG - GROUND WATER
SO - SOIL
DC - DRILL CUTTINGSWL - LEACHATE
GS - SOIL GAS
WC - DRILLING WATERWO - OCEAN WATER
WS - SURFACE WATER
WQ - WATER FIELD QCLH - HAZARDOUS LIQUID WASTE
LF - FLOATING FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES

TB# - TRIP BLANK
SD# - MATRIX SPIKE DUPLICATERB# - RINSE BLANK
FR# - FIELD REPLICATEN# - NORMAL ENVIRONMENTAL SAMPLE
MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
<i>Kj/m</i>	7/24/08	16:45	<i>Kevin McGovera</i>	7/24/08	16:45
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS SEND INVOICE, EVD + NYSDEC ASP CAT B DATA PACKAGE

TO:
ATTN: Jim LETHBRIDGE
URS CORPORATION
77 GORDELL ST.
BUFFALO, NY 14203

(716) 856-5636

X = TOTAL METALS

PCN

Distribution: Original accompanies shipment, copy to coordinator field files

Cooler Receipt And Preservation Check Form

Project/Client LRS Submission Number R2-45071

Cooler received on 7/24/08 by: UNC COURIER: CAS UPS FEDEX VELOCITY CLIENT

- Were custody seals on outside of cooler? YES NO
- Were custody papers properly filled out (ink, signed, etc.)? YES NO
- Did all bottles arrive in good condition (unbroken)? YES NO
- Did any VOA vials have significant* air bubbles? YES NO N/A
- Were Ice or Ice packs present? YES NO
- Where did the bottles originate? CAS/ROC, CLIENT
- Temperature of cooler(s) upon receipt: 5°C 6°C

Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes

If No, Explain Below No No No No No

Date/Time Temperatures Taken: 7/24/08 1700

Thermometer ID: 161 / IR GUN#2 / IR GUN#3 Reading From: Temp Blank / Sample Bottle

If out of Temperature, note packing/ice condition, Client Approval to Run Samples: _____

PC Secondary Review: WKP 7/24/08

Cooler Breakdown: Date: 7/24/08 by: RJ

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- Did all bottle labels and tags agree with custody papers? YES NO
- Were correct containers used for the tests indicated? YES NO
- Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies: _____

pH	Reagent	YES	NO	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO ₃	✓		BDB2685B	5/09				
≤2	H ₂ SO ₄								
Residual Chlorine (-)	For TCN and Phenol			If present, contact PM to add ascorbic acid					
	Na ₂ S ₂ O ₃	-	-			*Not to be tested before analysis – pH tested and recorded by VOAs or GenChem on a separate worksheet			
	Zn Aceta	-	-						
	HCl	*	*						

Yes = All samples OK

No = Samples were preserved at lab as listed

PM OK to Adjust: _____

Bottle lot numbers: 8-116-003, 052608-1Y, 032372

Other Comments: _____

PC Secondary Review: _____

*significant air bubbles are greater than 5-6 mm

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MBLK1

Lab Name: CASROCH Contract: URS
Lab Code: 10145 Case No.: R8-45071 SAS No.: SDG No.: MMW-01
Lab File ID: V5956.D Lab Sample ID: 1123903 1.0
Date Analyzed: 07/31/08 Time Analyzed: 10:49
GC Column: DB-624 ID: 0.2 (mm) Heated Purge: (Y/N) N
Instrument ID: MSVOA3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS1	1123904 1.0	V5954.D	09:38
02	MMW-01	1120241 1.0	V5964.D	15:43
03	MMW-02	1120242 1.0	V5965.D	16:20
04	MMW-03	1120243 1.0	V5966.D	16:56
05	MMW-04	1120244 1.0	V5967.D	17:32

COMMENTS

COLUMBIA ANALYTICAL SERVICESVOLATILE ORGANICS
METHOD 8260B 360 BASELINE
Reported: 08/21/08Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 1123898	Sample Matrix: WATER
Date Received:	Submission #:	Analytical Run 165256

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/31/08			
ANALYTICAL DILUTION: 1.00			
ACETONE	20	1.9 J	UG/L
ACRYLONITRILE	100	100 U	UG/L
BENZENE	5.0	5.0 U	UG/L
BROMOCHLOROMETHANE	5.0	5.0 U	UG/L
BROMODICHLOROMETHANE	5.0	5.0 U	UG/L
BROMOFORM	5.0	5.0 U	UG/L
BROMOMETHANE	5.0	5.0 U	UG/L
2-BUTANONE (MEK)	10	10 U	UG/L
TRANS-1,4-DICHLORO-2-BUTENE	5.0	5.0 U	UG/L
CARBON DISULFIDE	10	10 U	UG/L
CARBON TETRACHLORIDE	5.0	5.0 U	UG/L
CHLOROBENZENE	5.0	5.0 U	UG/L
CHLOROETHANE	5.0	5.0 U	UG/L
CHLOROFORM	5.0	5.0 U	UG/L
CHLOROMETHANE	5.0	5.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/L
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/L
1,2-DIBROMOETHANE	5.0	5.0 U	UG/L
DIBROMOMETHANE	5.0	5.0 U	UG/L
1,4-DICHLOROBENZENE	5.0	5.0 U	UG/L
1,2-DICHLOROBENZENE	5.0	5.0 U	UG/L
1,1-DICHLOROETHANE	5.0	5.0 U	UG/L
1,2-DICHLOROETHANE	5.0	5.0 U	UG/L
1,1-DICHLOROETHENE	5.0	5.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/L
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/L
ETHYLBENZENE	5.0	5.0 U	UG/L
2-HEXANONE	10	10 U	UG/L
IODOMETHANE	10	10 U	UG/L
METHYLENE CHLORIDE	5.0	5.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/L
STYRENE	5.0	5.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
1,1,1,2-TETRACHLOROETHANE	5.0	5.0 U	UG/L
TETRACHLOROETHENE	5.0	5.0 U	UG/L
TOLUENE	5.0	5.0 U	UG/L
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/L
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/L
TRICHLOROETHENE	5.0	5.0 U	UG/L
TRICHLOROFLUOROMETHANE	5.0	5.0 U	UG/L
1,2,3-TRICHLOROPROPANE	5.0	5.0 U	UG/L
VINYL ACETATE	10	10 U	UG/L

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MBLK2

Lab Name: CASROCH Contract: URS
 Lab Code: 10145 Case No.: R8-45071 SAS No.: _____ SDG No.: MMW-01
 Lab File ID: V5986.D Lab Sample ID: 1123939 1.0
 Date Analyzed: 08/01/08 Time Analyzed: 11:41
 GC Column: DB-624 ID: 0.2 (mm) Heated Purge: (Y/N) N
 Instrument ID: MSVOA3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS2	1123940 1.0	V5984.D	10:30
02	MMW-05	1120245 1.0	V5987.D	12:17
03	MMW-07	1120696 1.0	V5989.D	13:30
04	MMW-08	1120697 1.0	V5990.D	14:05
05	MMW-10	1120699 1.0	V5992.D	15:18
06	MP-01	1120700 1.0	V5993.D	15:54
07	TB072408	1120701 1.0 TB	V5994.D	16:30
08	TB072308	1121765 1.0 TB	V5995.D	17:06
09	MMW-06	1120246 1.0	V5999.D	19:30
10	MMW-06MS	1123943 1.0 MS	V6000.D	20:06
11	MMW-06MSD	1123944 1.0 MSD	V6001.D	20:42

COMMENTS

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B

Reported: 08/21/08

Project Reference:

Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 1123939	Sample Matrix: WATER
Date Received:	Submission #:	Analytical Run 165262

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 08/01/08			
ANALYTICAL DILUTION: 1.00			
ACETONE	10	1.3 J	UG/L
BENZENE	1.0	1.0 U	UG/L
BROMODICHLOROMETHANE	1.0	1.0 U	UG/L
BROMOFORM	1.0	1.0 U	UG/L
BROMOMETHANE	2.0	2.0 U	UG/L
2-BUTANONE (MEK)	5.0	5.0 U	UG/L
METHYL-TERT-BUTYL ETHER	1.0	1.0 U	UG/L
CARBON DISULFIDE	1.0	1.0 U	UG/L
CARBON TETRACHLORIDE	1.0	1.0 U	UG/L
CHLOROBENZENE	1.0	1.0 U	UG/L
CHLOROETHANE	2.0	2.0 U	UG/L
CHLOROFORM	1.0	1.0 U	UG/L
CHLOROMETHANE	2.0	2.0 U	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	2.0	2.0 U	UG/L
CYCLOHEXANE	1.0	1.0 U	UG/L
DIBROMOCHLOROMETHANE	1.0	1.0 U	UG/L
1,2-DIBROMOETHANE	1.0	1.0 U	UG/L
1,3-DICHLOROBENZENE	1.0	1.0 U	UG/L
1,4-DICHLOROBENZENE	1.0	1.0 U	UG/L
1,2-DICHLOROBENZENE	1.0	1.0 U	UG/L
DICHLORODIFLUOROMETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHANE	1.0	1.0 U	UG/L
1,2-DICHLOROETHANE	1.0	1.0 U	UG/L
1,1-DICHLOROETHENE	1.0	1.0 U	UG/L
CIS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
TRANS-1,2-DICHLOROETHENE	1.0	1.0 U	UG/L
1,2-DICHLOROPROPANE	1.0	1.0 U	UG/L
CIS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
TRANS-1,3-DICHLOROPROPENE	1.0	1.0 U	UG/L
ETHYLBENZENE	1.0	1.0 U	UG/L
2-HEXANONE	5.0	5.0 U	UG/L
ISOPROPYLBENZENE	1.0	1.0 U	UG/L
METHYL ACETATE	10	10 U	UG/L
METHYLCYCLOHEXANE	1.0	1.0 U	UG/L
METHYLENE CHLORIDE	1.0	1.0 U	UG/L
4-METHYL-2-PENTANONE (MIBK)	5.0	5.0 U	UG/L
STYRENE	1.0	1.0 U	UG/L
1,1,2,2-TETRACHLOROETHANE	1.0	1.0 U	UG/L
TETRACHLOROETHENE	1.0	1.0 U	UG/L
TOLUENE	1.0	1.0 U	UG/L
1,2,4-TRICHLOROBENZENE	1.0	1.0 U	UG/L
1,1,1-TRICHLOROETHANE	1.0	1.0 U	UG/L
1,1,2-TRICHLOROETHANE	1.0	1.0 U	UG/L
TRICHLOROETHENE	1.0	1.0 U	UG/L
TRICHLOROFLUOROMETHANE	1.0	1.0 U	UG/L

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CASROCH Contract: URS
 Lab Code: 10145 Case No.: R8-45071 SAS No.: SDG No.: MMW-01
 Lab File ID: V6032.D BFB Injection Date: 08/05/08
 Instrument ID: MSVOA3 BFB Injection Time: 11:43
 GC Column: DB-624 ID: 0.20 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.0
75	30.0 - 60.0% of mass 95	47.0
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	76.6
175	5.0 - 9.0% of mass 174	5.7 (7.5)1
176	95.0 - 101.0% of mass 174	75.6 (98.6)1
177	5.0 - 9.0% of mass 176	5.6 (7.5)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD3	CCV	V6033.D	08/05/08	12:16
02	LCS3	1123990 1.0	V6034.D	08/05/08	12:52
03	MBLK3	1123989 1.0	V6036.D	08/05/08	14:04
04	MMW-09	1120698 1.0	V6039.D	08/05/08	15:53

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\MSVOA3\DATA\080508\V6033.D
 Acq On : 5 Aug 108 12:16 pm
 Sample : CCV
 Misc :

Vial: 1
 Operator: D.ZIMPFER
 Inst : MS #3
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\WAT0414.M
 Title : 8260voa
 Last Update : Thu May 08 13:00:37 2008
 Response via : Multiple Level Calibration

D2015

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	Pentafluorobenzene	1.000	1.000	0.0	126	0.02
2	Dichlorodifluoromethane	0.536	0.443	22.5	17.5	102 0.00
3 p	Chloromethane	1.010	0.946	6.4	118	0.00
4 c	Vinyl Chloride	0.841	0.805	4.3	117	0.00
5	Bromomethane	0.462	0.341	24.2	26.2	100 0.00
6	Chloroethane	0.528	0.533	-1.0	129	0.00
7	FREON 21	1.430	1.437	-0.5	142	0.01
8	Trichlorofluoromethane	0.814	0.633	22.3	95	0.01
9	Diethyl Ether	0.648	0.642	1.1	122	0.01
10	FREON 123A	0.820	0.801	2.3	132	0.01
11	Acrolein	0.172	0.138	19.9	98	0.00
12	FREON 113	0.224	0.184	17.8	98	0.02
13	FREON 123	0.827	0.850	-2.8	133	0.01
14 c	1,1-Dicethene	0.515	0.462	10.3	108	0.02
15	Acetone	0.322	0.262	18.5	97	0.00
16	Iodomethane	0.220	0.209	35.8	5.0	101 0.02
17	Carbon Disulfide	2.360	2.476	-4.9	144	0.02
18	2-PROPANOL	0.070	0.063	9.7	105	0.00
19	Allyl Chloride	0.357	0.348	2.3	126	0.02
20	Methyl Acetate	1.242	0.947	23.7	102	0.01
21	Methylene Chloride	0.730	0.679	7.0	122	0.02
22	TBA	0.095	0.087	8.8	102	0.00
23	Acrylonitrile	0.357	0.356	0.2	121	0.02
24	Methyl-t-Butyl Ether	2.131	1.932	9.3	113	0.01
25	trans-1,2-Dichloroethene	0.596	0.559	6.3	113	0.01
26 p	1,1-Dicethane	1.337	1.219	8.9	113	0.02
27	Vinyl Acetate	1.627	1.964	-20.7	176	0.02
28	2-Chloro-1,3-butadiene	1.164	1.004	13.7	111	0.02
29	2,2-Dichloropropane	0.965	0.756	21.7	97	0.02
30	2-Butanone	0.603	0.523	13.2	111	0.01
31	cis-1,2-Dichloroethene	0.665	0.650	2.2	121	0.02
32	Propionitrile	0.128	0.122	4.7	114	0.01
33	Methacrylonitrile	0.343	0.322	6.2	117	0.02
34	Bromochloromethane	0.342	0.327	4.5	121	0.02
35 c	Chloroform	1.144	0.957	16.4	103	0.02
36	Tetrahydrofuran	0.359	0.312	13.0	114	0.01
37	1,1,1-Trichloroethane	0.829	0.644	22.3	93	0.02
38 I	1,4 - Difluorobenzene	1.000	1.000	0.0	130	0.02
39 s	surr4,Dibrflmethane	0.352	0.328	6.9	122	0.02
40	cyclohexane	0.836	0.770	7.9	130	0.02
41	Carbontetrachloride	0.403	0.302	25.0	92	0.02

9/10/08

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\MSVOA3\DATA\080508\V6033.D
 Acq On : 5 Aug 108 12:16 pm
 Sample : CCV
 Misc :

Vial: 1
 Operator: D.ZIMPFER
 Inst : MS #3
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA3\METHODS\WAT0414.M
 Title : 8260voa
 Last Update : Thu May 08 13:00:37 2008
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	1,1-Dichloropropene	0.578	0.462	20.1	104	0.02
43	Iso-Butyl Alcohol	0.035	0.029	16.7	16.9	0.01
44	Benzene	1.533	1.396	8.9	115	0.02
45 S	surr1,1,2-Dicethane	0.470	0.381	18.9	103	0.01
46	1,2-Dichloroethane	0.609	0.483	20.8	100	0.02
47	N-Heptane	0.498	0.397	20.2	105	0.02
48	Trichloroethene	0.359	0.295	17.9	102	0.02
49	methylcyclohexane	0.525	0.459	12.5	124	0.02
50 c	1,2-Dichloropropane	0.466	0.441	5.4	125	0.02
51	Methyl Methacrylate	0.376	0.329	12.5	115	0.02
52	1,4-Dioxane	0.004	0.004	4.2	107	0.02
53	Dibromomethane	0.248	0.233	5.9	115	0.02
54	Bromodichloromethane	0.495	0.447	9.7	112	0.02
55	2-Nitropropane	0.000	0.000	0.0	0#	0.17
56	2-Chloroethylvinyl Ether	0.210	0.276	0.26	31.9#	0.02
57	cis-1,3-Dichloropropene	0.693	0.658	5.1	119	0.02
58 I	d5 - Chlorobenzene	1.000	1.000	0.0	136	0.02
59	4-Methyl-2-Pentanone	0.849	0.687	19.1	112	0.02
60 c	Toluene	1.596	1.365	14.5	116	0.02
61	trans-1,3-Dichloropropene	0.720	0.642	10.8	117	0.02
62	Ethyl Methacrylate	0.748	0.683	8.7	119	0.02
63	1,1,2-Trichloroethane	0.360	0.321	10.6	126	0.02
64 s	surr3,Toluene-d8	1.293	1.256	2.9	127	0.02
65 s	surr2,bfb	0.486	0.465	4.3	127	0.03
66	Tetrachloroethene	0.344	0.289	25.6	16.0	0.02
67	2-Hexanone	0.575	0.473	17.6	106	0.02
68	1,3-Dichloropropane	0.780	0.719	7.8	124	0.03
69	Dibromochloromethane	0.386	0.366	5.2	116	0.03
70	1,2-Dibromoethane	0.378	0.358	5.3	117	0.03
71 p	Chlorobenzene	0.954	0.846	11.3	117	0.02
72	1,1,1,2-Tetrachloroethane	0.347	0.314	9.7	117	0.02
73 c	Ethylbenzene	1.695	1.425	16.0	111	0.02
74	(m+p)Xylene	0.581	0.527	9.3	118	0.02
75	o-Xylene	0.570	0.510	10.5	121	0.04
76	Styrene	0.994	0.914	8.1	121	0.03
77 p	Bromoform	0.236	0.229	16.0	3.3	0.03
78	Isopropylbenzene	1.334	1.128	15.4	111	0.03
79	Cyclohexanone	0.104	0.073	30.2#	85	0.02
80 I	d4 - Dichlorobenzene	1.000	1.000	0.0	130	0.02
81 p	1,1,2,2-Tetrachloroethane	1.161	1.105	4.8	122	0.03

(#) = Out of Range

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CAS-ROCH Contract: URS
 Lab Code: 10145 Case No.: R845071 SAS No.: SDG No.: MMW-01
 Lab File ID: BT330.D DFTPP Injection Date: 7/31/08
 Instrument ID: 5973-B DFTPP Injection Time: 12:36

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	36.1
68	Less than 2.0% of mass 69	0.8 (1.5)1
69	Mass 69 Relative abundance	52.3
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	45.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.3
275	10.0 - 30.0% of mass 198	28.4
365	Greater than 1.0% of mass 198	4.9
441	Present, but less than mass 443	13.6
442	40.0 - 100.0% of mass 198	95.2
443	17.0 - 23.0% of mass 442	19.3 (20.2)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD180	CALIBRATION CHECK	BT331.D	7/31/08	13:49
02	SBLK2	1123310 1.0	BT333.D	7/31/08	15:55
03	SBLK2MS	1123311 1.0	BT334.D	7/31/08	16:37
04	SBLK2MSD	1123312 1.0	BT335.D	7/31/08	17:19
05	SBLK1	1121328 1.0	BT340.D	7/31/08	20:50
06	SBLK1MS	1121329 1.0	BT341.D	7/31/08	21:32
07	SBLK1MSD	1121330 1.0	BT342.D	7/31/08	22:13
08	RB20080722	1119959 0.95	BT343.D	7/31/08	22:55

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973A\DATA\073108\BT331.D
 Acq On : 31 Jul 2008 1:49 pm
 Sample : CALIBRATION CHECK
 Misc : 80 ppm std 8270/625
 MS Integration Params: RTEINT.P

Vial: 1
 Operator: Z.Miao
 Inst : 5973-A
 Multiplr: 1.00

UK: #40152

Method : J:\ACQUDATA\5973A\METHODS\82700730.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Thu Jul 31 07:43:35 2008
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 IR	d4-1,4-Dichlorobenzene	1.000	1.000	0.0	153	0.00
2 T	Pyridine	1.801	1.722	4.4	147	0.00
3 T	N-Nitrosodimethylamine	1.026	0.969	5.6	146	0.00
4 S	SURR1,2-FLUOROPHENOL	1.271	1.226	3.5	147	0.00
5 T	Benzaldehyde	0.646	0.480	25.7#	102	0.00
6 T	Aniline	2.786	2.584	7.3	143	0.00
7 S	SURR2, PHENOL-D6	2.128	2.010	5.5	143	0.00
8 TMC	Phenol	2.401	2.230	7.1	145	0.00
9 T	bis(2-Clethyl) Ether	1.829	1.682	8.0	146	0.00
10 TM	2-Chlorophenol	1.334	1.281	4.0	149	0.00
11 T	1,3-Diclbzene	1.565	1.473	5.9	145	0.00
12 TMC	1,4-Dichlorobenzene	1.594	1.501	5.8	148	0.00
13 T	1,2-Diclbzene	1.530	1.441	5.8	147	0.00
14 T	Benzyl Alcohol	1.895	1.837	3.1	145	0.00
15 T	2,2'-oxybis(1-Chloropropane	1.543	1.399	9.3	141	0.00
16 T	2-Methylphenol	1.492	1.344	9.9	139	0.00
17 T	Acetophenone	2.494	2.299	7.8	139	0.00
18 TMP	N-Nitroso-Di-n-propylamine	1.723	1.593	7.5	143	0.00
19 T	Hexachloroethane	0.829	0.798	3.7	146	0.00
20 T	4-Methylphenol	1.652	1.547	6.4	142	0.00
21 T	1-Methyl-2-pyrrolidinone	1.212	1.112	8.3	140	0.00
22 IR	d8-Naphthalene	1.000	1.000	0.0	145	0.00
23 S	SURR4,NITROBENZENE-D5	0.625	0.605	3.2	141	0.00
24 T	Nitrobenzene	0.607	0.593	2.3	139	0.00
25 T	Isophorone	1.076	1.045	2.9	142	0.00
26 TC	2-Nitrophenol	0.193	0.200	-3.6	152	0.00
27 T	Benzoic Acid	0.323	0.272	15.8	125	0.00
28 T	2,4-Dimethylphenol	0.480	0.471	1.9	141	0.00
29 T	bis(-2-Chloroethoxy) Methane	0.575	0.568	1.2	144	0.00
30 TC	2,4-Dichlorophenol	0.299	0.294	1.7	142	0.00
31 TM	1,2,4-Trichlorobenzene	0.370	0.368	0.5	148	0.00
32 T	Naphthalene	1.014	0.994	2.0	142	0.00
33 T	4-Chloroaniline	0.419	0.401	4.3	135	0.00
34 TC	Hexachlorobutadiene	0.241	0.243	-0.8	146	0.00
35 TMC	4-Chloro-3-methylphenol	0.432	0.425	1.6	143	0.00
36 T	Caprolactam	0.144	0.134	6.9	137	0.00
37 T	2-Methylnaphthalene	0.723	0.719	0.6	143	0.00
38 T	1-Methylnaphthalene	0.692	0.685	1.0	143	0.00
39 IR	d10-Acenaphthene	1.000	1.000	0.0	149	0.00

(#) = Out of Range

BT331.D 82700730.M

Mon Aug 04 09:27:41 2008

W

Page 1

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METALS

-14-

ANALYSIS RUN LOG

Contract: R2845071

Lab Code:

Case No.:

SAS No.:

SDG No.: MMW-01

Instrument ID Number: Optima ICP 3

Method: P

Start Date: 7/31/2008

End Date: 8/1/2008

9/10/08

Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C F	P U	M B	M G	M N	H I	N G	K S	S E	A G	N A	T L	V Z	C N					
PBW ✓	1.00	22:31				X	X		X		X			X						X	X										
LCSW	1.00	22:36				X	X		X		X			X						X	X										
RB20080722 ✓	1.00	22:42				X	X		X		X			X						X	X										
MMW-01 (07/23/08) ✓	1.00	22:48				X	X		X		X			X						X	X										
MMW-02 (07/23/08) ✓	1.00	22:54				X	X		X		X			X						X	X										
MMW-03 (07/23/08) ✓	1.00	22:59				X	X		X		X			X						X	X										
MMW-04 (07/23/08) ✓	1.00	23:05				X	X		X		X			X						X	X										
MMW-05 (07/23/08) ✓	1.00	23:11				X	X		X		X			X						X	X										
MMW-06 (07/23/08) ✓	1.00	23:17				X	X		X		X			X						X	X										
MMW-06 (07/23/08) D ✓	1.00	23:22				X	X		X		X			X						X	X										
CCV4 ✓	1.00	23:28				X	X		X		X			X						X	X										
CCB4 ✓	1.00	23:34				X	X		X		X			X						X	X										
MMW-06 (07/23/08) S ✓	1.00	23:40				X	X		X		X			X						X	X										
MMW-06 (07/23/08) A ✓	1.00	23:46				X	X		X		X			X						X	X										
MMW-06 (07/23/08) L ✓	5.00	23:51				X	X		X		X			X						X	X										
MMW-07 (07/24/08) ✓	1.00	23:57				X	X		X		X			X						X	X										
MMW-08 (07/24/08) ✓	1.00	00:03				X	X		X		X			X						X	X										
MMW-09 (07/24/08) ✓	1.00	00:09				X	X		X		X			X						X	X										
MMW-10 (07/24/08) ✓	1.00	00:14				X	X		X		X			X						X	X										
MP-01 (07/24/08) ✓	1.00	00:20				X	X		X		X			X						X	X										
ZZZZZZ	1.00	00:26																													
ZZZZZZ	5.00	00:32																													
CCV5 ✓	1.00	00:38				X	X		X		X			X						X	X										
CCB5 ✓	1.00	00:43				X	X		X		X			X						X	X										
ZZZZZZ	1.00	00:49																													
ZZZZZZ	1.00	00:55																													
ZZZZZZ	1.00	01:01																													
ZZZZZZ	1.00	01:07																													
ZZZZZZ	1.00	01:12																													
CCV6 ✓	1.00	01:18				X	X		X		X			X						X	X										
CCB6 ✓	1.00	01:24				X	X		X		X			X						X	X										
CRDL3 ✓	1.00	01:30				X	X		X		X			X						X	X										

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

-3-

BLANKS

Contract: R2845071

Lab Code:

Case No.:

SAS No.:

SDG NO.: MMW-01

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Preparation Blank	C	M
			1	C	2	C	3	C			
Arsenic			2.2	U	2.7	B	2.2	U			P
Barium			4.8	U	4.8	U	4.8	U			P
Cadmium			0.4	U	0.4	U	0.4	U			P
Chromium			0.5	U	0.5	U	0.5	U			P
Lead			1.2	U	1.2	U	1.2	U			P
Mercury			0.03	U	0.03	U					CV
Selenium			4.3	U	4.3	U	4.3	U			P
Silver			0.7	U	0.7	U	0.7	U			P

8/21/08
0043

METALS

-10-

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Contract: R2845071

Lab Code:

Case No.:

SAS No.:

SDG NO.: MMW-01

ICP ID Number: Optima ICP 3

Date: 05/15/08

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Arsenic	188.979		10.0	2.2	P
Barium	233.53		20.0	4.8	P
Cadmium	226.50		5.0	0.4	P
Chromium	267.72		10.0	0.5	P
Lead	220.35		5.0	1.2	P
Selenium	196.03		10.0	4.3	P
Silver	328.07		10.0	0.7	P

Comments

CASE NARRATIVE

Company: URS Corporation
Project: PACTIV – Macedon, NY
Submission #: R2845062
(Amended)

Soil samples were collected on 7/22/08 and received at CAS on 7/22/08 in good conditions at a cooler temperature of 9 °C. A validation type data package has been provided.

Note: Sample MMW-10 8.5'-9' listed on the COC was cancelled by the client.

VOLATILE ORGANICS - 8260

Three soil samples were analyzed for the OLM 4.2 list of Volatile Organics by method 8260B from SW-846. Values detected between the MDL and PQL have been flagged with a "J" as estimated. Library Searches against the NBS/EPA library were conducted on all samples. The 20 largest peaks, within 10 % of the nearest Internal Standard, were searched. A summary of detected peaks is included following the Target data. Any analytes detected are quantitated based on the closest internal standard and are reported flagged with a "J" as estimated. The flag "N" on a TIC compound indicates presumptive evidence of a particular compound.

All Tuning criteria for BFB and Internal Standard Areas were within QC limits.

All the initial and continuing calibration criteria were met for all analytes.

All surrogate standard recoveries were within acceptance limits for all samples.

The Blank Spike (LCS) recoveries were all acceptable. The Matrix Spike/Matrix Spike Duplicate Recoveries from sample MMW-9 4'-8' were all within QC limits except the recovery for Dichlorodifluoromethane 132 % was just above the QC limits. The recovery was flagged with an "**". No data was affected. The RPD results were also all with QC limits.

The Method Blanks associated with these samples were free of contamination except a "J" flagged value of Acetone (2.40 ug/l). The Acetone detected in sample MMW-9 4'-8' has been flagged with a "B".

No other analytical or QC problems were encountered.

SEMIVOLATILE ORGANICS – 8270

Seven soil samples were analyzed for the OLM 4.2 list of Semivolatile Organics by method 8270C from SW-846. Values detected between the MDL and PQL have been flagged with a "J" as estimated. Library Searches against the NBS/EPA library were conducted on all samples. The 20 largest peaks, within 10 % of the nearest Internal Standard, were searched. A summary of detected peaks is included following the Target data. Any analytes detected are quantitated based on the closest internal standard and are reported flagged with a "J" as estimated. The flag "N" on a TIC compound indicates presumptive evidence of a particular compound.

Note: Sample SS-4 was analyzed at dilution due to the black, viscous, almost solid like sample matrix of the original extract. The sample was analyzed at a 1/100 dilution then re-analyzed at a 1/10 dilution since no target analytes were seen. A lesser dilution cannot be drawn up into the syringe.

All Tuning criteria for DFTPP and Internal Standard Areas were within QC limits.

All the initial and continuing calibration criteria were met for all analytes.

All surrogate standard recoveries were within acceptance limits for all samples.

The Blank Spike (LCS) recoveries were all acceptable. The Matrix Spike/Matrix Spike Duplicate Recoveries from samples SS-3(07/22/2008) and MMW-9 4'-8' were all within QC limits except 2, 4-Dinitrotoulene and 4-Nitrophenol on the MSD for sample MW-9 4'-8' were slightly elevated, The recoveries were flagged with an "**". No data was affected. The RPD results were all with QC limits.

The Method Blanks associated with these samples were free of contamination.

No analytical or QC problems were encountered.

PCBS – 8082

Four soil samples were analyzed TCL PCBS by SW-846 method 8082.

All the initial and continuing calibration criteria were met for all analytes.

All surrogate standard recoveries were within acceptance limits for all samples.

The Blank Spike (LCS) recoveries were all acceptable. The Matrix Spike/Matrix Spike Duplicate Recoveries from sample SS-3(07/22/2008) were all within QC limits. The RPD results were also all with QC limits.

The Method Blanks associated with these samples were free of contamination.

No analytical or QC problems were encountered.

METALS ANALYSIS

Seven soil samples were analyzed for a the RCRA list of Metals using SW-846 methods 6010C/7471.

All the initial and continuing calibration criteria were met for all analytes.

Company: URS Corporation
Project: Pactiv – Macedon
Submission #: R2845062
Page 3

The Matrix Spike Recoveries from sample SS-3(07/22/2008) and sample MMW-9 4'-8' (Mercury only) were all within QC limits of 75 – 125 %. The RPD results were all with QC limits. The Blank Spike (LCS) recoveries were all acceptable.

The Method Blanks associated with these samples are free of contamination.

No other analytical or QC problems were encountered.

DATE REVISED:
DATE DUE: 8/12/08
PROTOCOL: SW846
SHIPPING No.:

111995

CHAIN OF CUSTODY RECORD

PROJECT NO.
117554.0001

SITE NAME
PACTIO Macdon, NY

SAMPLERS (PRINT/SIGNATURE)

KEVIN J. McGOWAN / *[Signature]*

DELIVERY SERVICE:

AIRBILL NO.:

Celero Prod Off

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS

SS-1	7/22/08	09:55	COMP	SS-1 (07/22/2008)	SO	3
SS-2		10:27		SS-2 (07/22/2008)		3
SS-3		10:47		SS-3 (07/22/2008)		3
SS-4		11:35		SS-4 (07/22/2008)		3
—		12:00	—	RB 2080722	WQ	3
SS-3		10:47	COMP	SS-4 (07/22/2008) <i>MS+ MS- MS D</i>	SO	3

~~MINI 7/22/08 10:55 6 MINI 10 85:27 SO~~

MATRIX CODES

AA - AMBIENT AIR	SL - SLUDGE	WG - GROUND WATER	WL - LEACHATE	WO - OCEAN WATER	LH - HAZARDOUS LIQUID WASTE
SE - SEDIMENT	WP - DRINKING WATER	SO - SOIL	GS - SOIL GAS	WS - SURFACE WATER	LF - FLOATING/FREE PRODUCT ON GW TABLE
SH - HAZARDOUS SOLID WASTE	WW - WASTE WATER	DC - DRILL CUTTINGS	WC - DRILLING WATER	WQ - WATER FIELD QC	

SAMPLE TYPE CODES

TB# - TRIP BLANK	RB# - RINSE BLANK	N# - NORMAL ENVIRONMENTAL SAMPLE	(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)
SD# - MATRIX SPIKE DUPLICATE	FR# - FIELD REPLICATE	MS# - MATRIX SPIKE	

RELINQUISHED BY (SIGNATURE)

DATE TIME

RECEIVED BY (SIGNATURE)

DATE TIME

SPECIAL INSTRUCTIONS SEND INVOICE, EDD &

RELINQUISHED BY (SIGNATURE)

DATE TIME

RECEIVED FOR LAB BY (SIGNATURE)

DATE TIME

NYSDOC ASP CAT B DATA PACKAGE TO:
ATTN: JIM LEHNAN
URS CORPORATION
77 GARDEN ST.
BUFFALO, NY 14203
(716) 856-5636

Distribution: Original accompanies shipment, copy to coordinator field files

ACRA METALS
6010 B / 7470

TESTS

PCR VIA 8082	SVOL VIA 8270	ACRA METALS 6010 B / 7470	PCR VIA 8082	SVOL VIA 8270	ACRA METALS 6010 B / 7470	PCR VIA 8082	SVOL VIA 8270

BOTTLE TYPE AND PRESERVATIVE

402 Glass w/ice	402 Glass Tan w/ice	402 Glass Tan w/ice	802 Glass Tan w/ice	202 Glass Tan w/ice	1002 Glass w/ HNO3	1L Amber w/ice	1L Amber w/ice

URS

LAB COLUMBIA

COOLER 1 of 1

PAGE 1 of 2

REMARKS

SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD ID NO # (EPRIMS)

Ni	0	0.2	
	0	0.2	
	0	0.2	
	0	0.2	
RB	—	—	—
MS/SD	0	0.2	

60000

CHAIN OF CUSTODY RECORD

TESTS

URS

PROJECT NO.
11175654.00001

SITE NAME
PACTIV - MACEDON, NY

SAMPLERS (PRINT/SIGNATURE)

ROB PIERCE / 

LAB COLUMBIA

COOLER 1 of 1

PAGE 2 of 2

DELIVERY SERVICE: DROP-OFF AIRBILL NO.:

BOTTLE TYPE AND PRESERVATIVE

VOC's (8260 B)
SVOC's (8260 C)
REACT METH
(60208-7470)
METALS
RCA
METALS
SVOC's
SVOC's

202 GASS/none
402 GASS/none
402 GASS/none
802 GASS/none
202 GASS/none
802 GASS/none
202 GASS/none
802 GASS/none

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (EPTIMS)
MMW-10	7/22/08	1053	G	MMW-10 8.5'-9'	So	1		N	8.5	9	
MMW-10	7/22/08	1034	G	MMW-10 4'-5.4'	So	3		N	4	5.4	
MMW-9		1315	G	MMW-9 4'-8'	So	1		N	4	8	
MMW-9		1315	G	MMW-9 4'-8' ms	So	1		MS	4	8	
MMW-9		1315	G	MMW-9 4'-8' + ms/msd	So	1		MS	4	8	
MMW-9		1315	G	MMW-9 4'-8' + ms/msd	So	1		MS	4	8	
MMW-8	↓	1447	G	MMW-8 8'-12'	So	3		N	8	12	

MATRIX CODES

AA - AMBIENT AIR
SE - SEDIMENT
SH - HAZARDOUS SOLID WASTE

SL - SLUDGE
WP - DRINKING WATER
WW - WASTE WATER

WG - GROUND WATER
SO - SOIL
DC - DRILL CUTTINGS

WL - LEACHATE
GS - SOIL GAS
WC - DRILLING WATER

WO - OCEAN WATER
WS - SURFACE WATER
WQ - WATER FIELD QC

LH - HAZARDOUS LIQUID WASTE
LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES

TB# - TRIP BLANK
SD# - MATRIX SPIKE DUPLICATE

RB# - RINSE BLANK
FR# - FIELD REPLICATE

N# - NORMAL ENVIRONMENTAL SAMPLE
MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)

DATE 7/22/08 TIME 1040

RECEIVED BY (SIGNATURE)

DATE 7/22/08 TIME 1040

RELINQUISHED BY (SIGNATURE)

DATE TIME

RECEIVED FOR LAB BY (SIGNATURE)

DATE TIME

SPECIAL INSTRUCTIONS

ANY QUESTIONS CONTACT,
JIM LEHNER
URS CORP
77 GOODCELL ST.
BUFFALO, NY 14203
(716) 856-6636

SCO Pg 1

Distribution: Original accompanies shipment, copy to coordinator field files

Cooler Receipt And Preservation Check Form

Project/Client URS Submission Number RA-45062

Cooler received on 7/22/08 by: HP COURIER: CAS UPS FEDEX VELOCITY CLIENT

1. Were custody seals on outside of cooler? YES NO
2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
3. Did all bottles arrive in good condition (unbroken)? YES NO
4. Did any VOA vials have significant* air bubbles? YES NO N/A
5. Were **Ice** or **Ice packs** present? YES NO
6. Where did the bottles originate? CAS/ROC CLIENT
7. Temperature of cooler(s) upon receipt: 9°

Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes

If No, Explain Below No No No No No

Date/Time Temperatures Taken: 7/22/08 1650

Thermometer ID: 161 / IR GUN#2 / IR GUN#3 Reading From: Temp Blank / Sample Bottle

If out of Temperature, note packing/ice condition, Client Approval to Run Samples: _____

PC Secondary Review: mm 7/22/08

Cooler Breakdown: Date: 7/23/08 by: RG

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
 - Did all bottle labels and tags agree with custody papers? YES NO
 - Were correct containers used for the tests indicated? YES NO
 4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A
- Explain any discrepancies: _____

pH	Reagent	YES	NO	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO ₃	✓		BDB2685B	5/09				
≤2	H ₂ SO ₄								
Residual Chlorine (-)	For TCN and Phenol			If present, contact PM to add ascorbic acid					
	Na ₂ S ₂ O ₃	-	-			*Not to be tested before analysis - pH tested and recorded by VOAs or GenChem on a separate worksheet			
	Zn Aceta	-	-						
	HCl	*	*						

Yes = All samples OK

No = Samples were preserved at lab as listed

PM OK to Adjust: _____

Bottle lot numbers: 052608-1Y, 032372, 029598, 040708-1Y

Other Comments: _____

PC Secondary Review: _____

*significant air bubbles are greater than 5-6 mm

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

METBLK1

Lab Name: CASROCH Contract: URS
Lab Code: 10145 Case No.: R8-45062 SAS No.: _____ SDG No.: MW-10
Lab File ID: K8548.D Lab Sample ID: 1121112 1.0
Date Analyzed: 07/24/08 Time Analyzed: 12:38
GC Column: DB624 ID: 0.25 (mm) Heated Purge: (Y/N) Y
Instrument ID: GCMS#5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS1	1121113 1.0	K8547.D	11:56
02	MMW-9 4-8	1119957 1.0	K8551.D	14:37
03	MMW-10 4-5.4	1119956 1.0	K8552.D	15:14
04	MMW-8 8-12	1119958 1.0	K8553.D	15:51
05	MMW-9 4-8 MS	1121114 1.0	K8554.D	16:28
06	MMW-9 4-8 MSD	1121115 1.0	K8555.D	17:05

COMMENTS

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS

METHOD 8260B

Reported: 08/21/08

Project Reference:

Client Sample ID : METHOD BLANK

Date Sampled :	Order #: 1121112	Sample Matrix: SOIL/SEDIMENT
Date Received:	Submission #:	Percent Solid: 100

ANALYTE	PQL	RESULT	UNITS
DATE ANALYZED : 07/24/08			
ANALYTICAL DILUTION: 1.00			Dry Weight
ACETONE	20	2.4 J	UG/KG
BENZENE	5.0	5.0 U	UG/KG
BROMODICHLOROMETHANE	5.0	5.0 U	UG/KG
BROMOFORM	5.0	5.0 U	UG/KG
BROMOMETHANE	5.0	5.0 U	UG/KG
2-BUTANONE (MEK)	10	10 U	UG/KG
METHYL-TERT-BUTYL ETHER	5.0	5.0 U	UG/KG
CARBON DISULFIDE	10	10 U	UG/KG
CARBON TETRACHLORIDE	5.0	5.0 U	UG/KG
CHLOROBENZENE	5.0	5.0 U	UG/KG
CHLOROETHANE	10	10 U	UG/KG
CHLOROFORM	5.0	5.0 U	UG/KG
CHLOROMETHANE	5.0	5.0 U	UG/KG
2-DIBROMO-3-CHLOROPROPANE	5.0	5.0 U	UG/KG
CYCLOHEXANE	5.0	5.0 U	UG/KG
DIBROMOCHLOROMETHANE	5.0	5.0 U	UG/KG
1,2-DIBROMOETHANE	5.0	5.0 U	UG/KG
1,3-DICHLOROBENZENE	5.0	5.0 U	UG/KG
1,4-DICHLOROBENZENE	5.0	5.0 U	UG/KG
1,2-DICHLOROBENZENE	5.0	5.0 U	UG/KG
DICHLORODIFLUOROMETHANE	5.0	5.0 U	UG/KG
1,1-DICHLOROETHANE	5.0	5.0 U	UG/KG
1,2-DICHLOROETHANE	5.0	5.0 U	UG/KG
1,1-DICHLOROETHENE	5.0	5.0 U	UG/KG
CIS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/KG
TRANS-1,2-DICHLOROETHENE	5.0	5.0 U	UG/KG
1,2-DICHLOROPROPANE	5.0	5.0 U	UG/KG
CIS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/KG
TRANS-1,3-DICHLOROPROPENE	5.0	5.0 U	UG/KG
ETHYLBENZENE	5.0	5.0 U	UG/KG
2-HEXANONE	10	10 U	UG/KG
ISOPROPYLBENZENE	5.0	5.0 U	UG/KG
METHYL ACETATE	10	10 U	UG/KG
METHYLCYCLOHEXANE	5.0	5.0 U	UG/KG
METHYLENE CHLORIDE	5.0	5.0 U	UG/KG
4-METHYL-2-PENTANONE (MIBK)	10	10 U	UG/KG
STYRENE	5.0	5.0 U	UG/KG
1,1,2,2-TETRACHLOROETHANE	5.0	5.0 U	UG/KG
TRACHLOROETHENE	5.0	5.0 U	UG/KG
LUENE	5.0	5.0 U	UG/KG
1,2,4-TRICHLOROBENZENE	5.0	5.0 U	UG/KG
1,1,1-TRICHLOROETHANE	5.0	5.0 U	UG/KG
1,1,2-TRICHLOROETHANE	5.0	5.0 U	UG/KG
TRICHLOROETHENE	5.0	5.0 U	UG/KG
TRICHLOROFLUOROMETHANE	5.0	5.0 U	UG/KG

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CAS-ROCH Contract: URS
 Lab Code: 10145 Case No.: R845062 SAS No.: _____ SDG No.: MW-10
 Lab File ID: CY548.D DFTPP Injection Date: 8/6/08
 Instrument ID: 5973-B DFTPP Injection Time: 11:02

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	40.6
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 Relative abundance	75.0
70	Less than 2.0% of mass 69	0.2 (0.3)1
127	40.0 - 60.0% of mass 198	43.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.2
275	10.0 - 30.0% of mass 198	29.5
365	Greater than 1.0% of mass 198	6.5
441	Present, but less than mass 443	11.4
442	40.0 - 100.0% of mass 198	65.6
443	17.0 - 23.0% of mass 442	13.6 (20.8)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD280	CALIBRATION CHECK	CY549.D	8/6/08	11:33
02	SS-4(07/22/08)	1119954 10	CY550.D	8/6/08	12:27
03	MMW-9 4'-8'MSD	1123733 1.0	CY551.D	8/6/08	13:10
04	MMW-8 8'-12'	1119958 1.0	CY552.D	8/6/08	13:52

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973B\DATA\080608\CY549.D
 Acq On : 6 Aug 2008 11:33 am
 Sample : CALIBRATION CHECK
 Misc : 80 PPM STD 8270/625
 MS Integration Params: RTEINT.P

Vial: 1
 Operator: Z.Miao
 Inst : 5973-B
 Multiplr: 1.00

Method : J:\ACQUDATA\5973B\METHODS\82700728.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Aug 05 13:52:14 2008
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)
40 TP	Hexachlorocyclopentadiene	0.467	0.359	23.1#	56	0.01
41 TC	2,4,6-Trichlorophenol	0.355	0.366	-3.1	77	0.01
42 T	2,4,5-Trichlorophenol	0.369	0.388	-5.1	78	0.01
43 S	SURR5,2-FLUOROBIPHENYL	1.142	1.107	3.1	73	0.02
44 T	1,1'-Biphenyl	1.134	1.099	3.1	74	0.01
45 T	2-Chloronaphthalene	0.913	0.902	1.2	75	0.01
46 T	2-Nitroaniline	0.474	0.477	-0.6	78	0.01
47 T	Acenaphthylene	1.374	1.356	1.3	74	0.01
48 T	Dimethyl phthalate	1.078	1.119	-3.8	78	0.01
49 T	2,6-Dinitrotoluene	0.251	0.258	-2.8	79	0.01
50 TMC	Acenaphthene	0.876	0.877	-0.1	76	0.01
51 T	3-Nitroaniline	0.226	0.231	-2.2	77	0.01
TP	2,4-Dinitrophenol	0.109	0.158	-45.0#	126	0.01
T	Dibenzofuran	1.428	1.442	-1.0	77	0.00
54 TM	2,4-Dinitrotoluene	0.341	0.358	-5.0	79	0.02
55 TMP	4-Nitrophenol	0.298	0.324	-8.7	83	0.01
56 T	Fluorene	1.153	1.162	-0.8	78	0.00
57 T	4-Chlorophenyl-phenylether	0.715	0.739	-3.4	80	0.01
58 T	Diethylphthalate	1.161	1.193	-2.8	77	0.01
59 T	4-Nitroaniline	0.227	0.240	-5.7	78	0.01
60 S	SURR3,2,4,6-TRIBROMOPHENOL	0.215	0.233	-8.4	80	0.01
61 IR	d10-Phenanthrene	1.000	1.000	0.0	80	0.01
62 T	1-Phenyl-1(4-methylphenyl)e	0.000	0.000#	0.0	0#	-10.54#
63 T	4,6-Dinitro-2-methylphenol	0.092	0.107	-16.3	100	0.01
64 T	1,2 Diphenylhydrazine	0.866	0.840	3.0	78	0.01
65 TC	N-Nitrosodiphenylamine	0.355	0.342	3.7	80	0.01
66 T	4-Bromophenyl-phenylether	0.198	0.199	-0.5	81	0.01
67 T	1-Phenyl-1(2,4-dimethylphen	0.000	0.000#	0.0	83	0.00
68 T	Hexachlorobenzene	0.225	0.228	-1.3	82	0.01
69 T	Atrazine	0.089	0.079	11.2	71	0.01
70 TCM	Pentachlorophenol	0.110	0.121	-10.0	93	0.02
71 T	Phenanthrene	0.775	0.776	-0.1	81	0.01
72 T	Anthracene	0.801	0.805	-0.5	80	0.00
73 T	Carbazole	0.707	0.738	-4.4	83	0.00
74 T	Di-n-butylphthalate	0.918	0.982	-7.0	85	0.01
75 TC	Fluoranthene	0.995	1.054	-5.9	85	0.01
IR	d12-Chrysene	1.000	1.000	0.0	85	0.00
77 T	Benzidine	0.326	0.211	NT 35.3#	53	0.00
78 TM	Pyrene	0.864	0.862	0.2	86	0.01

(#) = Out of Range

CY549.D 82700728.M

Wed Aug 06 13:43:20 2008

Page 2

0035A

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973B\DATA\080608\CY549.D
 Acq On : 6 Aug 2008 11:33 am
 Sample : CALIBRATION CHECK
 Misc : 80 PPM STD 8270/625
 MS Integration Params: RTEINT.P

Vial: 1
 Operator: Z.Miao
 Inst : 5973-B
 Multiplr: 1.00

Method : J:\ACQUDATA\5973B\METHODS\82700728.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Aug 05 13:52:14 2008
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40 TP	Hexachlorocyclopentadiene	80.000	61.483	23.1#	56	0.01
41 TC	2,4,6-Trichlorophenol	80.000	82.471	-3.1	77	0.01
42 T	2,4,5-Trichlorophenol	80.000	84.133	-5.2	78	0.01
43 S	SURR5,2-FLUOROBIPHENYL	80.000	77.554	3.1	73	0.02
44 T	1,1'-Biphenyl	80.000	77.539	3.1	74	0.01
45 T	2-Chloronaphthalene	80.000	79.001	1.2	75	0.01
46 T	2-Nitroaniline	80.000	80.474	-0.6	78	0.01
47 T	Acenaphthylene	80.000	78.898	1.4	74	0.01
48 T	Dimethyl phthalate	80.000	83.089	-3.9	78	0.01
49 T	2,6-Dinitrotoluene	80.000	82.248	-2.8	79	0.01
50 TMC	Acenaphthene	80.000	80.058	-0.1	76	0.01
51 T	3-Nitroaniline	80.000	82.004	-2.5	77	0.01
52 TP	2,4-Dinitrophenol	80.000	105.892	-32.4#	126	0.01
53 T	Dibenzofuran	80.000	80.745	-0.9	77	0.00
54 TM	2,4-Dinitrotoluene	80.000	83.908	-4.9	79	0.02
55 TMP	4-Nitrophenol	80.000	86.927	-8.7	83	0.01
56 T	Fluorene	80.000	80.585	-0.7	78	0.00
57 T	4-Chlorophenyl-phenylether	80.000	82.665	-3.3	80	0.01
58 T	Diethylphthalate	80.000	82.202	-2.8	77	0.01
59 T	4-Nitroaniline	80.000	84.548	-5.7	78	0.01
60 S	SURR3,2,4,6-TRIBROMOPHENOL	80.000	86.665	-8.3	80	0.01
61 IR	d10-Phenanthrene	40.000	40.000	0.0	80	0.01
62 T	1-Phenyl-1(4-methylphenyl)e	-1.000	0.000	0.0	0	-10.54#
63 T	4,6-Dinitro-2-methylphenol	80.000	93.371	-16.7	100	0.01
64 T	1,2 Diphenylhydrazine	80.000	77.534	3.1	78	0.01
65 TC	N-Nitrosodiphenylamine	80.000	77.181	3.5	80	0.01
66 T	4-Bromophenyl-phenylether	80.000	80.360	-0.4	81	0.01
67 T	1-Phenyl-1(2,4-dimethylphen	-1.000	0.000	0.0	83	0.00
68 T	Hexachlorobenzene	80.000	81.036	-1.3	82	0.01
69 T	Atrazine	80.000	71.554	10.6	71	0.01
70 TCM	Pentachlorophenol	80.000	88.054	-10.1	93	0.02
71 T	Phenanthrene	80.000	80.075	-0.1	81	0.01
72 T	Anthracene	80.000	80.386	-0.5	80	0.00
73 T	Carbazole	80.000	83.455	-4.3	83	0.00
74 T	Di-n-butylphthalate	80.000	85.543	-6.9	85	0.01
75 TC	Fluoranthene	80.000	84.770	-6.0	85	0.01
76 IR	d12-Chrysene	40.000	40.000	0.0	85	0.00
77 T	Benzidine	80.000	51.741	35.3#	53	0.00
78 TM	Pyrene	80.000	79.799	0.3	86	0.01

(#) = Out of Range

SEMIVOLATILE METHOD BLANK SUMMARY

SBLK1

Lab Name: CAS-ROCH Contract: URS

Lab Code: 10145 Case No.: R845062 SAS No.: _____ SDG No.: MW-10

Lab File ID: CY533.D Lab Sample ID: 1123729 1.0

Instrument ID: 5973-B Date Extracted: 7/25/08

Matrix: (soil/water) SOIL Date Analyzed: 8/5/08

Level: (low/med) LOW Time Analyzed: 15:06

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBLK1MS	1123730 1.0	CY534.D	8/5/08
02	SBLK1MSD	1123731 1.0	CY535.D	8/5/08
03	SS-1(07/22/08)	1119951 1.0	CY539.D	8/5/08
04	SS-2(07/22/08)	1119952 1.0	CY540.D	8/5/08
05	SS-3(07/22/08)	1119953 1.0	CY541.D	8/5/08
06	SS-3(07/22/08)MS	1123727 1.0	CY542.D	8/5/08
07	SS-3(07/22/08)MSD	1123728 1.0	CY543.D	8/5/08
08	MMW-10 4'-5.4'	1119956 1.0	CY545.D	8/5/08
09	MMW-9 4'-8'	1119957 1.0	CY546.D	8/5/08
10	MMW-9 4'-8'MS	1123732 1.0	CY547.D	8/6/08
11	SS-4(07/22/08)	1119954 10	CY550.D	8/6/08
12	MMW-9 4'-8'MSD	1123733 1.0	CY551.D	8/6/08
13	MMW-8 8'-12'	1119958 1.0	CY552.D	8/6/08

COMMENTS:

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK1

Lab Name: CAS-ROCH Contract: URS
Lab Code: 10145 Case No.: R845062 SAS No.: SDG No.: MW-10
Matrix: (soil/water) SOIL Lab Sample ID: 1123729 1.0
Sample wt/vol: 30 (g/ml) G Lab File ID: CY533.D
Level: (low/med) LOW Date Received:
% Moisture: 0 decanted: (Y/N) N Date Extracted: 7/25/08
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 8/5/08
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	2.70	220	J

426A

METALS

-14-

ANALYSIS RUN LOG

Contract: R2845062

Lab Code:

Case No.:

SAS No.:

SDG No.: MW-10

Instrument ID Number: Optima ICP 3

Method: P

Start Date: 8/4/2008

End Date: 8/4/2008

Sample No.	D/F	Time	% R	Analytes															
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I
Calib Blank 1	1.00	10:10				X	X		X		X				X				X
Calib Std 1	1.00	10:16				X	X		X						X				
Calib Std 2	1.00	10:21									X							X	X
Calib Std 3	1.00	10:27				X	X		X		X				X			X	X
Calib Std 4	1.00	10:33				X	X		X		X				X			X	X
ICV1 ✓	1.00	10:38				X	X		X		X				X			X	X
ICB1 ✓	1.00	10:43				X	X		X		X				X			X	X
CRDL1 ✓	1.00	10:49				X	X		X		X				X			X	X
ICSA1 ✓	1.00	10:55				X	X		X		X				X			X	X
ICB1 ✓	1.00	11:01				X	X		X		X				X			X	X
CCB1 ✓	1.00	11:05				X	X		X		X				X			X	X
CCB1 ✓	1.00	11:11				X	X		X		X				X			X	X
ZZZZZZ	1.00	11:16																	
ZZZZZZ	1.00	11:22																	
ZZZZZZ	1.00	11:28																	
ZZZZZZ	1.00	11:34																	
ZZZZZZ	1.00	11:39																	
ZZZZZZ	1.00	11:45																	
ZZZZZZ	5.00	11:51																	
ZZZZZZ	1.00	11:57																	
ZZZZZZ	1.00	12:03																	
ZZZZZZ	1.00	12:09																	
ZZZZZZ	1.00	12:14																	
ZZZZZZ	1.00	12:20																	
ZZZZZZ	1.00	12:26																	
ZZZZZZ	1.00	12:32																	
ZZZZZZ	1.00	12:37																	
ZZZZZZ	1.00	12:43																	
ZZZZZZ	1.00	12:49																	
ZZZZZZ	1.00	12:55																	
ZZZZZZ	1.00	13:01																	
ZZZZZZ	1.00	13:06																	

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

-14-

ANALYSIS RUN LOG

Contract: R2845062

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: MW-10

Instrument ID Number: Optima ICP 3 Method: P

Start Date: 8/4/2008 End Date: 8/4/2008

Sample No.	D/F	Time	% R	Analytes															
				A	S	A	B	B	C	C	C	C	F	P	M	M	H	N	K
				L	B	S	A	E	D	A	R	O	U	E	B	G	N	G	I
ZZZZZZ	1.00	13:12																	
ZZZZZZ	1.00	13:18																	
ZZZZZZ	1.00	13:24																	
ZZZZZZ	1.00	13:29																	
ZZZZZZ	1.00	13:35																	
ZZZZZZ	1.00	13:41																	
ZZZZZZ	1.00	13:47																	
ZZZZZZ	1.00	13:52																	
ZZZZZZ	1.00	13:58																	
ZZZZZZ	1.00	14:04																	
ZZZZZZ	1.00	14:10																	
ZZZZZZ	1.00	14:15																	
ZZZZZZ	1.00	14:21																	
ZZZZZZ	1.00	14:27																	
ZZZZZZ	1.00	14:31																	
ZZZZZZ	1.00	14:36																	
ZZZZZZ	1.00	14:40																	
ZZZZZZ	1.00	14:46																	
ZZZZZZ	1.00	14:52																	
ZZZZZZ	1.00	14:58																	
ZZZZZZ	1.00	15:03																	
ZZZZZZ	1.00	15:09																	
ZZZZZZ	1.00	15:15																	
ZZZZZZ	1.00	15:21																	
ZZZZZZ	1.00	15:27																	
ZZZZZZ	1.00	15:32																	
ZZZZZZ	1.00	15:38																	
ZZZZZZ	1.00	15:44																	
ZZZZZZ	1.00	15:50																	
ZZZZZZ	1.00	15:56																	
ZZZZZZ	1.00	16:01																	
ZZZZZZ	1.00	16:07																	

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

-14-

ANALYSIS RUN LOG

Contract: R2845062

Lab Code:

Case No.:

SAS No.:

SDG No.: MW-10Instrument ID Number: Optima ICP 3Method: PStart Date: 8/4/2008End Date: 8/4/2008

Sample No.	D/F	Time	% R	Analytes																					
				A	S	A	B	B	C	C	C	C	F	P	M	M	H	N	K	S	A	N	T	V	Z
				L	B	S	A	E	D	A	R	O	U	E	B	G	N	G	I	E	G	A	L	N	N
ZZZZZZ	5.00	16:13																							
ZZZZZZ	1.00	16:19																							
ZZZZZZ	1.00	16:25																							
ZZZZZZ	1.00	16:31																							
ZZZZZZ	1.00	16:37																							
ZZZZZZ	1.00	16:43																							
ZZZZZZ	1.00	16:49																							
ZZZZZZ	1.00	16:55																							
ZZZZZZ	1.00	17:01																							
ZZZZZZ	1.00	17:07																							
ZZZZZZ	1.00	17:12																							
ZZZZZZ	1.00	17:18																							
ZZZZZZ	1.00	17:24																							
ZZZZZZ	1.00	17:30																							
ZZZZZZ	1.00	17:35																							
CCV2 ✓	1.00	17:41				X	X		X	X				X						X	X				
CCB2 ✓	1.00	17:47				X	X		X	X				X						X	X				
CRDL2 ✓	1.00	17:53				X	X		X	X				X						X	X				
ICSA2 ✓	1.00	17:58				X	X		X	X				X						X	X				
ICS-AB2 ✓	1.00	18:04				X	X		X	X				X						X	X				
CCV3 ✓	1.00	18:09				X	X		X	X				X						X	X				
CCB3 ✓	1.00	18:15				X	X		X	X				X						X	X				
PBS	1.00	18:20				X	X		X	X				X						X	X				
LCSS	3.00	18:26				X	X		X	X				X						X	X				
ZZZZZZ	1.00	18:32																							
ZZZZZZ	1.00	18:38																							
SS-1 (07/22/2008) ✓	1.00	18:42				X	X		X	X				X						X	X				
SS-2 (07/22/2008) ✓	1.00	18:48				X	X		X	X				X						X					
SS-3 (07/22/2008)	1.00	18:54				X	X		X	X				X						X	X				
F (07/22/2008) D	1.00	19:00				X	X		X	X				X						X	X				
S (07/22/2008) S	1.00	19:06				X	X		X	X				X						X	X				
SS-3 (07/22/2008) A	1.00	19:11				X	X		X	X				X						X	X				

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

-14-

ANALYSIS RUN LOG

Contract: R2845062

Lab Code:

Case No.:

SAS No.:

SDG No.: MW-10Instrument ID Number: Optima ICP 3Method: PStart Date: 8/4/2008End Date: 8/4/2008

Sample No.	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K E	S E	A G	N A	T L	V N
CCV4 ✓	1.00	19:17				X	X		X		X				X						X	X			
CCB4 ✓	1.00	19:23				X	X		X		X				X						X	X			
SS-3 (07/22/2008)L	5.00	19:29				X	X		X		X				X						X	X			
SS-4 (07/22/2008)	1.00	19:35				X	X		X		X				X						X	X			
MMW-10 4'-5.4' ✓	1.00	19:41				X	X		X		X				X						X	X			
MMW-9 4'-8' ✓	1.00	19:46				X	X		X		X				X							X			
MMW-8 8'-12' ✓	1.00	19:52				X	X		X		X				X						X	X			
ZZZZZZ	1.00	19:58																							
ZZZZZZ	1.00	20:04																							
ZZZZZZ	1.00	20:10																							
ZZZZZZ	1.00	20:15																							
ZZZZZZ	1.00	20:21																							
CCV5 ✓	1.00	20:27				X	X		X		X				X						X	X			
CCB5 ✓	1.00	20:33				X	X		X		X				X						X	X			
ZZZZZZ	1.00	20:39																							
ZZZZZZ	1.00	20:44																							
ZZZZZZ	1.00	20:50																							
ZZZZZZ	1.00	20:56																							
ZZZZZZ	1.00	21:02																							
CCV6 ✓	1.00	21:07				X	X		X		X				X						X	X			
CCB6 ✓	1.00	21:13				X	X		X		X				X						X	X			
CRDL3 ✓ <i>set</i>	1.00	21:19				X	X		X		X				X						X	X			
ICSA3 ✓	1.00	21:26				X	X		X		X				X						X	X			
ICS-AB3 ✓	1.00	21:32				X	X		X		X				X						X	X			
CCV7 ✓	1.00	21:38				X	X		X		X				X						X	X			
CCB7 ✓	1.00	21:44				X	X		X		X				X						X	X			

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Form XIV - IN

00748

METALS

-2B-

CRDL STANDARD FOR AA AND ICP

Contract: R2845062

Lab Code:

Case No.:

SAS No.:

SDG No.: MW-10

AA CRDL Standard Source:

ICP CRDL Standard Source: CPI

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	Initial		Final		
				True	Found	%R	Found	%R
Arsenic				20.0			22.54	112.7
Barium				200.0			221.70	110.8
Cadmium				10.0			10.48	104.8
Chromium				10.0			10.81	108.1
Lead				10.0			11.55	115.5
Mercury	0.2	0.21	105.0					
Selenium				10.0			14.05	140.5
Silver				10.0			10.47	104.7

9/11/08

METALS

-10-

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Contract: R2845062

Lab Code:

Case No.:

SAS No.:

SDG NO.: MW-10

ICP ID Number: Optima ICP 3

Date: 05/15/08

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Arsenic	188.979		10.0	2.2	P
Barium	233.53		20.0	4.8	P
Cadmium	226.50		5.0	0.4	P
Chromium	267.72		10.0	0.5	P
Lead	220.35		5.0	1.2	P
Selenium	196.03		10.0	4.3	P
Silver	328.07		10.0	0.7	P

Comments

METALS

-9-

ICP SERIAL DILUTIONS

SAMPLE NO.

SS-3 (07/22/2008) L

Contract: R2845062

Lab Code:

Case No.:

SAS No.:

SDG NO.: MW-10

Matrix (soil/water): SOIL/SEDI

Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ- ence	Q	M
Arsenic	37.77		39.77	B	5.2		P
Barium	549.47		585.78		6.6		P
Cadmium	4.18	B	4.26	B	1.7		P
Chromium	117.53		125.38		6.7		P
Lead	407.63		453.55		11.3	E	P
Selenium	17.59		27.54	B	56.6	OK	P
Silver	0.72	U	3.61	U			P

9/11/05

**DATA USABILITY SUMMARY REPORT
FOR THE
MACEDON FILMS SITE
SUPPLEMENTAL INVESTIGATION
FEBRUARY 2009 SAMPLING EVENT**

Prepared for:

**PACTIV CORPORATION
TECHNOLOGY CENTER
2651 BRICKYARD ROAD
CANANDAIGUA, NY 14424**

Prepared by:

**URS CORPORATION
77 GOODELL STREET
BUFFALO, NY 14203**

April 2009

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I. INTRODUCTION	1
II. ANALYTICAL METHODOLOGIES AND DATA VALIDATION	1
III. DATA DELIVERABLE COMPLETENESS	2
IV. HOLDING TIMES/SAMPLE RECEIPT	2
V. NON-CONFORMANCES	3
VI. SAMPLE RESULTS AND REPORTING	5
VII. SUMMARY	6

TABLES (Following Text)

Table 1	Summary of Data Qualifications
Table 2	Validated Groundwater Sample Analytical Results
Table 3	Validated Field QC Sample Analytical Results

ATTACHMENTS

Attachment A	Validated Form 1's
Attachment B	Support Documentation

I. INTRODUCTION

This Data Usability Summary Report (DUSR) has been prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *Draft DER-10, Technical Guidance for Site Investigation and Remediation, Appendix 2B - Guidance for the Development of Data Usability Summary Reports*, December 2002. Analytical data for nine groundwater samples, one matrix spike/matrix spike duplicate (MS/MSD) pair, one equipment rinsate blank, and two trip blanks collected by URS personnel on February 11-12, 2009 in support of the Macedon Films Site Supplemental Investigation are discussed in this DUSR.

II. ANALYTICAL METHODOLOGIES AND DATA VALIDATION

All samples were analyzed by Columbia Analytical Services (CAS) of Rochester, New York. The groundwater samples and equipment rinsate blank were analyzed for target compound list (TCL) volatile organic compounds (VOCs) following USEPA Method 8260B, TCL semivolatile organic compounds (SVOCs) following USEPA Method 8270C, and the Resource Conservation and Recovery Act (RCRA) metals following USEPA Methods 6010B/7470A. One groundwater sample was also analyzed for TCL polychlorinated biphenyls (PCBs) following USEPA Method 8082. The trip blanks were analyzed for TCL VOCs only following USEPA Method 8260B. All VOC and SVOC analyses included library searches of any tentatively identified compounds (TICs) detected in the samples.

A limited data validation was performed on the samples following the guidelines in the following USEPA Region II documents:

- *Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B, SOP HW-24, Rev. 2, October 2006;*
- *Validating Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8270D, SOP HW-22, Rev. 3, October 2006;*

- *Validating PCB Compounds by Gas Chromatography SW-846 Method 8082A, SOP HW-45, Rev. 1, October 2006; and*
- *Validation of Metals for the Contract Laboratory Program (CLP) Based on SOWILMO5.3, SOP HW-2, Rev. 13, September 2006.*

The limited validation included a review of holding times; completeness of all required deliverables; quality control (QC) results (blanks, instrument tunes, calibration standards, matrix spike recoveries, duplicate analyses, and laboratory control sample recoveries) to determine if the data are within the protocol-required QC limits and specifications; a determination that all samples were analyzed using established and agreed upon analytical protocols; an evaluation of the raw data to confirm the results provided in the data summary sheets; and a review of laboratory data qualifiers.

Qualifications applied to the data include 'R' (rejected, data are unusable), 'U' (not detected), 'J' (estimated concentration), and 'UJ' (estimated quantitation limit). A summary of qualifications made to the data is presented in Table 1. The validated analytical results are presented in Tables 2 and 3. Copies of the validated laboratory results (i.e., Form 1's) are presented in Attachment A. Documentation supporting the qualification of data is presented in Attachment B. Only problems affecting data usability are discussed in this report.

III. DATA DELIVERABLE COMPLETENESS

Full deliverable data packages (i.e., NYSDEC ASP Category B or equivalent) were provided by the laboratory, and included all reporting forms and raw data necessary to fully evaluate and verify the reported analytical results.

IV. HOLDING TIMES/SAMPLE RECEIPT

All samples were received by the laboratory intact and under proper chain-of-custody, and were analyzed within the required holding times.

V. NON-CONFORMANCES

Instrument Calibration

- The initial calibration (ICAL) and continuing calibration (CCAL) standard relative response factors (RRFs) for VOC 1,2-dibromo-3-chloropropane were less than 0.05. The non-detect results for this compound were qualified 'R' in all samples.
- The percent difference (%D) between the ICAL average RRF for VOC 1,2-dibromoethane (ethylene dibromide) and the RRF in the CCAL standard associated with all samples was greater than 20%. The non-detect results for this compound were qualified 'UJ' in all samples.
- The %D between the ICAL average RRF and the RRF in the CCAL standard associated with the following samples was greater than 20% for SVOCs benzaldehyde, 2,4-dinitrophenol and 4-nitrophenol: EQ-021109, MMW-03, MMW-04, MMW-06, and MP-01. The non-detect results for these compounds in the samples listed were qualified 'UJ'.
- The %D between the ICAL average RRF and the RRF in the CCAL standard associated with the following samples was greater than 20% for SVOCs benzaldehyde and 4-nitrophenol: MMW-01, MMW-02, MMW-07, MMW-09, and MMW-10. The non-detect results for these compounds in the samples listed were qualified 'UJ'.

Documentation supporting the qualification of data (VOC/SVOC Forms 5 and 7) is presented in Attachment B.

Laboratory Control Samples

- The percent recovery (%R) for SVOCs 3-nitroaniline and 3,3'-dichlorobenzidine in the laboratory control sample (LCS) associated with the following samples were below the lower QC limit: MMW-01, MMW-02, MMW-07, MMW-09, and MMW-10. The non-detect results for these compounds in the samples listed were qualified 'UJ'.

Documentation supporting the qualification of data (SVOC Form 3) is presented in Attachment B.

Serial Dilutions (Metals Only)

- The %D for barium in the metals serial dilution analysis exceeded the QC limit of 10%. The detected results for barium were qualified 'J' in all groundwater samples.

Documentation supporting the qualification of data (metals Form 9) is presented in Attachment B.

Blank Contamination

- The concentrations of SVOC di-n-butylphthalate in the following groundwater samples were less than ten times the concentration in the associated equipment rinsate blank: MMW-01, MMW-02, MMW-07, MMW-09, and MMW-10. The results for di-n-butylphthalate in these groundwater samples were qualified 'U' at the reported concentrations.
- Cadmium was detected in the following groundwater samples at concentrations below the quantitation limit (QL): MMW-02, MMW-04, and MP-01. Cadmium was also detected in the associated metals calibration blank at a concentration below the QL. The

results for cadmium in groundwater samples MMW-02, MMW-04, and MP-01 were raised to the QL and qualified 'U'.

- Chromium was detected in all groundwater samples at concentrations below the QL. Chromium was also detected in the associated equipment rinsate blank at a concentration below the QL. The results for chromium in all groundwater samples were raised to the QL and qualified 'U'.
- Mercury was detected in the following groundwater samples at concentrations below the QL: MMW-01, MMW-04, and MMW-09. Mercury was also detected in the associated metals calibration blank at a concentration below the QL. The results for mercury in groundwater samples MMW-01, MMW-04, and MMW-09 were raised to the QL and qualified 'U'.

Documentation supporting the qualification of data (i.e., SVOC/Metals Form 1 for the equipment rinsate blank; metals Forms 3 and 14) is presented in Attachment B.

VI. SAMPLE RESULTS AND REPORTING

All sample results were reported in accordance with method requirements and were adjusted for sample extraction/analysis volumes and dilution factors (if applicable). There were no reporting errors identified during the data validation, and the reported results were in agreement with the raw analytical data.

Sample concentrations of VOCs and SVOCs greater than the method detection limit (MDL) but below the QL were qualified 'J' by the laboratory. Sample concentrations of metals greater than the MDL but below the QL were qualified 'B' by the laboratory, which is the qualifier historically used when performing metals analyses following USEPA protocols. However, USEPA has replaced the 'B' qualifier

with 'J' in the most current methodology. Therefore, all laboratory 'B' qualifiers applied to the metals results were changed to 'J' during validation.

VII. SUMMARY

All sample analyses were found to be compliant with the method criteria, except where previously noted. Those results qualified 'R' (rejected) are unusable. Those results qualified 'J' (estimated) or 'UJ' (estimated quantitation limit) are considered conditionally usable. Results qualified 'U' are considered non-detect. URS does not recommend the re-collection of any samples at this time.

Prepared By: James J. Lehnen, Senior Chemist *JL*

Date: 4/23/09

Reviewed By: Mary E. Bitka, Principal Chemist *MEB*

Date: 4/28/09

DEFINITIONS OF USEPA REGION II DATA QUALIFIERS

- U – The analyte was analyzed for, but was not detected above the reported sample quantitation/detection limit.
- J – The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ – The analyte was not detected above the reported sample quantitation/detection limit. However, the reported quantitation/detection limit is approximate and may or may not represent the actual limit of quantitation/detection necessary to accurately and precisely measure the analyte in the sample.
- R – The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
- D – The sample results are reported from a separate secondary dilution analysis.
- NJ – The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

TABLE 1
SUMMARY OF DATA QUALIFICATIONS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION

Affected Samples	Fraction	Analytical Deviation	Qualification
All groundwater and field QC samples	VOA	ICAL and CCAL RRFs for 1,2-dibromo-3-chloropropane less than 0.05.	Qualify non-detect results 'R'.
All groundwater and field QC samples	VOA	%D between the ICAL average RRF and the CCAL RRF >20% for 1,2-dibromoethane (ethylene dibromide).	Qualify non-detect results 'UJ'.
Rinsate blank EQ-021109; groundwater samples MMW-03, MMW-04, MMW-06, and MP-01	SVOA	%D between the ICAL average RRF and the CCAL RRF >20% for benzaldehyde, 2,4-dinitrophenol and 4-nitrophenol.	Qualify non-detect results 'UJ'.
Groundwater samples MMW-01, MMW-02, MMW-07, MMW-09, and MMW-10	SVOA	%D between the ICAL average RRF and the CCAL RRF >20% for benzaldehyde and 4-nitrophenol.	Qualify non-detect results 'UJ'.
Groundwater samples MMW-01, MMW-02, MMW-07, MMW-09, and MMW-10	SVOA	LCS %R for 3-nitroaniline and 3,3'-dichlorobenzidine below the lower QC limit.	Qualify non-detect results 'UJ'.
Groundwater samples MMW-01, MMW-02, MMW-07, MMW-09, and MMW-10	SVOA	Di-n-butylphthalate detected in samples and associated rinsate blank.	Qualify 'U' at the reported concentrations.
All groundwater samples	Metals	Serial dilution %D for barium exceeded the QC limit of 10%.	Qualify detected results 'J'.
Groundwater samples MMW-02, MMW-04, and MP-01	Metals	Cadmium detected in sample and associated calibration blank at a concentration below the QL.	Raise the reported result to the QL and qualify 'U'.
All groundwater samples	Metals	Chromium detected in sample and associated rinsate blank at a concentration below the QL.	Raise the reported result to the QL and qualify 'U'.
Groundwater samples MMW-01, MMW-04, and MMW-09	Metals	Mercury detected in sample and associated calibration blank at a concentration below the QL.	Raise the reported result to the QL and qualify 'U'.

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
FEBRUARY 2009

Location ID		MMW-01	MMW-02	MMW-03	MMW-04	MMW-06
Sample ID		MMW-1	MMW-2	MMW-3	MMW-4	MMW-6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/12/09	02/12/09	02/11/09	02/11/09	02/11/09
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,1,2,2-Tetrachloroethane	UG/L	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U
1,1,2-Trichloroethane	UG/L	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
1,1-Dichloroethane	UG/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,1-Dichloroethene	UG/L	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U
1,2,4-Trichlorobenzene	UG/L	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
1,2-Dibromo-3-chloropropane	UG/L	R	R	R	R	R
1,2-Dibromoethane (Ethylene dibromide)	UG/L	0.23 UJ	0.23 UJ	0.23 UJ	0.23 UJ	0.23 UJ
1,2-Dichlorobenzene	UG/L	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,2-Dichloroethane	UG/L	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
1,2-Dichloroethene (cis)	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethene (trans)	UG/L	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
1,2-Dichloropropane	UG/L	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
1,3-Dichlorobenzene	UG/L	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
1,3-Dichloropropene (cis)	UG/L	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
1,3-Dichloropropene (trans)	UG/L	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,4-Dichlorobenzene	UG/L	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-Hexanone	UG/L	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U
4-Methyl-2-pentanone	UG/L	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
Acetone	UG/L	1.5 U	1.5 U	1.5 U	4.1 J	1.5 U
Benzene	UG/L	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
Bromodichloromethane	UG/L	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U

Flags assigned during chemistry validation are shown

U - Not detected above the reported method detection limit. J - The reported concentration is an estimated value.

UJ - Not detected. The reported detection limit is an estimated value. R - Rejected the result is unusable

UG/L - Micrograms per liter. NA - The sample was not analyzed for this parameter

Made By: JLL 3/31/2009 Checked By: MK 4/1/2009

Detection Limits shown are MDL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
FEBRUARY 2009

Location ID		MMW-01	MMW-02	MMW-03	MMW-04	MMW-06
Sample ID		MMW-1	MMW-2	MMW-3	MMW-4	MMW-6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/12/09	02/12/09	02/11/09	02/11/09	02/11/09
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U
Bromomethane	UG/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Carbon disulfide	UG/L	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
Carbon tetrachloride	UG/L	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Chlorobenzene	UG/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Chloroethane	UG/L	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U
Chloroform	UG/L	0.22 U	0.22 U	0.22 U	0.22 U	1.2
Chloromethane	UG/L	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U
Cyclohexane	UG/L	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
1-bromochloromethane	UG/L	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
Dichlorodifluoromethane	UG/L	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
Ethylbenzene	UG/L	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Isopropylbenzene (Cumene)	UG/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Methyl acetate	UG/L	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
Methyl ethyl ketone (2-Butanone)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert-butyl ether	UG/L	0.25 U	0.25 U	0.25 U	0.25 U	0.53 J
Methylcyclohexane	UG/L	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
Methylene chloride	UG/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Styrene	UG/L	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Tetrachloroethene	UG/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Toluene	UG/L	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
Trichloroethene	UG/L	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
Trichlorofluoromethane	UG/L	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U

Flags assigned during chemistry validation are shown

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- Not detected The reported detection limit is an estimated value R - Rejected, the result is unusable

UG/L - Micrograms per liter NA - The sample was not analyzed for this parameter.

Made By: JJJ 3/31/2009 Checked By: MK 4/1/2009

Detection Limits shown are MDL

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[LOGDATE] = 02/11/2009 AND [MATRIX] = WG

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
FEBRUARY 2009

Location ID		MMW-01	MMW-02	MMW-03	MMW-04	MMW-06
Sample ID		MMW-1	MMW-2	MMW-3	MMW-4	MMW-6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/12/09	02/12/09	02/11/09	02/11/09	02/11/09
Parameter	Units					
Volatile Organic Compounds						
Vinyl chloride	UG/L	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
m&p-Xylene	UG/L	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
o-Xylene	UG/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	0.85 U	0.86 U	0.94 U	0.85 U	0.85 U
2,2-oxybis(1-Chloropropane)	UG/L	0.77 U	0.78 U	0.85 U	0.77 U	0.77 U
2,4,5-Trichlorophenol	UG/L	0.58 U	0.59 U	0.64 U	0.58 U	0.58 U
2,4,6-Trichlorophenol	UG/L	0.46 U	0.47 U	0.51 U	0.46 U	0.46 U
2,4-Dichlorophenol	UG/L	0.63 U	0.64 U	0.70 U	0.63 U	0.63 U
2,4-Dimethylphenol	UG/L	1.7 U	1.8 U	1.9 U	1.7 U	1.7 U
2,4-Dinitrophenol	UG/L	22 U	23 U	25 UJ	22 UJ	22 UJ
2,4-Dinitrotoluene	UG/L	0.72 U	0.73 U	0.80 U	0.72 U	0.72 U
2,6-Dinitrotoluene	UG/L	0.80 U	0.81 U	0.88 U	0.80 U	0.80 U
2-Chloronaphthalene	UG/L	0.71 U	0.71 U	0.77 U	0.71 U	0.71 U
2-Chlorophenol	UG/L	0.46 U	0.47 U	0.51 U	0.46 U	0.46 U
2-Methylnaphthalene	UG/L	0.59 U	0.60 U	0.65 U	0.59 U	0.59 U
2-Methylphenol (o-cresol)	UG/L	0.75 U	0.76 U	0.83 U	0.75 U	0.75 U
2-Nitroaniline	UG/L	15 U	16 U	17 U	15 U	15 U
2-Nitrophenol	UG/L	0.81 U	0.82 U	0.90 U	0.81 U	0.81 U
3,3-Dichlorobenzidine	UG/L	0.49 UJ	0.50 UJ	0.54 U	0.49 U	0.49 U
3-Nitroaniline	UG/L	10 UJ	11 UJ	11 U	10 U	10 U
4,6-Dinitro-2-methylphenol	UG/L	0.91 U	0.92 U	1.0 U	0.91 U	0.91 U
4-Bromophenyl-phenylether	UG/L	0.71 U	0.72 U	0.79 U	0.71 U	0.71 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
FEBRUARY 2009

Location ID		MMW-01	MMW-02	MMW-03	MMW-04	MMW-06
Sample ID		MMW-1	MMW-2	MMW-3	MMW-4	MMW-6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/12/09	02/12/09	02/11/09	02/11/09	02/11/09
Parameter	Units					
Semivolatile Organic Compounds						
4-Chloro-3-methylphenol	UG/L	0.77 U	0.78 U	0.85 U	0.77 U	0.77 U
4-Chloroaniline	UG/L	0.67 U	0.68 U	0.74 U	0.67 U	0.67 U
4-Chlorophenyl-phenylether	UG/L	0.43 U	0.44 U	0.48 U	0.43 U	0.43 U
4-Methylphenol (p-cresol)	UG/L	0.84 U	0.84 U	0.92 U	0.84 U	0.84 U
4-Nitroaniline	UG/L	14 U	15 U	16 U	14 U	14 U
4-Nitrophenol	UG/L	6.7 UJ	6.7 UJ	7.3 UJ	6.7 UJ	6.7 UJ
Acenaphthene	UG/L	0.40 U	0.41 U	0.44 U	0.40 U	0.40 U
Acenaphthylene	UG/L	0.77 U	0.78 U	0.85 U	0.77 U	0.77 U
Acetophenone	UG/L	2.9 U	2.9 U	3.1 U	2.9 U	2.9 U
Anthracene	UG/L	0.53 U	0.54 U	0.59 U	0.53 U	0.53 U
Atrazine	UG/L	1.5 U	1.5 U	1.6 U	1.5 U	1.5 U
Benzaldehyde	UG/L	3.6 UJ	3.7 UJ	4.0 UJ	3.6 UJ	3.6 UJ
Benzo(a)anthracene	UG/L	0.26 U	0.27 U	0.29 U	0.26 U	0.26 U
Benzo(a)pyrene	UG/L	0.53 U	0.54 U	0.59 U	0.53 U	0.53 U
Benzo(b)fluoranthene	UG/L	0.38 U	0.39 U	0.42 U	0.38 U	0.38 U
Benzo(g,h,i)perylene	UG/L	0.32 U	0.33 U	0.36 U	0.32 U	0.32 U
Benzo(k)fluoranthene	UG/L	0.36 U	0.36 U	0.39 U	0.36 U	0.36 U
bis(2-Chloroethoxy)methane	UG/L	0.96 U	0.97 U	1.1 U	0.96 U	0.96 U
bis(2-Chloroethyl)ether	UG/L	0.67 U	0.68 U	0.74 U	0.67 U	0.67 U
bis(2-Ethylhexyl)phthalate	UG/L	0.38 U	0.39 U	0.42 U	1.3 J	0.38 U
Butylbenzylphthalate	UG/L	0.68 U	0.69 U	0.75 U	0.68 U	0.68 U
Caprolactam	UG/L	0.77 U	0.78 U	0.85 U	0.77 U	0.77 U
Carbazole	UG/L	0.53 U	0.54 U	0.59 U	0.53 U	0.53 U

Flags assigned during chemistry validation are shown

- Not detected above the reported method detection limit J - The reported concentration is an estimated value
 - Not detected The reported detection limit is an estimated value R - Rejected the result is unusable
 UG/L - Micrograms per liter NA - The sample was not analyzed for this parameter

Made By JJL 3/31/2009 Checked By: MK 4/1/2009

Detection Limits shown are MDL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
FEBRUARY 2009

Location ID		MMW-01	MMW-02	MMW-03	MMW-04	MMW-06
Sample ID		MMW-1	MMW-2	MMW-3	MMW-4	MMW-6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/12/09	02/12/09	02/11/09	02/11/09	02/11/09
Parameter	Units					
Semivolatile Organic Compounds						
Chrysene	UG/L	0.64 U	0.65 U	0.71 U	0.64 U	0.64 U
Dibenz(a,h)anthracene	UG/L	0.34 U	0.35 U	0.38 U	0.34 U	0.34 U
Dibenzofuran	UG/L	0.52 U	0.53 U	0.58 U	0.52 U	0.52 U
Diethylphthalate	UG/L	0.58 U	0.59 U	0.64 U	3.4 J	0.58 U
Dimethylphthalate	UG/L	0.74 U	0.75 U	0.82 U	0.74 U	0.74 U
Di-n-butylphthalate	UG/L	1.0 U	3.1 U	0.76 U	0.70 U	0.70 U
Di-n-octylphthalate	UG/L	0.85 U	0.86 U	0.94 U	0.85 U	0.85 U
Fluoranthene	UG/L	0.48 U	0.48 U	0.52 U	0.48 U	0.48 U
Fluorene	UG/L	0.58 U	0.59 U	0.64 U	0.58 U	0.58 U
Hexachlorobenzene	UG/L	0.70 U	0.70 U	0.76 U	0.70 U	0.70 U
Hexachlorobutadiene	UG/L	0.64 U	0.65 U	0.71 U	0.64 U	0.64 U
Hexachlorocyclopentadiene	UG/L	0.56 U	0.57 U	0.62 U	0.56 U	0.56 U
Hexachloroethane	UG/L	0.74 U	0.75 U	0.82 U	0.74 U	0.74 U
Indeno(1,2,3-cd)pyrene	UG/L	0.48 U	0.48 U	0.52 U	0.48 U	0.48 U
Isophorone	UG/L	0.60 U	0.61 U	0.66 U	0.60 U	0.60 U
Naphthalene	UG/L	0.80 U	0.81 U	0.88 U	0.80 U	0.80 U
Nitrobenzene	UG/L	0.63 U	0.64 U	0.70 U	0.63 U	0.63 U
N-Nitroso-di-n-propylamine	UG/L	0.52 U	0.53 U	0.58 U	0.52 U	0.52 U
N-Nitrosodiphenylamine	UG/L	0.50 U	0.51 U	0.55 U	0.50 U	0.50 U
Pentachlorophenol	UG/L	17 U	18 U	19 U	17 U	17 U
Phenanthrene	UG/L	0.37 U	0.38 U	0.41 U	0.37 U	0.37 U
Phenol	UG/L	0.63 U	0.64 U	0.70 U	0.63 U	0.63 U
Pyrene	UG/L	0.48 U	0.48 U	0.52 U	0.48 U	0.48 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
FEBRUARY 2009

Location ID		MMW-01	MMW-02	MMW-03	MMW-04	MMW-06
Sample ID		MMW-1	MMW-2	MMW-3	MMW-4	MMW-6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/12/09	02/12/09	02/11/09	02/11/09	02/11/09
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	NA	NA	NA
Aroclor 1221	UG/L	NA	NA	NA	NA	NA
Aroclor 1232	UG/L	NA	NA	NA	NA	NA
Aroclor 1242	UG/L	NA	NA	NA	NA	NA
Aroclor 1248	UG/L	NA	NA	NA	NA	NA
Aroclor 1254	UG/L	NA	NA	NA	NA	NA
Aroclor 1260	UG/L	NA	NA	NA	NA	NA
Metals						
Arsenic	UG/L	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U
Barium	UG/L	49.5 J	25.9 J	54.4 J	22.5 J	49.3 J
Cadmium	UG/L	0.12 U	5.0 U	0.12 U	5.0 U	0.12 U
Chromium	UG/L	10 U	10 U	10 U	10 U	10 U
Lead	UG/L	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U
Mercury	UG/L	0.20 U	0.019 U	0.019 U	0.20 U	0.019 U
Selenium	UG/L	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U
Silver	UG/L	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U

Flags assigned during chemistry validation are shown

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UG/L - Micrograms per liter NA - The sample was not analyzed for this parameter

Made By JLL 3/31/2009 Checked By MK 4/1/2009

Detection Limits shown are MDL

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[LOGDATE] == #2/11/2009# ANG [MATRIX] = 'VG'

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
FEBRUARY 2009

Location ID		MMW-07	MMW-09	MMW-10	MP-01
Sample ID		MMW-7	MMW-9	MMW-10	MP-1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-
Date Sampled		02/12/09	02/12/09	02/12/09	02/11/09
Parameter	Units				
Volatile Organic Compounds					
1,1,1-Trichloroethane	UG/L	0.22 U	0.22 U	0.22 U	0.22 U
1,1,2,2-Tetrachloroethane	UG/L	0.17 U	0.17 U	0.17 U	0.17 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	0.63 U	0.63 U	0.63 U	0.63 U
1,1,2-Trichloroethane	UG/L	0.29 U	0.29 U	0.29 U	0.29 U
1,1-Dichloroethane	UG/L	0.23 U	0.23 U	0.23 U	0.23 U
1,1-Dichloroethene	UG/L	0.52 U	0.52 U	0.52 U	0.52 U
1,2,4-Trichlorobenzene	UG/L	0.34 U	0.34 U	0.34 U	0.34 U
1,2-Dibromo-3-chloropropane	UG/L	R	R	R	R
1,2-Dibromoethane (Ethylene dibromide)	UG/L	0.23 UJ	0.23 UJ	0.23 UJ	0.23 UJ
1,2-Dichlorobenzene	UG/L	0.25 U	0.25 U	0.25 U	0.25 U
1,2-Dichloroethane	UG/L	0.36 U	0.36 U	0.36 U	0.36 U
1,2-Dichloroethene (cis)	UG/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethene (trans)	UG/L	0.34 U	0.34 U	0.34 U	0.34 U
1,2-Dichloropropane	UG/L	0.36 U	0.36 U	0.36 U	0.36 U
1,3-Dichlorobenzene	UG/L	0.33 U	0.33 U	0.33 U	0.33 U
1,3-Dichloropropene (cis)	UG/L	0.28 U	0.28 U	0.28 U	0.28 U
1,3-Dichloropropene (trans)	UG/L	0.22 U	0.22 U	0.22 U	0.22 U
1,4-Dichlorobenzene	UG/L	0.25 U	0.25 U	0.25 U	0.25 U
2-Hexanone	UG/L	0.85 U	0.85 U	0.85 U	0.85 U
4-Methyl-2-pentanone	UG/L	0.42 U	0.42 U	0.42 U	0.42 U
Acetone	UG/L	1.5 U	1.5 U	1.5 U	1.5 U
Benzene	UG/L	0.28 U	0.28 U	0.28 U	0.28 U
Bromodichloromethane	UG/L	0.37 U	0.37 U	0.37 U	0.37 U

Flags assigned during chemistry validation are shown

U - Not detected above the reported method detection limit J - The reported concentration is an estimated value

UJ - Not detected The reported detection limit is an estimated value. R - Rejected, the result is unusable

UG/L - Micrograms per liter NA - The sample was not analyzed for this parameter.

Made By JJL 3/31/2009 Checked By MK 4/1/2009

Detection Limits shown are MDL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
FEBRUARY 2009

Location ID		MMW-07	MMW-09	MMW-10	MP-01
Sample ID		MMW-7	MMW-9	MMW-10	MP-1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-
Date Sampled		02/12/09	02/12/09	02/12/09	02/11/09
Parameter	Units				
Volatile Organic Compounds					
Bromoform	UG/L	0.59 U	0.59 U	0.59 U	0.59 U
Bromomethane	UG/L	1.1 U	1.1 U	1.1 U	1.1 U
Carbon disulfide	UG/L	0.37 U	0.37 U	0.37 U	0.37 U
Carbon tetrachloride	UG/L	0.33 U	0.33 U	0.33 U	0.33 U
Chlorobenzene	UG/L	0.30 U	0.30 U	0.30 U	0.30 U
Chloroethane	UG/L	0.53 U	0.53 U	0.53 U	0.53 U
Chloroform	UG/L	1.7	0.22 U	0.22 U	0.22 U
Chloromethane	UG/L	0.71 U	0.71 U	0.71 U	0.71 U
Cyclohexane	UG/L	1.3 U	1.3 U	1.3 U	1.3 U
1,1-dibromochloromethane	UG/L	0.27 U	0.27 U	0.27 U	0.27 U
Dichlorodifluoromethane	UG/L	0.48 U	0.48 U	0.48 U	0.48 U
Ethylbenzene	UG/L	0.17 U	0.17 U	0.17 U	0.17 U
Isopropylbenzene (Cumene)	UG/L	0.21 U	0.21 U	0.21 U	0.21 U
Methyl acetate	UG/L	0.32 U	0.32 U	0.32 U	0.32 U
Methyl ethyl ketone (2-Butanone)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert-butyl ether	UG/L	0.25 U	7.1	0.25 U	0.25 U
Methylcyclohexane	UG/L	0.48 U	0.48 U	0.48 U	0.48 U
Methylene chloride	UG/L	0.21 U	0.21 U	0.21 U	0.21 U
Styrene	UG/L	0.17 U	0.17 U	0.17 U	0.17 U
Tetrachloroethene	UG/L	0.21 U	0.21 U	0.21 U	0.21 U
Toluene	UG/L	0.27 U	0.27 U	0.27 U	0.27 U
Trichloroethene	UG/L	0.39 U	0.39 U	0.39 U	0.39 U
Trichlorofluoromethane	UG/L	0.39 U	0.39 U	0.39 U	0.39 U

Flags assigned during chemistry validation are shown

U - Not detected above the reported method detection limit J - The reported concentration is an estimated value

J - Not detected The reported detection limit is an estimated value R - Rejected the result is unusable

UG/L - Micrograms per liter NA - The sample was not analyzed for this parameter.

Made By: JJJL 3/31/2009 Checked By: MK 4/1/2009

Detection Limits shown are MDL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
FEBRUARY 2009

Location ID		MMW-07	MMW-09	MMW-10	MP-01
Sample ID		MMW-7	MMW-9	MMW-10	MP-1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-
Date Sampled		02/12/09	02/12/09	02/12/09	02/11/09
Parameter	Units				
Volatile Organic Compounds					
Vinyl chloride	UG/L	0.32 U	0.32 U	0.32 U	0.32 U
m&p-Xylene	UG/L	0.22 U	0.22 U	0.22 U	0.22 U
o-Xylene	UG/L	0.24 U	0.24 U	0.24 U	0.24 U
Semivolatile Organic Compounds					
1,1-Biphenyl	UG/L	0.85 U	0.85 U	0.85 U	0.85 U
2,2-oxybis(1-Chloropropane)	UG/L	0.77 U	0.77 U	0.77 U	0.77 U
2,4,5-Trichlorophenol	UG/L	0.58 U	0.58 U	0.58 U	0.58 U
2,4,6-Trichlorophenol	UG/L	0.46 U	0.46 U	0.46 U	0.46 U
2,4-Dichlorophenol	UG/L	0.63 U	0.63 U	0.63 U	0.63 U
2,4-Dimethylphenol	UG/L	1.7 U	1.7 U	1.7 U	1.7 U
2,4-Dinitrophenol	UG/L	22 U	22 U	22 U	22 UJ
2,4-Dinitrotoluene	UG/L	0.72 U	0.72 U	0.72 U	0.72 U
2,6-Dinitrotoluene	UG/L	0.80 U	0.80 U	0.80 U	0.80 U
2-Chloronaphthalene	UG/L	0.71 U	0.71 U	0.71 U	0.71 U
2-Chlorophenol	UG/L	0.46 U	0.46 U	0.46 U	0.46 U
2-Methylnaphthalene	UG/L	0.59 U	0.59 U	0.59 U	0.59 U
2-Methylphenol (o-cresol)	UG/L	0.75 U	0.75 U	0.75 U	0.75 U
2-Nitroaniline	UG/L	15 U	15 U	15 U	15 U
2-Nitrophenol	UG/L	0.81 U	0.81 U	0.81 U	0.81 U
3,3-Dichlorobenzidine	UG/L	0.49 UJ	0.49 UJ	0.49 UJ	0.49 U
3-Nitroaniline	UG/L	10 UJ	10 UJ	10 UJ	10 U
4,6-Dinitro-2-methylphenol	UG/L	0.91 U	0.91 U	0.91 U	0.91 U
4-Bromophenyl-phenylether	UG/L	0.71 U	0.71 U	0.71 U	0.71 U

Flags assigned during chemistry validation are shown

U - Not detected above the reported method detection limit J - The reported concentration is an estimated value

U.I - Not detected The reported detection limit is an estimated value R - Rejected the result is unusable

UG/L - Micrograms per liter NA - The sample was not analyzed for this parameter.

Made By JLL 3/31/2009 Checked By MK 4/1/2009

Detection Limits shown are MDL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
FEBRUARY 2009

Location ID		MMW-07	MMW-09	MMW-10	MP-01
Sample ID		MMW-7	MMW-9	MMW-10	MP-1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-
Date Sampled		02/12/09	02/12/09	02/12/09	02/11/09
Parameter	Units				
Semivolatile Organic Compounds					
4-Chloro-3-methylphenol	UG/L	0.77 U	0.77 U	0.77 U	0.77 U
4-Chloroaniline	UG/L	0.67 U	0.67 U	0.67 U	0.67 U
4-Chlorophenyl-phenylether	UG/L	0.43 U	0.43 U	0.43 U	0.43 U
4-Methylphenol (p-cresol)	UG/L	0.84 U	0.84 U	0.84 U	0.84 U
4-Nitroaniline	UG/L	14 U	14 U	14 U	14 U
4-Nitrophenol	UG/L	6.7 UJ	6.7 UJ	6.7 UJ	6.7 UJ
Acenaphthene	UG/L	0.40 U	0.40 U	0.40 U	0.40 U
Acenaphthylene	UG/L	0.77 U	0.77 U	0.77 U	0.77 U
Acetophenone	UG/L	2.9 U	2.9 U	2.9 U	2.9 U
Anthracene	UG/L	0.53 U	0.53 U	0.53 U	0.53 U
Atrazine	UG/L	1.5 U	1.5 U	1.5 U	1.5 U
Benzaldehyde	UG/L	3.6 UJ	3.6 UJ	3.6 UJ	3.6 UJ
Benzo(a)anthracene	UG/L	0.26 U	0.26 U	0.26 U	0.26 U
Benzo(a)pyrene	UG/L	0.53 U	0.53 U	0.53 U	0.53 U
Benzo(b)fluoranthene	UG/L	0.38 U	0.38 U	0.38 U	0.38 U
Benzo(g,h,i)perylene	UG/L	0.32 U	0.32 U	0.32 U	0.32 U
Benzo(k)fluoranthene	UG/L	0.36 U	0.36 U	0.36 U	0.36 U
bis(2-Chloroethoxy)methane	UG/L	0.96 U	0.96 U	0.96 U	0.96 U
bis(2-Chloroethyl)ether	UG/L	0.67 U	0.67 U	0.67 U	0.67 U
bis(2-Ethylhexyl)phthalate	UG/L	0.38 U	0.38 U	0.38 U	0.38 U
Butylbenzylphthalate	UG/L	0.68 U	0.68 U	0.68 U	0.68 U
Caprolactam	UG/L	0.77 U	0.77 U	0.77 U	0.77 U
Carbazole	UG/L	0.53 U	0.53 U	0.53 U	0.53 U

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- Not detected The reported detection limit is an estimated value R - Rejected the result is unusable

UG/L - Micrograms per liter NA - The sample was not analyzed for this parameter

Made By JLL 3/31/2009 Checked By MK 4/1/2009

Detection Limits shown are MDL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
FEBRUARY 2009

Location ID		MMW-07	MMW-09	MMW-10	MP-01
Sample ID		MMW-7	MMW-9	MMW-10	MP-1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-
Date Sampled		02/12/09	02/12/09	02/12/09	02/11/09
Parameter	Units				
Semivolatile Organic Compounds					
Chrysene	UG/L	0.64 U	0.64 U	0.64 U	0.64 U
Dibenz(a,h)anthracene	UG/L	0.34 U	0.34 U	0.34 U	0.34 U
Dibenzofuran	UG/L	0.52 U	0.52 U	0.52 U	0.52 U
Diethylphthalate	UG/L	0.58 U	0.58 U	0.58 U	0.58 U
Dimethylphthalate	UG/L	0.74 U	0.74 U	0.74 U	0.74 U
Di-n-butylphthalate	UG/L	2.5 U	2.4 U	2.3 U	0.70 U
Di-n-octylphthalate	UG/L	0.85 U	0.85 U	0.85 U	0.85 U
Fluoranthene	UG/L	0.48 U	0.48 U	0.48 U	0.48 U
Fluorene	UG/L	0.58 U	0.58 U	0.58 U	0.58 U
Hexachlorobenzene	UG/L	0.70 U	0.70 U	0.70 U	0.70 U
Hexachlorobutadiene	UG/L	0.64 U	0.64 U	0.64 U	0.64 U
Hexachlorocyclopentadiene	UG/L	0.56 U	0.56 U	0.56 U	0.56 U
Hexachloroethane	UG/L	0.74 U	0.74 U	0.74 U	0.74 U
Indeno(1,2,3-cd)pyrene	UG/L	0.48 U	0.48 U	0.48 U	0.48 U
Isophorone	UG/L	0.60 U	0.60 U	0.60 U	0.60 U
Naphthalene	UG/L	0.80 U	0.80 U	0.80 U	0.80 U
Nitrobenzene	UG/L	0.63 U	0.63 U	0.63 U	0.63 U
N-Nitroso-di-n-propylamine	UG/L	0.52 U	0.52 U	0.52 U	0.52 U
N-Nitrosodiphenylamine	UG/L	0.50 U	0.50 U	0.50 U	0.50 U
Pentachlorophenol	UG/L	17 U	17 U	17 U	17 U
Phenanthrene	UG/L	0.37 U	0.37 U	0.37 U	0.37 U
Phenol	UG/L	0.63 U	0.63 U	0.63 U	0.63 U
Pyrene	UG/L	0.48 U	0.48 U	0.48 U	0.48 U

Flags assigned during chemistry validation are shown

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UJ - Not detected The reported detection limit is an estimated value R - Rejected the result is unusable

UG/L - Micrograms per liter NA - The sample was not analyzed for this parameter

Made By JJL 3/31/2009 Checked By MK 4/1/2009

Detection Limits shown are MDL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
FEBRUARY 2009

Location ID		MMW-07	MMW-09	MMW-10	MP-01
Sample ID		MMW-7	MMW-9	MMW-10	MP-1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-
Date Sampled		02/12/09	02/12/09	02/12/09	02/11/09
Parameter	Units				
Polychlorinated Biphenyls					
Aroclor 1016	UG/L	0.39 U	NA	NA	NA
Aroclor 1221	UG/L	0.54 U	NA	NA	NA
Aroclor 1232	UG/L	0.29 U	NA	NA	NA
Aroclor 1242	UG/L	0.23 U	NA	NA	NA
Aroclor 1248	UG/L	0.48 U	NA	NA	NA
Aroclor 1254	UG/L	0.34 U	NA	NA	NA
Aroclor 1260	UG/L	0.21 U	NA	NA	NA
Metals					
Arsenic	UG/L	3.2 U	3.2 U	3.2 U	3.2 U
Barium	UG/L	69.8 J	38.4 J	32.9 J	31.5 J
Cadmium	UG/L	0.12 U	0.12 U	0.12 U	5.0 U
Chromium	UG/L	10 U	10 U	10 U	10 U
Lead	UG/L	0.89 U	0.89 U	0.89 U	0.89 U
Mercury	UG/L	0.019 U	0.20 U	0.019 U	0.019 U
Selenium	UG/L	4.8 U	4.8 J	4.8 U	8.7 J
Silver	UG/L	0.83 U	0.83 U	0.83 U	0.83 U

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UG/L - Micrograms per liter NA - The sample was not analyzed for this parameter

Made By JLL 3/31/2009 Checked By MK 4/1/2009

Detection Limits shown are MDL

TABLE 3
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
FEBRUARY 2009

Location ID		FIELDQC	FIELDQC	FIELDQC
Sample ID		EQ-021109	TB-021109	TB-021209
Matrix		Water Quality	Water Quality	Water Quality
Depth Interval (ft)		-	-	-
Date Sampled		02/11/09	02/11/09	02/12/09
Parameter	Units	Equipment Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds				
1,1,1-Trichloroethane	UG/L	0.22 U	0.22 U	0.22 U
1,1,2,2-Tetrachloroethane	UG/L	0.17 U	0.17 U	0.17 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	0.63 U	0.63 U	0.63 U
1,1,2-Trichloroethane	UG/L	0.29 U	0.29 U	0.29 U
1,1-Dichloroethane	UG/L	0.23 U	0.23 U	0.23 U
1,1-Dichloroethene	UG/L	0.52 U	0.52 U	0.52 U
1,2,4-Trichlorobenzene	UG/L	0.34 U	0.34 U	0.34 U
1,2-Dibromo-3-chloropropane	UG/L	R	R	R
1,2-Dibromoethane (Ethylene dibromide)	UG/L	0.23 UJ	0.23 UJ	0.23 UJ
1,2-Dichlorobenzene	UG/L	0.25 U	0.25 U	0.25 U
1,2-Dichloroethane	UG/L	0.36 U	0.36 U	0.36 U
1,2-Dichloroethene (cis)	UG/L	0.50 U	0.50 U	0.50 U
1,2-Dichloroethene (trans)	UG/L	0.34 U	0.34 U	0.34 U
1,2-Dichloropropane	UG/L	0.36 U	0.36 U	0.36 U
1,3-Dichlorobenzene	UG/L	0.33 U	0.33 U	0.33 U
1,3-Dichloropropene (cis)	UG/L	0.28 U	0.28 U	0.28 U
1,3-Dichloropropene (trans)	UG/L	0.22 U	0.22 U	0.22 U
1,4-Dichlorobenzene	UG/L	0.25 U	0.25 U	0.25 U
2-Hexanone	UG/L	0.85 U	0.85 U	0.85 U
4-Methyl-2-pentanone	UG/L	0.42 U	0.42 U	0.42 U
Acetone	UG/L	1.5 U	1.5 U	1.9 J
Benzene	UG/L	0.28 U	0.28 U	0.28 U
Bromodichloromethane	UG/L	0.37 U	0.37 U	0.37 U

Flags assigned during chemistry validation are shown

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UJ - Not detected The reported detection limit is an estimated value R - Rejected the result is unusable

UG/L - Micrograms per liter. NA - The sample was not analyzed for this parameter.

Made By JLL 3/31/2009 Checked By MK 4/1/2009

Detection Limits shown are MDL

TABLE 3
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
FEBRUARY 2009

Location ID		FIELDQC	FIELDQC	FIELDQC
Sample ID		EQ-021109	TB-021109	TB-021209
Matrix		Water Quality	Water Quality	Water Quality
Depth Interval (ft)		-	-	-
Date Sampled		02/11/09	02/11/09	02/12/09
Parameter	Units	Equipment Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds				
Bromoform	UG/L	0.59 U	0.59 U	0.59 U
Bromomethane	UG/L	1.1 U	1.1 U	1.1 U
Carbon disulfide	UG/L	0.37 U	0.37 U	0.37 U
Carbon tetrachloride	UG/L	0.33 U	0.33 U	0.33 U
Chlorobenzene	UG/L	0.30 U	0.30 U	0.30 U
Chloroethane	UG/L	0.53 U	0.53 U	0.53 U
Chloroform	UG/L	0.22 U	0.22 U	0.22 U
Chloromethane	UG/L	0.71 U	0.71 U	0.71 U
Cyclohexane	UG/L	1.3 U	1.3 U	1.3 U
bromochloromethane	UG/L	0.27 U	0.27 U	0.27 U
Dichlorodifluoromethane	UG/L	0.48 U	0.48 U	0.48 U
Ethylbenzene	UG/L	0.17 U	0.17 U	0.17 U
Isopropylbenzene (Cumene)	UG/L	0.21 U	0.21 U	0.21 U
Methyl acetate	UG/L	0.32 U	0.32 U	0.32 U
Methyl ethyl ketone (2-Butanone)	UG/L	1.0 U	1.0 U	1.0 U
Methyl tert-butyl ether	UG/L	0.25 U	0.25 U	0.25 U
Methylcyclohexane	UG/L	0.48 U	0.48 U	0.48 U
Methylene chloride	UG/L	0.21 U	0.21 U	0.21 U
Styrene	UG/L	0.17 U	0.17 U	0.17 U
Tetrachloroethene	UG/L	0.21 U	0.21 U	0.21 U
Toluene	UG/L	1.1	0.27 U	0.27 U
Trichloroethene	UG/L	0.39 U	0.39 U	0.39 U
Trichlorofluoromethane	UG/L	1.1	0.39 U	0.39 U

Flags assigned during chemistry validation are shown

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i - Not detected The reported detection limit is an estimated value R - Rejected the result is unusable

UG/L - Micrograms per liter NA - The sample was not analyzed for this parameter.

Made By JJJL 3/31/2009 Checked By MK 4/1/2009

Detection Limits shown are MDL

TABLE 3
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
FEBRUARY 2009

Location ID		FIELDQC	FIELDQC	FIELDQC
Sample ID		EQ-021109	TB-021109	TB-021209
Matrix		Water Quality	Water Quality	Water Quality
Depth Interval (ft)		-	-	-
Date Sampled		02/11/09	02/11/09	02/12/09
Parameter	Units	Equipment Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds				
Vinyl chloride	UG/L	0.32 U	0.32 U	0.32 U
m&p-Xylene	UG/L	0.39 J	0.22 U	0.22 U
o-Xylene	UG/L	0.24 U	0.24 U	0.24 U
Semivolatile Organic Compounds				
1,1-Biphenyl	UG/L	0.85 U	NA	NA
2,2-oxybis(1-Chloropropane)	UG/L	0.77 U	NA	NA
2,4,5-Trichlorophenol	UG/L	0.58 U	NA	NA
2,4,6-Trichlorophenol	UG/L	0.46 U	NA	NA
2,4-Dichlorophenol	UG/L	0.63 U	NA	NA
2,4-Dimethylphenol	UG/L	1.7 U	NA	NA
2,4-Dinitrophenol	UG/L	22 UJ	NA	NA
2,4-Dinitrotoluene	UG/L	0.72 U	NA	NA
2,6-Dinitrotoluene	UG/L	0.80 U	NA	NA
2-Chloronaphthalene	UG/L	0.71 U	NA	NA
2-Chlorophenol	UG/L	0.46 U	NA	NA
2-Methylnaphthalene	UG/L	0.59 U	NA	NA
2-Methylphenol (o-cresol)	UG/L	0.75 U	NA	NA
2-Nitroaniline	UG/L	15 U	NA	NA
2-Nitrophenol	UG/L	0.81 U	NA	NA
3,3-Dichlorobenzidine	UG/L	0.49 U	NA	NA
3-Nitroaniline	UG/L	10 U	NA	NA
4,6-Dinitro-2-methylphenol	UG/L	0.91 U	NA	NA
4-Bromophenyl-phenylether	UG/L	0.71 U	NA	NA

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UG/L - Micrograms per liter. NA - The sample was not analyzed for this parameter.

Made By: JJL 3/31/2009 Checked By: MK 4/1/2009

Detection Limits shown are MDL

TABLE 3
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
FEBRUARY 2009

Location ID		FIELDQC	FIELDQC	FIELDQC
Sample ID		EQ-021109	TB-021109	TB-021209
Matrix		Water Quality	Water Quality	Water Quality
Depth Interval (ft)		-	-	-
Date Sampled		02/11/09	02/11/09	02/12/09
Parameter	Units	Equipment Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)
Semivolatile Organic Compounds				
4-Chloro-3-methylphenol	UG/L	0.77 U	NA	NA
4-Chloroaniline	UG/L	0.67 U	NA	NA
4-Chlorophenyl-phenylether	UG/L	0.43 U	NA	NA
4-Methylphenol (p-cresol)	UG/L	0.84 U	NA	NA
4-Nitroaniline	UG/L	14 U	NA	NA
4-Nitrophenol	UG/L	6.7 UJ	NA	NA
Acenaphthene	UG/L	0.40 U	NA	NA
Acenaphthylene	UG/L	0.77 U	NA	NA
Acetophenone	UG/L	2.9 U	NA	NA
Anthracene	UG/L	0.53 U	NA	NA
Atrazine	UG/L	1.5 U	NA	NA
Benzaldehyde	UG/L	3.6 UJ	NA	NA
Benzo(a)anthracene	UG/L	0.26 U	NA	NA
Benzo(a)pyrene	UG/L	0.53 U	NA	NA
Benzo(b)fluoranthene	UG/L	0.38 U	NA	NA
Benzo(g,h,i)perylene	UG/L	0.32 U	NA	NA
Benzo(k)fluoranthene	UG/L	0.36 U	NA	NA
bis(2-Chloroethoxy)methane	UG/L	0.96 U	NA	NA
bis(2-Chloroethyl)ether	UG/L	0.67 U	NA	NA
bis(2-Ethylhexyl)phthalate	UG/L	0.38 U	NA	NA
Butylbenzylphthalate	UG/L	0.68 U	NA	NA
Caprolactam	UG/L	0.77 U	NA	NA
Carbazole	UG/L	0.53 U	NA	NA

Flags assigned during chemistry validation are shown

- Not detected above the reported method detection limit J - The reported concentration is an estimated value

- Not detected The reported detection limit is an estimated value R - Rejected the result is unusable

UG/L - Micrograms per liter NA - The sample was not analyzed for this parameter

Made By: JLL 3/31/2009 Checked By: MK 4/1/2009

Detection Limits shown are MDL

TABLE 3
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
FEBRUARY 2009

Location ID		FIELDQC	FIELDQC	FIELDQC
Sample ID		EQ-021109	TB-021109	TB-021209
Matrix		Water Quality	Water Quality	Water Quality
Depth Interval (ft)		-	-	-
Date Sampled		02/11/09	02/11/09	02/12/09
Parameter	Units	Equipment Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)
Semivolatile Organic Compounds				
Chrysene	UG/L	0.64 U	NA	NA
Dibenz(a,h)anthracene	UG/L	0.34 U	NA	NA
Dibenzofuran	UG/L	0.52 U	NA	NA
Diethylphthalate	UG/L	0.58 U	NA	NA
Dimethylphthalate	UG/L	0.74 U	NA	NA
Di-n-butylphthalate	UG/L	1.3 J	NA	NA
Di-n-octylphthalate	UG/L	0.85 U	NA	NA
Fluoranthene	UG/L	0.48 U	NA	NA
Fluorene	UG/L	0.58 U	NA	NA
Hexachlorobenzene	UG/L	0.70 U	NA	NA
Hexachlorobutadiene	UG/L	0.64 U	NA	NA
Hexachlorocyclopentadiene	UG/L	0.56 U	NA	NA
Hexachloroethane	UG/L	0.74 U	NA	NA
Indeno(1,2,3-cd)pyrene	UG/L	0.48 U	NA	NA
Isophorone	UG/L	0.60 U	NA	NA
Naphthalene	UG/L	0.80 U	NA	NA
Nitrobenzene	UG/L	0.63 U	NA	NA
N-Nitroso-di-n-propylamine	UG/L	0.52 U	NA	NA
N-Nitrosodiphenylamine	UG/L	0.50 U	NA	NA
Pentachlorophenol	UG/L	17 U	NA	NA
Phenanthrene	UG/L	0.37 U	NA	NA
Phenol	UG/L	0.63 U	NA	NA
Pyrene	UG/L	0.48 U	NA	NA

Flags assigned during chemistry validation are shown

U - Not detected above the reported method detection limit. J - The reported concentration is an estimated value

UJ - Not detected. The reported detection limit is an estimated value. R - Rejected, the result is unusable

UG/L - Micrograms per liter. NA - The sample was not analyzed for this parameter.

Made By: JLL 3/31/2009 Checked By: MK 4/1/2009

Detection Limits shown are MDL

TABLE 3
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
MACEDON FILMS SITE SUPPLEMENTAL INVESTIGATION
FEBRUARY 2009

Location ID		FIELDQC	FIELDQC	FIELDQC
Sample ID		EQ-021109	TB-021109	TB-021209
Matrix		Water Quality	Water Quality	Water Quality
Depth Interval (ft)		-	-	-
Date Sampled		02/11/09	02/11/09	02/12/09
Parameter	Units	Equipment Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)
Metals				
Arsenic	UG/L	3.2 U	NA	NA
Barium	UG/L	0.50 U	NA	NA
Cadmium	UG/L	0.12 U	NA	NA
Chromium	UG/L	0.48 J	NA	NA
Lead	UG/L	0.89 U	NA	NA
Mercury	UG/L	0.019 U	NA	NA
Selenium	UG/L	4.8 U	NA	NA
Silver	UG/L	0.83 U	NA	NA

Flags assigned during chemistry validation are shown

- Not detected above the reported method detection limit J - The reported concentration is an estimated value

- Not detected The reported detection limit is an estimated value R - Rejected the result is unusable

UG/L - Micrograms per liter NA - The sample was not analyzed for this parameter

Made By JJL 3/31/2009 Checked By MK 4/1/2009

Detection Limits shown are MDL

ATTACHMENT A

VALIDATED FORM 1'S

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Pactiv-Macedon/1117564.00002
Sample Matrix: Water
Sample Name: MMW-1
Lab Code: R0900760-008

Service Request: R0900760
Date Collected: 2/12/09 0930
Date Received: 2/12/09

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.22	1	NA	2/23/09 18:34		143862	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.17	1	NA	2/23/09 18:34		143862	
1,1,2-Trichloroethane	1.0	U	1.0	0.29	1	NA	2/23/09 18:34		143862	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.63	1	NA	2/23/09 18:34		143862	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.23	1	NA	2/23/09 18:34		143862	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.52	1	NA	2/23/09 18:34		143862	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.34	1	NA	2/23/09 18:34		143862	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U R	2.0	0.83	1	NA	2/23/09 18:34		143862	
1,2-Dibromoethane	1.0	U J	1.0	0.23	1	NA	2/23/09 18:34		143862	
1,2-Dichlorobenzene	1.0	U	1.0	0.25	1	NA	2/23/09 18:34		143862	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	NA	2/23/09 18:34		143862	
1,2-Dichloropropane	1.0	U	1.0	0.36	1	NA	2/23/09 18:34		143862	
1,3-Dichlorobenzene	1.0	U	1.0	0.33	1	NA	2/23/09 18:34		143862	
1,4-Dichlorobenzene	1.0	U	1.0	0.25	1	NA	2/23/09 18:34		143862	
2-Butanone (MEK)	5.0	U	5.0	1.0	1	NA	2/23/09 18:34		143862	
2-Hexanone	5.0	U	5.0	0.85	1	NA	2/23/09 18:34		143862	
4-Methyl-2-pentanone	5.0	U	5.0	0.42	1	NA	2/23/09 18:34		143862	
Acetone	10	U	10	1.5	1	NA	2/23/09 18:34		143862	
Benzene	1.0	U	1.0	0.28	1	NA	2/23/09 18:34		143862	
Bromodichloromethane	1.0	U	1.0	0.37	1	NA	2/23/09 18:34		143862	
Bromoform	1.0	U	1.0	0.59	1	NA	2/23/09 18:34		143862	
Bromomethane	2.0	U	2.0	1.1	1	NA	2/23/09 18:34		143862	
Carbon Disulfide	1.0	U	1.0	0.37	1	NA	2/23/09 18:34		143862	
Carbon Tetrachloride	1.0	U	1.0	0.33	1	NA	2/23/09 18:34		143862	
Chlorobenzene	1.0	U	1.0	0.30	1	NA	2/23/09 18:34		143862	
Chloroethane	2.0	U	2.0	0.53	1	NA	2/23/09 18:34		143862	
Chloroform	1.0	U	1.0	0.22	1	NA	2/23/09 18:34		143862	
Chloromethane	2.0	U	2.0	0.71	1	NA	2/23/09 18:34		143862	
Cyclohexane	1.0	U	1.0	1.3	1	NA	2/23/09 18:34		143862	
Dibromochloromethane	1.0	U	1.0	0.27	1	NA	2/23/09 18:34		143862	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	0.48	1	NA	2/23/09 18:34		143862	
Dichloromethane	1.0	U	1.0	0.21	1	NA	2/23/09 18:34		143862	
Ethylbenzene	1.0	U	1.0	0.17	1	NA	2/23/09 18:34		143862	

Comments:

3/31/09

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
P t: Pactiv-Macedon/1117564.00002
Sample Matrix: Water
Sample Name: MMW-1
Lab Code: R0900760-008

Service Request: R0900760
Date Collected: 2/12/09 0930
Date Received: 2/12/09

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	1.0	U	1.0	0.21	1	NA	2/23/09 18:34		143862	
Methyl Acetate	10	U	10	0.32	1	NA	2/23/09 18:34		143862	
Methyl tert-Butyl Ether	1.0	U	1.0	0.25	1	NA	2/23/09 18:34		143862	
Methylcyclohexane	1.0	U	1.0	0.48	1	NA	2/23/09 18:34		143862	
Styrene	1.0	U	1.0	0.17	1	NA	2/23/09 18:34		143862	
Tetrachloroethene (PCE)	1.0	U	1.0	0.21	1	NA	2/23/09 18:34		143862	
Toluene	1.0	U	1.0	0.27	1	NA	2/23/09 18:34		143862	
Trichloroethene (TCE)	1.0	U	1.0	0.39	1	NA	2/23/09 18:34		143862	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.39	1	NA	2/23/09 18:34		143862	
Vinyl Chloride	1.0	U	1.0	0.32	1	NA	2/23/09 18:34		143862	
cis-1,2-Dichloroethene	1.0	U	1.0	0.50	1	NA	2/23/09 18:34		143862	
cis-2-Dichloropropene	1.0	U	1.0	0.28	1	NA	2/23/09 18:34		143862	
m-Xylenes	2.0	U	2.0	0.22	1	NA	2/23/09 18:34		143862	
o-Xylene	1.0	U	1.0	0.24	1	NA	2/23/09 18:34		143862	
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	1	NA	2/23/09 18:34		143862	
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	1	NA	2/23/09 18:34		143862	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	100	80-123	2/23/09 18:34		
Dibromofluoromethane	99	89-115	2/23/09 18:34		
Toluene-d8	102	88-124	2/23/09 18:34		

Comments: _____

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW-1

Lab Name: CASROCH Contract: URS

Lab Code: 10145 Case No.: R9-760 SAS No.: SDG No.: 1117564

Matrix: (soil/water) WATER Lab Sample ID: R0900760-008|1.0

Sample wt/vol: 10.0 (g/ml) ML Lab File ID: Z7082.D

Level: (low/med) LOW Date Received: 2/11/2009

% Moisture: not dec. Date Analyzed: 2/23/2009

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

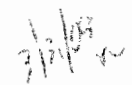
Client: URS Corporation
 Project: Pactiv-Macedon/1117564.00002
 Sample Matrix: Water
 Sample Name: MMW-2
 Lab Code: R0900760-009

Service Request: R0900760
 Date Collected: 2/12/09 1050
 Date Received: 2/12/09
 Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.22	1	NA	2/23/09 19:01		143862	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.17	1	NA	2/23/09 19:01		143862	
1,1,2-Trichloroethane	1.0	U	1.0	0.29	1	NA	2/23/09 19:01		143862	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.63	1	NA	2/23/09 19:01		143862	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.23	1	NA	2/23/09 19:01		143862	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.52	1	NA	2/23/09 19:01		143862	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.34	1	NA	2/23/09 19:01		143862	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U R	2.0	0.83	1	NA	2/23/09 19:01		143862	
1,2-Dibromoethane	1.0	U A	1.0	0.23	1	NA	2/23/09 19:01		143862	
1,2-Dichlorobenzene	1.0	U	1.0	0.25	1	NA	2/23/09 19:01		143862	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	NA	2/23/09 19:01		143862	
1,2-Dichloropropane	1.0	U	1.0	0.36	1	NA	2/23/09 19:01		143862	
1,3-Dichlorobenzene	1.0	U	1.0	0.33	1	NA	2/23/09 19:01		143862	
1,4-Dichlorobenzene	1.0	U	1.0	0.25	1	NA	2/23/09 19:01		143862	
2-Butanone (MEK)	5.0	U	5.0	1.0	1	NA	2/23/09 19:01		143862	
2-Hexanone	5.0	U	5.0	0.85	1	NA	2/23/09 19:01		143862	
4-Methyl-2-pentanone	5.0	U	5.0	0.42	1	NA	2/23/09 19:01		143862	
Acetone	10	U	10	1.5	1	NA	2/23/09 19:01		143862	
Benzene	1.0	U	1.0	0.28	1	NA	2/23/09 19:01		143862	
Bromodichloromethane	1.0	U	1.0	0.37	1	NA	2/23/09 19:01		143862	
Bromoform	1.0	U	1.0	0.59	1	NA	2/23/09 19:01		143862	
Bromomethane	2.0	U	2.0	1.1	1	NA	2/23/09 19:01		143862	
Carbon Disulfide	1.0	U	1.0	0.37	1	NA	2/23/09 19:01		143862	
Carbon Tetrachloride	1.0	U	1.0	0.33	1	NA	2/23/09 19:01		143862	
Chlorobenzene	1.0	U	1.0	0.30	1	NA	2/23/09 19:01		143862	
Chloroethane	2.0	U	2.0	0.53	1	NA	2/23/09 19:01		143862	
Chloroform	1.0	U	1.0	0.22	1	NA	2/23/09 19:01		143862	
Chloromethane	2.0	U	2.0	0.71	1	NA	2/23/09 19:01		143862	
Cyclohexane	1.0	U	1.0	1.3	1	NA	2/23/09 19:01		143862	
Dibromochloromethane	1.0	U	1.0	0.27	1	NA	2/23/09 19:01		143862	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	0.48	1	NA	2/23/09 19:01		143862	
Dichloromethane	1.0	U	1.0	0.21	1	NA	2/23/09 19:01		143862	
Ethylbenzene	1.0	U	1.0	0.17	1	NA	2/23/09 19:01		143862	

Comments: 

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Pactiv-Macedon/1117564.00002
Sample Matrix: Water
Sample Name: MMW-2
Lab Code: R0900760-009

Service Request: R0900760
Date Collected: 2/12/09 1050
Date Received: 2/12/09

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	1.0	U	1.0	0.21	1	NA	2/23/09 19:01		143862	
Methyl Acetate	10	U	10	0.32	1	NA	2/23/09 19:01		143862	
Methyl tert-Butyl Ether	1.0	U	1.0	0.25	1	NA	2/23/09 19:01		143862	
Methylcyclohexane	1.0	U	1.0	0.48	1	NA	2/23/09 19:01		143862	
Styrene	1.0	U	1.0	0.17	1	NA	2/23/09 19:01		143862	
Tetrachloroethene (PCE)	1.0	U	1.0	0.21	1	NA	2/23/09 19:01		143862	
Toluene	1.0	U	1.0	0.27	1	NA	2/23/09 19:01		143862	
Trichloroethene (TCE)	1.0	U	1.0	0.39	1	NA	2/23/09 19:01		143862	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.39	1	NA	2/23/09 19:01		143862	
Vinyl Chloride	1.0	U	1.0	0.32	1	NA	2/23/09 19:01		143862	
cis-1,2-Dichloroethene	1.0	U	1.0	0.50	1	NA	2/23/09 19:01		143862	
cis-1,3-Dichloropropene	1.0	U	1.0	0.28	1	NA	2/23/09 19:01		143862	
m,p-Xylenes	2.0	U	2.0	0.22	1	NA	2/23/09 19:01		143862	
o-Xylene	1.0	U	1.0	0.24	1	NA	2/23/09 19:01		143862	
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	1	NA	2/23/09 19:01		143862	
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	1	NA	2/23/09 19:01		143862	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	105	80-123	2/23/09 19:01		
Dibromofluoromethane	102	89-115	2/23/09 19:01		
Toluene-d8	106	88-124	2/23/09 19:01		

Comments:

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW-2

Lab Name: CASROCH Contract: URS
Lab Code: 10145 Case No.: R9-760 SAS No.: SDG No.: 1117564
Matrix: (soil/water) WATER Lab Sample ID: R0900760-009|1.0
Sample wt/vol: 10.0 (g/ml) ML Lab File ID: Z7083.D
Level: (low/med) LOW Date Received: 2/11/2009
% Moisture: not dec. Date Analyzed: 2/23/2009
GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/LNumber TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Pactiv-Macedon/1117564.00002
Sample Matrix: Water
Sample Name: MMW-3
Lab Code: R0900760-006

Service Request: R0900760
Date Collected: 2/11/09 1250
Date Received: 2/11/09

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.22	1	NA	2/23/09 17:38		143862	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.17	1	NA	2/23/09 17:38		143862	
1,1,2-Trichloroethane	1.0	U	1.0	0.29	1	NA	2/23/09 17:38		143862	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.63	1	NA	2/23/09 17:38		143862	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.23	1	NA	2/23/09 17:38		143862	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.52	1	NA	2/23/09 17:38		143862	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.34	1	NA	2/23/09 17:38		143862	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U R	2.0	0.83	1	NA	2/23/09 17:38		143862	
1,2-Dibromoethane	1.0	U I	1.0	0.23	1	NA	2/23/09 17:38		143862	
1,2-Dichlorobenzene	1.0	U	1.0	0.25	1	NA	2/23/09 17:38		143862	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	NA	2/23/09 17:38		143862	
1,2-Dichloropropane	1.0	U	1.0	0.36	1	NA	2/23/09 17:38		143862	
1,3-Dichlorobenzene	1.0	U	1.0	0.33	1	NA	2/23/09 17:38		143862	
1,4-Dichlorobenzene	1.0	U	1.0	0.25	1	NA	2/23/09 17:38		143862	
2-Butanone (MEK)	5.0	U	5.0	1.0	1	NA	2/23/09 17:38		143862	
2-Hexanone	5.0	U	5.0	0.85	1	NA	2/23/09 17:38		143862	
4-Methyl-2-pentanone	5.0	U	5.0	0.42	1	NA	2/23/09 17:38		143862	
Acetone	10	U	10	1.5	1	NA	2/23/09 17:38		143862	
Benzene	1.0	U	1.0	0.28	1	NA	2/23/09 17:38		143862	
Bromodichloromethane	1.0	U	1.0	0.37	1	NA	2/23/09 17:38		143862	
Bromoform	1.0	U	1.0	0.59	1	NA	2/23/09 17:38		143862	
Bromomethane	2.0	U	2.0	1.1	1	NA	2/23/09 17:38		143862	
Carbon Disulfide	1.0	U	1.0	0.37	1	NA	2/23/09 17:38		143862	
Carbon Tetrachloride	1.0	U	1.0	0.33	1	NA	2/23/09 17:38		143862	
Chlorobenzene	1.0	U	1.0	0.30	1	NA	2/23/09 17:38		143862	
Chloroethane	2.0	U	2.0	0.53	1	NA	2/23/09 17:38		143862	
Chloroform	1.0	U	1.0	0.22	1	NA	2/23/09 17:38		143862	
Chloromethane	2.0	U	2.0	0.71	1	NA	2/23/09 17:38		143862	
Cyclohexane	1.0	U	1.0	1.3	1	NA	2/23/09 17:38		143862	
Dibromochloromethane	1.0	U	1.0	0.27	1	NA	2/23/09 17:38		143862	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	0.48	1	NA	2/23/09 17:38		143862	
Dichloromethane	1.0	U	1.0	0.21	1	NA	2/23/09 17:38		143862	
Ethylbenzene	1.0	U	1.0	0.17	1	NA	2/23/09 17:38		143862	

Comments:

3/5/09

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Contract: Pactiv-Macedon/1117564.00002
Sample Matrix: Water
Sample Name: MMW-3
Lab Code: R0900760-006

Service Request: R0900760
Date Collected: 2/11/09 1250
Date Received: 2/11/09

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	1.0	U	1.0	0.21	1	NA	2/23/09 17:38		143862	
Methyl Acetate	10	U	10	0.32	1	NA	2/23/09 17:38		143862	
Methyl tert-Butyl Ether	1.0	U	1.0	0.25	1	NA	2/23/09 17:38		143862	
Methylcyclohexane	1.0	U	1.0	0.48	1	NA	2/23/09 17:38		143862	
Styrene	1.0	U	1.0	0.17	1	NA	2/23/09 17:38		143862	
Tetrachloroethene (PCE)	1.0	U	1.0	0.21	1	NA	2/23/09 17:38		143862	
Toluene	1.0	U	1.0	0.27	1	NA	2/23/09 17:38		143862	
Trichloroethene (TCE)	1.0	U	1.0	0.39	1	NA	2/23/09 17:38		143862	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.39	1	NA	2/23/09 17:38		143862	
Vinyl Chloride	1.0	U	1.0	0.32	1	NA	2/23/09 17:38		143862	
cis-1,2-Dichloroethene	1.0	U	1.0	0.50	1	NA	2/23/09 17:38		143862	
cis-1,3-Dichloropropene	1.0	U	1.0	0.28	1	NA	2/23/09 17:38		143862	
m-Xylenes	2.0	U	2.0	0.22	1	NA	2/23/09 17:38		143862	
o-Xylene	1.0	U	1.0	0.24	1	NA	2/23/09 17:38		143862	
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	1	NA	2/23/09 17:38		143862	
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	1	NA	2/23/09 17:38		143862	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	102	80-123	2/23/09 17:38		
Dibromofluoromethane	100	89-115	2/23/09 17:38		
Toluene-d8	104	88-124	2/23/09 17:38		

Comments:

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW-3

Lab Name: CASROCH Contract: URS
Lab Code: 10145 Case No.: R9-760 SAS No.: _____ SDG No.: 1117564
Matrix: (soil/water) WATER Lab Sample ID: R0900760-006|1.0
Sample wt/vol: 10.0 (g/ml) ML Lab File ID: Z7080.D
Level: (low/med) LOW Date Received: 2/11/2009
% Moisture: not dec. _____ Date Analyzed: 2/23/2009
GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Fact: Pactiv-Macedon/1117564.00002
 Sample Matrix: Water
 Sample Name: MMW-4
 Lab Code: R0900760-005

Service Request: R0900760
 Date Collected: 2/11/09 1050
 Date Received: 2/11/09
 Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.22	1	NA	2/23/09 17:10		143862	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.17	1	NA	2/23/09 17:10		143862	
1,1,2-Trichloroethane	1.0	U	1.0	0.29	1	NA	2/23/09 17:10		143862	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.63	1	NA	2/23/09 17:10		143862	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.23	1	NA	2/23/09 17:10		143862	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.52	1	NA	2/23/09 17:10		143862	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.34	1	NA	2/23/09 17:10		143862	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U R	2.0	0.83	1	NA	2/23/09 17:10		143862	
1,2-Dibromoethane	1.0	U J	1.0	0.23	1	NA	2/23/09 17:10		143862	
1,2-Dichlorobenzene	1.0	U	1.0	0.25	1	NA	2/23/09 17:10		143862	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	NA	2/23/09 17:10		143862	
1-chloropropane	1.0	U	1.0	0.36	1	NA	2/23/09 17:10		143862	
1,3-Dichlorobenzene	1.0	U	1.0	0.33	1	NA	2/23/09 17:10		143862	
1,4-Dichlorobenzene	1.0	U	1.0	0.25	1	NA	2/23/09 17:10		143862	
2-Butanone (MEK)	5.0	U	5.0	1.0	1	NA	2/23/09 17:10		143862	
2-Hexanone	5.0	U	5.0	0.85	1	NA	2/23/09 17:10		143862	
4-Methyl-2-pentanone	5.0	U	5.0	0.42	1	NA	2/23/09 17:10		143862	
Acetone	4.1	J	10	1.5	1	NA	2/23/09 17:10		143862	
Benzene	1.0	U	1.0	0.28	1	NA	2/23/09 17:10		143862	
Bromodichloromethane	1.0	U	1.0	0.37	1	NA	2/23/09 17:10		143862	
Bromoform	1.0	U	1.0	0.59	1	NA	2/23/09 17:10		143862	
Bromomethane	2.0	U	2.0	1.1	1	NA	2/23/09 17:10		143862	
Carbon Disulfide	1.0	U	1.0	0.37	1	NA	2/23/09 17:10		143862	
Carbon Tetrachloride	1.0	U	1.0	0.33	1	NA	2/23/09 17:10		143862	
Chlorobenzene	1.0	U	1.0	0.30	1	NA	2/23/09 17:10		143862	
Chloroethane	2.0	U	2.0	0.53	1	NA	2/23/09 17:10		143862	
Chloroform	1.0	U	1.0	0.22	1	NA	2/23/09 17:10		143862	
Chloromethane	2.0	U	2.0	0.71	1	NA	2/23/09 17:10		143862	
Cyclohexane	1.0	U	1.0	1.3	1	NA	2/23/09 17:10		143862	
Dibromochloromethane	1.0	U	1.0	0.27	1	NA	2/23/09 17:10		143862	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	0.48	1	NA	2/23/09 17:10		143862	
Dichloromethane	1.0	U	1.0	0.21	1	NA	2/23/09 17:10		143862	
Ethylbenzene	1.0	U	1.0	0.17	1	NA	2/23/09 17:10		143862	

Comments:

3/3/09

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Pactiv-Macedon/1117564.00002
Sample Matrix: Water
Sample Name: MMW-4
Lab Code: R0900760-005

Service Request: R0900760
Date Collected: 2/11/09 1050
Date Received: 2/11/09

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	1.0	U	1.0	0.21	1	NA	2/23/09 17:10		143862	
Methyl Acetate	10	U	10	0.32	1	NA	2/23/09 17:10		143862	
Methyl tert-Butyl Ether	1.0	U	1.0	0.25	1	NA	2/23/09 17:10		143862	
Methylcyclohexane	1.0	U	1.0	0.48	1	NA	2/23/09 17:10		143862	
Styrene	1.0	U	1.0	0.17	1	NA	2/23/09 17:10		143862	
Tetrachloroethene (PCE)	1.0	U	1.0	0.21	1	NA	2/23/09 17:10		143862	
Toluene	1.0	U	1.0	0.27	1	NA	2/23/09 17:10		143862	
Trichloroethene (TCE)	1.0	U	1.0	0.39	1	NA	2/23/09 17:10		143862	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.39	1	NA	2/23/09 17:10		143862	
Vinyl Chloride	1.0	U	1.0	0.32	1	NA	2/23/09 17:10		143862	
cis-1,2-Dichloroethene	1.0	U	1.0	0.50	1	NA	2/23/09 17:10		143862	
cis-1,3-Dichloropropene	1.0	U	1.0	0.28	1	NA	2/23/09 17:10		143862	
m,p-Xylenes	2.0	U	2.0	0.22	1	NA	2/23/09 17:10		143862	
o-Xylene	1.0	U	1.0	0.24	1	NA	2/23/09 17:10		143862	
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	1	NA	2/23/09 17:10		143862	
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	1	NA	2/23/09 17:10		143862	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	98	80-123	2/23/09 17:10		
Dibromofluoromethane	99	89-115	2/23/09 17:10		
Toluene-d8	103	88-124	2/23/09 17:10		

Comments:

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW-4

Lab Name: CASROCH Contract: URS
Lab Code: 10145 Case No.: R9-760 SAS No.: _____ SDG No.: 1117564
Matrix: (soil/water) WATER Lab Sample ID: R0900760-005|1.0
Sample wt/vol: 10.0 (g/ml) ML Lab File ID: Z7079.D
Level: (low/med) LOW Date Received: 2/11/2009
% Moisture: not dec. _____ Date Analyzed: 2/23/2009
GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Pactiv-Macedon/1117564.00002
Sample Matrix: Water
Sample Name: MMW-6
Lab Code: R0900760-004

Service Request: R0900760
Date Collected: 2/11/09 0930
Date Received: 2/11/09

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.22	1	NA	2/23/09 16:42		143862	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.17	1	NA	2/23/09 16:42		143862	
1,1,2-Trichloroethane	1.0	U	1.0	0.29	1	NA	2/23/09 16:42		143862	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.63	1	NA	2/23/09 16:42		143862	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.23	1	NA	2/23/09 16:42		143862	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.52	1	NA	2/23/09 16:42		143862	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.34	1	NA	2/23/09 16:42		143862	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U R	2.0	0.83	1	NA	2/23/09 16:42		143862	
1,2-Dibromoethane	1.0	U J	1.0	0.23	1	NA	2/23/09 16:42		143862	
1,2-Dichlorobenzene	1.0	U	1.0	0.25	1	NA	2/23/09 16:42		143862	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	NA	2/23/09 16:42		143862	
1,2-Dichloropropane	1.0	U	1.0	0.36	1	NA	2/23/09 16:42		143862	
1,3-Dichlorobenzene	1.0	U	1.0	0.33	1	NA	2/23/09 16:42		143862	
1,4-Dichlorobenzene	1.0	U	1.0	0.25	1	NA	2/23/09 16:42		143862	
2-Butanone (MEK)	5.0	U	5.0	1.0	1	NA	2/23/09 16:42		143862	
2-Hexanone	5.0	U	5.0	0.85	1	NA	2/23/09 16:42		143862	
4-Methyl-2-pentanone	5.0	U	5.0	0.42	1	NA	2/23/09 16:42		143862	
Acetone	10	U	10	1.5	1	NA	2/23/09 16:42		143862	
Benzene	1.0	U	1.0	0.28	1	NA	2/23/09 16:42		143862	
Bromodichloromethane	1.0	U	1.0	0.37	1	NA	2/23/09 16:42		143862	
Bromoform	1.0	U	1.0	0.59	1	NA	2/23/09 16:42		143862	
Bromomethane	2.0	U	2.0	1.1	1	NA	2/23/09 16:42		143862	
Carbon Disulfide	1.0	U	1.0	0.37	1	NA	2/23/09 16:42		143862	
Carbon Tetrachloride	1.0	U	1.0	0.33	1	NA	2/23/09 16:42		143862	
Chlorobenzene	1.0	U	1.0	0.30	1	NA	2/23/09 16:42		143862	
Chloroethane	2.0	U	2.0	0.53	1	NA	2/23/09 16:42		143862	
Chloroform	1.2		1.0	0.22	1	NA	2/23/09 16:42		143862	
Chloromethane	2.0	U	2.0	0.71	1	NA	2/23/09 16:42		143862	
Cyclohexane	1.0	U	1.0	1.3	1	NA	2/23/09 16:42		143862	
Dibromochloromethane	1.0	U	1.0	0.27	1	NA	2/23/09 16:42		143862	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	0.48	1	NA	2/23/09 16:42		143862	
Dichloromethane	1.0	U	1.0	0.21	1	NA	2/23/09 16:42		143862	
Ethylbenzene	1.0	U	1.0	0.17	1	NA	2/23/09 16:42		143862	

Comments:

3/2/09

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Contract: Pactiv-Macedon/1117564.00002
Sample Matrix: Water
Sample Name: MMW-6
Lab Code: R0900760-004

Service Request: R0900760
Date Collected: 2/11/09 0930
Date Received: 2/11/09

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	1.0	U	1.0	0.21	1	NA	2/23/09 16:42		143862	
Methyl Acetate	10	U	10	0.32	1	NA	2/23/09 16:42		143862	
Methyl tert-Butyl Ether	0.53	J	1.0	0.25	1	NA	2/23/09 16:42		143862	
Methylcyclohexane	1.0	U	1.0	0.48	1	NA	2/23/09 16:42		143862	
Styrene	1.0	U	1.0	0.17	1	NA	2/23/09 16:42		143862	
Tetrachloroethene (PCE)	1.0	U	1.0	0.21	1	NA	2/23/09 16:42		143862	
Toluene	1.0	U	1.0	0.27	1	NA	2/23/09 16:42		143862	
Trichloroethene (TCE)	1.0	U	1.0	0.39	1	NA	2/23/09 16:42		143862	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.39	1	NA	2/23/09 16:42		143862	
Vinyl Chloride	1.0	U	1.0	0.32	1	NA	2/23/09 16:42		143862	
cis-1,2-Dichloroethene	1.0	U	1.0	0.50	1	NA	2/23/09 16:42		143862	
cis-1,3-Dichloropropene	1.0	U	1.0	0.28	1	NA	2/23/09 16:42		143862	
m-Xylenes	2.0	U	2.0	0.22	1	NA	2/23/09 16:42		143862	
o-Xylene	1.0	U	1.0	0.24	1	NA	2/23/09 16:42		143862	
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	1	NA	2/23/09 16:42		143862	
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	1	NA	2/23/09 16:42		143862	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	102	80-123	2/23/09 16:42		
Dibromofluoromethane	100	89-115	2/23/09 16:42		
Toluene-d8	101	88-124	2/23/09 16:42		

Comments:

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW-6

Lab Name: CASROCH Contract: URS

Lab Code: 10145 Case No.: R9-760 SAS No.: SDG No.: 1117564

Matrix: (soil/water) WATER Lab Sample ID: R0900760-004|1.0

Sample wt/vol: 10.0 (g/ml) ML Lab File ID: Z7078.D

Level: (low/med) LOW Date Received: 2/11/2009

% Moisture: not dec. Date Analyzed: 2/23/2009

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Facility: Pactiv-Macedon/1117564.00002
 Sample Matrix: Water
 Sample Name: MMW-7
 Lab Code: R0900760-010

Service Request: R0900760
 Date Collected: 2/12/09 1250
 Date Received: 2/12/09
 Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.22	1	NA	2/23/09 19:29		143862	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.17	1	NA	2/23/09 19:29		143862	
1,1,2-Trichloroethane	1.0	U	1.0	0.29	1	NA	2/23/09 19:29		143862	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.63	1	NA	2/23/09 19:29		143862	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.23	1	NA	2/23/09 19:29		143862	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.52	1	NA	2/23/09 19:29		143862	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.34	1	NA	2/23/09 19:29		143862	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U R	2.0	0.83	1	NA	2/23/09 19:29		143862	
1,2-Dibromoethane	1.0	U A	1.0	0.23	1	NA	2/23/09 19:29		143862	
1,2-Dichlorobenzene	1.0	U	1.0	0.25	1	NA	2/23/09 19:29		143862	
1,1-Dichloroethane	1.0	U	1.0	0.36	1	NA	2/23/09 19:29		143862	
1,1-Dichloropropane	1.0	U	1.0	0.36	1	NA	2/23/09 19:29		143862	
1,3-Dichlorobenzene	1.0	U	1.0	0.33	1	NA	2/23/09 19:29		143862	
1,4-Dichlorobenzene	1.0	U	1.0	0.25	1	NA	2/23/09 19:29		143862	
2-Butanone (MEK)	5.0	U	5.0	1.0	1	NA	2/23/09 19:29		143862	
2-Hexanone	5.0	U	5.0	0.85	1	NA	2/23/09 19:29		143862	
4-Methyl-2-pentanone	5.0	U	5.0	0.42	1	NA	2/23/09 19:29		143862	
Acetone	10	U	10	1.5	1	NA	2/23/09 19:29		143862	
Benzene	1.0	U	1.0	0.28	1	NA	2/23/09 19:29		143862	
Bromodichloromethane	1.0	U	1.0	0.37	1	NA	2/23/09 19:29		143862	
Bromoform	1.0	U	1.0	0.59	1	NA	2/23/09 19:29		143862	
Bromomethane	2.0	U	2.0	1.1	1	NA	2/23/09 19:29		143862	
Carbon Disulfide	1.0	U	1.0	0.37	1	NA	2/23/09 19:29		143862	
Carbon Tetrachloride	1.0	U	1.0	0.33	1	NA	2/23/09 19:29		143862	
Chlorobenzene	1.0	U	1.0	0.30	1	NA	2/23/09 19:29		143862	
Chloroethane	2.0	U	2.0	0.53	1	NA	2/23/09 19:29		143862	
Chloroform	1.7		1.0	0.22	1	NA	2/23/09 19:29		143862	
Chloromethane	2.0	U	2.0	0.71	1	NA	2/23/09 19:29		143862	
Cyclohexane	1.0	U	1.0	1.3	1	NA	2/23/09 19:29		143862	
Dibromochloromethane	1.0	U	1.0	0.27	1	NA	2/23/09 19:29		143862	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	0.48	1	NA	2/23/09 19:29		143862	
Dichloromethane	1.0	U	1.0	0.21	1	NA	2/23/09 19:29		143862	
Ethylbenzene	1.0	U	1.0	0.17	1	NA	2/23/09 19:29		143862	

Comments: 

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Pactiv-Macedon/1117564.00002
Sample Matrix: Water
Sample Name: MMW-7
Lab Code: R0900760-010

Service Request: R0900760
Date Collected: 2/12/09 1250
Date Received: 2/12/09

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	1.0	U	1.0	0.21	1	NA	2/23/09 19:29		143862	
Methyl Acetate	10	U	10	0.32	1	NA	2/23/09 19:29		143862	
Methyl tert-Butyl Ether	1.0	U	1.0	0.25	1	NA	2/23/09 19:29		143862	
Methylcyclohexane	1.0	U	1.0	0.48	1	NA	2/23/09 19:29		143862	
Styrene	1.0	U	1.0	0.17	1	NA	2/23/09 19:29		143862	
Tetrachloroethene (PCE)	1.0	U	1.0	0.21	1	NA	2/23/09 19:29		143862	
Toluene	1.0	U	1.0	0.27	1	NA	2/23/09 19:29		143862	
Trichloroethene (TCE)	1.0	U	1.0	0.39	1	NA	2/23/09 19:29		143862	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.39	1	NA	2/23/09 19:29		143862	
Vinyl Chloride	1.0	U	1.0	0.32	1	NA	2/23/09 19:29		143862	
cis-1,2-Dichloroethene	1.0	U	1.0	0.50	1	NA	2/23/09 19:29		143862	
cis-1,3-Dichloropropene	1.0	U	1.0	0.28	1	NA	2/23/09 19:29		143862	
m,p-Xylenes	2.0	U	2.0	0.22	1	NA	2/23/09 19:29		143862	
o-Xylene	1.0	U	1.0	0.24	1	NA	2/23/09 19:29		143862	
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	1	NA	2/23/09 19:29		143862	
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	1	NA	2/23/09 19:29		143862	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	102	80-123	2/23/09 19:29		
Dibromofluoromethane	98	89-115	2/23/09 19:29		
Toluene-d8	103	88-124	2/23/09 19:29		

Comments:

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW-7

Lab Name: CASROCH Contract: URS
Lab Code: 10145 Case No.: R9-760 SAS No.: _____ SDG No.: 1117564
Matrix: (soil/water) WATER Lab Sample ID: R0900760-010|1.0
Sample wt/vol: 10.0 (g/ml) ML Lab File ID: Z7084.D
Level: (low/med) LOW Date Received: 2/11/2009
% Moisture: not dec. _____ Date Analyzed: 2/23/2009
GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Pactiv-Macedon/1117564.00002
Sample Matrix: Water
Sample Name: MMW-9
Lab Code: R0900760-012

Service Request: R0900760
Date Collected: 2/12/09 1600
Date Received: 2/12/09

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.22	1	NA	2/23/09 20:25		143862	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.17	1	NA	2/23/09 20:25		143862	
1,1,2-Trichloroethane	1.0	U	1.0	0.29	1	NA	2/23/09 20:25		143862	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.63	1	NA	2/23/09 20:25		143862	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.23	1	NA	2/23/09 20:25		143862	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.52	1	NA	2/23/09 20:25		143862	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.34	1	NA	2/23/09 20:25		143862	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U R	2.0	0.83	1	NA	2/23/09 20:25		143862	
1,2-Dibromoethane	1.0	U I	1.0	0.23	1	NA	2/23/09 20:25		143862	
1,2-Dichlorobenzene	1.0	U	1.0	0.25	1	NA	2/23/09 20:25		143862	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	NA	2/23/09 20:25		143862	
1,2-Dichloropropane	1.0	U	1.0	0.36	1	NA	2/23/09 20:25		143862	
1,3-Dichlorobenzene	1.0	U	1.0	0.33	1	NA	2/23/09 20:25		143862	
1,4-Dichlorobenzene	1.0	U	1.0	0.25	1	NA	2/23/09 20:25		143862	
2-Butanone (MEK)	5.0	U	5.0	1.0	1	NA	2/23/09 20:25		143862	
2-Hexanone	5.0	U	5.0	0.85	1	NA	2/23/09 20:25		143862	
4-Methyl-2-pentanone	5.0	U	5.0	0.42	1	NA	2/23/09 20:25		143862	
Acetone	10	U	10	1.5	1	NA	2/23/09 20:25		143862	
Benzene	1.0	U	1.0	0.28	1	NA	2/23/09 20:25		143862	
Bromodichloromethane	1.0	U	1.0	0.37	1	NA	2/23/09 20:25		143862	
Bromoform	1.0	U	1.0	0.59	1	NA	2/23/09 20:25		143862	
Bromomethane	2.0	U	2.0	1.1	1	NA	2/23/09 20:25		143862	
Carbon Disulfide	1.0	U	1.0	0.37	1	NA	2/23/09 20:25		143862	
Carbon Tetrachloride	1.0	U	1.0	0.33	1	NA	2/23/09 20:25		143862	
Chlorobenzene	1.0	U	1.0	0.30	1	NA	2/23/09 20:25		143862	
Chloroethane	2.0	U	2.0	0.53	1	NA	2/23/09 20:25		143862	
Chloroform	1.0	U	1.0	0.22	1	NA	2/23/09 20:25		143862	
Chloromethane	2.0	U	2.0	0.71	1	NA	2/23/09 20:25		143862	
Cyclohexane	1.0	U	1.0	1.3	1	NA	2/23/09 20:25		143862	
Dibromochloromethane	1.0	U	1.0	0.27	1	NA	2/23/09 20:25		143862	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	0.48	1	NA	2/23/09 20:25		143862	
Dichloromethane	1.0	U	1.0	0.21	1	NA	2/23/09 20:25		143862	
Ethylbenzene	1.0	U	1.0	0.17	1	NA	2/23/09 20:25		143862	

Comments:

3/3/09

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Pactiv-Macedon/1117564.00002
Sample Matrix: Water
Sample Name: MMW-9
Lab Code: R0900760-012

Service Request: R0900760
Date Collected: 2/12/09 1600
Date Received: 2/12/09

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	1.0	U	1.0	0.21	1	NA	2/23/09 20:25		143862	
Methyl Acetate	10	U	10	0.32	1	NA	2/23/09 20:25		143862	
Methyl tert-Butyl Ether	7.1		1.0	0.25	1	NA	2/23/09 20:25		143862	
Methylcyclohexane	1.0	U	1.0	0.48	1	NA	2/23/09 20:25		143862	
Styrene	1.0	U	1.0	0.17	1	NA	2/23/09 20:25		143862	
Tetrachloroethene (PCE)	1.0	U	1.0	0.21	1	NA	2/23/09 20:25		143862	
Toluene	1.0	U	1.0	0.27	1	NA	2/23/09 20:25		143862	
Trichloroethene (TCE)	1.0	U	1.0	0.39	1	NA	2/23/09 20:25		143862	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.39	1	NA	2/23/09 20:25		143862	
Vinyl Chloride	1.0	U	1.0	0.32	1	NA	2/23/09 20:25		143862	
cis-1,2-Dichloroethene	1.0	U	1.0	0.50	1	NA	2/23/09 20:25		143862	
cis-1,3-Dichloropropene	1.0	U	1.0	0.28	1	NA	2/23/09 20:25		143862	
m-Xylenes	2.0	U	2.0	0.22	1	NA	2/23/09 20:25		143862	
o-Xylene	1.0	U	1.0	0.24	1	NA	2/23/09 20:25		143862	
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	1	NA	2/23/09 20:25		143862	
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	1	NA	2/23/09 20:25		143862	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	102	80-123	2/23/09 20:25		
Dibromofluoromethane	99	89-115	2/23/09 20:25		
Toluene-d8	103	88-124	2/23/09 20:25		

Comments:

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW-9

Lab Name: CASROCH Contract: URS
Lab Code: 10145 Case No.: R9-760 SAS No.: _____ SDG No.: 1117564
Matrix: (soil/water) WATER Lab Sample ID: R0900760-012|1.0
Sample wt/vol: 10.0 (g/ml) ML Lab File ID: Z7086.D
Level: (low/med) LOW Date Received: 2/11/2009
% Moisture: not dec. _____ Date Analyzed: 2/23/2009
GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Facility: Pactiv-Macedon/1117564.00002
 Sample Matrix: Water
 Sample Name: MMW-10
 Lab Code: R0900760-011

Service Request: R0900760
 Date Collected: 2/12/09 1435
 Date Received: 2/12/09
 Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.22	1	NA	2/23/09 19:57		143862	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.17	1	NA	2/23/09 19:57		143862	
1,1,2-Trichloroethane	1.0 U	1.0	0.29	1	NA	2/23/09 19:57		143862	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.63	1	NA	2/23/09 19:57		143862	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.23	1	NA	2/23/09 19:57		143862	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.52	1	NA	2/23/09 19:57		143862	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	NA	2/23/09 19:57		143862	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U R	2.0	0.83	1	NA	2/23/09 19:57		143862	
1,2-Dibromoethane	1.0 U J	1.0	0.23	1	NA	2/23/09 19:57		143862	
1,2-Dichlorobenzene	1.0 U	1.0	0.25	1	NA	2/23/09 19:57		143862	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	NA	2/23/09 19:57		143862	
1-chloropropane	1.0 U	1.0	0.36	1	NA	2/23/09 19:57		143862	
1,3-Dichlorobenzene	1.0 U	1.0	0.33	1	NA	2/23/09 19:57		143862	
1,4-Dichlorobenzene	1.0 U	1.0	0.25	1	NA	2/23/09 19:57		143862	
2-Butanone (MEK)	5.0 U	5.0	1.0	1	NA	2/23/09 19:57		143862	
2-Hexanone	5.0 U	5.0	0.85	1	NA	2/23/09 19:57		143862	
4-Methyl-2-pentanone	5.0 U	5.0	0.42	1	NA	2/23/09 19:57		143862	
Acetone	10 U	10	1.5	1	NA	2/23/09 19:57		143862	
Benzene	1.0 U	1.0	0.28	1	NA	2/23/09 19:57		143862	
Bromodichloromethane	1.0 U	1.0	0.37	1	NA	2/23/09 19:57		143862	
Bromoform	1.0 U	1.0	0.59	1	NA	2/23/09 19:57		143862	
Bromomethane	2.0 U	2.0	1.1	1	NA	2/23/09 19:57		143862	
Carbon Disulfide	1.0 U	1.0	0.37	1	NA	2/23/09 19:57		143862	
Carbon Tetrachloride	1.0 U	1.0	0.33	1	NA	2/23/09 19:57		143862	
Chlorobenzene	1.0 U	1.0	0.30	1	NA	2/23/09 19:57		143862	
Chloroethane	2.0 U	2.0	0.53	1	NA	2/23/09 19:57		143862	
Chloroform	1.0 U	1.0	0.22	1	NA	2/23/09 19:57		143862	
Chloromethane	2.0 U	2.0	0.71	1	NA	2/23/09 19:57		143862	
Cyclohexane	1.0 U	1.0	1.3	1	NA	2/23/09 19:57		143862	
Dibromochloromethane	1.0 U	1.0	0.27	1	NA	2/23/09 19:57		143862	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.48	1	NA	2/23/09 19:57		143862	
Dichloromethane	1.0 U	1.0	0.21	1	NA	2/23/09 19:57		143862	
Ethylbenzene	1.0 U	1.0	0.17	1	NA	2/23/09 19:57		143862	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Pactiv-Macedon/1117564.00002
Sample Matrix: Water
Sample Name: MMW-10
Lab Code: R0900760-011

Service Request: R0900760
Date Collected: 2/12/09 1435
Date Received: 2/12/09
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	1.0	U	1.0	0.21	1	NA	2/23/09 19:57		143862	
Methyl Acetate	10	U	10	0.32	1	NA	2/23/09 19:57		143862	
Methyl tert-Butyl Ether	1.0	U	1.0	0.25	1	NA	2/23/09 19:57		143862	
Methylcyclohexane	1.0	U	1.0	0.48	1	NA	2/23/09 19:57		143862	
Styrene	1.0	U	1.0	0.17	1	NA	2/23/09 19:57		143862	
Tetrachloroethene (PCE)	1.0	U	1.0	0.21	1	NA	2/23/09 19:57		143862	
Toluene	1.0	U	1.0	0.27	1	NA	2/23/09 19:57		143862	
Trichloroethene (TCE)	1.0	U	1.0	0.39	1	NA	2/23/09 19:57		143862	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.39	1	NA	2/23/09 19:57		143862	
Vinyl Chloride	1.0	U	1.0	0.32	1	NA	2/23/09 19:57		143862	
cis-1,2-Dichloroethene	1.0	U	1.0	0.50	1	NA	2/23/09 19:57		143862	
cis-1,3-Dichloropropene	1.0	U	1.0	0.28	1	NA	2/23/09 19:57		143862	
m,p-Xylenes	2.0	U	2.0	0.22	1	NA	2/23/09 19:57		143862	
o-Xylene	1.0	U	1.0	0.24	1	NA	2/23/09 19:57		143862	
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	1	NA	2/23/09 19:57		143862	
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	1	NA	2/23/09 19:57		143862	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	102	80-123	2/23/09 19:57		
Dibromofluoromethane	99	89-115	2/23/09 19:57		
Toluene-d8	104	88-124	2/23/09 19:57		

Comments:

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW-10

Lab Name: CASROCH Contract: URS

Lab Code: 10145 Case No.: R9-760 SAS No.: _____ SDG No.: 1117564

Matrix: (soil/water) WATER Lab Sample ID: R0900760-011|1.0

Sample wt/vol: 10.0 (g/ml) ML Lab File ID: Z7085.D

Level: (low/med) LOW Date Received: 2/11/2009

% Moisture: not dec. _____ Date Analyzed: 2/23/2009

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/LNumber TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Pactiv-Macedon/1117564.00002
 Sample Matrix: Water
 Sample Name: MP-1
 Lab Code: R0900760-001

Service Request: R0900760
 Date Collected: 2/11/09 1115
 Date Received: 2/11/09

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.22	1	NA	2/23/09 15:18		143862	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.17	1	NA	2/23/09 15:18		143862	
1,1,2-Trichloroethane	1.0	U	1.0	0.29	1	NA	2/23/09 15:18		143862	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.63	1	NA	2/23/09 15:18		143862	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.23	1	NA	2/23/09 15:18		143862	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.52	1	NA	2/23/09 15:18		143862	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.34	1	NA	2/23/09 15:18		143862	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U R	2.0	0.83	1	NA	2/23/09 15:18		143862	
1,2-Dibromoethane	1.0	U J	1.0	0.23	1	NA	2/23/09 15:18		143862	
1,2-Dichlorobenzene	1.0	U	1.0	0.25	1	NA	2/23/09 15:18		143862	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	NA	2/23/09 15:18		143862	
1,2-Dichloropropane	1.0	U	1.0	0.36	1	NA	2/23/09 15:18		143862	
1,3-Dichlorobenzene	1.0	U	1.0	0.33	1	NA	2/23/09 15:18		143862	
1,4-Dichlorobenzene	1.0	U	1.0	0.25	1	NA	2/23/09 15:18		143862	
2-Butanone (MEK)	5.0	U	5.0	1.0	1	NA	2/23/09 15:18		143862	
2-Hexanone	5.0	U	5.0	0.85	1	NA	2/23/09 15:18		143862	
4-Methyl-2-pentanone	5.0	U	5.0	0.42	1	NA	2/23/09 15:18		143862	
Acetone	10	U	10	1.5	1	NA	2/23/09 15:18		143862	
Benzene	1.0	U	1.0	0.28	1	NA	2/23/09 15:18		143862	
Bromodichloromethane	1.0	U	1.0	0.37	1	NA	2/23/09 15:18		143862	
Bromoform	1.0	U	1.0	0.59	1	NA	2/23/09 15:18		143862	
Bromomethane	2.0	U	2.0	1.1	1	NA	2/23/09 15:18		143862	
Carbon Disulfide	1.0	U	1.0	0.37	1	NA	2/23/09 15:18		143862	
Carbon Tetrachloride	1.0	U	1.0	0.33	1	NA	2/23/09 15:18		143862	
Chlorobenzene	1.0	U	1.0	0.30	1	NA	2/23/09 15:18		143862	
Chloroethane	2.0	U	2.0	0.53	1	NA	2/23/09 15:18		143862	
Chloroform	1.0	U	1.0	0.22	1	NA	2/23/09 15:18		143862	
Chloromethane	2.0	U	2.0	0.71	1	NA	2/23/09 15:18		143862	
Cyclohexane	1.0	U	1.0	1.3	1	NA	2/23/09 15:18		143862	
Dibromochloromethane	1.0	U	1.0	0.27	1	NA	2/23/09 15:18		143862	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	0.48	1	NA	2/23/09 15:18		143862	
Dichloromethane	1.0	U	1.0	0.21	1	NA	2/23/09 15:18		143862	
Ethylbenzene	1.0	U	1.0	0.17	1	NA	2/23/09 15:18		143862	

Comments:

3/31/09
 Jm

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Event: Pactiv-Macedon/1117564.00002
Sample Matrix: Water
Sample Name: MP-1
Lab Code: R0900760-001

Service Request: R0900760
Date Collected: 2/11/09 1115
Date Received: 2/11/09

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	1.0	U	1.0	0.21	1	NA	2/23/09 15:18		143862	
Methyl Acetate	10	U	10	0.32	1	NA	2/23/09 15:18		143862	
Methyl tert-Butyl Ether	1.0	U	1.0	0.25	1	NA	2/23/09 15:18		143862	
Methylcyclohexane	1.0	U	1.0	0.48	1	NA	2/23/09 15:18		143862	
Styrene	1.0	U	1.0	0.17	1	NA	2/23/09 15:18		143862	
Tetrachloroethene (PCE)	1.0	U	1.0	0.21	1	NA	2/23/09 15:18		143862	
Toluene	1.0	U	1.0	0.27	1	NA	2/23/09 15:18		143862	
Trichloroethene (TCE)	1.0	U	1.0	0.39	1	NA	2/23/09 15:18		143862	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.39	1	NA	2/23/09 15:18		143862	
Vinyl Chloride	1.0	U	1.0	0.32	1	NA	2/23/09 15:18		143862	
cis-1,2-Dichloroethene	1.0	U	1.0	0.50	1	NA	2/23/09 15:18		143862	
cis-1,3-Dichloropropene	1.0	U	1.0	0.28	1	NA	2/23/09 15:18		143862	
m,p-Xylenes	2.0	U	2.0	0.22	1	NA	2/23/09 15:18		143862	
o-Xylene	1.0	U	1.0	0.24	1	NA	2/23/09 15:18		143862	
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	1	NA	2/23/09 15:18		143862	
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	1	NA	2/23/09 15:18		143862	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	104	80-123	2/23/09 15:18		
Dibromofluoromethane	99	89-115	2/23/09 15:18		
Toluene-d8	105	88-124	2/23/09 15:18		

Comments:

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MP-1

Lab Name: CASROCH Contract: URS

Lab Code: 10145 Case No.: R9-760 SAS No.: SDG No.: 1117564

Matrix: (soil/water) WATER Lab Sample ID: R0900760-001|1.0

Sample wt/vol: 10.0 (g/ml) ML Lab File ID: Z7075.D

Level: (low/med) LOW Date Received: 2/11/2009

% Moisture: not dec. Date Analyzed: 2/23/2009

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Fact: Pactiv-Macedon/1117564.00002
 Sample Matrix: Water
 Sample Name: EQ-021109
 Lab Code: R0900760-002

Service Request: R0900760
 Date Collected: 2/11/09 1230
 Date Received: 2/11/09

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.22	1	NA	2/23/09 15:46		143862	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.17	1	NA	2/23/09 15:46		143862	
1,1,2-Trichloroethane	1.0	U	1.0	0.29	1	NA	2/23/09 15:46		143862	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.63	1	NA	2/23/09 15:46		143862	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.23	1	NA	2/23/09 15:46		143862	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.52	1	NA	2/23/09 15:46		143862	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.34	1	NA	2/23/09 15:46		143862	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U R	2.0	0.83	1	NA	2/23/09 15:46		143862	
1,2-Dibromoethane	1.0	U J	1.0	0.23	1	NA	2/23/09 15:46		143862	
1,2-Dichlorobenzene	1.0	U	1.0	0.25	1	NA	2/23/09 15:46		143862	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	NA	2/23/09 15:46		143862	
1-chloropropane	1.0	U	1.0	0.36	1	NA	2/23/09 15:46		143862	
1,3-Dichlorobenzene	1.0	U	1.0	0.33	1	NA	2/23/09 15:46		143862	
1,4-Dichlorobenzene	1.0	U	1.0	0.25	1	NA	2/23/09 15:46		143862	
2-Butanone (MEK)	5.0	U	5.0	1.0	1	NA	2/23/09 15:46		143862	
2-Hexanone	5.0	U	5.0	0.85	1	NA	2/23/09 15:46		143862	
4-Methyl-2-pentanone	5.0	U	5.0	0.42	1	NA	2/23/09 15:46		143862	
Acetone	10	U	10	1.5	1	NA	2/23/09 15:46		143862	
Benzene	1.0	U	1.0	0.28	1	NA	2/23/09 15:46		143862	
Bromodichloromethane	1.0	U	1.0	0.37	1	NA	2/23/09 15:46		143862	
Bromoform	1.0	U	1.0	0.59	1	NA	2/23/09 15:46		143862	
Bromomethane	2.0	U	2.0	1.1	1	NA	2/23/09 15:46		143862	
Carbon Disulfide	1.0	U	1.0	0.37	1	NA	2/23/09 15:46		143862	
Carbon Tetrachloride	1.0	U	1.0	0.33	1	NA	2/23/09 15:46		143862	
Chlorobenzene	1.0	U	1.0	0.30	1	NA	2/23/09 15:46		143862	
Chloroethane	2.0	U	2.0	0.53	1	NA	2/23/09 15:46		143862	
Chloroform	1.0	U	1.0	0.22	1	NA	2/23/09 15:46		143862	
Chloromethane	2.0	U	2.0	0.71	1	NA	2/23/09 15:46		143862	
Cyclohexane	1.0	U	1.0	1.3	1	NA	2/23/09 15:46		143862	
Dibromochloromethane	1.0	U	1.0	0.27	1	NA	2/23/09 15:46		143862	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	0.48	1	NA	2/23/09 15:46		143862	
Dichloromethane	1.0	U	1.0	0.21	1	NA	2/23/09 15:46		143862	
Ethylbenzene	1.0	U	1.0	0.17	1	NA	2/23/09 15:46		143862	

Comments:

3/31/09

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Pactiv-Macedon/1117564.00002
Sample Matrix: Water
Sample Name: EQ-021109
Lab Code: R0900760-002

Service Request: R0900760
Date Collected: 2/11/09 1230
Date Received: 2/11/09

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	1.0	U	1.0	0.21	1	NA	2/23/09 15:46		143862	
Methyl Acetate	10	U	10	0.32	1	NA	2/23/09 15:46		143862	
Methyl tert-Butyl Ether	1.0	U	1.0	0.25	1	NA	2/23/09 15:46		143862	
Methylcyclohexane	1.0	U	1.0	0.48	1	NA	2/23/09 15:46		143862	
Styrene	1.0	U	1.0	0.17	1	NA	2/23/09 15:46		143862	
Tetrachloroethene (PCE)	1.0	U	1.0	0.21	1	NA	2/23/09 15:46		143862	
Toluene	1.1		1.0	0.27	1	NA	2/23/09 15:46		143862	
Trichloroethene (TCE)	1.0	U	1.0	0.39	1	NA	2/23/09 15:46		143862	
Trichlorofluoromethane (CFC 11)	1.1		1.0	0.39	1	NA	2/23/09 15:46		143862	
Vinyl Chloride	1.0	U	1.0	0.32	1	NA	2/23/09 15:46		143862	
cis-1,2-Dichloroethene	1.0	U	1.0	0.50	1	NA	2/23/09 15:46		143862	
cis-1,3-Dichloropropene	1.0	U	1.0	0.28	1	NA	2/23/09 15:46		143862	
m,p-Xylenes	0.39	J	2.0	0.22	1	NA	2/23/09 15:46		143862	
o-Xylene	1.0	U	1.0	0.24	1	NA	2/23/09 15:46		143862	
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	1	NA	2/23/09 15:46		143862	
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	1	NA	2/23/09 15:46		143862	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	106	80-123	2/23/09 15:46		
Dibromofluoromethane	104	89-115	2/23/09 15:46		
Toluene-d8	108	88-124	2/23/09 15:46		

Comments:

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EQ-021109

Lab Name: CASROCH Contract: URS
Lab Code: 10145 Case No.: R9-760 SAS No.: _____ SDG No.: 1117564
Matrix: (soil/water) WATER Lab Sample ID: R0900760-002|1.0
Sample wt/vol: 10.0 (g/ml) ML Lab File ID: Z7076.D
Level: (low/med) LOW Date Received: 2/11/2009
% Moisture: not dec. _____ Date Analyzed: 2/23/2009
GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Pactiv-Macedon/1117564.00002
 Sample Matrix: Water
 Sample Name: TB-021109
 Lab Code: R0900760-003

Service Request: R0900760
 Date Collected: 2/11/09
 Date Received: 2/11/09

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.22	1	NA	2/23/09 16:14		143862	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.17	1	NA	2/23/09 16:14		143862	
1,1,2-Trichloroethane	1.0 U	1.0	0.29	1	NA	2/23/09 16:14		143862	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.63	1	NA	2/23/09 16:14		143862	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.23	1	NA	2/23/09 16:14		143862	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.52	1	NA	2/23/09 16:14		143862	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	NA	2/23/09 16:14		143862	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U R	2.0	0.83	1	NA	2/23/09 16:14		143862	
1,2-Dibromoethane	1.0 U I	1.0	0.23	1	NA	2/23/09 16:14		143862	
1,2-Dichlorobenzene	1.0 U	1.0	0.25	1	NA	2/23/09 16:14		143862	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	NA	2/23/09 16:14		143862	
1,2-Dichloropropane	1.0 U	1.0	0.36	1	NA	2/23/09 16:14		143862	
1,3-Dichlorobenzene	1.0 U	1.0	0.33	1	NA	2/23/09 16:14		143862	
1,4-Dichlorobenzene	1.0 U	1.0	0.25	1	NA	2/23/09 16:14		143862	
2-Butanone (MEK)	5.0 U	5.0	1.0	1	NA	2/23/09 16:14		143862	
2-Hexanone	5.0 U	5.0	0.85	1	NA	2/23/09 16:14		143862	
4-Methyl-2-pentanone	5.0 U	5.0	0.42	1	NA	2/23/09 16:14		143862	
Acetone	10 U	10	1.5	1	NA	2/23/09 16:14		143862	
Benzene	1.0 U	1.0	0.28	1	NA	2/23/09 16:14		143862	
Bromodichloromethane	1.0 U	1.0	0.37	1	NA	2/23/09 16:14		143862	
Bromoform	1.0 U	1.0	0.59	1	NA	2/23/09 16:14		143862	
Bromomethane	2.0 U	2.0	1.1	1	NA	2/23/09 16:14		143862	
Carbon Disulfide	1.0 U	1.0	0.37	1	NA	2/23/09 16:14		143862	
Carbon Tetrachloride	1.0 U	1.0	0.33	1	NA	2/23/09 16:14		143862	
Chlorobenzene	1.0 U	1.0	0.30	1	NA	2/23/09 16:14		143862	
Chloroethane	2.0 U	2.0	0.53	1	NA	2/23/09 16:14		143862	
Chloroform	1.0 U	1.0	0.22	1	NA	2/23/09 16:14		143862	
Chloromethane	2.0 U	2.0	0.71	1	NA	2/23/09 16:14		143862	
Cyclohexane	1.0 U	1.0	1.3	1	NA	2/23/09 16:14		143862	
Dibromochloromethane	1.0 U	1.0	0.27	1	NA	2/23/09 16:14		143862	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.48	1	NA	2/23/09 16:14		143862	
Dichloromethane	1.0 U	1.0	0.21	1	NA	2/23/09 16:14		143862	
Ethylbenzene	1.0 U	1.0	0.17	1	NA	2/23/09 16:14		143862	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Pactiv-Macedon/1117564.00002
Sample Matrix: Water
Sample Name: TB-021109
Lab Code: R0900760-003

Service Request: R0900760
Date Collected: 2/11/09
Date Received: 2/11/09

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	1.0	U	1.0	0.21	1	NA	2/23/09 16:14		143862	
Methyl Acetate	10	U	10	0.32	1	NA	2/23/09 16:14		143862	
Methyl tert-Butyl Ether	1.0	U	1.0	0.25	1	NA	2/23/09 16:14		143862	
Methylcyclohexane	1.0	U	1.0	0.48	1	NA	2/23/09 16:14		143862	
Styrene	1.0	U	1.0	0.17	1	NA	2/23/09 16:14		143862	
Tetrachloroethene (PCE)	1.0	U	1.0	0.21	1	NA	2/23/09 16:14		143862	
Toluene	1.0	U	1.0	0.27	1	NA	2/23/09 16:14		143862	
Trichloroethene (TCE)	1.0	U	1.0	0.39	1	NA	2/23/09 16:14		143862	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.39	1	NA	2/23/09 16:14		143862	
Vinyl Chloride	1.0	U	1.0	0.32	1	NA	2/23/09 16:14		143862	
cis-1,2-Dichloroethene	1.0	U	1.0	0.50	1	NA	2/23/09 16:14		143862	
cis-1,3-Dichloropropene	1.0	U	1.0	0.28	1	NA	2/23/09 16:14		143862	
m-Xylenes	2.0	U	2.0	0.22	1	NA	2/23/09 16:14		143862	
o-Xylene	1.0	U	1.0	0.24	1	NA	2/23/09 16:14		143862	
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	1	NA	2/23/09 16:14		143862	
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	1	NA	2/23/09 16:14		143862	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	99	80-123	2/23/09 16:14		
Dibromofluoromethane	100	89-115	2/23/09 16:14		
Toluene-d8	102	88-124	2/23/09 16:14		

Comments:

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TB-021109

Lab Name: CASROCH

Contract: URS

Lab Code: 10145

Case No.: R9-760

SAS No.:

SDG No.: 1117564

Matrix: (soil/water) WATER

Lab Sample ID: R0900760-003|1.0

Sample wt/vol: 10.0 (g/ml) ML

Lab File ID: Z7077.D

Level: (low/med) LOW

Date Received: 2/11/2009

% Moisture: not dec.

Date Analyzed: 2/23/2009

GC Column: DB624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

Number TICs found:

0

(ug/L or ug/Kg)

UG/L

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Pactiv-Macedon/1117564.00002
 Sample Matrix: Water
 Sample Name: TB-021209
 Lab Code: R0900760-007

Service Request: R0900760
 Date Collected: 2/12/09 0000
 Date Received: 2/12/09
 Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.22	1	NA	2/23/09 18:06		143862	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.17	1	NA	2/23/09 18:06		143862	
1,1,2-Trichloroethane	1.0 U	1.0	0.29	1	NA	2/23/09 18:06		143862	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.63	1	NA	2/23/09 18:06		143862	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.23	1	NA	2/23/09 18:06		143862	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.52	1	NA	2/23/09 18:06		143862	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	NA	2/23/09 18:06		143862	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U R	2.0	0.83	1	NA	2/23/09 18:06		143862	
1,2-Dibromoethane	1.0 U <i>1</i>	1.0	0.23	1	NA	2/23/09 18:06		143862	
1,2-Dichlorobenzene	1.0 U	1.0	0.25	1	NA	2/23/09 18:06		143862	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	NA	2/23/09 18:06		143862	
1-chloropropane	1.0 U	1.0	0.36	1	NA	2/23/09 18:06		143862	
1,3-Dichlorobenzene	1.0 U	1.0	0.33	1	NA	2/23/09 18:06		143862	
1,4-Dichlorobenzene	1.0 U	1.0	0.25	1	NA	2/23/09 18:06		143862	
2-Butanone (MEK)	5.0 U	5.0	1.0	1	NA	2/23/09 18:06		143862	
2-Hexanone	5.0 U	5.0	0.85	1	NA	2/23/09 18:06		143862	
4-Methyl-2-pentanone	5.0 U	5.0	0.42	1	NA	2/23/09 18:06		143862	
Acetone	1.9 J	10	1.5	1	NA	2/23/09 18:06		143862	
Benzene	1.0 U	1.0	0.28	1	NA	2/23/09 18:06		143862	
Bromodichloromethane	1.0 U	1.0	0.37	1	NA	2/23/09 18:06		143862	
Bromoform	1.0 U	1.0	0.59	1	NA	2/23/09 18:06		143862	
Bromomethane	2.0 U	2.0	1.1	1	NA	2/23/09 18:06		143862	
Carbon Disulfide	1.0 U	1.0	0.37	1	NA	2/23/09 18:06		143862	
Carbon Tetrachloride	1.0 U	1.0	0.33	1	NA	2/23/09 18:06		143862	
Chlorobenzene	1.0 U	1.0	0.30	1	NA	2/23/09 18:06		143862	
Chloroethane	2.0 U	2.0	0.53	1	NA	2/23/09 18:06		143862	
Chloroform	1.0 U	1.0	0.22	1	NA	2/23/09 18:06		143862	
Chloromethane	2.0 U	2.0	0.71	1	NA	2/23/09 18:06		143862	
Cyclohexane	1.0 U	1.0	1.3	1	NA	2/23/09 18:06		143862	
Dibromochloromethane	1.0 U	1.0	0.27	1	NA	2/23/09 18:06		143862	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.48	1	NA	2/23/09 18:06		143862	
Dichloromethane	1.0 U	1.0	0.21	1	NA	2/23/09 18:06		143862	
Ethylbenzene	1.0 U	1.0	0.17	1	NA	2/23/09 18:06		143862	

Comments: *3/13/09*

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Pactiv-Macedon/1117564.00002
Sample Matrix: Water
Sample Name: TB-021209
Lab Code: R0900760-007

Service Request: R0900760
Date Collected: 2/12/09 0000
Date Received: 2/12/09

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	1.0	U	1.0	0.21	1	NA	2/23/09 18:06		143862	
Methyl Acetate	10	U	10	0.32	1	NA	2/23/09 18:06		143862	
Methyl tert-Butyl Ether	1.0	U	1.0	0.25	1	NA	2/23/09 18:06		143862	
Methylcyclohexane	1.0	U	1.0	0.48	1	NA	2/23/09 18:06		143862	
Styrene	1.0	U	1.0	0.17	1	NA	2/23/09 18:06		143862	
Tetrachloroethene (PCE)	1.0	U	1.0	0.21	1	NA	2/23/09 18:06		143862	
Toluene	1.0	U	1.0	0.27	1	NA	2/23/09 18:06		143862	
Trichloroethene (TCE)	1.0	U	1.0	0.39	1	NA	2/23/09 18:06		143862	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.39	1	NA	2/23/09 18:06		143862	
Vinyl Chloride	1.0	U	1.0	0.32	1	NA	2/23/09 18:06		143862	
cis-1,2-Dichloroethene	1.0	U	1.0	0.50	1	NA	2/23/09 18:06		143862	
cis-1,3-Dichloropropene	1.0	U	1.0	0.28	1	NA	2/23/09 18:06		143862	
m,p-Xylenes	2.0	U	2.0	0.22	1	NA	2/23/09 18:06		143862	
o-Xylene	1.0	U	1.0	0.24	1	NA	2/23/09 18:06		143862	
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	1	NA	2/23/09 18:06		143862	
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	1	NA	2/23/09 18:06		143862	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	101	80-123	2/23/09 18:06		
Dibromofluoromethane	100	89-115	2/23/09 18:06		
Toluene-d8	105	88-124	2/23/09 18:06		

Comments:

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TB-021209

Lab Name: CASROCH Contract: URS
Lab Code: 10145 Case No.: R9-760 SAS No.: _____ SDG No.: 1117564
Matrix: (soil/water) WATER Lab Sample ID: R0900760-007|1.0
Sample wt/vol: 10.0 (g/ml) ML Lab File ID: Z7081.D
Level: (low/med) LOW Date Received: 2/11/2009
% Moisture: not dec. _____ Date Analyzed: 2/23/2009
GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Pactiv-Macedon/1117564.00002
 Sample Matrix: Water
 Sample Name: MMW-1
 Lab Code: R0900760-008

Service Request: R0900760
 Date Collected: 2/12/09 0930
 Date Received: 2/12/09

Units: µg/L
 Basis: NA

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270C
 Prep Method: EPA 3510C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
2,4,5-Trichlorophenol	9.7	U	9.7	0.58	1	2/17/09	2/19/09 19:11	82289	143612	
2,4,6-Trichlorophenol	9.7	U	9.7	0.46	1	2/17/09	2/19/09 19:11	82289	143612	
2,4-Dichlorophenol	9.7	U	9.7	0.63	1	2/17/09	2/19/09 19:11	82289	143612	
2,4-Dimethylphenol	9.7	U	9.7	1.7	1	2/17/09	2/19/09 19:11	82289	143612	
2,4-Dinitrophenol	49	U	49	22	1	2/17/09	2/19/09 19:11	82289	143612	
2,4-Dinitrotoluene	9.7	U	9.7	0.72	1	2/17/09	2/19/09 19:11	82289	143612	
2,6-Dinitrotoluene	9.7	U	9.7	0.80	1	2/17/09	2/19/09 19:11	82289	143612	
2-Chloronaphthalene	9.7	U	9.7	0.71	1	2/17/09	2/19/09 19:11	82289	143612	
2-Chlorophenol	9.7	U	9.7	0.46	1	2/17/09	2/19/09 19:11	82289	143612	
2-Methylnaphthalene	9.7	U	9.7	0.59	1	2/17/09	2/19/09 19:11	82289	143612	
2-Methylphenol	9.7	U	9.7	0.75	1	2/17/09	2/19/09 19:11	82289	143612	
2-Nitroaniline	49	U	49	15	1	2/17/09	2/19/09 19:11	82289	143612	
2-Nitrophenol	9.7	U	9.7	0.81	1	2/17/09	2/19/09 19:11	82289	143612	
3,3'-Dichlorobenzidine	9.7	U	9.7	0.49	1	2/17/09	2/19/09 19:11	82289	143612	
3-Nitroaniline	49	U	49	10	1	2/17/09	2/19/09 19:11	82289	143612	
4,6-Dinitro-2-methylphenol	49	U	49	0.91	1	2/17/09	2/19/09 19:11	82289	143612	
4-Bromophenyl Phenyl Ether	9.7	U	9.7	0.71	1	2/17/09	2/19/09 19:11	82289	143612	
4-Chloro-3-methylphenol	9.7	U	9.7	0.77	1	2/17/09	2/19/09 19:11	82289	143612	
4-Chloroaniline	9.7	U	9.7	0.67	1	2/17/09	2/19/09 19:11	82289	143612	
4-Chlorophenyl Phenyl Ether	9.7	U	9.7	0.43	1	2/17/09	2/19/09 19:11	82289	143612	
4-Methylphenol	9.7	U	9.7	0.84	1	2/17/09	2/19/09 19:11	82289	143612	
4-Nitroaniline	49	U	49	14	1	2/17/09	2/19/09 19:11	82289	143612	
4-Nitrophenol	49	U	49	6.7	1	2/17/09	2/19/09 19:11	82289	143612	
Acenaphthene	9.7	U	9.7	0.40	1	2/17/09	2/19/09 19:11	82289	143612	
Acenaphthylene	9.7	U	9.7	0.77	1	2/17/09	2/19/09 19:11	82289	143612	
Acetophenone	9.7	U	9.7	2.9	1	2/17/09	2/19/09 19:11	82289	143612	
Anthracene	9.7	U	9.7	0.53	1	2/17/09	2/19/09 19:11	82289	143612	
Atrazine	9.7	U	9.7	1.5	1	2/17/09	2/19/09 19:11	82289	143612	
Benz(a)anthracene	9.7	U	9.7	0.26	1	2/17/09	2/19/09 19:11	82289	143612	
Benzaldehyde	9.7	U	9.7	3.6	1	2/17/09	2/19/09 19:11	82289	143612	
Benzo(a)pyrene	9.7	U	9.7	0.53	1	2/17/09	2/19/09 19:11	82289	143612	
Benzo(b)fluoranthene	9.7	U	9.7	0.38	1	2/17/09	2/19/09 19:11	82289	143612	
Benzo(g,h,i)perylene	9.7	U	9.7	0.32	1	2/17/09	2/19/09 19:11	82289	143612	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Pactiv-Macedon/1117564.00002
 Sample Matrix: Water
 Sample Name: MMW-1
 Lab Code: R0900760-008

Service Request: R0900760
 Date Collected: 2/12/09 0930
 Date Received: 2/12/09

Units: µg/L
 Basis: NA

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270C
 Prep Method: EPA 3510C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Benzo(k)fluoranthene	9.7	U	9.7	0.36	1	2/17/09	2/19/09 19:11	82289	143612	
Biphenyl	9.7	U	9.7	0.85	1	2/17/09	2/19/09 19:11	82289	143612	
2,2'-Oxybis(1-chloropropane)	9.7	U	9.7	0.77	1	2/17/09	2/19/09 19:11	82289	143612	
Bis(2-chloroethoxy)methane	9.7	U	9.7	0.96	1	2/17/09	2/19/09 19:11	82289	143612	
Bis(2-chloroethyl) Ether	9.7	U	9.7	0.67	1	2/17/09	2/19/09 19:11	82289	143612	
Bis(2-ethylhexyl) Phthalate	9.7	U	9.7	0.38	1	2/17/09	2/19/09 19:11	82289	143612	
Butyl Benzyl Phthalate	9.7	U	9.7	0.68	1	2/17/09	2/19/09 19:11	82289	143612	
Caprolactam	9.7	U	9.7	0.77	1	2/17/09	2/19/09 19:11	82289	143612	
Carbazole	9.7	U	9.7	0.53	1	2/17/09	2/19/09 19:11	82289	143612	
Chrysene	9.7	U	9.7	0.64	1	2/17/09	2/19/09 19:11	82289	143612	
Di-n-butyl Phthalate	9.7	U	9.7	0.70	1	2/17/09	2/19/09 19:11	82289	143612	
Di-n-octyl Phthalate	9.7	U	9.7	0.85	1	2/17/09	2/19/09 19:11	82289	143612	
Dibenz(a,h)anthracene	9.7	U	9.7	0.34	1	2/17/09	2/19/09 19:11	82289	143612	
Dibenzofuran	9.7	U	9.7	0.52	1	2/17/09	2/19/09 19:11	82289	143612	
Diethyl Phthalate	9.7	U	9.7	0.58	1	2/17/09	2/19/09 19:11	82289	143612	
Dimethyl Phthalate	9.7	U	9.7	0.74	1	2/17/09	2/19/09 19:11	82289	143612	
Fluoranthene	9.7	U	9.7	0.48	1	2/17/09	2/19/09 19:11	82289	143612	
Fluorene	9.7	U	9.7	0.58	1	2/17/09	2/19/09 19:11	82289	143612	
Hexachlorobenzene	9.7	U	9.7	0.70	1	2/17/09	2/19/09 19:11	82289	143612	
Hexachlorobutadiene	9.7	U	9.7	0.64	1	2/17/09	2/19/09 19:11	82289	143612	
Hexachlorocyclopentadiene	9.7	U	9.7	0.56	1	2/17/09	2/19/09 19:11	82289	143612	
Hexachloroethane	9.7	U	9.7	0.74	1	2/17/09	2/19/09 19:11	82289	143612	
Indeno(1,2,3-cd)pyrene	9.7	U	9.7	0.48	1	2/17/09	2/19/09 19:11	82289	143612	
Isophorone	9.7	U	9.7	0.60	1	2/17/09	2/19/09 19:11	82289	143612	
N-Nitrosodi-n-propylamine	9.7	U	9.7	0.52	1	2/17/09	2/19/09 19:11	82289	143612	
N-Nitrosodiphenylamine	9.7	U	9.7	0.50	1	2/17/09	2/19/09 19:11	82289	143612	
Naphthalene	9.7	U	9.7	0.80	1	2/17/09	2/19/09 19:11	82289	143612	
Nitrobenzene	9.7	U	9.7	0.63	1	2/17/09	2/19/09 19:11	82289	143612	
Pentachlorophenol (PCP)	49	U	49	17	1	2/17/09	2/19/09 19:11	82289	143612	
Phenanthrene	9.7	U	9.7	0.37	1	2/17/09	2/19/09 19:11	82289	143612	
Phenol	9.7	U	9.7	0.63	1	2/17/09	2/19/09 19:11	82289	143612	
Pyrene	9.7	U	9.7	0.48	1	2/17/09	2/19/09 19:11	82289	143612	

Comments:

3/31/09

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW-1

Lab Name: CAS-ROCH

Contract: URS

Lab Code: 10145

Case No.: R0900760

SAS No.: _____

SDG No.: 1117564.0

Matrix: (soil/water) WATER

Lab Sample ID: R0900760-008|1.0

Sample wt/vol: 1040 (g/ml) ML

Lab File ID: BY694.D

Level: (low/med) LOW

Date Received: 2/12/09

% Moisture: _____ decanted: (Y/N) N

Date Extracted: 2/17/09

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 2/19/09

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6

CONCENTRATION UNITS:

Number TICs found: 0

(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Sent: URS Corporation
Project: Pactiv-Macedon/1117564.00002
Sample Matrix: Water
Sample Name: MMW-2
Lab Code: R0900760-009

Service Request: R0900760
Date Collected: 2/12/09 1050
Date Received: 2/12/09

Units: µg/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270C
Prep Method: EPA 3510C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
2,4,5-Trichlorophenol	11	U	11	0.59	1	2/17/09	2/19/09 19:52	82289	143612	
2,4,6-Trichlorophenol	11	U	11	0.47	1	2/17/09	2/19/09 19:52	82289	143612	
2,4-Dichlorophenol	11	U	11	0.64	1	2/17/09	2/19/09 19:52	82289	143612	
2,4-Dimethylphenol	11	U	11	1.8	1	2/17/09	2/19/09 19:52	82289	143612	
2,4-Dinitrophenol	51	U	51	23	1	2/17/09	2/19/09 19:52	82289	143612	
2,4-Dinitrotoluene	11	U	11	0.73	1	2/17/09	2/19/09 19:52	82289	143612	
2,6-Dinitrotoluene	11	U	11	0.81	1	2/17/09	2/19/09 19:52	82289	143612	
2-Chloronaphthalene	11	U	11	0.71	1	2/17/09	2/19/09 19:52	82289	143612	
2-Chlorophenol	11	U	11	0.47	1	2/17/09	2/19/09 19:52	82289	143612	
2-Methylnaphthalene	11	U	11	0.60	1	2/17/09	2/19/09 19:52	82289	143612	
2-Methylphenol	11	U	11	0.76	1	2/17/09	2/19/09 19:52	82289	143612	
Nitroaniline	51	U	51	16	1	2/17/09	2/19/09 19:52	82289	143612	
2-Nitrophenol	11	U	11	0.82	1	2/17/09	2/19/09 19:52	82289	143612	
3,3'-Dichlorobenzidine	11	U	11	0.50	1	2/17/09	2/19/09 19:52	82289	143612	
3-Nitroaniline	51	U	51	11	1	2/17/09	2/19/09 19:52	82289	143612	
4,6-Dinitro-2-methylphenol	51	U	51	0.92	1	2/17/09	2/19/09 19:52	82289	143612	
4-Bromophenyl Phenyl Ether	11	U	11	0.72	1	2/17/09	2/19/09 19:52	82289	143612	
4-Chloro-3-methylphenol	11	U	11	0.78	1	2/17/09	2/19/09 19:52	82289	143612	
4-Chloroaniline	11	U	11	0.68	1	2/17/09	2/19/09 19:52	82289	143612	
4-Chlorophenyl Phenyl Ether	11	U	11	0.44	1	2/17/09	2/19/09 19:52	82289	143612	
4-Methylphenol	11	U	11	0.84	1	2/17/09	2/19/09 19:52	82289	143612	
4-Nitroaniline	51	U	51	15	1	2/17/09	2/19/09 19:52	82289	143612	
4-Nitrophenol	51	U	51	6.7	1	2/17/09	2/19/09 19:52	82289	143612	
Acenaphthene	11	U	11	0.41	1	2/17/09	2/19/09 19:52	82289	143612	
Acenaphthylene	11	U	11	0.78	1	2/17/09	2/19/09 19:52	82289	143612	
Acetophenone	11	U	11	2.9	1	2/17/09	2/19/09 19:52	82289	143612	
Anthracene	11	U	11	0.54	1	2/17/09	2/19/09 19:52	82289	143612	
Atrazine	11	U	11	1.5	1	2/17/09	2/19/09 19:52	82289	143612	
Benz(a)anthracene	11	U	11	0.27	1	2/17/09	2/19/09 19:52	82289	143612	
Benzaldehyde	11	U	11	3.7	1	2/17/09	2/19/09 19:52	82289	143612	
Benzo(a)pyrene	11	U	11	0.54	1	2/17/09	2/19/09 19:52	82289	143612	
Benzo(b)fluoranthene	11	U	11	0.39	1	2/17/09	2/19/09 19:52	82289	143612	
Benzo(g,h,i)perylene	11	U	11	0.33	1	2/17/09	2/19/09 19:52	82289	143612	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Pactiv-Macedon/1117564.00002
 Sample Matrix: Water
 Sample Name: MMW-2
 Lab Code: R0900760-009

Service Request: R0900760
 Date Collected: 2/12/09 1050
 Date Received: 2/12/09

Units: µg/L
 Basis: NA

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270C
 Prep Method: EPA 3510C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Benzo(k)fluoranthene	11	U	11	0.36	1	2/17/09	2/19/09 19:52	82289	143612	
Biphenyl	11	U	11	0.86	1	2/17/09	2/19/09 19:52	82289	143612	
2,2'-Oxybis(1-chloropropane)	11	U	11	0.78	1	2/17/09	2/19/09 19:52	82289	143612	
Bis(2-chloroethoxy)methane	11	U	11	0.97	1	2/17/09	2/19/09 19:52	82289	143612	
Bis(2-chloroethyl) Ether	11	U	11	0.68	1	2/17/09	2/19/09 19:52	82289	143612	
Bis(2-ethylhexyl) Phthalate	11	U	11	0.39	1	2/17/09	2/19/09 19:52	82289	143612	
Butyl Benzyl Phthalate	11	U	11	0.69	1	2/17/09	2/19/09 19:52	82289	143612	
Caprolactam	11	U	11	0.78	1	2/17/09	2/19/09 19:52	82289	143612	
Carbazole	11	U	11	0.54	1	2/17/09	2/19/09 19:52	82289	143612	
Chrysene	11	U	11	0.65	1	2/17/09	2/19/09 19:52	82289	143612	
Di-n-butyl Phthalate	11	~~3.1~~ U	11	~~0.70~~ 3.1	1	2/17/09	2/19/09 19:52	82289	143612	
Di-n-octyl Phthalate	11	U	11	0.86	1	2/17/09	2/19/09 19:52	82289	143612	
Dibenz(a,h)anthracene	11	U	11	0.35	1	2/17/09	2/19/09 19:52	82289	143612	
Dibenzofuran	11	U	11	0.53	1	2/17/09	2/19/09 19:52	82289	143612	
Diethyl Phthalate	11	U	11	0.59	1	2/17/09	2/19/09 19:52	82289	143612	
Dimethyl Phthalate	11	U	11	0.75	1	2/17/09	2/19/09 19:52	82289	143612	
Fluoranthene	11	U	11	0.48	1	2/17/09	2/19/09 19:52	82289	143612	
Fluorene	11	U	11	0.59	1	2/17/09	2/19/09 19:52	82289	143612	
Hexachlorobenzene	11	U	11	0.70	1	2/17/09	2/19/09 19:52	82289	143612	
Hexachlorobutadiene	11	U	11	0.65	1	2/17/09	2/19/09 19:52	82289	143612	
Hexachlorocyclopentadiene	11	U	11	0.57	1	2/17/09	2/19/09 19:52	82289	143612	
Hexachloroethane	11	U	11	0.75	1	2/17/09	2/19/09 19:52	82289	143612	
Indeno(1,2,3-cd)pyrene	11	U	11	0.48	1	2/17/09	2/19/09 19:52	82289	143612	
Isophorone	11	U	11	0.61	1	2/17/09	2/19/09 19:52	82289	143612	
N-Nitrosodi-n-propylamine	11	U	11	0.53	1	2/17/09	2/19/09 19:52	82289	143612	
N-Nitrosodiphenylamine	11	U	11	0.51	1	2/17/09	2/19/09 19:52	82289	143612	
Naphthalene	11	U	11	0.81	1	2/17/09	2/19/09 19:52	82289	143612	
Nitrobenzene	11	U	11	0.64	1	2/17/09	2/19/09 19:52	82289	143612	
Pentachlorophenol (PCP)	51	U	51	18	1	2/17/09	2/19/09 19:52	82289	143612	
Phenanthrene	11	U	11	0.38	1	2/17/09	2/19/09 19:52	82289	143612	
Phenol	11	U	11	0.64	1	2/17/09	2/19/09 19:52	82289	143612	
Pyrene	11	U	11	0.48	1	2/17/09	2/19/09 19:52	82289	143612	

Comments:

3/31/09

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW-2

Lab Name: CAS-ROCH

Contract: URS

Lab Code: 10145

Case No.: R0900760

SAS No.:

SDG No.: 1117564.0

Matrix: (soil/water) WATER

Lab Sample ID: R0900760-009|1.0

Sample wt/vol: 990 (g/ml) ML

Lab File ID: BY695.D

Level: (low/med) LOW

Date Received: 2/12/09

% Moisture: decanted: (Y/N) N

Date Extracted: 2/17/09

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 2/19/09

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6

CONCENTRATION UNITS:

Number TICs found: 0

(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Pactiv-Macedon/1117564.00002
 Sample Matrix: Water
 Sample Name: MMW-3
 Lab Code: R0900760-006

Service Request: R0900760
 Date Collected: 2/11/09 1250
 Date Received: 2/11/09

Units: µg/L
 Basis: NA

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270C
 Prep Method: EPA 3510C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
2,4,5-Trichlorophenol	11	U	11	0.64	1	2/13/09	2/18/09 16:45	82201	143468	
2,4,6-Trichlorophenol	11	U	11	0.51	1	2/13/09	2/18/09 16:45	82201	143468	
2,4-Dichlorophenol	11	U	11	0.70	1	2/13/09	2/18/09 16:45	82201	143468	
2,4-Dimethylphenol	11	U	11	1.9	1	2/13/09	2/18/09 16:45	82201	143468	
2,4-Dinitrophenol	55	U	55	25	1	2/13/09	2/18/09 16:45	82201	143468	
2,4-Dinitrotoluene	11	U	11	0.80	1	2/13/09	2/18/09 16:45	82201	143468	
2,6-Dinitrotoluene	11	U	11	0.88	1	2/13/09	2/18/09 16:45	82201	143468	
2-Chloronaphthalene	11	U	11	0.77	1	2/13/09	2/18/09 16:45	82201	143468	
2-Chlorophenol	11	U	11	0.51	1	2/13/09	2/18/09 16:45	82201	143468	
2-Methylnaphthalene	11	U	11	0.65	1	2/13/09	2/18/09 16:45	82201	143468	
2-Methylphenol	11	U	11	0.83	1	2/13/09	2/18/09 16:45	82201	143468	
2-Nitroaniline	55	U	55	17	1	2/13/09	2/18/09 16:45	82201	143468	
2-Nitrophenol	11	U	11	0.90	1	2/13/09	2/18/09 16:45	82201	143468	
3,3'-Dichlorobenzidine	11	U	11	0.54	1	2/13/09	2/18/09 16:45	82201	143468	
3-Nitroaniline	55	U	55	11	1	2/13/09	2/18/09 16:45	82201	143468	
4,6-Dinitro-2-methylphenol	55	U	55	1.0	1	2/13/09	2/18/09 16:45	82201	143468	
4-Bromophenyl Phenyl Ether	11	U	11	0.79	1	2/13/09	2/18/09 16:45	82201	143468	
4-Chloro-3-methylphenol	11	U	11	0.85	1	2/13/09	2/18/09 16:45	82201	143468	
4-Chloroaniline	11	U	11	0.74	1	2/13/09	2/18/09 16:45	82201	143468	
4-Chlorophenyl Phenyl Ether	11	U	11	0.48	1	2/13/09	2/18/09 16:45	82201	143468	
4-Methylphenol	11	U	11	0.92	1	2/13/09	2/18/09 16:45	82201	143468	
4-Nitroaniline	55	U	55	16	1	2/13/09	2/18/09 16:45	82201	143468	
4-Nitrophenol	55	U	55	7.3	1	2/13/09	2/18/09 16:45	82201	143468	
Acenaphthene	11	U	11	0.44	1	2/13/09	2/18/09 16:45	82201	143468	
Acenaphthylene	11	U	11	0.85	1	2/13/09	2/18/09 16:45	82201	143468	
Acetophenone	11	U	11	3.1	1	2/13/09	2/18/09 16:45	82201	143468	
Anthracene	11	U	11	0.59	1	2/13/09	2/18/09 16:45	82201	143468	
Atrazine	11	U	11	1.6	1	2/13/09	2/18/09 16:45	82201	143468	
Benz(a)anthracene	11	U	11	0.29	1	2/13/09	2/18/09 16:45	82201	143468	
Benzaldehyde	11	U	11	4.0	1	2/13/09	2/18/09 16:45	82201	143468	
Benzo(a)pyrene	11	U	11	0.59	1	2/13/09	2/18/09 16:45	82201	143468	
Benzo(b)fluoranthene	11	U	11	0.42	1	2/13/09	2/18/09 16:45	82201	143468	
Benzo(g,h,i)perylene	11	U	11	0.36	1	2/13/09	2/18/09 16:45	82201	143468	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
Project: Pactiv-Macedon/1117564.00002
Sample Matrix: Water
Sample Name: MMW-3
Lab Code: R0900760-006

Service Request: R0900760
Date Collected: 2/11/09 1250
Date Received: 2/11/09

Units: µg/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270C
Prep Method: EPA 3510C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Benzo(k)fluoranthene	11	U	11	0.39	1	2/13/09	2/18/09 16:45	82201	143468	
Biphenyl	11	U	11	0.94	1	2/13/09	2/18/09 16:45	82201	143468	
2,2'-Oxybis(1-chloropropane)	11	U	11	0.85	1	2/13/09	2/18/09 16:45	82201	143468	
Bis(2-chloroethoxy)methane	11	U	11	1.1	1	2/13/09	2/18/09 16:45	82201	143468	
Bis(2-chloroethyl) Ether	11	U	11	0.74	1	2/13/09	2/18/09 16:45	82201	143468	
Bis(2-ethylhexyl) Phthalate	11	U	11	0.42	1	2/13/09	2/18/09 16:45	82201	143468	
Butyl Benzyl Phthalate	11	U	11	0.75	1	2/13/09	2/18/09 16:45	82201	143468	
Caprolactam	11	U	11	0.85	1	2/13/09	2/18/09 16:45	82201	143468	
Carbazole	11	U	11	0.59	1	2/13/09	2/18/09 16:45	82201	143468	
Chrysene	11	U	11	0.71	1	2/13/09	2/18/09 16:45	82201	143468	
Di-n-butyl Phthalate	11	U	11	0.76	1	2/13/09	2/18/09 16:45	82201	143468	
-n-octyl Phthalate	11	U	11	0.94	1	2/13/09	2/18/09 16:45	82201	143468	
Dibenz(a,h)anthracene	11	U	11	0.38	1	2/13/09	2/18/09 16:45	82201	143468	
Dibenzofuran	11	U	11	0.58	1	2/13/09	2/18/09 16:45	82201	143468	
Diethyl Phthalate	11	U	11	0.64	1	2/13/09	2/18/09 16:45	82201	143468	
Dimethyl Phthalate	11	U	11	0.82	1	2/13/09	2/18/09 16:45	82201	143468	
Fluoranthene	11	U	11	0.52	1	2/13/09	2/18/09 16:45	82201	143468	
Fluorene	11	U	11	0.64	1	2/13/09	2/18/09 16:45	82201	143468	
Hexachlorobenzene	11	U	11	0.76	1	2/13/09	2/18/09 16:45	82201	143468	
Hexachlorobutadiene	11	U	11	0.71	1	2/13/09	2/18/09 16:45	82201	143468	
Hexachlorocyclopentadiene	11	U	11	0.62	1	2/13/09	2/18/09 16:45	82201	143468	
Hexachloroethane	11	U	11	0.82	1	2/13/09	2/18/09 16:45	82201	143468	
Indeno(1,2,3-cd)pyrene	11	U	11	0.52	1	2/13/09	2/18/09 16:45	82201	143468	
Isophorone	11	U	11	0.66	1	2/13/09	2/18/09 16:45	82201	143468	
N-Nitrosodi-n-propylamine	11	U	11	0.58	1	2/13/09	2/18/09 16:45	82201	143468	
N-Nitrosodiphenylamine	11	U	11	0.55	1	2/13/09	2/18/09 16:45	82201	143468	
Naphthalene	11	U	11	0.88	1	2/13/09	2/18/09 16:45	82201	143468	
Nitrobenzene	11	U	11	0.70	1	2/13/09	2/18/09 16:45	82201	143468	
Pentachlorophenol (PCP)	55	U	55	19	1	2/13/09	2/18/09 16:45	82201	143468	
Phenanthrene	11	U	11	0.41	1	2/13/09	2/18/09 16:45	82201	143468	
Phenol	11	U	11	0.70	1	2/13/09	2/18/09 16:45	82201	143468	
Pyrene	11	U	11	0.52	1	2/13/09	2/18/09 16:45	82201	143468	

Comments:

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW-3

Lab Name: CAS-ROCH Contract: URS
Lab Code: 10145 Case No.: R0900760 SAS No.: _____ SDG No.: 1117564.0
Matrix: (soil/water) WATER Lab Sample ID: R0900760-006|1.0
Sample wt/vol: 910 (g/ml) ML Lab File ID: BY671.D
Level: (low/med) LOW Date Received: 2/11/09
% Moisture: _____ decanted: (Y/N) N Date Extracted: 2/13/09
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/18/09
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Pactiv-Macedon/1117564.00002
 Sample Matrix: Water
 Sample Name: MMW-4
 Lab Code: R0900760-005

Service Request: R0900760
 Date Collected: 2/11/09 1050
 Date Received: 2/11/09
 Units: µg/L
 Basis: NA

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270C
 Prep Method: EPA 3510C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
2,4,5-Trichlorophenol	10	U	10	0.58	1	2/13/09	2/18/09 17:27	82201	143468	
2,4,6-Trichlorophenol	10	U	10	0.46	1	2/13/09	2/18/09 17:27	82201	143468	
2,4-Dichlorophenol	10	U	10	0.63	1	2/13/09	2/18/09 17:27	82201	143468	
2,4-Dimethylphenol	10	U	10	1.7	1	2/13/09	2/18/09 17:27	82201	143468	
2,4-Dinitrophenol	50	U	50	22	1	2/13/09	2/18/09 17:27	82201	143468	
2,4-Dinitrotoluene	10	U	10	0.72	1	2/13/09	2/18/09 17:27	82201	143468	
2,6-Dinitrotoluene	10	U	10	0.80	1	2/13/09	2/18/09 17:27	82201	143468	
2-Chloronaphthalene	10	U	10	0.71	1	2/13/09	2/18/09 17:27	82201	143468	
2-Chlorophenol	10	U	10	0.46	1	2/13/09	2/18/09 17:27	82201	143468	
2-Methylnaphthalene	10	U	10	0.59	1	2/13/09	2/18/09 17:27	82201	143468	
2-Methylphenol	10	U	10	0.75	1	2/13/09	2/18/09 17:27	82201	143468	
Nitroaniline	50	U	50	15	1	2/13/09	2/18/09 17:27	82201	143468	
4-Nitrophenol	10	U	10	0.81	1	2/13/09	2/18/09 17:27	82201	143468	
3,3'-Dichlorobenzidine	10	U	10	0.49	1	2/13/09	2/18/09 17:27	82201	143468	
3-Nitroaniline	50	U	50	10	1	2/13/09	2/18/09 17:27	82201	143468	
4,6-Dinitro-2-methylphenol	50	U	50	0.91	1	2/13/09	2/18/09 17:27	82201	143468	
4-Bromophenyl Phenyl Ether	10	U	10	0.71	1	2/13/09	2/18/09 17:27	82201	143468	
4-Chloro-3-methylphenol	10	U	10	0.77	1	2/13/09	2/18/09 17:27	82201	143468	
4-Chloroaniline	10	U	10	0.67	1	2/13/09	2/18/09 17:27	82201	143468	
4-Chlorophenyl Phenyl Ether	10	U	10	0.43	1	2/13/09	2/18/09 17:27	82201	143468	
4-Methylphenol	10	U	10	0.84	1	2/13/09	2/18/09 17:27	82201	143468	
4-Nitroaniline	50	U	50	14	1	2/13/09	2/18/09 17:27	82201	143468	
4-Nitrophenol	50	U	50	6.7	1	2/13/09	2/18/09 17:27	82201	143468	
Acenaphthene	10	U	10	0.40	1	2/13/09	2/18/09 17:27	82201	143468	
Acenaphthylene	10	U	10	0.77	1	2/13/09	2/18/09 17:27	82201	143468	
Acetophenone	10	U	10	2.9	1	2/13/09	2/18/09 17:27	82201	143468	
Anthracene	10	U	10	0.53	1	2/13/09	2/18/09 17:27	82201	143468	
Atrazine	10	U	10	1.5	1	2/13/09	2/18/09 17:27	82201	143468	
Benz(a)anthracene	10	U	10	0.26	1	2/13/09	2/18/09 17:27	82201	143468	
Benzaldehyde	10	U	10	3.6	1	2/13/09	2/18/09 17:27	82201	143468	
Benzo(a)pyrene	10	U	10	0.53	1	2/13/09	2/18/09 17:27	82201	143468	
Benzo(b)fluoranthene	10	U	10	0.38	1	2/13/09	2/18/09 17:27	82201	143468	
Benzo(g,h,i)perylene	10	U	10	0.32	1	2/13/09	2/18/09 17:27	82201	143468	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Pactiv-Macedon/1117564.00002
 Sample Matrix: Water
 Sample Name: MMW-4
 Lab Code: R0900760-005

Service Request: R0900760
 Date Collected: 2/11/09 1050
 Date Received: 2/11/09

Units: µg/L
 Basis: NA

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270C
 Prep Method: EPA 3510C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Benzo(k)fluoranthene	10	U	10	0.36	1	2/13/09	2/18/09 17:27	82201	143468	
Biphenyl	10	U	10	0.85	1	2/13/09	2/18/09 17:27	82201	143468	
2,2'-Oxybis(1-chloropropane)	10	U	10	0.77	1	2/13/09	2/18/09 17:27	82201	143468	
Bis(2-chloroethoxy)methane	10	U	10	0.96	1	2/13/09	2/18/09 17:27	82201	143468	
Bis(2-chloroethyl) Ether	10	U	10	0.67	1	2/13/09	2/18/09 17:27	82201	143468	
Bis(2-ethylhexyl) Phthalate	1.3	J	10	0.38	1	2/13/09	2/18/09 17:27	82201	143468	
Butyl Benzyl Phthalate	10	U	10	0.68	1	2/13/09	2/18/09 17:27	82201	143468	
Caprolactam	10	U	10	0.77	1	2/13/09	2/18/09 17:27	82201	143468	
Carbazole	10	U	10	0.53	1	2/13/09	2/18/09 17:27	82201	143468	
Chrysene	10	U	10	0.64	1	2/13/09	2/18/09 17:27	82201	143468	
Di-n-butyl Phthalate	10	U	10	0.70	1	2/13/09	2/18/09 17:27	82201	143468	
Di-n-octyl Phthalate	10	U	10	0.85	1	2/13/09	2/18/09 17:27	82201	143468	
Dibenz(a,h)anthracene	10	U	10	0.34	1	2/13/09	2/18/09 17:27	82201	143468	
Dibenzofuran	10	U	10	0.52	1	2/13/09	2/18/09 17:27	82201	143468	
Diethyl Phthalate	3.4	J	10	0.58	1	2/13/09	2/18/09 17:27	82201	143468	
Dimethyl Phthalate	10	U	10	0.74	1	2/13/09	2/18/09 17:27	82201	143468	
Fluoranthene	10	U	10	0.48	1	2/13/09	2/18/09 17:27	82201	143468	
Fluorene	10	U	10	0.58	1	2/13/09	2/18/09 17:27	82201	143468	
Hexachlorobenzene	10	U	10	0.70	1	2/13/09	2/18/09 17:27	82201	143468	
Hexachlorobutadiene	10	U	10	0.64	1	2/13/09	2/18/09 17:27	82201	143468	
Hexachlorocyclopentadiene	10	U	10	0.56	1	2/13/09	2/18/09 17:27	82201	143468	
Hexachloroethane	10	U	10	0.74	1	2/13/09	2/18/09 17:27	82201	143468	
Indeno(1,2,3-cd)pyrene	10	U	10	0.48	1	2/13/09	2/18/09 17:27	82201	143468	
Isophorone	10	U	10	0.60	1	2/13/09	2/18/09 17:27	82201	143468	
N-Nitrosodi-n-propylamine	10	U	10	0.52	1	2/13/09	2/18/09 17:27	82201	143468	
N-Nitrosodiphenylamine	10	U	10	0.50	1	2/13/09	2/18/09 17:27	82201	143468	
Naphthalene	10	U	10	0.80	1	2/13/09	2/18/09 17:27	82201	143468	
Nitrobenzene	10	U	10	0.63	1	2/13/09	2/18/09 17:27	82201	143468	
Pentachlorophenol (PCP)	50	U	50	17	1	2/13/09	2/18/09 17:27	82201	143468	
Phenanthrene	10	U	10	0.37	1	2/13/09	2/18/09 17:27	82201	143468	
Phenol	10	U	10	0.63	1	2/13/09	2/18/09 17:27	82201	143468	
Pyrene	10	U	10	0.48	1	2/13/09	2/18/09 17:27	82201	143468	

Comments:

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW-4

Lab Name: CAS-ROCH Contract: URS
Lab Code: 10145 Case No.: R0900760 SAS No.: SDG No.: 1117564.0
Matrix: (soil/water) WATER Lab Sample ID: R0900760-005|1.0
Sample wt/vol: 1000 (g/ml) ML Lab File ID: BY672.D
Level: (low/med) LOW Date Received: 2/11/09
% Moisture: decanted: (Y/N) N Date Extracted: 2/13/09
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/18/09
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Pactiv-Macedon/1117564.00002
 Sample Matrix: Water
 Sample Name: MMW-6
 Lab Code: R0900760-004

Service Request: R0900760
 Date Collected: 2/11/09 0930
 Date Received: 2/11/09

Units: µg/L
 Basis: NA

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270C
 Prep Method: EPA 3510C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
2,4,5-Trichlorophenol	9.8	U	9.8	0.58	1	2/13/09	2/18/09 18:08	82201	143468	
2,4,6-Trichlorophenol	9.8	U	9.8	0.46	1	2/13/09	2/18/09 18:08	82201	143468	
2,4-Dichlorophenol	9.8	U	9.8	0.63	1	2/13/09	2/18/09 18:08	82201	143468	
2,4-Dimethylphenol	9.8	U	9.8	1.7	1	2/13/09	2/18/09 18:08	82201	143468	
2,4-Dinitrophenol	49	U	49	22	1	2/13/09	2/18/09 18:08	82201	143468	
2,4-Dinitrotoluene	9.8	U	9.8	0.72	1	2/13/09	2/18/09 18:08	82201	143468	
2,6-Dinitrotoluene	9.8	U	9.8	0.80	1	2/13/09	2/18/09 18:08	82201	143468	
2-Chloronaphthalene	9.8	U	9.8	0.71	1	2/13/09	2/18/09 18:08	82201	143468	
2-Chlorophenol	9.8	U	9.8	0.46	1	2/13/09	2/18/09 18:08	82201	143468	
2-Methylnaphthalene	9.8	U	9.8	0.59	1	2/13/09	2/18/09 18:08	82201	143468	
2-Methylphenol	9.8	U	9.8	0.75	1	2/13/09	2/18/09 18:08	82201	143468	
2-Nitroaniline	49	U	49	15	1	2/13/09	2/18/09 18:08	82201	143468	
2-Nitrophenol	9.8	U	9.8	0.81	1	2/13/09	2/18/09 18:08	82201	143468	
3,3'-Dichlorobenzidine	9.8	U	9.8	0.49	1	2/13/09	2/18/09 18:08	82201	143468	
3-Nitroaniline	49	U	49	10	1	2/13/09	2/18/09 18:08	82201	143468	
4,6-Dinitro-2-methylphenol	49	U	49	0.91	1	2/13/09	2/18/09 18:08	82201	143468	
4-Bromophenyl Phenyl Ether	9.8	U	9.8	0.71	1	2/13/09	2/18/09 18:08	82201	143468	
4-Chloro-3-methylphenol	9.8	U	9.8	0.77	1	2/13/09	2/18/09 18:08	82201	143468	
4-Chloroaniline	9.8	U	9.8	0.67	1	2/13/09	2/18/09 18:08	82201	143468	
4-Chlorophenyl Phenyl Ether	9.8	U	9.8	0.43	1	2/13/09	2/18/09 18:08	82201	143468	
4-Methylphenol	9.8	U	9.8	0.84	1	2/13/09	2/18/09 18:08	82201	143468	
4-Nitroaniline	49	U	49	14	1	2/13/09	2/18/09 18:08	82201	143468	
4-Nitrophenol	49	U	49	6.7	1	2/13/09	2/18/09 18:08	82201	143468	
Acenaphthene	9.8	U	9.8	0.40	1	2/13/09	2/18/09 18:08	82201	143468	
Acenaphthylene	9.8	U	9.8	0.77	1	2/13/09	2/18/09 18:08	82201	143468	
Acetophenone	9.8	U	9.8	2.9	1	2/13/09	2/18/09 18:08	82201	143468	
Anthracene	9.8	U	9.8	0.53	1	2/13/09	2/18/09 18:08	82201	143468	
Atrazine	9.8	U	9.8	1.5	1	2/13/09	2/18/09 18:08	82201	143468	
Benz(a)anthracene	9.8	U	9.8	0.26	1	2/13/09	2/18/09 18:08	82201	143468	
Benzaldehyde	9.8	U	9.8	3.6	1	2/13/09	2/18/09 18:08	82201	143468	
Benzo(a)pyrene	9.8	U	9.8	0.53	1	2/13/09	2/18/09 18:08	82201	143468	
Benzo(b)fluoranthene	9.8	U	9.8	0.38	1	2/13/09	2/18/09 18:08	82201	143468	
Benzo(g,h,i)perylene	9.8	U	9.8	0.32	1	2/13/09	2/18/09 18:08	82201	143468	

Comments:

3/31/09

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Pactiv-Macedon/1117564.00002
 Sample Matrix: Water
 Sample Name: MMW-6
 Lab Code: R0900760-004

Service Request: R0900760
 Date Collected: 2/11/09 0930
 Date Received: 2/11/09
 Units: µg/L
 Basis: NA

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270C
 Prep Method: EPA 3510C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Benzo(k)fluoranthene	9.8	U	9.8	0.36	1	2/13/09	2/18/09 18:08	82201	143468	
Biphenyl	9.8	U	9.8	0.85	1	2/13/09	2/18/09 18:08	82201	143468	
2,2'-Oxybis(1-chloropropane)	9.8	U	9.8	0.77	1	2/13/09	2/18/09 18:08	82201	143468	
Bis(2-chloroethoxy)methane	9.8	U	9.8	0.96	1	2/13/09	2/18/09 18:08	82201	143468	
Bis(2-chloroethyl) Ether	9.8	U	9.8	0.67	1	2/13/09	2/18/09 18:08	82201	143468	
Bis(2-ethylhexyl) Phthalate	9.8	U	9.8	0.38	1	2/13/09	2/18/09 18:08	82201	143468	
Butyl Benzyl Phthalate	9.8	U	9.8	0.68	1	2/13/09	2/18/09 18:08	82201	143468	
Caprolactam	9.8	U	9.8	0.77	1	2/13/09	2/18/09 18:08	82201	143468	
Carbazole	9.8	U	9.8	0.53	1	2/13/09	2/18/09 18:08	82201	143468	
Chrysene	9.8	U	9.8	0.64	1	2/13/09	2/18/09 18:08	82201	143468	
Di-n-butyl Phthalate	9.8	U	9.8	0.70	1	2/13/09	2/18/09 18:08	82201	143468	
Di-n-octyl Phthalate	9.8	U	9.8	0.85	1	2/13/09	2/18/09 18:08	82201	143468	
Dibenz(a,h)anthracene	9.8	U	9.8	0.34	1	2/13/09	2/18/09 18:08	82201	143468	
Dibenzofuran	9.8	U	9.8	0.52	1	2/13/09	2/18/09 18:08	82201	143468	
Diethyl Phthalate	9.8	U	9.8	0.58	1	2/13/09	2/18/09 18:08	82201	143468	
Dimethyl Phthalate	9.8	U	9.8	0.74	1	2/13/09	2/18/09 18:08	82201	143468	
Fluoranthene	9.8	U	9.8	0.48	1	2/13/09	2/18/09 18:08	82201	143468	
Fluorene	9.8	U	9.8	0.58	1	2/13/09	2/18/09 18:08	82201	143468	
Hexachlorobenzene	9.8	U	9.8	0.70	1	2/13/09	2/18/09 18:08	82201	143468	
Hexachlorobutadiene	9.8	U	9.8	0.64	1	2/13/09	2/18/09 18:08	82201	143468	
Hexachlorocyclopentadiene	9.8	U	9.8	0.56	1	2/13/09	2/18/09 18:08	82201	143468	
Hexachloroethane	9.8	U	9.8	0.74	1	2/13/09	2/18/09 18:08	82201	143468	
Indeno(1,2,3-cd)pyrene	9.8	U	9.8	0.48	1	2/13/09	2/18/09 18:08	82201	143468	
Isophorone	9.8	U	9.8	0.60	1	2/13/09	2/18/09 18:08	82201	143468	
N-Nitrosodi-n-propylamine	9.8	U	9.8	0.52	1	2/13/09	2/18/09 18:08	82201	143468	
N-Nitrosodiphenylamine	9.8	U	9.8	0.50	1	2/13/09	2/18/09 18:08	82201	143468	
Naphthalene	9.8	U	9.8	0.80	1	2/13/09	2/18/09 18:08	82201	143468	
Nitrobenzene	9.8	U	9.8	0.63	1	2/13/09	2/18/09 18:08	82201	143468	
Pentachlorophenol (PCP)	49	U	49	17	1	2/13/09	2/18/09 18:08	82201	143468	
Phenanthrene	9.8	U	9.8	0.37	1	2/13/09	2/18/09 18:08	82201	143468	
Phenol	9.8	U	9.8	0.63	1	2/13/09	2/18/09 18:08	82201	143468	
Pyrene	9.8	U	9.8	0.48	1	2/13/09	2/18/09 18:08	82201	143468	

Comments:

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW-6

Lab Name: CAS-ROCH Contract: URS
Lab Code: 10145 Case No.: R0900760 SAS No.: _____ SDG No.: 1117564.0
Matrix: (soil/water) WATER Lab Sample ID: R0900760-004|1.0
Sample wt/vol: 1030 (g/ml) ML Lab File ID: BY673.D
Level: (low/med) LOW Date Received: 2/11/09
% Moisture: _____ decanted: (Y/N) N Date Extracted: 2/13/09
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/18/09
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Pactiv-Macedon/1117564.00002
 Sample Matrix: Water
 Sample Name: MMW-7
 Lab Code: R0900760-010

Service Request: R0900760
 Date Collected: 2/12/09 1250
 Date Received: 2/12/09
 Units: µg/L
 Basis: NA

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270C
 Prep Method: EPA 3510C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
2,4,5-Trichlorophenol	9.7	U	9.7	0.58	1	2/17/09	2/19/09 20:33	82289	143612	
2,4,6-Trichlorophenol	9.7	U	9.7	0.46	1	2/17/09	2/19/09 20:33	82289	143612	
2,4-Dichlorophenol	9.7	U	9.7	0.63	1	2/17/09	2/19/09 20:33	82289	143612	
2,4-Dimethylphenol	9.7	U	9.7	1.7	1	2/17/09	2/19/09 20:33	82289	143612	
2,4-Dinitrophenol	49	U	49	22	1	2/17/09	2/19/09 20:33	82289	143612	
2,4-Dinitrotoluene	9.7	U	9.7	0.72	1	2/17/09	2/19/09 20:33	82289	143612	
2,6-Dinitrotoluene	9.7	U	9.7	0.80	1	2/17/09	2/19/09 20:33	82289	143612	
2-Chloronaphthalene	9.7	U	9.7	0.71	1	2/17/09	2/19/09 20:33	82289	143612	
2-Chlorophenol	9.7	U	9.7	0.46	1	2/17/09	2/19/09 20:33	82289	143612	
2-Methylnaphthalene	9.7	U	9.7	0.59	1	2/17/09	2/19/09 20:33	82289	143612	
2-Methylphenol	9.7	U	9.7	0.75	1	2/17/09	2/19/09 20:33	82289	143612	
3-Nitroaniline	49	U	49	15	1	2/17/09	2/19/09 20:33	82289	143612	
2-Nitrophenol	9.7	U	9.7	0.81	1	2/17/09	2/19/09 20:33	82289	143612	
3,3'-Dichlorobenzidine	9.7	U	9.7	0.49	1	2/17/09	2/19/09 20:33	82289	143612	
3-Nitroaniline	49	U	49	10	1	2/17/09	2/19/09 20:33	82289	143612	
4,6-Dinitro-2-methylphenol	49	U	49	0.91	1	2/17/09	2/19/09 20:33	82289	143612	
4-Bromophenyl Phenyl Ether	9.7	U	9.7	0.71	1	2/17/09	2/19/09 20:33	82289	143612	
4-Chloro-3-methylphenol	9.7	U	9.7	0.77	1	2/17/09	2/19/09 20:33	82289	143612	
4-Chloroaniline	9.7	U	9.7	0.67	1	2/17/09	2/19/09 20:33	82289	143612	
4-Chlorophenyl Phenyl Ether	9.7	U	9.7	0.43	1	2/17/09	2/19/09 20:33	82289	143612	
4-Methylphenol	9.7	U	9.7	0.84	1	2/17/09	2/19/09 20:33	82289	143612	
4-Nitroaniline	49	U	49	14	1	2/17/09	2/19/09 20:33	82289	143612	
4-Nitrophenol	49	U	49	6.7	1	2/17/09	2/19/09 20:33	82289	143612	
Acenaphthene	9.7	U	9.7	0.40	1	2/17/09	2/19/09 20:33	82289	143612	
Acenaphthylene	9.7	U	9.7	0.77	1	2/17/09	2/19/09 20:33	82289	143612	
Acetophenone	9.7	U	9.7	2.9	1	2/17/09	2/19/09 20:33	82289	143612	
Anthracene	9.7	U	9.7	0.53	1	2/17/09	2/19/09 20:33	82289	143612	
Atrazine	9.7	U	9.7	1.5	1	2/17/09	2/19/09 20:33	82289	143612	
Benz(a)anthracene	9.7	U	9.7	0.26	1	2/17/09	2/19/09 20:33	82289	143612	
Benzaldehyde	9.7	U	9.7	3.6	1	2/17/09	2/19/09 20:33	82289	143612	
Benzo(a)pyrene	9.7	U	9.7	0.53	1	2/17/09	2/19/09 20:33	82289	143612	
Benzo(b)fluoranthene	9.7	U	9.7	0.38	1	2/17/09	2/19/09 20:33	82289	143612	
Benzo(g,h,i)perylene	9.7	U	9.7	0.32	1	2/17/09	2/19/09 20:33	82289	143612	

Comments:

3/31/09

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Pactiv-Macedon/1117564.00002
 Sample Matrix: Water
 Sample Name: MMW-7
 Lab Code: R0900760-010

Service Request: R0900760
 Date Collected: 2/12/09 1250
 Date Received: 2/12/09

Units: µg/L
 Basis: NA

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270C
 Prep Method: EPA 3510C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Benzo(k)fluoranthene	9.7	U	9.7	0.36	1	2/17/09	2/19/09 20:33	82289	143612	
Biphenyl	9.7	U	9.7	0.85	1	2/17/09	2/19/09 20:33	82289	143612	
2,2'-Oxybis(1-chloropropane)	9.7	U	9.7	0.77	1	2/17/09	2/19/09 20:33	82289	143612	
Bis(2-chloroethoxy)methane	9.7	U	9.7	0.96	1	2/17/09	2/19/09 20:33	82289	143612	
Bis(2-chloroethyl) Ether	9.7	U	9.7	0.67	1	2/17/09	2/19/09 20:33	82289	143612	
Bis(2-ethylhexyl) Phthalate	9.7	U	9.7	0.38	1	2/17/09	2/19/09 20:33	82289	143612	
Butyl Benzyl Phthalate	9.7	U	9.7	0.68	1	2/17/09	2/19/09 20:33	82289	143612	
Caprolactam	9.7	U	9.7	0.77	1	2/17/09	2/19/09 20:33	82289	143612	
Carbazole	9.7	U	9.7	0.53	1	2/17/09	2/19/09 20:33	82289	143612	
Chrysene	9.7	U	9.7	0.64	1	2/17/09	2/19/09 20:33	82289	143612	
Di-n-butyl Phthalate	9.7	U	9.7	0.70	1	2/17/09	2/19/09 20:33	82289	143612	
Di-n-octyl Phthalate	9.7	U	9.7	0.85	1	2/17/09	2/19/09 20:33	82289	143612	
Dibenz(a,h)anthracene	9.7	U	9.7	0.34	1	2/17/09	2/19/09 20:33	82289	143612	
Dibenzofuran	9.7	U	9.7	0.52	1	2/17/09	2/19/09 20:33	82289	143612	
Diethyl Phthalate	9.7	U	9.7	0.58	1	2/17/09	2/19/09 20:33	82289	143612	
Dimethyl Phthalate	9.7	U	9.7	0.74	1	2/17/09	2/19/09 20:33	82289	143612	
Fluoranthene	9.7	U	9.7	0.48	1	2/17/09	2/19/09 20:33	82289	143612	
Fluorene	9.7	U	9.7	0.58	1	2/17/09	2/19/09 20:33	82289	143612	
Hexachlorobenzene	9.7	U	9.7	0.70	1	2/17/09	2/19/09 20:33	82289	143612	
Hexachlorobutadiene	9.7	U	9.7	0.64	1	2/17/09	2/19/09 20:33	82289	143612	
Hexachlorocyclopentadiene	9.7	U	9.7	0.56	1	2/17/09	2/19/09 20:33	82289	143612	
Hexachloroethane	9.7	U	9.7	0.74	1	2/17/09	2/19/09 20:33	82289	143612	
Indeno(1,2,3-cd)pyrene	9.7	U	9.7	0.48	1	2/17/09	2/19/09 20:33	82289	143612	
Isophorone	9.7	U	9.7	0.60	1	2/17/09	2/19/09 20:33	82289	143612	
N-Nitrosodi-n-propylamine	9.7	U	9.7	0.52	1	2/17/09	2/19/09 20:33	82289	143612	
N-Nitrosodiphenylamine	9.7	U	9.7	0.50	1	2/17/09	2/19/09 20:33	82289	143612	
Naphthalene	9.7	U	9.7	0.80	1	2/17/09	2/19/09 20:33	82289	143612	
Nitrobenzene	9.7	U	9.7	0.63	1	2/17/09	2/19/09 20:33	82289	143612	
Pentachlorophenol (PCP)	49	U	49	17	1	2/17/09	2/19/09 20:33	82289	143612	
Phenanthrene	9.7	U	9.7	0.37	1	2/17/09	2/19/09 20:33	82289	143612	
Phenol	9.7	U	9.7	0.63	1	2/17/09	2/19/09 20:33	82289	143612	
Pyrene	9.7	U	9.7	0.48	1	2/17/09	2/19/09 20:33	82289	143612	

Comments:

3/31/09

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW-7

Lab Name: CAS-ROCH Contract: URS
Lab Code: 10145 Case No.: R0900760 SAS No.: SDG No.: 1117564.0
Matrix: (soil/water) WATER Lab Sample ID: R0900760-010|1.0
Sample wt/vol: 1040 (g/ml) ML Lab File ID: BY696.D
Level: (low/med) LOW Date Received: 2/12/09
% Moisture: decanted: (Y/N) N Date Extracted: 2/17/09
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/19/09
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 6

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Pactiv-Macedon/1117564.00002
 Sample Matrix: Water
 Sample Name: MMW-9
 Lab Code: R0900760-012

Service Request: R0900760
 Date Collected: 2/12/09 1600
 Date Received: 2/12/09

Units: µg/L
 Basis: NA

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270C
 Prep Method: EPA 3510C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
2,4,5-Trichlorophenol	9.7	U	9.7	0.58	1	2/17/09	2/20/09 11:49	82289	143908	
2,4,6-Trichlorophenol	9.7	U	9.7	0.46	1	2/17/09	2/20/09 11:49	82289	143908	
2,4-Dichlorophenol	9.7	U	9.7	0.63	1	2/17/09	2/20/09 11:49	82289	143908	
2,4-Dimethylphenol	9.7	U	9.7	1.7	1	2/17/09	2/20/09 11:49	82289	143908	
2,4-Dinitrophenol	49	U	49	22	1	2/17/09	2/20/09 11:49	82289	143908	
2,4-Dinitrotoluene	9.7	U	9.7	0.72	1	2/17/09	2/20/09 11:49	82289	143908	
2,6-Dinitrotoluene	9.7	U	9.7	0.80	1	2/17/09	2/20/09 11:49	82289	143908	
2-Chloronaphthalene	9.7	U	9.7	0.71	1	2/17/09	2/20/09 11:49	82289	143908	
2-Chlorophenol	9.7	U	9.7	0.46	1	2/17/09	2/20/09 11:49	82289	143908	
2-Methylnaphthalene	9.7	U	9.7	0.59	1	2/17/09	2/20/09 11:49	82289	143908	
2-Methylphenol	9.7	U	9.7	0.75	1	2/17/09	2/20/09 11:49	82289	143908	
2-Nitroaniline	49	U	49	15	1	2/17/09	2/20/09 11:49	82289	143908	
2-Nitrophenol	9.7	U	9.7	0.81	1	2/17/09	2/20/09 11:49	82289	143908	
3,3'-Dichlorobenzidine	9.7	U	9.7	0.49	1	2/17/09	2/20/09 11:49	82289	143908	
3-Nitroaniline	49	U	49	10	1	2/17/09	2/20/09 11:49	82289	143908	
4,6-Dinitro-2-methylphenol	49	U	49	0.91	1	2/17/09	2/20/09 11:49	82289	143908	
4-Bromophenyl Phenyl Ether	9.7	U	9.7	0.71	1	2/17/09	2/20/09 11:49	82289	143908	
4-Chloro-3-methylphenol	9.7	U	9.7	0.77	1	2/17/09	2/20/09 11:49	82289	143908	
4-Chloroaniline	9.7	U	9.7	0.67	1	2/17/09	2/20/09 11:49	82289	143908	
4-Chlorophenyl Phenyl Ether	9.7	U	9.7	0.43	1	2/17/09	2/20/09 11:49	82289	143908	
4-Methylphenol	9.7	U	9.7	0.84	1	2/17/09	2/20/09 11:49	82289	143908	
4-Nitroaniline	49	U	49	14	1	2/17/09	2/20/09 11:49	82289	143908	
4-Nitrophenol	49	U	49	6.7	1	2/17/09	2/20/09 11:49	82289	143908	
Acenaphthene	9.7	U	9.7	0.40	1	2/17/09	2/20/09 11:49	82289	143908	
Acenaphthylene	9.7	U	9.7	0.77	1	2/17/09	2/20/09 11:49	82289	143908	
Acetophenone	9.7	U	9.7	2.9	1	2/17/09	2/20/09 11:49	82289	143908	
Anthracene	9.7	U	9.7	0.53	1	2/17/09	2/20/09 11:49	82289	143908	
Atrazine	9.7	U	9.7	1.5	1	2/17/09	2/20/09 11:49	82289	143908	
Benz(a)anthracene	9.7	U	9.7	0.26	1	2/17/09	2/20/09 11:49	82289	143908	
Benzaldehyde	9.7	U	9.7	3.6	1	2/17/09	2/20/09 11:49	82289	143908	
Benzo(a)pyrene	9.7	U	9.7	0.53	1	2/17/09	2/20/09 11:49	82289	143908	
Benzo(b)fluoranthene	9.7	U	9.7	0.38	1	2/17/09	2/20/09 11:49	82289	143908	
Benzo(g,h,i)perylene	9.7	U	9.7	0.32	1	2/17/09	2/20/09 11:49	82289	143908	

Comments:

3/5/09

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Pactiv-Macedon/1117564.00002
 Sample Matrix: Water
 Sample Name: MMW-9
 Lab Code: R0900760-012

Service Request: R0900760
 Date Collected: 2/12/09 1600
 Date Received: 2/12/09

Units: µg/L
 Basis: NA

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270C
 Prep Method: EPA 3510C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Benzo(k)fluoranthene	9.7	U	9.7	0.36	1	2/17/09	2/20/09 11:49	82289	143908	
Biphenyl	9.7	U	9.7	0.85	1	2/17/09	2/20/09 11:49	82289	143908	
2,2'-Oxybis(1-chloropropane)	9.7	U	9.7	0.77	1	2/17/09	2/20/09 11:49	82289	143908	
Bis(2-chloroethoxy)methane	9.7	U	9.7	0.96	1	2/17/09	2/20/09 11:49	82289	143908	
Bis(2-chloroethyl) Ether	9.7	U	9.7	0.67	1	2/17/09	2/20/09 11:49	82289	143908	
Bis(2-ethylhexyl) Phthalate	9.7	U	9.7	0.38	1	2/17/09	2/20/09 11:49	82289	143908	
Butyl Benzyl Phthalate	9.7	U	9.7	0.68	1	2/17/09	2/20/09 11:49	82289	143908	
Caprolactam	9.7	U	9.7	0.77	1	2/17/09	2/20/09 11:49	82289	143908	
Carbazole	9.7	U	9.7	0.53	1	2/17/09	2/20/09 11:49	82289	143908	
Chrysene	9.7	U	9.7	0.64	1	2/17/09	2/20/09 11:49	82289	143908	
Di-n-butyl Phthalate	9.7	U	9.7	0.70	1	2/17/09	2/20/09 11:49	82289	143908	
Di-n-octyl Phthalate	9.7	U	9.7	0.85	1	2/17/09	2/20/09 11:49	82289	143908	
Dibenz(a,h)anthracene	9.7	U	9.7	0.34	1	2/17/09	2/20/09 11:49	82289	143908	
Dibenzofuran	9.7	U	9.7	0.52	1	2/17/09	2/20/09 11:49	82289	143908	
Diethyl Phthalate	9.7	U	9.7	0.58	1	2/17/09	2/20/09 11:49	82289	143908	
Dimethyl Phthalate	9.7	U	9.7	0.74	1	2/17/09	2/20/09 11:49	82289	143908	
Fluoranthene	9.7	U	9.7	0.48	1	2/17/09	2/20/09 11:49	82289	143908	
Fluorene	9.7	U	9.7	0.58	1	2/17/09	2/20/09 11:49	82289	143908	
Hexachlorobenzene	9.7	U	9.7	0.70	1	2/17/09	2/20/09 11:49	82289	143908	
Hexachlorobutadiene	9.7	U	9.7	0.64	1	2/17/09	2/20/09 11:49	82289	143908	
Hexachlorocyclopentadiene	9.7	U	9.7	0.56	1	2/17/09	2/20/09 11:49	82289	143908	
Hexachloroethane	9.7	U	9.7	0.74	1	2/17/09	2/20/09 11:49	82289	143908	
Indeno(1,2,3-cd)pyrene	9.7	U	9.7	0.48	1	2/17/09	2/20/09 11:49	82289	143908	
Isophorone	9.7	U	9.7	0.60	1	2/17/09	2/20/09 11:49	82289	143908	
N-Nitrosodi-n-propylamine	9.7	U	9.7	0.52	1	2/17/09	2/20/09 11:49	82289	143908	
N-Nitrosodiphenylamine	9.7	U	9.7	0.50	1	2/17/09	2/20/09 11:49	82289	143908	
Naphthalene	9.7	U	9.7	0.80	1	2/17/09	2/20/09 11:49	82289	143908	
Nitrobenzene	9.7	U	9.7	0.63	1	2/17/09	2/20/09 11:49	82289	143908	
Pentachlorophenol (PCP)	49	U	49	17	1	2/17/09	2/20/09 11:49	82289	143908	
Phenanthrene	9.7	U	9.7	0.37	1	2/17/09	2/20/09 11:49	82289	143908	
Phenol	9.7	U	9.7	0.63	1	2/17/09	2/20/09 11:49	82289	143908	
Pyrene	9.7	U	9.7	0.48	1	2/17/09	2/20/09 11:49	82289	143908	

Comments:

3/31/09

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW-9

Lab Name: CAS-ROCH Contract: URS
Lab Code: 10145 Case No.: R0900760 SAS No.: _____ SDG No.: 1117564.0
Matrix: (soil/water) WATER Lab Sample ID: R0900760-012|1.0
Sample wt/vol: 1040 (g/ml) ML Lab File ID: BY702.D
Level: (low/med) LOW Date Received: 2/12/09
% Moisture: _____ decanted: (Y/N) N Date Extracted: 2/17/09
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/20/09
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 6

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Pactiv-Macedon/1117564.00002
 Sample Matrix: Water
 Sample Name: MMW-10
 Lab Code: R0900760-011

Service Request: R0900760
 Date Collected: 2/12/09 1435
 Date Received: 2/12/09
 Units: µg/L
 Basis: NA

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270C
 Prep Method: EPA 3510C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
2,4,5-Trichlorophenol	10	U	10	0.58	1	2/17/09	2/19/09 21:14	82289	143612	
2,4,6-Trichlorophenol	10	U	10	0.46	1	2/17/09	2/19/09 21:14	82289	143612	
2,4-Dichlorophenol	10	U	10	0.63	1	2/17/09	2/19/09 21:14	82289	143612	
2,4-Dimethylphenol	10	U	10	1.7	1	2/17/09	2/19/09 21:14	82289	143612	
2,4-Dinitrophenol	50	U	50	22	1	2/17/09	2/19/09 21:14	82289	143612	
2,4-Dinitrotoluene	10	U	10	0.72	1	2/17/09	2/19/09 21:14	82289	143612	
2,6-Dinitrotoluene	10	U	10	0.80	1	2/17/09	2/19/09 21:14	82289	143612	
2-Chloronaphthalene	10	U	10	0.71	1	2/17/09	2/19/09 21:14	82289	143612	
2-Chlorophenol	10	U	10	0.46	1	2/17/09	2/19/09 21:14	82289	143612	
2-Methylnaphthalene	10	U	10	0.59	1	2/17/09	2/19/09 21:14	82289	143612	
2-Methylphenol	10	U	10	0.75	1	2/17/09	2/19/09 21:14	82289	143612	
3-Nitroaniline	50	U	50	15	1	2/17/09	2/19/09 21:14	82289	143612	
2-Nitrophenol	10	U	10	0.81	1	2/17/09	2/19/09 21:14	82289	143612	
3,3'-Dichlorobenzidine	10	U	10	0.49	1	2/17/09	2/19/09 21:14	82289	143612	
3-Nitroaniline	50	U	50	10	1	2/17/09	2/19/09 21:14	82289	143612	
4,6-Dinitro-2-methylphenol	50	U	50	0.91	1	2/17/09	2/19/09 21:14	82289	143612	
4-Bromophenyl Phenyl Ether	10	U	10	0.71	1	2/17/09	2/19/09 21:14	82289	143612	
4-Chloro-3-methylphenol	10	U	10	0.77	1	2/17/09	2/19/09 21:14	82289	143612	
4-Chloroaniline	10	U	10	0.67	1	2/17/09	2/19/09 21:14	82289	143612	
4-Chlorophenyl Phenyl Ether	10	U	10	0.43	1	2/17/09	2/19/09 21:14	82289	143612	
4-Methylphenol	10	U	10	0.84	1	2/17/09	2/19/09 21:14	82289	143612	
4-Nitroaniline	50	U	50	14	1	2/17/09	2/19/09 21:14	82289	143612	
4-Nitrophenol	50	U	50	6.7	1	2/17/09	2/19/09 21:14	82289	143612	
Acenaphthene	10	U	10	0.40	1	2/17/09	2/19/09 21:14	82289	143612	
Acenaphthylene	10	U	10	0.77	1	2/17/09	2/19/09 21:14	82289	143612	
Acetophenone	10	U	10	2.9	1	2/17/09	2/19/09 21:14	82289	143612	
Anthracene	10	U	10	0.53	1	2/17/09	2/19/09 21:14	82289	143612	
Atrazine	10	U	10	1.5	1	2/17/09	2/19/09 21:14	82289	143612	
Benz(a)anthracene	10	U	10	0.26	1	2/17/09	2/19/09 21:14	82289	143612	
Benzaldehyde	10	U	10	3.6	1	2/17/09	2/19/09 21:14	82289	143612	
Benzo(a)pyrene	10	U	10	0.53	1	2/17/09	2/19/09 21:14	82289	143612	
Benzo(b)fluoranthene	10	U	10	0.38	1	2/17/09	2/19/09 21:14	82289	143612	
Benzo(g,h,i)perylene	10	U	10	0.32	1	2/17/09	2/19/09 21:14	82289	143612	

Comments:

3/3/09

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Pactiv-Macedon/1117564.00002
 Sample Matrix: Water
 Sample Name: MMW-10
 Lab Code: R0900760-011

Service Request: R0900760
 Date Collected: 2/12/09 1435
 Date Received: 2/12/09

Units: µg/L
 Basis: NA

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270C
 Prep Method: EPA 3510C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Benzo(k)fluoranthene	10	U	10	0.36	1	2/17/09	2/19/09 21:14	82289	143612	
Biphenyl	10	U	10	0.85	1	2/17/09	2/19/09 21:14	82289	143612	
2,2'-Oxybis(1-chloropropane)	10	U	10	0.77	1	2/17/09	2/19/09 21:14	82289	143612	
Bis(2-chloroethoxy)methane	10	U	10	0.96	1	2/17/09	2/19/09 21:14	82289	143612	
Bis(2-chloroethyl) Ether	10	U	10	0.67	1	2/17/09	2/19/09 21:14	82289	143612	
Bis(2-ethylhexyl) Phthalate	10	U	10	0.38	1	2/17/09	2/19/09 21:14	82289	143612	
Butyl Benzyl Phthalate	10	U	10	0.68	1	2/17/09	2/19/09 21:14	82289	143612	
Caprolactam	10	U	10	0.77	1	2/17/09	2/19/09 21:14	82289	143612	
Carbazole	10	U	10	0.53	1	2/17/09	2/19/09 21:14	82289	143612	
Chrysene	10	U	10	0.64	1	2/17/09	2/19/09 21:14	82289	143612	
Di-n-butyl Phthalate	10	U	10	0.70	1	2/17/09	2/19/09 21:14	82289	143612	
Di-n-octyl Phthalate	10	U	10	0.85	1	2/17/09	2/19/09 21:14	82289	143612	
Dibenz(a,h)anthracene	10	U	10	0.34	1	2/17/09	2/19/09 21:14	82289	143612	
Dibenzofuran	10	U	10	0.52	1	2/17/09	2/19/09 21:14	82289	143612	
Diethyl Phthalate	10	U	10	0.58	1	2/17/09	2/19/09 21:14	82289	143612	
Dimethyl Phthalate	10	U	10	0.74	1	2/17/09	2/19/09 21:14	82289	143612	
Fluoranthene	10	U	10	0.48	1	2/17/09	2/19/09 21:14	82289	143612	
Fluorene	10	U	10	0.58	1	2/17/09	2/19/09 21:14	82289	143612	
Hexachlorobenzene	10	U	10	0.70	1	2/17/09	2/19/09 21:14	82289	143612	
Hexachlorobutadiene	10	U	10	0.64	1	2/17/09	2/19/09 21:14	82289	143612	
Hexachlorocyclopentadiene	10	U	10	0.56	1	2/17/09	2/19/09 21:14	82289	143612	
Hexachloroethane	10	U	10	0.74	1	2/17/09	2/19/09 21:14	82289	143612	
Indeno(1,2,3-cd)pyrene	10	U	10	0.48	1	2/17/09	2/19/09 21:14	82289	143612	
Isophorone	10	U	10	0.60	1	2/17/09	2/19/09 21:14	82289	143612	
N-Nitrosodi-n-propylamine	10	U	10	0.52	1	2/17/09	2/19/09 21:14	82289	143612	
N-Nitrosodiphenylamine	10	U	10	0.50	1	2/17/09	2/19/09 21:14	82289	143612	
Naphthalene	10	U	10	0.80	1	2/17/09	2/19/09 21:14	82289	143612	
Nitrobenzene	10	U	10	0.63	1	2/17/09	2/19/09 21:14	82289	143612	
Pentachlorophenol (PCP)	50	U	50	17	1	2/17/09	2/19/09 21:14	82289	143612	
Phenanthrene	10	U	10	0.37	1	2/17/09	2/19/09 21:14	82289	143612	
Phenol	10	U	10	0.63	1	2/17/09	2/19/09 21:14	82289	143612	
Pyrene	10	U	10	0.48	1	2/17/09	2/19/09 21:14	82289	143612	

Comments:

13/31/09

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MMW-10

Lab Name: CAS-ROCH Contract: URS
Lab Code: 10145 Case No.: R0900760 SAS No.: SDG No.: 1117564.0
Matrix: (soil/water) WATER Lab Sample ID: R0900760-011|1.0
Sample wt/vol: 1010 (g/ml) ML Lab File ID: BY697.D
Level: (low/med) LOW Date Received: 2/12/09
% Moisture: decanted: (Y/N) N Date Extracted: 2/17/09
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/19/09
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 6

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Pactiv-Macedon/1117564.00002
 Sample Matrix: Water
 Sample Name: MP-1
 Lab Code: R0900760-001

Service Request: R0900760
 Date Collected: 2/11/09 1115
 Date Received: 2/11/09

Units: µg/L
 Basis: NA

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270C
 Prep Method: EPA 3510C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
2,4,5-Trichlorophenol	10	U	10	0.58	1	2/13/09	2/18/09 20:54	82201	143468	
2,4,6-Trichlorophenol	10	U	10	0.46	1	2/13/09	2/18/09 20:54	82201	143468	
2,4-Dichlorophenol	10	U	10	0.63	1	2/13/09	2/18/09 20:54	82201	143468	
2,4-Dimethylphenol	10	U	10	1.7	1	2/13/09	2/18/09 20:54	82201	143468	
2,4-Dinitrophenol	50	U	50	22	1	2/13/09	2/18/09 20:54	82201	143468	
2,4-Dinitrotoluene	10	U	10	0.72	1	2/13/09	2/18/09 20:54	82201	143468	
2,6-Dinitrotoluene	10	U	10	0.80	1	2/13/09	2/18/09 20:54	82201	143468	
2-Chloronaphthalene	10	U	10	0.71	1	2/13/09	2/18/09 20:54	82201	143468	
2-Chlorophenol	10	U	10	0.46	1	2/13/09	2/18/09 20:54	82201	143468	
2-Methylnaphthalene	10	U	10	0.59	1	2/13/09	2/18/09 20:54	82201	143468	
2-Methylphenol	10	U	10	0.75	1	2/13/09	2/18/09 20:54	82201	143468	
2-Nitroaniline	50	U	50	15	1	2/13/09	2/18/09 20:54	82201	143468	
2-Nitrophenol	10	U	10	0.81	1	2/13/09	2/18/09 20:54	82201	143468	
3,3'-Dichlorobenzidine	10	U	10	0.49	1	2/13/09	2/18/09 20:54	82201	143468	
3-Nitroaniline	50	U	50	10	1	2/13/09	2/18/09 20:54	82201	143468	
4,6-Dinitro-2-methylphenol	50	U	50	0.91	1	2/13/09	2/18/09 20:54	82201	143468	
4-Bromophenyl Phenyl Ether	10	U	10	0.71	1	2/13/09	2/18/09 20:54	82201	143468	
4-Chloro-3-methylphenol	10	U	10	0.77	1	2/13/09	2/18/09 20:54	82201	143468	
4-Chloroaniline	10	U	10	0.67	1	2/13/09	2/18/09 20:54	82201	143468	
4-Chlorophenyl Phenyl Ether	10	U	10	0.43	1	2/13/09	2/18/09 20:54	82201	143468	
4-Methylphenol	10	U	10	0.84	1	2/13/09	2/18/09 20:54	82201	143468	
4-Nitroaniline	50	U	50	14	1	2/13/09	2/18/09 20:54	82201	143468	
4-Nitrophenol	50	U	50	6.7	1	2/13/09	2/18/09 20:54	82201	143468	
Acenaphthene	10	U	10	0.40	1	2/13/09	2/18/09 20:54	82201	143468	
Acenaphthylene	10	U	10	0.77	1	2/13/09	2/18/09 20:54	82201	143468	
Acetophenone	10	U	10	2.9	1	2/13/09	2/18/09 20:54	82201	143468	
Anthracene	10	U	10	0.53	1	2/13/09	2/18/09 20:54	82201	143468	
Atrazine	10	U	10	1.5	1	2/13/09	2/18/09 20:54	82201	143468	
Benz(a)anthracene	10	U	10	0.26	1	2/13/09	2/18/09 20:54	82201	143468	
Benzaldehyde	10	U	10	3.6	1	2/13/09	2/18/09 20:54	82201	143468	
Benzo(a)pyrene	10	U	10	0.53	1	2/13/09	2/18/09 20:54	82201	143468	
Benzo(b)fluoranthene	10	U	10	0.38	1	2/13/09	2/18/09 20:54	82201	143468	
Benzo(g,h,i)perylene	10	U	10	0.32	1	2/13/09	2/18/09 20:54	82201	143468	

Comments:

3/3/09

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Pactiv-Macedon/1117564.00002
 Sample Matrix: Water
 Sample Name: MP-1
 Lab Code: R0900760-001

Service Request: R0900760
 Date Collected: 2/11/09 1115
 Date Received: 2/11/09
 Units: µg/L
 Basis: NA

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270C
 Prep Method: EPA 3510C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Benzo(k)fluoranthene	10	U	10	0.36	1	2/13/09	2/18/09 20:54	82201	143468	
Biphenyl	10	U	10	0.85	1	2/13/09	2/18/09 20:54	82201	143468	
2,2'-Oxybis(1-chloropropane)	10	U	10	0.77	1	2/13/09	2/18/09 20:54	82201	143468	
Bis(2-chloroethoxy)methane	10	U	10	0.96	1	2/13/09	2/18/09 20:54	82201	143468	
Bis(2-chloroethyl) Ether	10	U	10	0.67	1	2/13/09	2/18/09 20:54	82201	143468	
Bis(2-ethylhexyl) Phthalate	10	U	10	0.38	1	2/13/09	2/18/09 20:54	82201	143468	
Butyl Benzyl Phthalate	10	U	10	0.68	1	2/13/09	2/18/09 20:54	82201	143468	
Caprolactam	10	U	10	0.77	1	2/13/09	2/18/09 20:54	82201	143468	
Carbazole	10	U	10	0.53	1	2/13/09	2/18/09 20:54	82201	143468	
Chrysene	10	U	10	0.64	1	2/13/09	2/18/09 20:54	82201	143468	
Di-n-butyl Phthalate	10	U	10	0.70	1	2/13/09	2/18/09 20:54	82201	143468	
Di-n-octyl Phthalate	10	U	10	0.85	1	2/13/09	2/18/09 20:54	82201	143468	
Dibenz(a,h)anthracene	10	U	10	0.34	1	2/13/09	2/18/09 20:54	82201	143468	
Dibenzofuran	10	U	10	0.52	1	2/13/09	2/18/09 20:54	82201	143468	
Diethyl Phthalate	10	U	10	0.58	1	2/13/09	2/18/09 20:54	82201	143468	
Dimethyl Phthalate	10	U	10	0.74	1	2/13/09	2/18/09 20:54	82201	143468	
Fluoranthene	10	U	10	0.48	1	2/13/09	2/18/09 20:54	82201	143468	
Fluorene	10	U	10	0.58	1	2/13/09	2/18/09 20:54	82201	143468	
Hexachlorobenzene	10	U	10	0.70	1	2/13/09	2/18/09 20:54	82201	143468	
Hexachlorobutadiene	10	U	10	0.64	1	2/13/09	2/18/09 20:54	82201	143468	
Hexachlorocyclopentadiene	10	U	10	0.56	1	2/13/09	2/18/09 20:54	82201	143468	
Hexachloroethane	10	U	10	0.74	1	2/13/09	2/18/09 20:54	82201	143468	
Indeno(1,2,3-cd)pyrene	10	U	10	0.48	1	2/13/09	2/18/09 20:54	82201	143468	
Isophorone	10	U	10	0.60	1	2/13/09	2/18/09 20:54	82201	143468	
N-Nitrosodi-n-propylamine	10	U	10	0.52	1	2/13/09	2/18/09 20:54	82201	143468	
N-Nitrosodiphenylamine	10	U	10	0.50	1	2/13/09	2/18/09 20:54	82201	143468	
Naphthalene	10	U	10	0.80	1	2/13/09	2/18/09 20:54	82201	143468	
Nitrobenzene	10	U	10	0.63	1	2/13/09	2/18/09 20:54	82201	143468	
Pentachlorophenol (PCP)	50	U	50	17	1	2/13/09	2/18/09 20:54	82201	143468	
Phenanthrene	10	U	10	0.37	1	2/13/09	2/18/09 20:54	82201	143468	
Phenol	10	U	10	0.63	1	2/13/09	2/18/09 20:54	82201	143468	
Pyrene	10	U	10	0.48	1	2/13/09	2/18/09 20:54	82201	143468	

Comments:

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MP-1

Lab Name: CAS-ROCH Contract: URS
Lab Code: 10145 Case No.: R0900760 SAS No.: SDG No.: 1117564.0
Matrix: (soil/water) WATER Lab Sample ID: R0900760-001|1.0
Sample wt/vol: 1000 (g/ml) ML Lab File ID: BY677.D
Level: (low/med) LOW Date Received: 2/11/09
% Moisture: decanted: (Y/N) N Date Extracted: 2/13/09
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/18/09
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Pactiv-Macedon/1117564.00002
 Sample Matrix: Water
 Sample Name: EQ-021109
 Lab Code: R0900760-002

Service Request: R0900760
 Date Collected: 2/11/09 1230
 Date Received: 2/11/09

Units: µg/L
 Basis: NA

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270C
 Prep Method: EPA 3510C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
2,4,5-Trichlorophenol	9.5	U	9.5	0.58	1	2/13/09	2/18/09 20:13	82201	143468	
2,4,6-Trichlorophenol	9.5	U	9.5	0.46	1	2/13/09	2/18/09 20:13	82201	143468	
2,4-Dichlorophenol	9.5	U	9.5	0.63	1	2/13/09	2/18/09 20:13	82201	143468	
2,4-Dimethylphenol	9.5	U	9.5	1.7	1	2/13/09	2/18/09 20:13	82201	143468	
2,4-Dinitrophenol	48	U	48	22	1	2/13/09	2/18/09 20:13	82201	143468	
2,4-Dinitrotoluene	9.5	U	9.5	0.72	1	2/13/09	2/18/09 20:13	82201	143468	
2,6-Dinitrotoluene	9.5	U	9.5	0.80	1	2/13/09	2/18/09 20:13	82201	143468	
2-Chloronaphthalene	9.5	U	9.5	0.71	1	2/13/09	2/18/09 20:13	82201	143468	
2-Chlorophenol	9.5	U	9.5	0.46	1	2/13/09	2/18/09 20:13	82201	143468	
2-Methylnaphthalene	9.5	U	9.5	0.59	1	2/13/09	2/18/09 20:13	82201	143468	
2-Methylphenol	9.5	U	9.5	0.75	1	2/13/09	2/18/09 20:13	82201	143468	
4-Nitroaniline	48	U	48	15	1	2/13/09	2/18/09 20:13	82201	143468	
2-Nitrophenol	9.5	U	9.5	0.81	1	2/13/09	2/18/09 20:13	82201	143468	
3,3'-Dichlorobenzidine	9.5	U	9.5	0.49	1	2/13/09	2/18/09 20:13	82201	143468	
3-Nitroaniline	48	U	48	10	1	2/13/09	2/18/09 20:13	82201	143468	
4,6-Dinitro-2-methylphenol	48	U	48	0.91	1	2/13/09	2/18/09 20:13	82201	143468	
4-Bromophenyl Phenyl Ether	9.5	U	9.5	0.71	1	2/13/09	2/18/09 20:13	82201	143468	
4-Chloro-3-methylphenol	9.5	U	9.5	0.77	1	2/13/09	2/18/09 20:13	82201	143468	
4-Chloroaniline	9.5	U	9.5	0.67	1	2/13/09	2/18/09 20:13	82201	143468	
4-Chlorophenyl Phenyl Ether	9.5	U	9.5	0.43	1	2/13/09	2/18/09 20:13	82201	143468	
4-Methylphenol	9.5	U	9.5	0.84	1	2/13/09	2/18/09 20:13	82201	143468	
4-Nitroaniline	48	U	48	14	1	2/13/09	2/18/09 20:13	82201	143468	
4-Nitrophenol	48	U	48	6.7	1	2/13/09	2/18/09 20:13	82201	143468	
Acenaphthene	9.5	U	9.5	0.40	1	2/13/09	2/18/09 20:13	82201	143468	
Acenaphthylene	9.5	U	9.5	0.77	1	2/13/09	2/18/09 20:13	82201	143468	
Acetophenone	9.5	U	9.5	2.9	1	2/13/09	2/18/09 20:13	82201	143468	
Anthracene	9.5	U	9.5	0.53	1	2/13/09	2/18/09 20:13	82201	143468	
Atrazine	9.5	U	9.5	1.5	1	2/13/09	2/18/09 20:13	82201	143468	
Benz(a)anthracene	9.5	U	9.5	0.26	1	2/13/09	2/18/09 20:13	82201	143468	
Benzaldehyde	9.5	U	9.5	3.6	1	2/13/09	2/18/09 20:13	82201	143468	
Benzo(a)pyrene	9.5	U	9.5	0.53	1	2/13/09	2/18/09 20:13	82201	143468	
Benzo(b)fluoranthene	9.5	U	9.5	0.38	1	2/13/09	2/18/09 20:13	82201	143468	
Benzo(g,h,i)perylene	9.5	U	9.5	0.32	1	2/13/09	2/18/09 20:13	82201	143468	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Pactiv-Macedon/1117564.00002
 Sample Matrix: Water
 Sample Name: EQ-021109
 Lab Code: R0900760-002

Service Request: R0900760
 Date Collected: 2/11/09 1230
 Date Received: 2/11/09

Units: µg/L
 Basis: NA

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270C
 Prep Method: EPA 3510C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Benzo(k)fluoranthene	9.5	U	9.5	0.36	1	2/13/09	2/18/09 20:13	82201	143468	
Biphenyl	9.5	U	9.5	0.85	1	2/13/09	2/18/09 20:13	82201	143468	
2,2'-Oxybis(1-chloropropane)	9.5	U	9.5	0.77	1	2/13/09	2/18/09 20:13	82201	143468	
Bis(2-chloroethoxy)methane	9.5	U	9.5	0.96	1	2/13/09	2/18/09 20:13	82201	143468	
Bis(2-chloroethyl) Ether	9.5	U	9.5	0.67	1	2/13/09	2/18/09 20:13	82201	143468	
Bis(2-ethylhexyl) Phthalate	9.5	U	9.5	0.38	1	2/13/09	2/18/09 20:13	82201	143468	
Butyl Benzyl Phthalate	9.5	U	9.5	0.68	1	2/13/09	2/18/09 20:13	82201	143468	
Caprolactam	9.5	U	9.5	0.77	1	2/13/09	2/18/09 20:13	82201	143468	
Carbazole	9.5	U	9.5	0.53	1	2/13/09	2/18/09 20:13	82201	143468	
Chrysene	9.5	U	9.5	0.64	1	2/13/09	2/18/09 20:13	82201	143468	
Di-n-butyl Phthalate	1.3	J	9.5	0.70	1	2/13/09	2/18/09 20:13	82201	143468	
Di-n-octyl Phthalate	9.5	U	9.5	0.85	1	2/13/09	2/18/09 20:13	82201	143468	
Dibenz(a,h)anthracene	9.5	U	9.5	0.34	1	2/13/09	2/18/09 20:13	82201	143468	
Dibenzofuran	9.5	U	9.5	0.52	1	2/13/09	2/18/09 20:13	82201	143468	
Diethyl Phthalate	9.5	U	9.5	0.58	1	2/13/09	2/18/09 20:13	82201	143468	
Dimethyl Phthalate	9.5	U	9.5	0.74	1	2/13/09	2/18/09 20:13	82201	143468	
Fluoranthene	9.5	U	9.5	0.48	1	2/13/09	2/18/09 20:13	82201	143468	
Fluorene	9.5	U	9.5	0.58	1	2/13/09	2/18/09 20:13	82201	143468	
Hexachlorobenzene	9.5	U	9.5	0.70	1	2/13/09	2/18/09 20:13	82201	143468	
Hexachlorobutadiene	9.5	U	9.5	0.64	1	2/13/09	2/18/09 20:13	82201	143468	
Hexachlorocyclopentadiene	9.5	U	9.5	0.56	1	2/13/09	2/18/09 20:13	82201	143468	
Hexachloroethane	9.5	U	9.5	0.74	1	2/13/09	2/18/09 20:13	82201	143468	
Indeno(1,2,3-cd)pyrene	9.5	U	9.5	0.48	1	2/13/09	2/18/09 20:13	82201	143468	
Isophorone	9.5	U	9.5	0.60	1	2/13/09	2/18/09 20:13	82201	143468	
N-Nitrosodi-n-propylamine	9.5	U	9.5	0.52	1	2/13/09	2/18/09 20:13	82201	143468	
N-Nitrosodiphenylamine	9.5	U	9.5	0.50	1	2/13/09	2/18/09 20:13	82201	143468	
Naphthalene	9.5	U	9.5	0.80	1	2/13/09	2/18/09 20:13	82201	143468	
Nitrobenzene	9.5	U	9.5	0.63	1	2/13/09	2/18/09 20:13	82201	143468	
Pentachlorophenol (PCP)	48	U	48	17	1	2/13/09	2/18/09 20:13	82201	143468	
Phenanthrene	9.5	U	9.5	0.37	1	2/13/09	2/18/09 20:13	82201	143468	
Phenol	9.5	U	9.5	0.63	1	2/13/09	2/18/09 20:13	82201	143468	
Pyrene	9.5	U	9.5	0.48	1	2/13/09	2/18/09 20:13	82201	143468	

Comments:

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EQ-021109

Lab Name: CAS-ROCH Contract: URS
Lab Code: 10145 Case No.: R0900760 SAS No.: SDG No.: 1117564.0
Matrix: (soil/water) WATER Lab Sample ID: R0900760-002|1.0
Sample wt/vol: 1060 (g/ml) ML Lab File ID: BY676.D
Level: (low/med) LOW Date Received: 2/11/09
% Moisture: decanted: (Y/N) N Date Extracted: 2/13/09
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/18/09
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

Number TICs found: 2 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	7.54	4	J
2.	unknown	14.59	6	J

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Pactiv-Macedon/1117564.00002
 Sample Matrix: Water
 Sample Name: MMW-7
 Lab Code: R0900760-010

Service Request: R0900760
 Date Collected: 2/12/09 1250
 Date Received: 2/12/09
 Units: µg/L
 Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analytical Method: 8082
 Prep Method: EPA 3510C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Aroclor 1016	0.99	U	0.99	0.39	1	2/18/09	2/25/09 16:37	82447	144485	
Aroclor 1221	2.0	U	2.0	0.54	1	2/18/09	2/25/09 16:37	82447	144485	
Aroclor 1232	0.99	U	0.99	0.29	1	2/18/09	2/25/09 16:37	82447	144485	
Aroclor 1242	0.99	U	0.99	0.23	1	2/18/09	2/25/09 16:37	82447	144485	
Aroclor 1248	0.99	U	0.99	0.48	1	2/18/09	2/25/09 16:37	82447	144485	
Aroclor 1254	0.99	U	0.99	0.34	1	2/18/09	2/25/09 16:37	82447	144485	
Aroclor 1260	0.99	U	0.99	0.21	1	2/18/09	2/25/09 16:37	82447	144485	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
Decachlorobiphenyl	70	10-129	2/25/09 16:37		
Tetrachloro-m-xylene	71	34-113	2/25/09 16:37		

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MMW-1

Contract: R0900760

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG NO.: 1117564.00002

Matrix (soil/water): WATER

Lab Sample ID: R0900760-008

Level (low/med): LOW

Date Received: 2/12/2009

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-22-4	Silver	0.829	U		P
7440-38-2	Arsenic	3.2	U		P
7440-39-3	Barium	49.5		J	P
7440-43-9	Cadmium	0.119	U		P
7440-47-3	Chromium	10.0 2.4	B	U	P
7439-97-6	Mercury	0.20 0.026	B	U	CV
7439-92-1	Lead	0.886	U		P
7782-49-2	Selenium	4.8	U		P

3/31/09

Color Before: YELLOW

Clarity Before: CLOUDY

Texture: _____

Color After: COLORLESS

Clarity After: CLEAR

Artifacts: _____

Comments: _____

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MMW-2

Contract: R0900760

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG NO.: 1117564.00002

Matrix (soil/water): WATER

Lab Sample ID: R0900760-009

Level (low/med): LOW

Date Received: 2/12/2009

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-22-4	Silver	0.829	U		P
7440-38-2	Arsenic	3.2	U		P
7440-39-3	Barium	25.9		J	P
7440-43-9	Cadmium	~~5.00-191~~	B	U	P
7440-47-3	Chromium	~~10.00-919~~	B	U	P
7439-97-6	Mercury	0.019	U		CV
7439-92-1	Lead	0.886	U		P
7782-49-2	Selenium	4.8	U		P

3/31/09

Color Before: COLORLESS

Clarity Before: CLEAR

Texture: _____

Color After: COLORLESS

Clarity After: CLEAR

Artifacts: _____

Comments: _____

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MMW-3

Contract: R0900760

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: 1117564.00002

Matrix (soil/water): WATER

Lab Sample ID: R0900760-006

Level (low/med): LOW

Date Received: 2/11/2009

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-22-4	Silver	0.829	U		P
7440-38-2	Arsenic	3.2	U		P
7440-39-3	Barium	54.4		J	P
7440-43-9	Cadmium	0.119	U		P
7440-47-3	Chromium	10.013	B	U	P
7439-97-6	Mercury	0.019	U		CV
7439-92-1	Lead	0.886	U		P
7782-49-2	Selenium	4.8	U		P

3/31/09

Color Before: YELLOW

Clarity Before: CLEAR

Texture: _____

Color After: COLORLESS

Clarity After: CLEAR

Artifacts: _____

Comments: _____

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MMW-4

Contract: R0900760

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG NO.: 1117564.00007

Matrix (soil/water): WATER

Lab Sample ID: R0900760-005

Level (low/med): LOW

Date Received: 2/11/2009

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-22-4	Silver	0.829	U		P
7440-38-2	Arsenic	3.2	U		P
7440-39-3	Barium	22.5		J	P
7440-43-9	Cadmium	5.0 0.293	B	U	P
7440-47-3	Chromium	10.0 2.3	B	U	P
7439-97-6	Mercury	0.20 0.023	B	U	CV
7439-92-1	Lead	0.886	U		P
7782-49-2	Selenium	4.8	U		P

3/31/09

Color Before: YELLOW

Clarity Before: CLOUDY

Texture: _____

Color After: COLORLESS

Clarity After: CLEAR

Artifacts: _____

Comments: _____

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MMW-6

Contract: R0900760

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: 1117564.00002

Matrix (soil/water): WATER

Lab Sample ID: R0900760-004

Level (low/med): LOW

Date Received: 2/11/2009

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-22-4	Silver	0.829	U		P
7440-38-2	Arsenic	3.2	U		P
7440-39-3	Barium	49.3		J	P
7440-43-9	Cadmium	0.119	U		P
7440-47-3	Chromium	10.0 ~~1.0~~	~~B~~	U	P
7439-97-6	Mercury	0.019	U		CV
7439-92-1	Lead	0.886	U		P
7782-49-2	Selenium	4.8	U		P

3/31/09

Color Before: COLORLESS

Clarity Before: CLEAR

Texture: _____

Color After: COLORLESS

Clarity After: CLEAR

Artifacts: _____

Comments: _____

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MMW-7

Contract: R0900760

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG NO.: 1117564.00002

Matrix (soil/water): WATER

Lab Sample ID: R0900760-010

Level (low/med): LOW

Date Received: 2/12/2009

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-22-4	Silver	0.829	U		P
7440-38-2	Arsenic	3.2	U		P
7440-39-3	Barium	69.8		J	P
7440-43-9	Cadmium	0.119	U		P
7440-47-3	Chromium	10.0 0.660	B	J	P
7439-97-6	Mercury	0.019	U		CV
7439-92-1	Lead	0.886	U		P
7782-49-2	Selenium	4.8	U		P

3/3/09

Color Before: COLORLESS

Clarity Before: CLEAR

Texture: _____

Color After: COLORLESS

Clarity After: CLEAR

Artifacts: _____

Comments: _____

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MMW-9

Contract: R0900760

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG NO.: 1117564.00002

Matrix (soil/water): WATER

Lab Sample ID: R0900760-012

Level (low/med): LOW

Date Received: 2/12/2009

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-22-4	Silver	0.829	U		P
7440-38-2	Arsenic	3.2	U		P
7440-39-3	Barium	38.4		I	P
7440-43-9	Cadmium	0.119	U		P
7440-47-3	Chromium	10.0 0.622	B	U	P
7439-97-6	Mercury	0.20 0.026	B	U	CV
7439-92-1	Lead	0.886	U		P
7782-49-2	Selenium	4.8	B		P

3/31/09

Color Before: COLORLESS

Clarity Before: CLEAR

Texture: _____

Color After: COLORLESS

Clarity After: CLEAR

Artifacts: _____

Comments: _____

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MMW-10

Contract: R0900760

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG NO.: 1117564.00002

Matrix (soil/water): WATER

Lab Sample ID: R0900760-011

Level (low/med): LOW

Date Received: 2/12/2009

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-22-4	Silver	0.829	U		P
7440-38-2	Arsenic	3.2	U		P
7440-39-3	Barium	32.9		J	P
7440-43-9	Cadmium	0.119	U		P
7440-47-3	Chromium	1000 ± 1	U	U	P
7439-97-6	Mercury	0.019	U		CV
7439-92-1	Lead	0.886	U		P
7782-49-2	Selenium	4.8	U		P

3/31/09

Color Before: COLORLESS

Clarity Before: CLEAR

Texture: _____

Color After: COLORLESS

Clarity After: CLEAR

Artifacts: _____

Comments: _____

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MP-1

Contract: R0900760

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG NO.: 1117564.00002

Matrix (soil/water): WATER

Lab Sample ID: R0900760-001

Level (low/med): LOW

Date Received: 2/11/2009

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-22-4	Silver	0.829	U		P
7440-38-2	Arsenic	3.2	U		P
7440-39-3	Barium	31.5		J	P
7440-43-9	Cadmium	5.0 0.246	B	U	P
7440-47-3	Chromium	10.0 0.821	B	U	P
7439-97-6	Mercury	0.019	U		CV
7439-92-1	Lead	0.886	U		P
7782-49-2	Selenium	8.7	B	1	P

3/31/09

Color Before: COLORLESS

Clarity Before: CLEAR

Texture: _____

Color After: COLORLESS

Clarity After: CLEAR

Artifacts: _____

Comments: _____

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

EQ-021109

Contract: R0900760

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG NO.: 1117564.00002

Matrix (soil/water): WATER

Lab Sample ID: R0900760-002

Level (low/med): LOW

Date Received: 2/11/2009

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-22-4	Silver	0.829	U		P
7440-38-2	Arsenic	3.2	U		P
7440-39-3	Barium	0.495	U		P
7440-43-9	Cadmium	0.119	U		P
7440-47-3	Chromium	0.484	84		P
7439-97-6	Mercury	0.019	U		CV
7439-92-1	Lead	0.886	U		P
7782-49-2	Selenium	4.8	U		P

3/3/09

Color Before: COLORLESS

Clarity Before: CLEAR

Texture: _____

Color After: COLORLESS

Clarity After: CLEAR

Artifacts: _____

Comments: _____

ATTACHMENT B

SUPPORT DOCUMENTATION

CASE NARRATIVE

Company: URS Corporation
Project: PACTIV – Macedon, NY
Submission #: R0900760

Water samples were collected on 2/11/09 - 2/12/09 and received at CAS on the same day as sampling in good conditions at cooler temperatures of 3 - 5 °C. A validation type data package has been provided.

VOLATILE ORGANICS - 8260

Ten water samples and two Trip Blanks were analyzed for the OLM 4.2 list of Volatile Organics by method 8260B from SW-846. Values detected between the MDL and PQL have been flagged with a "J" as estimated. Library Searches against the NBS/EPA library were conducted on all samples. The 20 largest peaks, within 10 % of the nearest Internal Standard, were searched. A summary of detected peaks is included following the Target data. Any analytes detected are quantitated based on the closest internal standard and are reported flagged with a "J" as estimated. The flag "N" on a TIC compound indicates presumptive evidence of a particular compound.

All Tuning criteria for BFB and Internal Standard Areas were within QC limits.

All the initial and continuing calibration criteria were met for all analytes.

All surrogate standard recoveries were within acceptance limits for all samples.

The Blank Spike (LCS) recoveries were all acceptable. The Matrix Spike/Matrix Spike Duplicate Recoveries from sample MMW-6 were all within QC limits. The RPD results were also all within QC limits.

The Method Blanks associated with these samples were free of contamination.

The Trip Blank collected 2/12/09 had a small estimated concentration of Acetone, however was not detected in the associated samples collected that day.

No other analytical or QC problems were encountered.

SEMIVOLATILE ORGANICS – 8270

Ten water samples were analyzed were analyzed for the OLM 4.2 list of Semivolatile Organics by method 8270C from SW-846. Values detected between the MDL and PQL have been flagged with a "J" as estimated. Library Searches against the NBS/EPA library were conducted on all samples. The 20 largest peaks, within 10 % of the nearest Internal Standard, were searched. A summary of detected peaks is included following the Target data. Any analytes detected are quantitated based on the closest internal standard and are reported flagged with a "J" as estimated. The flag "N" on a TIC compound indicates presumptive evidence of a particular compound.

All Tuning criteria for DFTPP and Internal Standard Areas were within QC limits.

All the initial and continuing calibration criteria were met for all analytes.

All surrogate standard recoveries were within acceptance limits for all samples.

The Blank Spike/Blank Spike Duplicate (LCS/LCSD) recoveries were acceptable, with the exception of 3-Nitroaniline and 3,3'-Dichlorobenzidine having some slightly low recoveries with batch of samples extracted on 2/17/09. Outlying recoveries have been flagged with an "**". These compounds were not detected in the associated samples. The Matrix Spike/Matrix Spike Duplicate Recoveries from sample MMW-6 were all within QC limits, with the exception of a slightly low MS recovery for 3-Nitroaniline. The RPD results were all within QC limits.

The Method Blanks associated with these samples were free of contamination.

No analytical or QC problems were encountered.

PCBS – 8082

One water sample was analyzed TCL PCBS by SW-846 method 8082.

All the initial and continuing calibration criteria were met for all analytes.

All surrogate standard recoveries were within acceptance limits for all samples.

The Blank Spike (LCS) recoveries were all acceptable.

The Method Blanks associated with these samples were free of contamination.

No analytical or QC problems were encountered.

METALS ANALYSIS

Ten water samples were analyzed for a the RCRA list of Metals using SW-846 methods 6010B/7471A.

All the initial and continuing calibration criteria were met for all analytes.

The Matrix Spike Recoveries from sample MMW-6 were all within QC limits of 75 – 125 %. The RPD results were all with QC limits. The Blank Spike (LCS) recoveries were all acceptable.

The Method Blanks associated with these samples are free of contamination.

No other analytical or QC problems were encountered.

Cooler Receipt And Preservation Check Form

PC/Client URS Submission Number 809.7600

Cooler received on 2/11/09 by: RJ COURIER: CAS UPS FEDEX VELOCITY CLIENT

1. Were custody seals on outside of cooler? YES NO
2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
3. Did all bottles arrive in good condition (unbroken)? YES NO
4. Did any VOA vials have significant* air bubbles? YES NO N/A
5. Were Ice or Ice packs present? YES NO
6. Where did the bottles originate? CAS/ROC, CLIENT
7. Temperature of cooler(s) upon receipt: 5° 3°

Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes

If No, Explain Below No No No No No

Date/Time Temperatures Taken: 2/11/09 @ 1820

Thermometer ID: 161 / IR GUN#2 / IR GUN#3 Reading From: Temp Blank / Sample Bottle

If out of Temperature, note packing/ice condition, Client Approval to Run Samples: _____

PC Secondary Review: _____

Cooler Breakdown: Date: 2/12/09 by: JP

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? YES NO
3. Were correct containers used for the tests indicated? YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies: _____

pH	Reagent	YES	NO	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH	Yes = All samples OK
≥12	NaOH									
≤2	HNO ₃	✓		BDB2689A	10/09					No = Samples were preserved at lab as listed
≤2	H ₂ SO ₄									
Residual Chlorine (-)	For TCN and Phenol			If present, contact PM to add ascorbic acid						
	Na ₂ S ₂ O ₃	-	-			*Not to be tested before analysis - pH tested and recorded by VOAs or GenChem on a separate worksheet				PM OK to Adjust:
	Zn Aceta	-	-							
	HCl	*	*	ES0A11	1/10					

Bottle lot numbers: 034505, 8-330-001, 107708-100, 120808-2WW

Other Comments: _____

PC Secondary Review: _____

*significant air bubbles are greater than 5-6 mm

[illegible]

URSF-075C/1 OF 1 (PCR/GCM)

Cooler Receipt And Preservation Check Form

 Project/Client URS Submission Number ROC-760

 Cooler received on 2-12-09 by: KE COURIER: CAS UPS FEDEX VELOCITY CLIENT

1. Were custody seals on outside of cooler? YES NO
2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
3. Did all bottles arrive in good condition (unbroken)? YES NO
4. Did any VOA vials have significant* air bubbles? YES NO N/A
5. Were Ice or Ice packs present? YES NO
6. Where did the bottles originate? CAS/ROC CLIENT
7. Temperature of cooler(s) upon receipt: 3° 4°

 Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes

If No, Explain Below No No No No No

 Date/Time Temperatures Taken: 2-12-09 @ 17:50

 Thermometer ID: 161 / IR GUN#2 / IR GUN#3 Reading From: Temp Blank / Sample Bottle

If out of Temperature, note packing/ice condition, Client Approval to Run Samples:

PC Secondary Review:

 Cooler Breakdown: Date: 2/13/09 by: RJ/KMC

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? YES NO
3. Were correct containers used for the tests indicated? YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies:

pH	Reagent	YES	NO	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO ₃	✓		BDB2689A	10/05				
≤2	H ₂ SO ₄								
Residual Chlorine (-)	For TCN and Phenol			If present, contact PM to add ascorbic acid					
	Na ₂ S ₂ O ₃	-	-			*Not to be tested before analysis – pH tested and recorded by VOAs or GenChem on a separate worksheet			
	Zn Aceta	-	-						
	HCl	*	*	ES0A11	1/10				

Yes = All samples OK

No = Samples were preserved at lab as listed

PM OK to Adjust:

 Bottle lot numbers: 034505, 8-330-001, 102708-100

Other Comments:

PC Secondary Review:

*significant air bubbles are greater than 5-6 mm

**VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)**

Lab Name: CASROCH Contract: URS
 Lab Code: 10145 Case No.: R9-760 SAS No.: _____ SDG No.: 1117564
 Lab File ID: Z7068.D BFB Injection Date: 2/23/2009
 Instrument ID: MS#8 BFB Injection Time: 11:31
 GC Column: DB624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	18.5
75	30.0 - 66.0% of mass 95	43.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	71.0
175	4.0 - 9.0% of mass 174	5.4 (7.6)1
176	93.0 - 101.0% of mass 174	69.6 (98.0)1
177	5.0 - 9.0% of mass 176	4.5 (6.5)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV1	CCV	Z7069.D	2/23/2009	12:14 ✓
02	LCS1	Q1235-01 1.0	Z7070.D	2/23/2009	12:42
03	METBLK1	Q1235-02 1.0	Z7072.D	2/23/2009	13:44
04	MP-1	R0900760-001 1.0	Z7075.D ✓	2/23/2009	15:18
05	EQ-021109	R0900760-002 1.0	Z7076.D ✓	2/23/2009	15:46
06	TB-021109	R0900760-003 1.0	Z7077.D ✓	2/23/2009	16:14
07	MMW-6	R0900760-004 1.0	Z7078.D ✓	2/23/2009	16:42
08	MMW-4	R0900760-005 1.0	Z7079.D ✓	2/23/2009	17:10
09	MMW-3	R0900760-006 1.0	Z7080.D ✓	2/23/2009	17:38
10	TB-021209	R0900760-007 1.0	Z7081.D ✓	2/23/2009	18:06
11	MMW-1	R0900760-008 1.0	Z7082.D ✓	2/23/2009	18:34
12	MMW-2	R0900760-009 1.0	Z7083.D ✓	2/23/2009	19:01
13	MMW-7	R0900760-010 1.0	Z7084.D ✓	2/23/2009	19:29
14	MMW-10	R0900760-011 1.0	Z7085.D	2/23/2009	19:57
15	MMW-9	R0900760-012 1.0	Z7086.D	2/23/2009	20:25
16	MMW-6 MS	Q1235-03 1.0	Z7091.D	2/23/2009	22:45
17	MMW-6 MSD	Q1235-04 1.0	Z7092.D	2/23/2009	23:13

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\MSVOA8\DATA\022309\Z7069.D
 Acq On : 23 Feb 2009 12:14 pm
 Sample : CCV
 Misc :
 MS Integration Params: RTEINT.P

Vial: 5
 Operator: D.ZIMPFER
 Inst : MS #8
 Multiplr: 1.00

Method : J:\ACQUDATA\MSVOA8\METHODS\W022009.M (RTE Integrator)
 Title : 8260voa
 Last Update : Mon Feb 23 11:53:27 2009
 Response via : Multiple Level Calibration

02/27

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	108	-0.02
2	Dichlorodifluoromethane	0.526	0.480	8.7	97	0.00
3	Freon 114	0.000	0.000	0.0	98	0.00
4 p	Chloromethane	0.699	0.679	2.9	109	-0.01
5 c	Vinyl Chloride	0.655	0.625	4.6	101	-0.01
6	Bromomethane	0.466	0.405	13.1	92	-0.01
7	Chloroethane	0.427	0.379	11.2	100	-0.01
8	FREON 21	0.948	0.865	8.8	99	-0.01
9	Trichlorofluoromethane	0.648	0.604	6.8	99	-0.01
10	Diethyl Ether	0.327	0.315	3.7	107	-0.01
11	FREON 123A	0.248	0.209	15.7	92	-0.01
12	FREON 123	0.496	0.443	10.7	97	-0.01
13	Acrolein	0.032	0.031	3.1	105	-0.02
14	FREON 113	0.195	0.183	6.2	100	-0.02
15 c	1,1-Dicethene	0.484	0.459	5.2	101	-0.02
16	Acetone	0.075	0.072	4.0	117	-0.02
17	2-Propanol	0.010	0.007	~~30.0#~~	83	-0.01
18	Iodomethane	0.111	0.103	7.2	107	-0.02
19	Carbon Disulfide	1.495	1.373	8.2	103	-0.01
20	Acetonitrile	0.015	0.013	13.3	110	-0.01
21	Allyl Chloride	0.264	0.266	-0.8	105	-0.01
22	Methyl Acetate	0.271	0.236	12.9	103	-0.01
23	Methylene Chloride	0.507	0.482	4.9	104	-0.01
24	TBA	0.016	0.012	~~25.0#~~	91	-0.02
25	Acrylonitrile	0.091	0.086	5.5	105	-0.02
26	Methyl-t-Butyl Ether	0.930	0.906	2.6	107	-0.02
27	trans-1,2-Dichloroethene	0.518	0.497	4.1	103	-0.01
28 p	1,1-Dicethane	0.905	0.866	4.3	103	-0.02
29	DIPE	1.830	0.004	~~99.8#~~	0#	-0.03
30	Vinyl Acetate	0.046	0.042	8.7	95	-0.01
31	2-Chloro-1,3-butadiene	0.679	0.658	3.1	104	-0.02
32	ETBE	1.215	0.012	~~99.0#~~	1#	0.10
33	2,2-Dichloropropane	0.666	0.647	2.9	106	-0.02
34	2-Butanone	0.121	0.108	10.7	103	-0.02
35	cis-1,2-Dichloroethene	0.550	0.517	6.0	104	-0.01
36	Propionitrile	0.030	0.025	16.7	96	-0.02
37	Methacrylonitrile	0.100	0.093	7.0	103	-0.02
38	Bromochloromethane	0.199	0.188	5.5	103	-0.01
39 c	Chloroform	0.846	0.803	5.1	105	-0.01
40	Tetrahydrofuran	0.070	0.067	4.3	103	-0.03
41	1,1,1-Trichloroethane	0.704	0.655	7.0	102	-0.02
42 I	1,4 - Difluorobenzene	1.000	1.000	0.0	107	-0.02
43 s	surr4,Dibrflmethane	0.309	0.309	0.0	105	-0.02
44	cyclohexane	0.494	0.432	12.6	97	-0.02
45	Carbontetrachloride	0.281	0.264	6.0	100	-0.02
46	1,1-Dichloropropene	0.392	0.365	6.9	101	-0.02
47	Iso-Butyl Alcohol	0.005	0.004	20.0	86	-0.02
48 s	surr1,1,2-Dicethane	0.252	0.247	2.0	104	-0.02
49	Benzene	1.105	1.059	4.2	103	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\MSVOA8\DATA\022309\Z7069.D

Vial: 5

Acq On : 23 Feb 2009 12:14 pm

Operator: D.ZIMPFER

Sample : CCV

Inst : MS #8

Misc :

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\MSVOA8\METHODS\W022009.M (RTE Integrator)

Title : 8260voa

Last Update : Mon Feb 23 11:53:27 2009

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50	1,2-Dichloroethane	0.253	0.247	2.4	104	-0.02
51	TAME	0.502	0.018	~~96.4#~~	4#	-0.08
52	N-Heptane	0.415	0.441	-6.3	117	-0.02
53	Trichloroethene	0.291	0.269	7.6	104	-0.02
54	methylcyclohexane	0.367	0.338	7.9	98	-0.02
55 c	1,2-Diclp propane	0.262	0.251	4.2	106	-0.02
56	Methyl Methacrylate	0.108	0.104	3.7	103	-0.02
57	1,4-Dioxane	0.001	0.000	44 ~~100.0#~~	72	-0.03
58	Dibromomethane	0.113	0.102	9.7	103	-0.02
59	Bromodichloromethane	0.304	0.297	2.3	107	-0.02
60	2-Nitropropane	0.037	0.032	52 13.5	99	-0.02
61	2-Chloroethylvinyl Ether	0.079	0.071	10.1	103	-0.02
62	cis-1,3-Dichloropropene	0.280	0.274	2.1	100	-0.02
63 I	d5 - Chlorobenzene	1.000	1.000	0.0	104	-0.03
64	4-Methyl-2-Pentanone	0.180	0.167	7.2	107	-0.02
65 c	Toluene	1.303	1.301	0.2	104	-0.02
66	trans-1,3-Dichloropropene	0.231	0.241	-4.3	99	-0.01
67	Ethyl Methacrylate	0.252	0.252	0.0	109	-0.02
68	1,1,2-Trichloroethane	0.155	0.156	-0.6	106	-0.03
69 s	surr3,Toluene-d8	1.356	1.415	-4.4	107	-0.02
70 s	surr2,bfb	0.484	0.510	-5.4	109	-0.02
71	Tetrachloroethene	0.306	0.308	-0.7	101	-0.03
72	2-Hexanone	0.115	0.105	8.7	104	-0.02
73	N-Butyl Acetate	0.308	0.307	0.3	108	-0.02
74	1,3-Dichloropropane	0.302	0.284	6.0	102	-0.02
75	Dibromochloromethane	0.196	0.199	-1.5	107	-0.02
76	1,2-Dibromoethane	0.086	0.058	32.6#	86	-0.02
77 p	Chlorobenzene	0.758	0.751	0.9	105	-0.02
78	1,1,1,2-Tetrachloroethane	0.219	0.219	0.0	104	-0.03
79 c	Ethylbenzene	1.295	1.369	-5.7	104	-0.02
80	(m+p)Xylene	0.447	0.486	-8.7	106	-0.02
81	o-Xylene	0.427	0.460	-7.7	107	-0.01
82	Styrene	0.709	0.769	-8.5	108	-0.02
83 I	d4 - Dichlorobenzene	1.000	1.000	0.0	111	-0.03
84 p	Bromoform	0.225	0.220	12.5 ~~2.2~~	~~101~~	-0.02
85	Isopropylbenzene	2.689	2.792	-3.8	109	-0.02
86	Cyclohexanone	0.035	0.032	20.3 ~~8.6~~	~~103~~	-0.02
87 p	1,1,2,2-Tetrachloroethane	0.436	0.426	2.3	102	-0.02
88	Trans-1,4-Dichloro-2-butene	0.032	0.022	10.3 ~~21.3#~~	~~101~~	-0.02
89	1,2,3-Trichloropropane	0.122	0.092	24.6#	98	-0.02
90	n-Propylbenzene	2.936	2.947	-0.4	114	-0.02
91	Bromobenzene	0.723	0.689	92 4.7	108	-0.03
92	4-Ethyltoluene	0.000	0.000	0.0	109	-0.02
93	1,3,5-Trimethylbenzene	2.504	2.324	7.2	109	-0.02
94	2-Chlorotoluene	1.955	1.982	-1.4	108	-0.02
95	4-Chlorotoluene	2.411	2.397	0.6	105	-0.02
96	tert-Butylbenzene	1.697	1.542	9.1	97	-0.02
97	1,2,4-Trimethylbenzene	2.379	2.193	7.8	109	-0.02

(#)= Out of Range

Z7069.D W022009.M

Fri Feb 27 13:30:19 2009

Page 2

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\MSVOA8\DATA\022309\Z7069.D
 Acq On : 23 Feb 2009 12:14 pm
 Sample : CCV
 Misc :

Vial: 5
 Operator: D.ZIMPFER
 Inst : MS #8
 Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\MSVOA8\METHODS\W022009.M (RTE Integrator)
 Title : 8260voa
 Last Update : Mon Feb 23 11:53:27 2009
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
98	sec-Butylbenzene	2.138	1.936	9.4	119	-0.02
99	p-Isopropyltoluene	1.980	1.748	11.7	123	-0.02
100	1,3-Dclbenz	1.156	1.155	0.1	110	-0.03
101	1,4-Dclbenz	1.134	1.106	2.5	114	-0.02
102	Benzyl Chloride	0.000	0.000	0.0	118	-0.02
103	n-Butylbenzene	2.034	1.720	12.5	~~118~~	-0.02
104	1,2-Dclbenz	1.016	0.985	3.1	111	-0.03
105	1,2-Dibromo-3-chloropropane	0.032	0.024	11.5	~~25.0# 109~~	-0.02
106	Nitrobenzene	0.000	0.000	0.0	123	-0.03
107	1,2,4-Tcbenzene	0.654	0.625	4.4	104	-0.02
108	Hexachlorobu	0.236	0.198	16.1	110	-0.03
109	Naphthalen	1.157	1.106	4.4	106	-0.03
110	1,2,3-Tclbenzene	0.574	0.525	8.5	105	-0.03

3/31/09

Initial Calibration - Detailed Report

11.11.09

2/24/09

Calibration ID: CAL868

Method ID: MJ164

8260B.WATERS - 2/20/09

Instrument ID: MS #8

Column Name: MS

Calibration Fit: AverageRF

FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
7212	J:\ACQUDATA\MSVOA8\DATA\022009\Z7052.D	02/20/2009 13:53	02/23/2009 11:08	02/24/2009 10:48
7213	J:\ACQUDATA\MSVOA8\DATA\022009\Z7053.D	02/20/2009 14:21	02/23/2009 09:54	02/24/2009 10:48
7214	J:\ACQUDATA\MSVOA8\DATA\022009\Z7054.D	02/20/2009 14:49	02/23/2009 10:06	02/24/2009 10:48
7215	J:\ACQUDATA\MSVOA8\DATA\022009\Z7055.D	02/20/2009 15:17	02/23/2009 11:04	02/24/2009 10:48
7216	J:\ACQUDATA\MSVOA8\DATA\022009\Z7056.D	02/20/2009 15:45	02/23/2009 10:19	02/24/2009 10:48
7217	J:\ACQUDATA\MSVOA8\DATA\022009\Z7057.D	02/20/2009 16:13	02/23/2009 10:21	02/24/2009 10:48
7218	J:\ACQUDATA\MSVOA8\DATA\022009\Z7058.D	02/20/2009 16:41	02/23/2009 10:27	02/24/2009 10:48
7219	J:\ACQUDATA\MSVOA8\DATA\022009\Z7059.D	02/20/2009 17:09	02/23/2009 10:31	02/24/2009 10:48

Parameter Name	FileID								Mean RF	%RSD
	7212	7213	7214	7215	7216	7217	7218	7219		
Dichlorodifluoromethane	0.557	0.501	0.443	0.556	0.556	0.532	0.530	0.529	0.526	7.3
Chloromethane	0.709	0.684	0.597	0.721	0.741	0.670	0.697	0.774	0.699	7.5
Vinyl Chloride	0.627	0.612	0.596	0.694	0.688	0.667	0.672	0.683	0.655	5.8
Bromomethane	0.456	0.475	0.416	0.427	0.452	0.473	0.505	0.526	0.466	8.0
Chloroethane	0.447	0.443	0.394	0.465	0.434	0.410	0.407	0.417	0.427	5.6
Dichlorofluoromethane (CFC 21)	0.907	0.907	0.902	0.992	1.023	0.943	0.922	0.985	0.948	4.9
Trichlorofluoromethane	0.650	0.603	0.613	0.678	0.688	0.656	0.649	0.650	0.648	4.5
Diethyl Ether	0.339	0.324	0.314	0.333	0.336	0.317	0.331	0.322	0.327	2.8
1,2-Dichloro-1,1,2-trifluoroethane (	0.254	0.240	0.263	0.251	0.259	0.246	0.238	0.236	0.248	5.0
2,2-Dichloro-1,1,1-trifluoroethane (	0.483	0.482	0.463	0.490	0.545	0.491	0.481	0.531	0.496	5.0
Acrolein		0.028	0.030	0.033	0.033	0.032	0.033	0.033	0.032	5.6
Trichlorotrifluoroethane	0.207	0.197	0.178	0.205	0.195	0.198	0.191	0.192	0.195	4.6
1,1-Dichloroethene	0.454	0.501	0.438	0.495	0.513	0.489	0.488	0.495	0.484	5.2
Acetone				0.086	0.070	0.066	0.075	0.076	0.075	10.0
2-Propanol			0.010	0.010	0.009	0.009	0.010	0.011	0.010	6.4
Iodomethane (Methyl Iodide)			0.105	0.112	0.111	0.103	0.115	0.120	0.111	5.5
Carbon Disulfide	1.605	1.492	1.398	1.531	1.512	1.446	1.445	1.527	1.495	4.3
Acetonitrile			0.017	0.014	0.017	0.013	0.015	0.014	0.015	11.2
Allyl Chloride	0.216	0.232	0.254	0.289	0.283	0.274	0.285	0.278	0.264	10.3
Methyl Acetate	0.334	0.228	0.298	0.289	0.274	0.246	0.245	0.253	0.271	12.9
Methylene Chloride	0.481	0.507	0.493	0.519	0.533	0.502	0.508	0.516	0.507	3.2
tert-Butyl Alcohol		0.017	0.015	0.016	0.015	0.014	0.017	0.016	0.016	6.3
Acrylonitrile	0.094	0.083	0.088	0.094	0.093	0.089	0.093	0.094	0.091	4.5
Methyl tert-Butyl Ether	0.915	0.910	0.900	0.970	0.961	0.916	0.944	0.926	0.930	2.7
trans-1,2-Dichloroethene	0.508	0.478	0.488	0.542	0.540	0.522	0.525	0.539	0.518	4.7
1,1-Dichloroethane	0.873	0.825	0.871	0.956	0.954	0.905	0.918	0.940	0.905	5.1
Diisopropyl Ether	1.727	1.779	1.742	1.893	1.837	1.833	1.899	1.930	1.830	4.1
Vinyl Acetate		0.040	0.038	0.051	0.051	0.048	0.047	0.050	0.046	11.7
2-Chloro-1,3-butadiene	0.640	0.681	0.632	0.709	0.698	0.684	0.674	0.716	0.679	4.5
ETBE	1.157	1.105	1.143	1.266	1.221	1.235	1.277	1.315	1.215	6.0
2,2-Dichloropropane	0.702	0.651	0.627	0.698	0.685	0.661	0.657	0.646	0.666	4.0
2-Butanone (MEK)			0.142	0.116	0.116	0.114	0.121	0.120	0.121	8.7
cis-1,2-Dichloroethene	0.597	0.520	0.502	0.569	0.564	0.537	0.545	0.568	0.550	5.5
Propionitrile	0.034	0.031	0.029	0.029	0.028	0.028	0.029	0.029	0.030	7.1
Methacrylonitrile	0.073	0.103	0.100	0.113	0.104	0.098	0.104	0.103	0.100	11.1
Bromochloromethane	0.198	0.197	0.189	0.210	0.211	0.197	0.198	0.194	0.199	3.8
Chloroform	0.841	0.838	0.810	0.894	0.877	0.828	0.833	0.851	0.846	3.2
Tetrahydrofuran			0.067	0.070	0.070	0.070	0.073	0.072	0.070	3.2

Initial Calibration - Detailed Report

Calibration ID: CAL868

Method ID: MJ164

82603.WATERS - 2/20/09

Instrument ID: MS #8

Column Name: MS

Calibration Fit: AverageRF

Parameter Name	FileID								Mean RF	%RSD
	7212	7213	7214	7215	7216	7217	7218	7219		
1,1,1-Trichloroethane (TCA)	0.767	0.684	0.646	0.718	0.733	0.695	0.692	0.697	0.704	5.1
Dibromofluoromethane			0.265	0.313	0.318	0.313	0.322	0.326	0.309	7.3
Cyclohexane	0.549	0.495	0.429	0.474	0.499	0.476	0.487	0.538	0.494	7.6
Carbon Tetrachloride	0.282	0.277	0.270	0.290	0.287	0.280	0.281	0.283	0.281	2.2
1,1-Dichloropropene	0.423	0.380	0.367	0.396	0.397	0.384	0.389	0.397	0.392	4.1
Isobutyl Alcohol			0.005	0.005	0.005	0.004	0.005	0.005	0.005	7.1
1,2-Dichloroethane-d4			0.222	0.257	0.265	0.252	0.259	0.255	0.252	6.0
Benzene	1.143	1.055	1.021	1.141	1.113	1.094	1.129	1.142	1.105	4.1
1,2-Dichloroethane (EDC)	0.239	0.260	0.251	0.263	0.261	0.252	0.250	0.249	0.253	3.1
TAME	0.434	0.476	0.463	0.504	0.503	0.517	0.537	0.581	0.502	9.1
n-Heptane				0.378	0.377	0.402	0.433	0.487	0.415	11.0
Trichloroethene (TCE)	0.324	0.297	0.271	0.303	0.287	0.277	0.280	0.288	0.291	5.8
Methylcyclohexane	0.372	0.330	0.323	0.361	0.374	0.369	0.382	0.423	0.367	8.5
1,2-Dichloropropane	0.251	0.271	0.242	0.276	0.263	0.254	0.264	0.274	0.262	4.6
Methyl Methacrylate	0.097	0.112	0.097	0.111	0.115	0.108	0.110	0.112	0.108	6.6
1,4-Dioxane			0.001	0.001	0.001	0.001	0.001	0.001	0.001	14.6
Dibromomethane	0.128	0.109	0.116	0.114	0.113	0.106	0.110	0.111	0.113	6.1
Bromodichloromethane	0.309	0.292	0.286	0.311	0.310	0.296	0.309	0.316	0.304	3.5
2-Nitropropane		0.041	0.029	0.035	0.033	0.034	0.040	0.043	0.037	13.5
2-Chloroethyl Vinyl Ether	0.085	0.090	0.079	0.080	0.078	0.074	0.071	0.078	0.079	7.6
1,1-Dichloropropene	0.268	0.250	0.236	0.263	0.272	0.294	0.317	0.339	0.280	12.3
4-Methyl-2-pentanone (MIBK)		0.203	0.188	0.160	0.176	0.163	0.178	0.189	0.180	8.5
Toluene	1.292	1.206	1.222	1.364	1.316	1.309	1.345	1.367	1.303	4.7
trans-1,3-Dichloropropene	0.170	0.213	0.181	0.216	0.220	0.254	0.284	0.307	0.231	20.7#
Ethyl Methacrylate	0.254	0.246	0.240	0.248	0.244	0.241	0.266	0.272	0.252	4.7
1,1,2-Trichloroethane	0.140	0.150	0.142	0.168	0.161	0.155	0.162	0.164	0.155	6.6
Toluene-d8			1.117	1.364	1.380	1.381	1.453	1.444	1.356	9.1
4-Bromofluorobenzene			0.399	0.480	0.485	0.490	0.522	0.527	0.484	9.5
Tetrachloroethene (PCE)	0.266	0.275	0.289	0.330	0.313	0.318	0.322	0.330	0.306	8.2
2-Hexanone		0.134	0.115	0.113	0.097	0.106	0.115	0.123	0.115	10.2
n-Butyl Acetate	0.269	0.364	0.289	0.306	0.288	0.298	0.314	0.335	0.308	9.7
1,3-Dichloropropane	0.312	0.273	0.273	0.325	0.307	0.292	0.307	0.325	0.302	6.9
Dibromochloromethane	0.194	0.176	0.171	0.205	0.197	0.194	0.211	0.217	0.196	8.1
1,2-Dibromoethane (EDB)	0.105	0.085	0.081	0.082	0.077	0.070	0.083	0.105	0.086	14.7
Chlorobenzene	0.759	0.735	0.721	0.784	0.747	0.746	0.771	0.798	0.758	3.4
1,1,1,2-Tetrachloroethane	0.203	0.214	0.198	0.227	0.220	0.220	0.230	0.241	0.219	6.4
Ethylbenzene	1.214	1.102	1.119	1.353	1.300	1.376	1.428	1.468	1.295	10.6
m,p-Xylenes	0.384	0.407	0.370	0.451	0.430	0.478	0.516	0.544	0.447	13.9
o-Xylene	0.386	0.379	0.360	0.431	0.416	0.450	0.482	0.509	0.427	12.2
Styrene	0.643	0.591	0.614	0.725	0.710	0.746	0.809	0.836	0.709	12.5
Bromoform		0.190	0.144	0.248	0.244	0.243	0.249	0.259	0.225	18.7#
Isopropylbenzene	2.325	2.372	2.261	2.785	2.789	2.859	3.009	3.110	2.689	12.1
Cyclohexanone		0.031	0.031	0.029	0.031	0.035	0.042	0.044	0.035	17.0#
1,1,2,2-Tetrachloroethane	0.361	0.383	0.412	0.449	0.478	0.464	0.475	0.471	0.436	10.3
trans-1,4-Dichloro-2-butene			0.039	0.040	0.032	0.024	0.024		0.032	24.7#
1,2-Dichloropropane	0.122	0.149	0.140	0.127	0.125	0.105	0.104	0.107	0.122	13.5
n-Propylbenzene	2.809	2.824	2.568	2.929	2.749	2.872	3.196	3.542	2.936	10.3
Bromobenzene	0.740	0.730	0.698	0.777	0.756	0.709	0.689	0.688	0.723	4.5
1,3,5-Trimethylbenzene	2.499	2.510	2.447	2.855	2.521	2.378	2.371	2.448	2.504	6.1
2-Chlorotoluene	1.671	1.814	1.805	2.106	1.956	2.045	2.063	2.177	1.955	9.0

Initial Calibration - Detailed Report

Calibration ID: CAL868

Method ID: MJ164

8260B.WATERS - 2/20/09

Instrument ID: MS #8

Column Name: MS

Calibration Fit: AverageRF

Parameter Name	FileID								Mean RF	%RSD
	7212	7213	7214	7215	7216	7217	7218	7219		
4-Chlorotoluene	2.046	2.328	2.252	2.467	2.395	2.544	2.610	2.647	2.411	8.3
tert-Butylbenzene	1.751	1.609	1.805	1.751	1.598	1.762	1.595	1.704	1.697	5.0
1,2,4-Trimethylbenzene	2.461	2.373	2.455	2.751	2.539	2.246	2.089	2.118	2.379	9.4
sec-Butylbenzene	2.444	2.285	2.144	2.210	1.981	1.802	1.989	2.246	2.138	9.6
4-Isopropyltoluene	2.325	2.138	2.135	2.292	1.963	1.580	1.631	1.777	1.980	14.6
1,3-Dichlorobenzene	1.046	1.073	1.087	1.228	1.180	1.166	1.218	1.251	1.156	6.7
1,4-Dichlorobenzene	1.105	1.215	0.939	1.226	1.141	1.077	1.156	1.212	1.134	8.4
n-Butylbenzene	2.241	2.457	2.239	2.546	2.203	1.619	1.482	1.483	2.034	21.5#
1,2-Dichlorobenzene	0.996	1.025	0.960	1.035	1.029	0.985	1.036	1.061	1.016	3.3
1,2-Dibromo-3-chloropropane (DBP)		0.043	0.043	0.039	0.034	0.024	0.019	0.020	0.032	33.2#
1,2,4-Trichlorobenzene	0.656	0.601	0.663	0.725	0.662	0.666	0.647	0.609	0.654	5.8
Hexachlorobutadiene	0.247	0.256	0.282	0.261	0.236	0.200	0.197	0.208	0.236	13.2
Naphthalene	1.100	1.132	1.147	1.304	1.252	1.157	1.148	1.014	1.157	7.7
1,2,3-Trichlorobenzene	0.602	0.580	0.552	0.633	0.624	0.555	0.537	0.509	0.574	7.6

RSD Not Applicable. Compound being quantitated from curve. Included in Average RF summary for Average %RSD calculation.

3/31/09

Initial Calibration - Detailed Report

Calibration ID: CAL868

Method ID: MJ164

8260B WATERS - 2/20/09

Instrument ID: MS #8

Column Name: MS

Calibration Fit: Linear

FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
7212	J:\ACQUDATA\MSVOA8\DATA\022009\Z7052.D	02/20/2009 13:53	02/23/2009 11:08	02/24/2009 10:48
7213	J:\ACQUDATA\MSVOA8\DATA\022009\Z7053.D	02/20/2009 14:21	02/23/2009 09:54	02/24/2009 10:48
7214	J:\ACQUDATA\MSVOA8\DATA\022009\Z7054.D	02/20/2009 14:49	02/23/2009 10:06	02/24/2009 10:48
7215	J:\ACQUDATA\MSVOA8\DATA\022009\Z7055.D	02/20/2009 15:17	02/23/2009 11:04	02/24/2009 10:48
7216	J:\ACQUDATA\MSVOA8\DATA\022009\Z7056.D	02/20/2009 15:45	02/23/2009 10:19	02/24/2009 10:48
7217	J:\ACQUDATA\MSVOA8\DATA\022009\Z7057.D	02/20/2009 16:13	02/23/2009 10:21	02/24/2009 10:48
7218	J:\ACQUDATA\MSVOA8\DATA\022009\Z7058.D	02/20/2009 16:41	02/23/2009 10:27	02/24/2009 10:48
7219	J:\ACQUDATA\MSVOA8\DATA\022009\Z7059.D	02/20/2009 17:09	02/23/2009 10:31	02/24/2009 10:48

Parameter Name	CoefX2	CoefX	Y-intercept	COD	Mean RF
trans-1,3-Dichloropropene		0.305	-0.015	0.9977	0.231
Bromoform		0.258	-0.006	0.9996	0.225
Cyclohexanone		0.044	-0.051	0.9978	0.035
trans-1,4-Dichloro-2-butene		0.023	0.001	0.9994	0.032
n-Butylbenzene		1.467	0.070	0.9992	2.034
1,2-Dibromo-3-chloropropane (DBP)		0.020	0.002	0.9959	0.032

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: URS Corporation
 Project: Pactiv-Macedon/1117564.00002
 Sample Matrix: Water
 Sample Name: EQ-021109
 Lab Code: R0900760-002

Service Request: R0900760
 Date Collected: 2/11/09 1230
 Date Received: 2/11/09

Units: µg/L
 Basis: NA

Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270C
 Prep Method: EPA 3510C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Benzo(k)fluoranthene	9.5	U	9.5	0.36	1	2/13/09	2/18/09 20:13	82201	143468	
Biphenyl	9.5	U	9.5	0.85	1	2/13/09	2/18/09 20:13	82201	143468	
2,2'-Oxybis(1-chloropropane)	9.5	U	9.5	0.77	1	2/13/09	2/18/09 20:13	82201	143468	
Bis(2-chloroethoxy)methane	9.5	U	9.5	0.96	1	2/13/09	2/18/09 20:13	82201	143468	
Bis(2-chloroethyl) Ether	9.5	U	9.5	0.67	1	2/13/09	2/18/09 20:13	82201	143468	
Bis(2-ethylhexyl) Phthalate	9.5	U	9.5	0.38	1	2/13/09	2/18/09 20:13	82201	143468	
Butyl Benzyl Phthalate	9.5	U	9.5	0.68	1	2/13/09	2/18/09 20:13	82201	143468	
Caprolactam	9.5	U	9.5	0.77	1	2/13/09	2/18/09 20:13	82201	143468	
Carbazole	9.5	U	9.5	0.53	1	2/13/09	2/18/09 20:13	82201	143468	
Chrysene	9.5	U	9.5	0.64	1	2/13/09	2/18/09 20:13	82201	143468	
Di-n-butyl Phthalate	1.3	J	9.5	0.70	1	2/13/09	2/18/09 20:13	82201	143468	
Di-n-octyl Phthalate	9.5	U	9.5	0.85	1	2/13/09	2/18/09 20:13	82201	143468	
Dibenz(a,h)anthracene	9.5	U	9.5	0.34	1	2/13/09	2/18/09 20:13	82201	143468	
Dibenzofuran	9.5	U	9.5	0.52	1	2/13/09	2/18/09 20:13	82201	143468	
Diethyl Phthalate	9.5	U	9.5	0.58	1	2/13/09	2/18/09 20:13	82201	143468	
Dimethyl Phthalate	9.5	U	9.5	0.74	1	2/13/09	2/18/09 20:13	82201	143468	
Fluoranthene	9.5	U	9.5	0.48	1	2/13/09	2/18/09 20:13	82201	143468	
Fluorene	9.5	U	9.5	0.58	1	2/13/09	2/18/09 20:13	82201	143468	
Hexachlorobenzene	9.5	U	9.5	0.70	1	2/13/09	2/18/09 20:13	82201	143468	
Hexachlorobutadiene	9.5	U	9.5	0.64	1	2/13/09	2/18/09 20:13	82201	143468	
Hexachlorocyclopentadiene	9.5	U	9.5	0.56	1	2/13/09	2/18/09 20:13	82201	143468	
Hexachloroethane	9.5	U	9.5	0.74	1	2/13/09	2/18/09 20:13	82201	143468	
Indeno(1,2,3-cd)pyrene	9.5	U	9.5	0.48	1	2/13/09	2/18/09 20:13	82201	143468	
Isophorone	9.5	U	9.5	0.60	1	2/13/09	2/18/09 20:13	82201	143468	
N-Nitrosodi-n-propylamine	9.5	U	9.5	0.52	1	2/13/09	2/18/09 20:13	82201	143468	
N-Nitrosodiphenylamine	9.5	U	9.5	0.50	1	2/13/09	2/18/09 20:13	82201	143468	
Naphthalene	9.5	U	9.5	0.80	1	2/13/09	2/18/09 20:13	82201	143468	
Nitrobenzene	9.5	U	9.5	0.63	1	2/13/09	2/18/09 20:13	82201	143468	
Pentachlorophenol (PCP)	48	U	48	17	1	2/13/09	2/18/09 20:13	82201	143468	
Phenanthrene	9.5	U	9.5	0.37	1	2/13/09	2/18/09 20:13	82201	143468	
Phenol	9.5	U	9.5	0.63	1	2/13/09	2/18/09 20:13	82201	143468	
Pyrene	9.5	U	9.5	0.48	1	2/13/09	2/18/09 20:13	82201	143468	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: URS Corporation
 Project: Pactiv-Macedon/1117564.00002
 Sample Matrix: Water

Service Request: R0900760

Date Analyzed: 2/19/09

Lab Control Sample Summary
 Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270C
 Prep Method: EPA 3510C

Units: µg/L

Basis: NA

Extraction Lot: 82289

Analyte Name	Lab Control Sample RQ0900999-02			Duplicate Lab Control Sample RQ0900999-03			% Rec Limits	RPD	RPD Limit
	Result	Expected	% Rec	Result	Expected	% Rec			
1,2,4-Trichlorobenzene	55.4	100	55	51.4	100	51	17 - 99	8	30
1,2-Dichlorobenzene	56.4	100	56	52.6	100	53	23 - 130	7	30
1,3-Dichlorobenzene	54.0	100	54	51.0	100	51	17 - 130	6	30
1,4-Dichlorobenzene	54.8	100	55	51.2	100	51	16 - 83	7	30
2,4,5-Trichlorophenol	93.7	100	94	95.7	100	96	40 - 110	2	30
2,4,6-Trichlorophenol	92.5	100	92	93.7	100	94	40 - 110	1	30
2,4-Dichlorophenol	87.9	100	88	85.9	100	86	66 - 104	2	30
2,4-Dimethylphenol	58.4	100	58	58.7	100	59	31 - 92	0	30
2,4-Dinitrophenol	87.3	100	87	87.4	100	87	21 - 123	0	30
2,4-Dinitrotoluene	96.8	100	97	93.9	100	94	68 - 113	3	30
2,6-Dinitrotoluene	94.1	100	94	92.4	100	92	70 - 130	2	30
2-Chloronaphthalene	71.7	100	72	70.9	100	71	52 - 111	1	30
2-Naphthol	82.1	100	82	81.4	100	81	16 - 116	1	30
2-Methylnaphthalene	64.2	100	64	60.4	100	60	42 - 107	6	30
2-Methylphenol	73.5	100	74	73.5	100	74	16 - 102	0	30
2-Nitroaniline	94.5	100	95	91.4	100	91	63 - 130	3	30
2-Nitrophenol	88.7	100	89	88.2	100	88	63 - 130	1	30
3,3'-Dichlorobenzidine	48.4	100	48	45.9	100	46 *	48 - 119	5	30
3-Nitroaniline	53.0	100	53 *	54.2	100	54 *	56 - 111	2	30
4,6-Dinitro-2-methylphenol	95.2	100	95	97.4	100	97	47 - 130	2	30
4-Bromophenyl Phenyl Ether	93.5	100	94	95.6	100	96	64 - 130	2	30
4-Chloro-3-methylphenol	90.1	100	90	89.5	100	90	21 - 131	1	30
4-Chloroaniline	39.1	100	39	41.8	100	42	39 - 107	7	30
4-Chlorophenyl Phenyl Ether	85.2	100	85	85.0	100	85	55 - 106	0	30
4-Methylphenol	137	200	69	142	200	71	26 - 99	3	30
4-Nitroaniline	84.5	100	84	81.0	100	81	70 - 130	4	30
4-Nitrophenol	55.9	100	56	49.5	100	50	11 - 130	12	30
Acenaphthene	83.8	100	84	83.2	100	83	41 - 121	1	30
Acenaphthylene	82.5	100	83	82.8	100	83	36 - 125	0	30
Anthracene	91.8	100	92	90.1	100	90	73 - 130	2	30
Benz(a)anthracene	95.7	100	96	92.0	100	92	71 - 130	4	30
Benzo(a)pyrene	76.2	100	76	74.9	100	75	61 - 119	2	30
Benzo(b)fluoranthene	105	100	105	103	100	103	68 - 130	1	30
Benzo(g,h,i)perylene	102	100	102	100	100	100	50 - 125	2	30
Benzo(k)fluoranthene	101	100	101	95.3	100	95	68 - 113	5	30
Benzyl Alcohol	74.3	100	74	75.7	100	76	31 - 109	2	30
2,2'-Oxybis(1-chloropropane)	86.0	100	86	84.2	100	84	10 - 140	2	30

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: URS Corporation
 Project: Pactiv-Macedon/1117564.00002
 Sample Matrix: Water

Service Request: R0900760
 Date Analyzed: 2/19/09

Lab Control Sample Summary
 Semivolatile Organic Compounds by GC/MS

Analytical Method: 8270C
 Prep Method: EPA 3510C

Units: µg/L
 Basis: NA

Extraction Lot: 82289

Analyte Name	Lab Control Sample RQ0900999-02			Duplicate Lab Control Sample RQ0900999-03			% Rec Limits	RPD	RPD Limit
	Result	Expected	% Rec	Result	Expected	% Rec			
Bis(2-chloroethoxy)methane	89.1	100	89	86.5	100	86	61 - 130	3	30
Bis(2-chloroethyl) Ether	80.7	100	81	81.0	100	81	55 - 130	0	30
Bis(2-ethylhexyl) Phthalate	99.0	100	99	94.2	100	94	70 - 130	5	30
Butyl Benzyl Phthalate	97.3	100	97	92.3	100	92	22 - 141	5	30
Carbazole	95.6	100	96	94.1	100	94	70 - 130	2	30
Chrysene	95.3	100	95	92.3	100	92	61 - 119	3	30
Di-n-butyl Phthalate	99.1	100	99	95.3	100	95	46 - 130	4	30
Di-n-octyl Phthalate	98.9	100	99	94.7	100	95	65 - 130	4	30
Dibenz(a,h)anthracene	99.1	100	99	97.3	100	97	70 - 130	2	30
Dibenzofuran	83.7	100	84	82.0	100	82	70 - 130	2	30
Diethyl Phthalate	94.8	100	95	91.2	100	91	31 - 124	4	30
Dimethyl Phthalate	94.5	100	94	92.8	100	93	10 - 121	2	30
Fluoranthene	93.5	100	93	91.4	100	91	75 - 130	2	30
Fluorene	87.5	100	87	87.4	100	87	60 - 111	0	30
Hexachlorobenzene	92.1	100	92	91.6	100	92	58 - 130	0	30
Hexachlorobutadiene	53.2	100	53	49.5	100	50	13 - 130	7	30
Hexachlorocyclopentadiene	31.7	100	32	32.9	100	33	10 - 130	4	30
Hexachloroethane	48.5	100	48	46.5	100	47	11 - 130	4	30
Indeno(1,2,3-cd)pyrene	98.7	100	99	96.6	100	97	70 - 130	2	30
Isophorone	89.7	100	90	88.8	100	89	58 - 130	1	30
N-Nitrosodi-n-propylamine	76.7	100	77	77.1	100	77	25 - 120	0	30
N-Nitrosodimethylamine	51.9	100	52	50.8	100	51	27 - 130	2	30
N-Nitrosodiphenylamine	96.5	100	97	96.8	100	97	70 - 130	0	30
Naphthalene	63.4	100	63	59.1	100	59	26 - 109	7	30
Nitrobenzene	83.2	100	83	81.5	100	82	49 - 130	2	30
Pentachlorophenol (PCP)	88.6	100	89	85.7	100	86	16 - 131	3	30
Phenanthrene	97.5	100	97	95.9	100	96	68 - 130	2	30
Phenol	43.5	100	44	44.0	100	44	10 - 65	1	30
Pyrene	102	100	102	98.4	100	98	60 - 130	4	30

Comments: _____

**SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)**

Lab Name: CAS-ROCH Contract: URS
 Lab Code: 10145 Case No.: R0900760 SAS No.: _____ SDG No.: 1117564.00002
 Lab File ID: BY659.D DFTPP Injection Date: 2/18/09
 Instrument ID: 5973-A DFTPP Injection Time: 9:19

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	31.3
68	Less than 2.0% of mass 69	0.5 (1.6)1
69	Mass 69 Relative abundance	33.2
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	48.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	22.3
365	Greater than 1.0% of mass 198	2.4
441	Present, but less than mass 443	8.0
442	40.0 - 100.0% of mass 198	47.3
443	17.0 - 23.0% of mass 442	9.3 (19.6)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD180	CALIBRATION CHECK	BY660.D ✓	2/18/09	9:51
02	SBLK1	RQ0900958-01 1.0	BY661.D	2/18/09	10:32
03	SBLK1MS	RQ0900958-02 1.0	BY662.D	2/18/09	11:13
04	SBLK1MSD	RQ0900958-03 1.0	BY663.D ✓	2/18/09	11:55
05	MMW-3	R0900760-006 1.0	BY671.D ✓	2/18/09	16:45
06	MMW-4	R0900760-005 1.0	BY672.D ✓	2/18/09	17:27
07	MMW-6	R0900760-004 1.0	BY673.D ✓	2/18/09	18:08
08	MMW-6MS	RQ0900958-04 1.0	BY674.D	2/18/09	18:50
09	MMW-6MSD	RQ0900958-05 1.0	BY675.D	2/18/09	19:31
10	EQ-021109	R0900760-002 1.0	BY676.D ✓	2/18/09	20:13
11	MP-1	R0900760-001 1.0	BY677.D ✓	2/18/09	20:54

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973A\DATA\021809\BY660.D Vial: 1
 Acq On : 18 Feb 2009 9:51 am #27.40.52 Operator: Z.Miao
 Sample : CALIBRATION CHECK Inst : 5973-A
 Misc : 80 PPM STD 8270/625 LR: Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : J:\ACQUDATA\5973A\METHODS\82700210.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Feb 10 17:23:14 2009
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR d4-1,4-Dichlorobenzene	1.000	1.000	0.0	96	0.00
2	TM Pyridine	0.812	0.842	-3.7	100	0.00
3	TM N-Nitrosodimethylamine	0.443	0.460	-3.8	99	0.00
4	S SURR1,2-FLUOROPHENOL	0.979	1.069	-9.2	103	0.01
5	TM Benzaldehyde	0.523	0.359	31.4#	59	0.00
6	TM Aniline	1.598	1.509	5.6	88	0.00
7	S SURR2, PHENOL-D6	1.281	1.287	-0.5	95	0.02
8	TMC Phenol	1.373	1.470	-7.1	102	0.01
9	TM bis(2-Clethyl) Ether	1.105	1.069	3.3	94	0.00
10	TM 2-Chlorophenol	1.331	1.350	-1.4	96	0.00
11	TM 1,3-Diclbzene	1.613	1.669	-3.5	99	0.00
12	TMC 1,4-Dichlorobenzene	1.670	1.688	-1.1	97	0.00
13	TM 1,2-Diclbzene	1.583	1.600	-1.1	95	0.00
14	TM Benzyl Alcohol	0.928	0.915	1.4	92	0.00
15	TM 2,2'-oxybis(1-Chloropropane	1.081	1.023	5.4	90	0.00
16	TM 2-Methylphenol	1.138	1.158	-1.8	96	0.01
17	TM Acetophenone	1.793	1.736	3.2	91	0.00
18	TMP N-Nitroso-Di-n-propylamine	0.821	0.763	7.1	89	0.00
19	TM Hexachloroethane	0.642	0.665	-3.6	100	0.00
20	TM 4-Methylphenol	1.208	1.188	1.7	94	0.01
21	T 1-Methyl-2-pyrrolidinone	0.759	0.734	3.3	88	0.00
22	IR d8-Naphthalene	1.000	1.000	0.0	91	0.00
23	S SURR4,NITROBENZENE-D5	0.295	0.301	-2.0	91	0.00
24	TM Nitrobenzene	0.309	0.312	-1.0	92	0.00
25	TM Isophorone	0.559	0.552	1.3	88	0.00
26	TCM 2-Nitrophenol	0.204	0.207	-1.5	89	0.00
27	TM Benzoic Acid	0.181	0.148	18.2	77	0.00
28	TM 2,4-Dimethylphenol	0.321	0.326	-1.6	92	0.00
29	TM bis(-2-Chloroethoxy)Methane	0.353	0.353	0.0	88	0.00
30	TCM 2,4-Dichlorophenol	0.322	0.321	0.3	88	0.00
31	TM 1,2,4-Trichlorobenzene	0.367	0.376	-2.5	92	0.00
32	TM Naphthalene	1.040	1.064	-2.3	93	0.00
33	TM 4-Chloroaniline	0.418	0.410	1.9	87	0.00
34	TCM Hexachlorobutadiene	0.198	0.202	-2.0	91	0.00
35	TMC 4-Chloro-3-methylphenol	0.273	0.269	1.5	88	0.02
36	TM Caprolactam	0.107	0.105	1.9	83	0.00
37	TM 2-Methylnaphthalene	0.737	0.731	0.8	88	0.00
38	TM 1-Methylnaphthalene	0.698	0.682	2.3	88	0.00
39	IR d10-Acenaphthene	1.000	1.000	0.0	86	0.00

(#) = Out of Range
 BY660.D 82700210.M

Wed Feb 18 10:36:55 2009

Page 1

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Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973A\DATA\021809\BY660.D
 Acq On : 18 Feb 2009 9:51 am
 Sample : CALIBRATION CHECK
 Misc : 80 PPM STD 8270/625
 MS Integration Params: RTEINT.P

Vial: 1
 Operator: Z.Miao
 Inst : 5973-A
 Multiplr: 1.00

Method : J:\ACQUDATA\5973A\METHODS\82700210.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Feb 10 17:23:14 2009
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40	TPM Hexachlorocyclopentadiene	0.275	0.254	7.6	74	0.00
41	TCM 2,4,6-Trichlorophenol	0.354	0.362	-2.3	86	0.00
42	TM 2,4,5-Trichlorophenol	0.370	0.383	-3.5	87	0.00
43	S SURR5,2-FLUOROBIPHENYL	1.257	1.287	-2.4	88	0.00
44	TM 1,1'-Biphenyl	1.502	1.545	-2.9	88	0.00
45	TM 2-Chloronaphthalene	1.116	1.145	-2.6	89	0.00
46	TM 2-Nitroaniline	0.246	0.242	1.6	85	0.00
47	TM Acenaphthylene	1.758	1.781	-1.3	86	0.00
48	TM Dimethyl phthalate	1.266	1.253	1.0	83	0.00
49	TM 2,6-Dinitrotoluene	0.306	0.312	-2.0	86	0.00
50	TMC Acenaphthene	1.115	1.118	-0.3	86	0.00
51	TM 3-Nitroaniline	0.328	0.321	2.1	83	0.00
52	TPM 2,4-Dinitrophenol	0.145	0.086	40.7#	52	0.00
53	TM Dibenzofuran	1.658	1.640	1.1	84	0.00
54	TM 2,4-Dinitrotoluene	0.396	0.391	1.3	81	0.00
55	TMP 4-Nitrophenol	0.141	0.108	23.4#	68	0.04
56	TM Fluorene	1.335	1.312	1.7	83	0.00
57	TM 4-Chlorophenyl-phenylether	0.678	0.664	2.1	83	0.00
58	TM Diethylphthalate	1.278	1.269	0.7	82	0.00
59	TM 4-Nitroaniline	0.318	0.303	4.7	80	0.00
60	S SURR3,2,4,6-TRIBROMOPHENOL	0.121	0.114	5.8	77	0.00
61	IR d10-Phenanthrene	1.000	1.000	0.0	81	0.00
62	T 1-Phenyl-1(4-methyl-phenyl)	0.000	0.000#	0.0	0#	-11.15#
63	TM 4,6-Dinitro-2-methylphenol	0.132	0.112	15.2	68	0.00
64	TM 1,2 Diphenylhydrazine	0.613	0.630	-2.8	83	0.00
65	TCM N-Nitrosodiphenylamine	0.504	0.512	-1.6	81	0.00
66	TM 4-Bromophenyl-phenylether	0.201	0.201	0.0	81	0.00
67	T 1-Phenyl-1(2,4-dimethylphen	0.000	0.000#	0.0	79	0.00
68	TM Hexachlorobenzene	0.197	0.197	0.0	81	0.00
69	TM Atrazine	0.111	0.110	0.9	79	0.00
70	TCM Pentachlorophenol	0.100	0.090	10.0	77	0.00
71	TM Phenanthrene	1.051	1.071	-1.9	81	0.00
72	TM Anthracene	1.110	1.130	-1.8	81	0.00
73	TM Carbazole	1.008	1.040	-3.2	81	0.00
74	TM Di-n-butylphthalate	1.280	1.309	-2.3	80	0.00
75	TCM Fluoranthene	1.223	1.219	0.3	79	0.00
76	IR d12-Chrysene	1.000	1.000	0.0	78	0.00
77	TM Benzidine	0.410	0.402	2.0	71	0.00
78	TM Pyrene	1.268	1.268	0.0	79	0.00

(#) = Out of Range

BY660.D 82700210.M

Wed Feb 18 10:36:56 2009

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Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973A\DATA\021809\BY660.D
 Acq On : 18 Feb 2009 9:51 am
 Sample : CALIBRATION CHECK
 Misc : 80 PPM STD 8270/625
 MS Integration Params: RTEINT.P

Vial: 1
 Operator: Z.Miao
 Inst : 5973-A
 Multiplr: 1.00

Method : J:\ACQUDATA\5973A\METHODS\82700210.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Feb 10 17:23:14 2009
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
79 S	SURR6, TERPHENYL-D14	0.902	0.878	2.7	76	0.00
80 TM	Butyl benzyl phthalate	0.641	0.655	-2.2	79	0.00
81 TM	3,3'-Dichlorobenzidine	0.409	0.433	-5.9	80	0.00
82 TM	Benzo(a)anthracene	1.181	1.223	-3.6	81	0.00
83 TM	Chrysene	1.108	1.152	-4.0	81	0.00
84 TM	bis(2-Ethylhexyl)phthalate	0.885	0.891	-0.7	77	0.00
85 IR	d12-Perylene	1.000	1.000	0.0	84	0.00
86 TCM	Di-n-octyl phthalate	1.908	1.865	2.3	78	0.00
87 TM	Benzo(b)Fluoranthene	1.384	1.451	-4.8	86	0.00
88 TM	Benzo(k)fluoranthene	1.412	1.450	-2.7	85	0.00
89 TCM	Benzo(a)pyrene	1.362	1.418	-4.1	90	0.00
90 TM	Indeno(1,2,3-cd)Pyrene	1.574	1.704	-8.3	91	0.01
91 TM	Dibenz(a,h)anthracene	1.350	1.441	-6.7	89	0.00
92 TM	Benzo(g,h,i)perylene	1.275	1.377	-8.0	91	0.00

**SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)**

Lab Name: CAS-ROCH Contract: URS
 Lab Code: 10145 Case No.: R0900760 SAS No.: _____ SDG No.: 1117564.00002
 Lab File ID: BY680.D DFTPP Injection Date: 2/19/09
 Instrument ID: 5973-A DFTPP Injection Time: 9:35

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	35.4
68	Less than 2.0% of mass 69	0.5 (1.3)1
69	Mass 69 Relative abundance	36.9
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	40.0 - 60.0% of mass 198	52.9
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	21.6
365	Greater than 1.0% of mass 198	2.6
441	Present, but less than mass 443	6.4
442	40.0 - 100.0% of mass 198	43.0
443	17.0 - 23.0% of mass 442	8.7 (20.2)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD280	CALIBRATION CHECK	BY681.D	2/19/09	10:10
02	SBLK2	RQ0900999-01 1.0	BY691.D	2/19/09	17:07
03	SBLK2MS	RQ0900999-02 1.0	BY692.D	2/19/09	17:49
04	SBLK2MSD	RQ0900999-03 1.0	BY693.D	2/19/09	18:30
05	MMW-1	R0900760-008 1.0	BY694.D ✓	2/19/09	19:11
06	MMW-2	R0900760-009 1.0	BY695.D	2/19/09	19:52
07	MMW-7	R0900760-010 1.0	BY696.D	2/19/09	20:33
08	MMW-10	R0900760-011 1.0	BY697.D	2/19/09	21:14

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973A\DATA\021909\BY681.D
 Acq On : 19 Feb 2009 10:10 am
 Sample : CALIBRATION CHECK
 Misc : 80 PPM STD 8270/625
 MS Integration Params: RTEINT.P

Vial: 1
 Operator: Z.Miao
 Inst : 5973-A
 Multiplr: 1.00

UR: #27,40,52

Method : J:\ACQUDATA\5973A\METHODS\82700210.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Feb 10 17:23:14 2009
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR d4-1,4-Dichlorobenzene	1.000	1.000	0.0	85	0.00
2	TM Pyridine	0.812	0.856	-5.4	91	0.00
3	TM N-Nitrosodimethylamine	0.443	0.468	-5.6	90	0.00
4	S SURR1,2-FLUOROPHENOL	0.979	1.045	-6.7	89	0.00
5	TM Benzaldehyde	0.523	0.382	27.0#	56	0.00
6	TM Aniline	1.598	1.551	2.9	80	0.00
7	S SURR2, PHENOL-D6	1.281	1.299	-1.4	85	0.01
8	TMC Phenol	1.373	1.496	-9.0	92	0.00
9	TM bis(2-Clethyl) Ether	1.105	1.068	3.3	83	0.00
10	TM 2-Chlorophenol	1.331	1.342	-0.8	85	0.00
11	TM 1,3-Diclbzene	1.613	1.677	-4.0	89	0.00
12	TMC 1,4-Dichlorobenzene	1.670	1.707	-2.2	87	0.00
13	TM 1,2-Diclbzene	1.583	1.617	-2.1	85	0.00
14	TM Benzyl Alcohol	0.928	0.948	-2.2	85	0.00
15	TM 2,2'-oxybis(1-Chloropropane	1.081	1.046	3.2	81	0.00
16	TM 2-Methylphenol	1.138	1.160	-1.9	86	0.00
17	TM Acetophenone	1.793	1.781	0.7	83	0.00
18	TMP N-Nitroso-Di-n-propylamine	0.821	0.802	2.3	83	0.00
19	TM Hexachloroethane	0.642	0.653	-1.7	87	0.00
20	TM 4-Methylphenol	1.208	1.208	0.0	85	0.00
21	T 1-Methyl-2-pyrrolidinone	0.759	0.749	1.3	80	0.00
22	IR d8-Naphthalene	1.000	1.000	0.0	82	0.00
23	S SURR4,NITROBENZENE-D5	0.295	0.307	-4.1	84	0.00
24	TM Nitrobenzene	0.309	0.316	-2.3	84	0.00
25	TM Isophorone	0.559	0.556	0.5	81	0.00
26	TCM 2-Nitrophenol	0.204	0.213	-4.4	83	0.00
27	TM Benzoic Acid	0.181	0.174	3.9	82	0.00
28	TM 2,4-Dimethylphenol	0.321	0.330	-2.8	84	0.00
29	TM bis(-2-Chloroethoxy) Methane	0.353	0.352	0.3	80	0.00
30	TCM 2,4-Dichlorophenol	0.322	0.327	-1.6	81	0.00
31	TM 1,2,4-Trichlorobenzene	0.367	0.381	-3.8	85	0.00
32	TM Naphthalene	1.040	1.075	-3.4	85	0.00
33	TM 4-Chloroaniline	0.418	0.417	0.2	80	0.00
34	TCM Hexachlorobutadiene	0.198	0.203	-2.5	83	0.00
35	TMC 4-Chloro-3-methylphenol	0.273	0.278	-1.8	82	0.01
36	TM Caprolactam	0.107	0.108	-0.9	76	0.00
37	TM 2-Methylnaphthalene	0.737	0.740	-0.4	80	0.00
38	TM 1-Methylnaphthalene	0.698	0.703	-0.7	82	0.00
39	IR d10-Acenaphthene	1.000	1.000	0.0	80	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973A\DATA\021909\BY681.D
 Acq On : 19 Feb 2009 10:10 am
 Sample : CALIBRATION CHECK
 Misc : 80 PPM STD 8270/625
 MS Integration Params: RTEINT.P

Vial: 1
 Operator: Z.Miao
 Inst : 5973-A
 Multiplr: 1.00

Method : J:\ACQUDATA\5973A\METHODS\82700210.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Feb 10 17:23:14 2009
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40	TPM Hexachlorocyclopentadiene	0.275	0.257	6.5	70	0.00
41	TCM 2,4,6-Trichlorophenol	0.354	0.359	-1.4	79	0.00
42	TM 2,4,5-Trichlorophenol	0.370	0.378	-2.2	79	0.00
43	S SURR5,2-FLUOROBIPHENYL	1.257	1.281	-1.9	81	0.00
44	TM 1,1'-Biphenyl	1.502	1.540	-2.5	82	0.00
45	TM 2-Chloronaphthalene	1.116	1.150	-3.0	82	0.00
46	TM 2-Nitroaniline	0.246	0.244	0.8	79	0.00
47	TM Acenaphthylene	1.758	1.791	-1.9	80	0.00
48	TM Dimethyl phthalate	1.266	1.264	0.2	77	0.00
49	TM 2,6-Dinitrotoluene	0.306	0.309	-1.0	79	0.00
50	TMC Acenaphthene	1.115	1.126	-1.0	80	0.00
51	TM 3-Nitroaniline	0.328	0.318	3.0	77	0.00
52	TPM 2,4-Dinitrophenol	0.145	0.124	14.5	70	0.00
53	TM Dibenzofuran	1.658	1.695	-2.2	80	0.00
54	TM 2,4-Dinitrotoluene	0.396	0.403	-1.8	77	0.00
55	TMP 4-Nitrophenol	0.141	0.111	21.3#	66	0.03
56	TM Fluorene	1.335	1.351	-1.2	79	0.00
57	TM 4-Chlorophenyl-phenylether	0.678	0.676	0.3	78	0.00
58	TM Diethylphthalate	1.278	1.268	0.8	76	0.00
59	TM 4-Nitroaniline	0.318	0.313	1.6	77	0.00
60	S SURR3,2,4,6-TRIBROMOPHENOL	0.121	0.108	10.7	68	0.00
61	IR d10-Phenanthrene	1.000	1.000	0.0	76	0.00
62	T 1-Phenyl-1(4-methyl-phenyl)	0.000	0.000#	0.0	0#	-11.15#
63	TM 4,6-Dinitro-2-methylphenol	0.132	0.121	8.3	70	0.00
64	TM 1,2 Diphenylhydrazine	0.613	0.620	-1.1	77	0.00
65	TCM N-Nitrosodiphenylamine	0.504	0.513	-1.8	77	0.00
66	TM 4-Bromophenyl-phenylether	0.201	0.199	1.0	75	0.00
67	T 1-Phenyl-1(2,4-dimethylphen	0.000	0.000#	0.0	49#	0.00
68	TM Hexachlorobenzene	0.197	0.190	3.6	74	0.00
69	TM Atrazine	0.111	0.109	1.8	74	0.00
70	TCM Pentachlorophenol	0.100	0.081	19.0	65	0.00
71	TM Phenanthrene	1.051	1.072	-2.0	77	0.00
72	TM Anthracene	1.110	1.146	-3.2	78	0.00
73	TM Carbazole	1.008	1.028	-2.0	75	0.00
74	TM Di-n-butylphthalate	1.280	1.278	0.2	74	0.00
75	TCM Fluoranthene	1.223	1.236	-1.1	75	0.00
76	IR d12-Chrysene	1.000	1.000	0.0	72	0.00
77	TM Benzidine	0.410	0.378	7.8	62	0.00
78	TM Pyrene	1.268	1.298	-2.4	75	0.00

(#) = Out of Range

BY681.D 82700210.M

Thu Feb 19 13:58:17 2009

Page 2

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Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973A\DATA\021909\BY681.D
 Acq On : 19 Feb 2009 10:10 am
 Sample : CALIBRATION CHECK
 Misc : 80 PPM STD 8270/625
 MS Integration Params: RTEINT.P

Vial: 1
 Operator: Z.Miao
 Inst : 5973-A
 Multiplr: 1.00

Method : J:\ACQUDATA\5973A\METHODS\82700210.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Feb 10 17:23:14 2009
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)
79 S	SURR6, TERPHENYL-D14	0.902	0.895	0.8	72	0.00
80 TM	Butyl benzyl phthalate	0.641	0.650	-1.4	73	0.00
81 TM	3,3'-Dichlorobenzidine	0.409	0.419	-2.4	72	0.00
82 TM	Benzo(a)anthracene	1.181	1.232	-4.3	76	0.00
83 TM	Chrysene	1.108	1.170	-5.6	77	0.00
84 TM	bis(2-Ethylhexyl)phthalate	0.885	0.884	0.1	71	0.00
85 IR	d12-Perylene	1.000	1.000	0.0	78	0.00
86 TCM	Di-n-octyl phthalate	1.908	1.805	5.4	71	0.00
87 TM	Benzo(b)Fluoranthene	1.384	1.425	-3.0	79	0.00
88 TM	Benzo(k)fluoranthene	1.412	1.474	-4.4	81	0.01
89 TCM	Benzo(a)pyrene	1.362	1.401	-2.9	83	0.01
90 TM	Indeno(1,2,3-cd)Pyrene	1.574	1.678	-6.6	83	0.01
91 TM	Dibenz(a,h)anthracene	1.350	1.407	-4.2	81	0.01
92 TM	Benzo(g,h,i)perylene	1.275	1.342	-5.3	82	0.00

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CAS-ROCH Contract: URS
 Lab Code: 10145 Case No.: R0900760 SAS No.: _____ SDG No.: 1117564.00002
 Lab File ID: BY700.D DFTPP Injection Date: 2/20/09
 Instrument ID: 5973-A DFTPP Injection Time: 10:34

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	36.8
68	Less than 2.0% of mass 69	0.4 (1.1)1
69	Mass 69 Relative abundance	39.0
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	51.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.2
275	10.0 - 30.0% of mass 198	19.5
365	Greater than 1.0% of mass 198	2.6
441	Present, but less than mass 443	5.3
442	40.0 - 100.0% of mass 198	40.3
443	17.0 - 23.0% of mass 442	8.0 (19.8)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD380	CALIBRATION CHECK	BY701.D	2/20/09	11:06
02	MMW-9	R0900760-012 1.0	BY702.D	2/20/09	11:49

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973A\DATA\022009\BY701.D
 Acq On : 20 Feb 2009 11:06 am
 Sample : CALIBRATION CHECK
 Misc : 80 PPM STD 8270/625
 MS Integration Params: RTEINT.P

Vial: 1
 Operator: Z.Miao
 Inst : 5973-A
 Multiplr: 1.00

Handwritten: 27.40.52

Method : J:\ACQUDATA\5973A\METHODS\82700210.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Feb 10 17:23:14 2009
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR d4-1,4-Dichlorobenzene	1.000	1.000	0.0	84	0.00
2	TM Pyridine	0.812	0.838	-3.2	88	0.00
3	TM N-Nitrosodimethylamine	0.443	0.462	-4.3	88	0.00
4	S SURR1,2-FLUOROPHENOL	0.979	1.020	-4.2	86	0.00
5	TM Benzaldehyde	0.523	0.412	21.2#	59	0.00
6	TM Aniline	1.598	1.525	-4.6	78	0.00
7	S SURR2, PHENOL-D6	1.281	1.298	-1.3	84	0.00
8	TMC Phenol	1.373	1.493	-8.7	91	0.00
9	TM bis(2-Clethyl) Ether	1.105	1.068	3.3	82	0.00
10	TM 2-Chlorophenol	1.331	1.338	-0.5	83	0.00
11	TM 1,3-Diclbzene	1.613	1.677	-4.0	88	0.00
12	TMC 1,4-Dichlorobenzene	1.670	1.726	-3.4	87	0.00
13	TM 1,2-Diclbzene	1.583	1.652	-4.4	86	0.00
14	TM Benzyl Alcohol	0.928	0.948	-2.2	84	0.00
15	TM 2,2'-oxybis(1-Chloropropane	1.081	0.987	8.7	76	0.00
16	TM 2-Methylphenol	1.138	1.130	0.7	82	0.00
17	TM Acetophenone	1.793	1.801	-0.4	83	0.00
18	TMP N-Nitroso-Di-n-propylamine	0.821	0.772	6.0	79	0.00
19	TM Hexachloroethane	0.642	0.665	-3.6	88	0.00
20	TM 4-Methylphenol	1.208	1.188	1.7	83	0.00
21	T 1-Methyl-2-pyrrolidinone	0.759	0.751	1.1	79	0.00
22	IR d8-Naphthalene	1.000	1.000	0.0	82	0.00
23	S SURR4, NITROBENZENE-D5	0.295	0.303	-2.7	83	0.00
24	TM Nitrobenzene	0.309	0.307	0.6	81	0.00
25	TM Isophorone	0.559	0.546	2.3	79	0.00
26	TCM 2-Nitrophenol	0.204	0.210	-2.9	81	0.00
27	TM Benzoic Acid	0.181	0.181	0.0	85	0.00
28	TM 2,4-Dimethylphenol	0.321	0.326	-1.6	83	0.00
29	TM bis(-2-Chloroethoxy)Methane	0.353	0.337	4.5	76	0.00
30	TCM 2,4-Dichlorophenol	0.322	0.329	-2.2	81	0.00
31	TM 1,2,4-Trichlorobenzene	0.367	0.378	-3.0	84	0.00
32	TM Naphthalene	1.040	1.056	-1.5	83	0.00
33	TM 4-Chloroaniline	0.418	0.411	1.7	79	0.00
34	TCM Hexachlorobutadiene	0.198	0.204	-3.0	83	0.00
35	TMC 4-Chloro-3-methylphenol	0.273	0.272	0.4	80	0.00
36	TM Caprolactam	0.107	0.108	-0.9	76	0.00
37	TM 2-Methylnaphthalene	0.737	0.732	0.7	79	0.00
38	TM 1-Methylnaphthalene	0.698	0.694	0.6	80	0.00
39	IR d10-Acenaphthene	1.000	1.000	0.0	77	0.00

(#) = Out of Range
 BY701.D 82700210.M

Fri Feb 20 13:55:44 2009

Page 1
 00486

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973A\DATA\022009\BY701.D
 Acq On : 20 Feb 2009 11:06 am
 Sample : CALIBRATION CHECK
 Misc : 80 PPM STD 8270/625
 MS Integration Params: RTEINT.P

Vial: 1
 Operator: Z.Miao
 Inst : 5973-A
 Multiplr: 1.00

Method : J:\ACQUDATA\5973A\METHODS\82700210.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Feb 10 17:23:14 2009
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)
40	TPM Hexachlorocyclopentadiene	0.275	0.283	-2.9	75	0.00
41	TCM 2,4,6-Trichlorophenol	0.354	0.365	-3.1	78	0.00
42	TM 2,4,5-Trichlorophenol	0.370	0.364	1.6	74	0.00
43	S SURR5,2-FLUOROBIPHENYL	1.257	1.314	-4.5	81	0.00
44	TM 1,1'-Biphenyl	1.502	1.553	-3.4	80	0.00
45	TM 2-Chloronaphthalene	1.116	1.165	-4.4	81	0.00
46	TM 2-Nitroaniline	0.246	0.240	2.4	75	0.00
47	TM Acenaphthylene	1.758	1.818	-3.4	79	0.00
48	TM Dimethyl phthalate	1.266	1.287	-1.7	76	0.00
49	TM 2,6-Dinitrotoluene	0.306	0.314	-2.6	78	0.00
50	TMC Acenaphthene	1.115	1.154	-3.5	80	0.00
51	TM 3-Nitroaniline	0.328	0.322	1.8	75	0.00
52	TPM 2,4-Dinitrophenol	0.145	0.127	12.4	69	0.00
53	TM Dibenzofuran	1.658	1.723	-3.9	79	0.00
54	TM 2,4-Dinitrotoluene	0.396	0.410	-3.5	76	0.00
55	TMP 4-Nitrophenol	0.141	0.110	22.0#	63	0.02
56	TM Fluorene	1.335	1.360	-1.9	77	0.00
57	TM 4-Chlorophenyl-phenylether	0.678	0.685	-1.0	77	0.00
58	TM Diethylphthalate	1.278	1.293	-1.2	75	0.00
59	TM 4-Nitroaniline	0.318	0.305	4.1	72	0.00
60	S SURR3,2,4,6-TRIBROMOPHENOL	0.121	0.114	5.8	69	0.00
61	IR d10-Phenanthrene	1.000	1.000	0.0	74	0.00
62	T 1-Phenyl-1(4-methyl-phenyl)	0.000	0.000#	0.0	0#	-11.15#
63	TM 4,6-Dinitro-2-methylphenol	0.132	0.127	3.8	71	0.00
64	TM 1,2 Diphenylhydrazine	0.613	0.615	-0.3	74	0.00
65	TCM N-Nitrosodiphenylamine	0.504	0.515	-2.2	75	0.00
66	TM 4-Bromophenyl-phenylether	0.201	0.196	2.5	72	0.00
67	T 1-Phenyl-1(2,4-dimethylphen	0.000	0.000#	0.0	58	0.00
68	TM Hexachlorobenzene	0.197	0.191	3.0	73	0.00
69	TM Atrazine	0.111	0.107	3.6	71	0.00
70	TCM Pentachlorophenol	0.100	0.085	15.0	67	0.00
71	TM Phenanthrene	1.051	1.075	-2.3	75	0.00
72	TM Anthracene	1.110	1.125	-1.4	74	0.00
73	TM Carbazole	1.008	1.038	-3.0	74	0.00
74	TM Di-n-butylphthalate	1.280	1.287	-0.5	73	0.00
75	TCM Fluoranthene	1.223	1.227	-0.3	73	0.00
76	IR d12-Chrysene	1.000	1.000	0.0	71	0.00
77	TM Benzidine	0.410	0.394	3.9	64	0.00
78	TM Pyrene	1.268	1.274	-0.5	73	0.00

(#) = Out of Range

BY701.D 82700210.M

Fri Feb 20 13:55:45 2009

Page 2

82700210

Evaluate Continuing Calibration Report

Data File : J:\ACQUDATA\5973A\DATA\022009\BY701.D
 Acq On : 20 Feb 2009 11:06 am
 Sample : CALIBRATION CHECK
 Misc : 80 PPM STD 8270/625
 MS Integration Params: RTEINT.P

Vial: 1
 Operator: Z.Miao
 Inst : 5973-A
 Multiplr: 1.00

Method : J:\ACQUDATA\5973A\METHODS\82700210.M (RTE Integrator)
 Title : 8270 BNA ANALYSIS
 Last Update : Tue Feb 10 17:23:14 2009
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
79 S	SURR6, TERPHENYL-D14	0.902	0.876	2.9	70	0.00
80 TM	Butyl benzyl phthalate	0.641	0.639	0.3	70	0.00
81 TM	3,3'-Dichlorobenzidine	0.409	0.424	-3.7	72	0.00
82 TM	Benzo(a)anthracene	1.181	1.205	-2.0	73	0.00
83 TM	Chrysene	1.108	1.129	-1.9	73	0.00
84 TM	bis(2-Ethylhexyl)phthalate	0.885	0.875	1.1	69	0.00
85 IR	d12-Perylene	1.000	1.000	0.0	77	0.00
86 TCM	Di-n-octyl phthalate	1.908	1.802	5.6	70	0.00
87 TM	Benzo(b)Fluoranthene	1.384	1.392	-0.6	75	0.00
88 TM	Benzo(k)fluoranthene	1.412	1.440	-2.0	78	0.00
89 TCM	Benzo(a)pyrene	1.362	1.376	-1.0	80	0.01
90 TM	Indeno(1,2,3-cd)Pyrene	1.574	1.703	-8.2	83	0.01
91 TM	Dibenz(a,h)anthracene	1.350	1.445	-7.0	82	0.00
92 TM	Benzo(g,h,i)perylene	1.275	1.410	-10.6	85	0.00

METALS

-14-

ANALYSIS RUN LOG

Contract: R0900760

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1117564.0000

Instrument ID Number: Optima ICP 2 Method: P

Start Date: 2/19/2009 End Date: 2/20/2009

Sample ID.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K E	S G	A A	N L	T L	V N	Z N	C N				
IS Init	1.00	07:00																													
Calib Blank 1	1.00	12:23				X	X		X	X				X						X	X										
Calib Std 1	1.00	12:29				X	X		X					X																	
Calib Std 2	1.00	12:34								X										X	X										
Calib Std 3	1.00	12:40				X	X		X	X				X						X	X										
Calib Std 4	1.00	12:46				X	X		X	X				X						X	X										
ICV1 ✓	1.00	12:50				X	X		X	X				X						X	X										
ICB1 ✓	1.00	12:56				X	X		X	X				X						X	X										
CRDL1 ✓	1.00	13:02				X	X		X	X				X						X	X										
ICS-A1 ✓	1.00	13:08				X	X		X	X				X						X	X										
ICS-AB1 ✓	1.00	13:15				X	X		X	X				X						X	X										
CV1 ✓	1.00	13:21				X	X		X	X				X						X	X										
CCB1 ✓	1.00	13:27				X	X		X	X				X						X	X										
ZZZZZZ	1.00	13:33																													
ZZZZZZ	1.00	13:38																													
ZZZZZZ	1.00	13:44																													
ZZZZZZ	5.00	13:50																													
ZZZZZZ	1.00	13:56																													
ZZZZZZ	5.00	14:02																													
ZZZZZZ	1.00	14:07																													
ZZZZZZ	1.00	14:13																													
ZZZZZZ	1.00	14:19																													
ZZZZZZ	1.00	14:25																													
ZZZZZZ	1.00	14:31																													
ZZZZZZ	1.00	14:36																													
ZZZZZZ	5.00	14:42																													
ZZZZZZ	1.00	14:48																													
ZZZZZZ	1.00	14:54																													
ZZZZZZ	1.00	15:00																													
ZZZZZZ	1.00	15:05																													
ZZZZZZ	1.00	15:11																													
ZZZZZZ	1.00	15:17																													
ZZZZZZ	1.00	15:23																													

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

-14-

ANALYSIS RUN LOG

Contract: R0900760

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: 1117564.0000Instrument ID Number: Optima ICP 2Method: PStart Date: 2/19/2009End Date: 2/20/2009

Sample ID.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K E	S A	A G	N A	T L	V L	Z N	C N				
ZZZZZZ	1.00	15:28																													
ZZZZZZ	5.00	15:34																													
ZZZZZZ	1.00	15:40																													
ZZZZZZ	1.00	15:46																													
ZZZZZZ	1.00	15:52																													
ZZZZZZ	1.00	15:57																													
ZZZZZZ	1.00	16:03																													
ZZZZZZ	1.00	16:09																													
ZZZZZZ	1.00	16:15																													
ZZZZZZ	1.00	16:20																													
ZZZZZZ	1.00	16:26																													
ZZZZZZ	1.00	16:32																													
ZZZZZZ	1.00	16:38																													
ZZZZZZ	5.00	16:43																													
ZZZZZZ	1.00	16:49																													
ZZZZZZ	1.00	16:55																													
ZZZZZZ	1.00	17:01																													
ZZZZZZ	1.00	17:07																													
ZZZZZZ	1.00	17:13																													
ZZZZZZ	1.00	17:18																													
ZZZZZZ	1.00	17:24																													
ZZZZZZ	1.00	17:30																													
ZZZZZZ	1.00	17:36																													
ZZZZZZ	1.00	17:41																													
ZZZZZZ	1.00	17:45																													
ZZZZZZ	1.00	17:51																													
ZZZZZZ	1.00	17:57																													
ZZZZZZ	1.00	18:03																													
ZZZZZZ	1.00	18:09																													
ZZZZZZ	1.00	18:15																													
ZZZZZZ	1.00	18:20																													
ZZZZZZ	1.00	18:26																													
ZZZZZZ	1.00	18:32																													

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

-14-

ANALYSIS RUN LOG

Contract: R0900760

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1117564.0000

Instrument ID Number: Optima ICP 2 Method: P

Start Date: 2/19/2009 End Date: 2/20/2009

Sample ID.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N
ZZZZZZ	1.00	18:38																									
ZZZZZZ	1.00	18:43																									
ZZZZZZ	5.00	18:49																									
ZZZZZZ	1.00	18:55																									
ZZZZZZ	1.00	19:01																									
ZZZZZZ	1.00	19:07																									
ZZZZZZ	1.00	19:12																									
ZZZZZZ	1.00	19:18																									
ZZZZZZ	1.00	19:24																									
ZZZZZZ	1.00	19:30																									
ZZZZZZ	1.00	19:35																									
ZZZZZZ	1.00	19:41																									
ZZZZZZ	1.00	19:47																									
ZZZZZZ	1.00	19:53																									
ZZZZZZ	5.00	19:59																									
ZZZZZZ	1.00	20:04																									
ZZZZZZ	1.00	20:10																									
ZZZZZZ	1.00	20:16																									
ZZZZZZ	1.00	20:22																									
ZZZZZZ	1.00	20:28																									
ZZZZZZ	1.00	20:33																									
ZZZZZZ	1.00	20:39																									
ZZZZZZ	1.00	20:45																									
ZZZZZZ	1.00	20:51																									
ZZZZZZ	1.00	20:56																									
ZZZZZZ	1.00	21:02																									
ZZZZZZ	1.00	21:08																									
CRDL2 ✓	1.00	21:14			X	X		X		X				X					X	X							
ICS-A3 ✓	1.00	21:20			X	X		X		X				X					X	X							
ICS-AB3 ✓	1.00	21:26			X	X		X		X				X					X	X							
CCV2 ✓	1.00	21:32			X	X		X		X				X					X	X							
CB2 ✓	1.00	21:38			X	X		X		X				X					X	X							
PBW	1.00	21:43			X	X		X		X				X					X	X							

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

-14-

ANALYSIS RUN LOG

Contract: R0900760

Lab Code: Case No.: SAS No.: SDG No.: 1117564.0000:

Instrument ID Number: Optima ICP 2

Method: P

Start Date: 2/19/2009

End Date: 2/20/2009

Sample ID.	D/F	Time	% R	Analytes															
				A	S	A	B	B	C	C	C	C	F	P	M	M	H	N	K
				L	B	S	A	E	D	A	R	O	U	E	B	G	N	G	I
LCSW ✓	1.00	21:49				X	X		X	X				X					X
MP-1	1.00	21:55				X	X		X	X				X					X
EQ-021109	1.00	22:01				X	X		X	X				X					X
MMW-6	1.00	22:06				X	X		X	X				X					X
MMW-6D ✓	1.00	22:12				X	X		X	X				X					X
MMW-6S ✓	1.00	22:18				X	X		X	X				X					X
MMW-6A ✓	1.00	22:24				X	X		X	X				X					X
MMW-6L	5.00	22:30				X	X		X	X				X					X
MMW-4 ✓	1.00	22:36				X	X		X	X				X					X
CCV3 ✓	1.00	22:42				X	X		X	X				X					X
CCB3 ✓	1.00	22:48				X	X		X	X				X					X
MMW-3	1.00	22:53				X	X		X	X				X					X
MMW-1 ✓	1.00	22:59				X	X		X	X				X					X
MMW-2	1.00	23:05				X	X		X	X				X					X
MMW-7 ✓	1.00	23:11				X	X		X	X				X					X
MMW-10 ✓	1.00	23:17				X	X		X	X				X					X
MMW-9	1.00	23:22				X	X		X	X				X					X
ZZZZZZ	1.00	23:28																	
ZZZZZZ	1.00	23:34																	
ZZZZZZ	1.00	23:40																	
ZZZZZZ	1.00	23:46																	
CCV4 ✓	1.00	23:52				X	X		X	X				X					X
CCB4 ✓	1.00	23:58				X	X		X	X				X					X
ZZZZZZ	1.00	00:03																	
ZZZZZZ	1.00	00:09																	
ZZZZZZ	1.00	00:15																	
ZZZZZZ	1.00	00:21																	
CCV5 ✓	1.00	00:27				X	X		X	X				X					X
CCB5 ✓	1.00	00:33				X	X		X	X				X					X
CRDL3 ✓	1.00	00:38				X	X		X	X				X					X
ICS-A4 ✓	1.00	00:44				X	X		X	X				X					X
ICS-AB4 ✓	1.00	00:50				X	X		X	X				X					X
CCV6 ✓	1.00	00:56				X	X		X	X				X					X

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

-14-

ANALYSIS RUN LOG

Contract: R0900760

Lab Code: Case No.: SAS No.: SDG No.: 1117564.0000:

Instrument ID Number: Optima ICP 2 Method: P

Start Date: 2/19/2009 End Date: 2/20/2009

Sample ID.	D/F	Time	% R	Analytes																							
				A	S	A	B	B	C	C	C	C	F	P	M	M	H	N	K	S	A	N	T	V	Z	C	
				L	B	S	A	E	D	A	R	O	U	E	B	G	N	G	I		E	G	A	L		N	N
CCB6 ✓	1.00	01:02				X	X		X		X				X					X	X						

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

-14-

ANALYSIS RUN LOG

Contract: R0900760

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1117564.0000:

Instrument ID Number: Optima ICP 2 Method: P

Start Date: 3/3/2009 End Date: 3/3/2009

Sample ID.	D/F	Time	% R	Analytes															
				A	S	A	B	B	C	C	C	C	F	P	M	M	H	N	K
				L	B	S	A	E	D	A	R	O	U	E	B	G	N	G	I
Calib Blank 1	1.00	09:27																	X
Calib Std 1	1.00	09:33																	
Calib Std 2	1.00	09:39																	X
Calib Std 3	1.00	09:44																	X
Calib Std 4	1.00	09:50																	X
ICV2 ✓	1.00	09:55																	X
ICB2 ✓	1.00	10:01																	X
CRDL1 ✓	1.00	10:06																	X
ICS-A1 ✓	1.00	10:12																	X
ICS-AB1 ✓	1.00	10:17																	X
CCV1 ✓	1.00	10:21																	X
CCB1 ✓	1.00	10:27																	X
MP-1	1.00	10:33																	X
MP-1L	5.00	10:39																	X
ZZZZZZ	1.00	10:44																	
ZZZZZZ	1.00	10:50																	
ZZZZZZ	1.00	10:56																	
ZZZZZZ	1.00	11:02																	
ZZZZZZ	1.00	11:07																	
ZZZZZZ	1.00	11:13																	
ZZZZZZ	1.00	11:19																	
ZZZZZZ	5.00	11:25																	
CCV2 ✓	1.00	11:31																	X
CCB2 ✓	1.00	11:37																	X
ZZZZZZ	1.00	11:42																	
ZZZZZZ	1.00	11:48																	
ZZZZZZ	1.00	11:54																	
ZZZZZZ	1.00	12:00																	
ZZZZZZ	1.00	12:05																	
ZZZZZZ	1.00	12:11																	
ZZZZZZ	1.00	12:17																	
ZZZZZZ	1.00	12:23																	
ZZZZZZ	1.00	12:29																	

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

-14-

ANALYSIS RUN LOG

Contract: R0900760Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1117564.0000Instrument ID Number: Optima ICP 2 Method: PStart Date: 3/3/2009 End Date: 3/3/2009

Sample ID.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	X	S E	A G	N A	T L	V	Z N	C N
ZZZZZZ	1.00	12:35																									
CCV3 ✓	1.00	12:40																	X								
CCB3 ✓	1.00	12:46																	X								
ZZZZZZ	1.00	12:52																									
ZZZZZZ	1.00	12:58																									
ZZZZZZ	1.00	13:04																									
ZZZZZZ	1.00	13:09																									
ZZZZZZ	1.00	13:15																									
ZZZZZZ	5.00	13:21																									
ZZZZZZ	1.00	13:27																									
ZZZZZZ	1.00	13:33																									
ZZZZZZ	1.00	13:39																									
ZZZZZZ	1.00	13:44																									
CCV4 ✓	1.00	13:50																	X								
CCB4 ✓	1.00	13:56																	X								
ZZZZZZ	5.00	14:02																									
CCV5 ✓	1.00	14:08																	X								
CCB5 ✓	1.00	14:14																	X								
CRDL2 ✓	1.00	14:19																	X								
ICS-A2 ✓	1.00	14:25																	X								
ICS-AB2 ✓	1.00	14:31																	X								
ZZZZZZ	5.00	14:38																									
ZZZZZZ	20.00	14:44																									
CCV6 ✓	1.00	14:50																	X								
CCB6 ✓	1.00	14:56																	X								

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

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ANALYSIS RUN LOG

Contract: R0900760

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1117564.0000:

Instrument ID Number: PE FAA/CVAA

Method: CV

Start Date: 2/25/2009

End Date: 2/25/2009

Sample ID.	D/F	Time	% R	Analytes															
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I
Calib Blank	1.00	09:44																X	
0.2ppb std	1.00	09:45																X	
0.5ppb std	1.00	09:47																X	
1ppb std	1.00	09:49																X	
2ppb std	1.00	09:51																X	
5ppb std	1.00	09:53																X	
10ppb std	1.00	09:55																X	
ICV1 ✓	1.00	09:56																X	
ICB1 ✓	1.00	09:58																X	
CRDL1	1.00	10:00																X	
CCV1 ✓	1.00	10:02																X	
CCB1 ✓	1.00	10:04																X	
PBW	1.00	10:05																X	
LCSW ✓	1.00	10:07																X	
MP-1	1.00	10:09																X	
EQ-021109	1.00	10:11																X	
MMW-6	1.00	10:13																X	
MMW-6D ✓	1.00	10:14																X	
MMW-6S ✓	1.00	10:16																X	
MMW-4 ✓	1.00	10:18																X	
MMW-3	1.00	10:20																X	
CCV2 ✓	1.00	10:22																X	
CCB2 ✓	1.00	10:24																X	
MMW-1 ✓	1.00	10:25																X	
MMW-2	1.00	10:27																X	
MMW-7	1.00	10:29																X	
MMW-10	1.00	10:31																X	
MMW-9 ✓	1.00	10:32																X	
ZZZZZZ	1.00	10:34																	
ZZZZZZ	1.00	10:36																	
ZZZZZZ	1.00	10:38																	
ZZZZZZ	1.00	10:40																	
CRDL2	1.00	10:41																X	

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

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ANALYSIS RUN LOG

Contract: R0900760

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 1117564.0000:

Instrument ID Number: PE FAA/CVAA Method: CV

Start Date: 2/25/2009 End Date: 2/25/2009

Sample ID.	D/F	Time	% R	Analytes																									
				A	S	A	B	B	C	C	C	C	F	P	M	M	H	N	K	S	A	N	T	V	Z	C			
				L	B	S	A	E	D	A	R	O	U	E	B	G	N	G	I		E	G	A	L		N	N		
CCV3 ✓	1.00	10:43														X													
CCB3	1.00	10:45														X													

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

EQ-021109

Contract: R0900760

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG NO.: 1117564.00002

Matrix (soil/water): WATER

Lab Sample ID: R0900760-002

Level (low/med): LOW

Date Received: 2/11/2009

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-22-4	Silver	0.829	U		P
7440-38-2	Arsenic	3.2	U		P
7440-39-3	Barium	0.495	U		P
7440-43-9	Cadmium	0.119	U		P
7440-47-3	Chromium	0.484	U		P
7439-97-6	Mercury	0.019	U		CV
7439-92-1	Lead	0.886	U		P
7782-49-2	Selenium	4.8	U		P

3/31/09

Color Before: COLORLESS

Clarity Before: CLEAR

Texture: _____

Color After: COLORLESS

Clarity After: CLEAR

Artifacts: _____

Comments: _____

METALS

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BLANKS

Contract: R0900760

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 1117564.00002

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	Continuing Calibration Blank (ug/L)				Preparation Blank	C	M
		1	C	2	C			
Silver	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83	U	P
Arsenic	3.22 U	3.22 U	3.22 U	3.22 U	3.22 U	3.22	U	P
Barium	2.56 B	1.60 B	1.80 B	1.74 B	1.74 B	0.50	U	P
Cadmium	0.12 U	0.12 U	0.16 B	0.12 U	0.12 U	0.12	U	P
Chromium	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47	U	P
Mercury	0.019 U	0.019 U	0.024 B	0.019 U	0.019 U	0.019	U	CV
Lead	0.89 U	0.89 U	-1.57 B	-0.96 B	-0.96 B	-1.25	B	P
Selenium	4.79 U	4.79 U	4.79 U	4.79 U	4.79 U	4.79	U	P

Comments:

METALS

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BLANKS

Contract: R0900760

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 1117564.00002

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	Continuing Calibration Blank (ug/L)						Preparation Blank	C	M
		1	C	2	C	3	C			
Silver		0.83	U	0.83	U	0.83	U			P
Arsenic		3.22	U	3.22	U	3.22	U			P
Barium		2.85	B	2.38	B	1.38	B			P
Cadmium		0.13	B	0.15	B	0.12	U			P
Chromium		0.47	U	0.47	U	0.47	U			P
Lead		0.89	U	-1.44	B	0.89	U			P
Selenium		4.79	U	4.79	U	4.79	U			P

Comments:

METALS

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ICP SERIAL DILUTIONS

SAMPLE NO.

MMW-6L

Contract: R0900760

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG NO.: 1117564.00002

Matrix (soil/water): WATER

Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Differ- ence	Q	M
Silver	0.83 U	4.14 U			P
Arsenic	3.22 U	16.10 U			P
Barium	49.30	55.10 B	12	E	P
Cadmium	0.12 U	0.60 U			P
Chromium	1.03 B	2.38 U	100.0		P
Lead	0.89 U	4.43 U			P
Selenium	4.80 U	24.00 U			P

3/31/09

Comments: _____

METALS

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INSTRUMENT DETECTION LIMITS (QUARTERLY)

Contract: R0900760

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 1117564.00002

ICP ID Number: Optima ICP 2 Date: 2/16/2008

Flame AA ID Number: _____

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	PQL (ug/L)	MDL (ug/L)	M
Silver	328.068		10.0	0.83	P
Arsenic	188.979		10.0	3.22	P
Barium	233.527		20.0	0.50	P
Cadmium	226.502		5.0	0.12	P
Chromium	267.716		10.0	0.48	P
Lead	220.353		5.0	0.89	P
Selenium	196.026		10.0	4.79	P

Comments: _____

METALS

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INSTRUMENT DETECTION LIMITS (QUARTERLY)

Contract: R0900760

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: 1117564.00002

ICP ID Number: _____ Date: 1/28/2009

Flame AA ID Number: PE FAA/CVAA

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	PQL (ug/L)	MDL (ug/L)	M
Mercury	253.70	BD	0.200	0.019	CV

Comments: _____

