ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
Tank Programs Division
Underground Storage Tank (UST) Program

DOCUMENT SUBMITTAL FORM

[use as COVER SHEET when submitting the documents listed below]

ADEQ use only

UST FACILITY INFORMATION:

Honeywell Engines Product Center
Facility Name

0-002227
Facility ID

111 South 34th Street
Street Address

0393.02 - .10, .15-.20
LUST Number(s)

Phoenix
City

85034
Zip Code

Maricopa
County

PERSON RESPONSIBLE FOR SUBMITTING DOCUMENT:

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PERSON CATEGORY	ADEQ ID #
X UST owner	4875
☐ UST operator	
☐ UST volunteer	
☐ Property owner	

LUST, RELEASE OR CORRECTIVE ACTION DOCUMENT: (check all that apply; * indicates document requires signed certification statement)

- ☐* 14 day report (suspected release)
- ☐* 90 day report (suspected release)
- ☐* 14 day report (confirmed release)
- ☐* 90 day report (confirmed release)
- ☐* LUST site classification form
- ☐* Site characterization report (SCR)
- ☐* Free Product Report
- ☐* Tier 2 risk evaluation
- ☐* Tier 3 risk evaluation
- ☐* Corrective action plan (CAP)
- X * Periodic site status report (includes groundwater monitoring reports)
- ☐* LUST case closure request w/corrective action completion report
- ☐* Addendum (check related document type)
- ☐ Other: (please specify)

UST DOCUMENT: X

SAF DOCUMENT: ☐ Application #: _____

INFORMAL APPEAL:
- ☐ LUST
- ☐ SAF
- ☐ UST

CERTIFICATION STATEMENT OF UST OWNER, OPERATOR OR VOLUNTEER: (for only documents designated above by *)

"I hereby certify, under penalty of law, which this submittal and all attachments are, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations."

Signature of UST owner, operator or volunteer

02/27/09
Date

Troy J. Kennedy
Name of UST owner, operator or volunteer (printed)

Remediation Portfolio Director
Title

Revised 8/05

Honeywell

Health, Safety, Environment and Remediation
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February 27, 2009

By Hand Delivery

Mark W. Lucas
Case Manager – LUST Enforcement Unit
TPD/Corrective Action Section
Arizona Department of Environmental Quality
1110 W. Washington Street, #4415A-3
Phoenix, AZ 85007

Re: *Fourth Quarter Status Report for 2008*
LUST File #0393.02-.10, .15-.20
Facility ID #0-002227

Dear Mr. Lucas:

Honeywell is submitting this *Fourth Quarter Status Report for 2008* in accordance with requirements in the Arizona Department of Environmental Quality's (ADEQ) Corrective Action Plan (CAP) Final Approval letter dated October 7, 2005, and CAP modification approval letters dated December 20, 2005, March 7, 2006, September 28, 2006, March 27, 2007, and February 29, 2008. As described in the *Third Quarter Status Report for 2008*, this status report (and all future Honeywell status reports) refers to LUST File #0393.02-.10, .15-.20.

If you should have any questions or require discussion, please contact me at 973-455-4279 or Jeff Mieth at 480-377-6265. For your convenience, my e-mail address is troy.j.meyer@honeywell.com and Jeff's is jeffrey.mieth@ch2m.com.

Sincerely,

Troy J. Kennedy
Honeywell - Health, Safety, Environment and Remediation
Remediation Portfolio Director

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Final Report

Fourth Quarter Status Report for 2008

Honeywell 34th Street Facility
Phoenix, Arizona
Facility ID No. 0-002227
LUST File Nos. 0393.02-.10, .15-.20

Prepared for

Honeywell International Inc.

February 2009

REGISTERED GEOLOGIST
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Date Signed 2/27/09
ARIZONA, U.S.A.

Expires 6-30-2009

Prepared by

CH2MHILL

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Acronyms and Abbreviations

µg/L	micrograms per liter
ADEQ	Arizona Department of Environmental Quality
BSVE	biologically-enhanced soil-vapor extraction
CAP	Corrective Action Plan
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
COP	City of Phoenix
CMR	Construction Manager at Risk
DCS	City of Phoenix Aviation Design and Construction Services
Facility	Honeywell 34th Street Facility
Honeywell	Honeywell International Inc.
LUST	leaking understand storage tank
LUST FSP	Leaking Underground Storage Tank Field Sampling Plan
MCL	maximum contaminant level
MTBE	methyl tert-butyl ether
OU	Operable Unit
PSHIA	Phoenix Sky Harbor International Airport
TRPH	total recoverable petroleum hydrocarbons
USEPA	United States Environmental Protection Agency
UST	underground storage tank
VOC	volatile organic compound

SECTION 1.0

Introduction

1.1 Scope and Purpose

This quarterly status report summarizes the ongoing contaminant characterization and remediation activities conducted during the fourth quarter 2008 for Leaking Underground Storage Tank (LUST) File Nos. 0393.02-.10, .15-.20, Facility ID No. 0-002227 at the Honeywell International Inc. (Honeywell) Aerospace 34th Street Engines Product Center (Facility or Honeywell facility). This report also includes the groundwater monitoring results, received during fourth quarter 2008, associated with the initial monthly water quality sampling of recently-installed groundwater monitoring wells ASE-129A and ASE-130A.

This report is being submitted pursuant to reporting requirements in the Arizona Department of Environmental Quality (ADEQ) letter, dated October 7, 2005 (ADEQ, 2005a), issuing final approval of Honeywell's Corrective Action Plan (CAP) (CH2M HILL, 2004a-b), and in accordance with ADEQ's CAP modification approval letters, dated December 20, 2005 (ADEQ, 2005b); March 7, 2006 (ADEQ, 2006a); September 28, 2006 (ADEQ, 2006b); March 27, 2007 (ADEQ, 2007); and February 29, 2008 (ADEQ, 2008a).

1.2 Background

The Honeywell facility is located within Operable Unit (OU) 2 of the Motorola 52nd Street Superfund Site at 111 South 34th Street in Phoenix, Arizona. Figure 1-1 illustrates the Facility location and layout. (All figures are provided at the end of this report.) The Honeywell facility has been used as a manufacturing and testing facility for the production of aircraft engines and auxiliary equipment since 1951.

The United States Environmental Protection Agency (USEPA) and ADEQ's Superfund Programs Section are currently overseeing the characterization and remediation of soil and groundwater contaminated with chlorinated volatile organic compounds (VOCs) within the Motorola 52nd Street Superfund Site. ADEQ has been delegated the lead for facility investigations within OU2, including the Honeywell facility. During the Superfund investigation, petroleum hydrocarbons were detected at the Honeywell facility, and a parallel investigation was initiated under ADEQ's Underground Storage Tank (UST) Corrective Action Section. Since that time, Honeywell has investigated the extent of contamination, initiated corrective actions to recover free product, and developed a CAP. The approved CAP (CH2M HILL, 2004a-b) recommends the following remedial actions:

- Remediate soil contamination in the vadose zone, the petroleum hydrocarbon smear zone, and the free-phase petroleum hydrocarbon pool using biologically-enhanced soil-vapor extraction (BSVE).
- Supplement BSVE remediation by selectively removing free product from existing groundwater monitoring wells.

- Treat the remaining dissolved-phase groundwater contamination with monitored natural attenuation after aggressive source removal is complete. ADEQ is withholding approval of this remediation technology pending completion of free-product removal to the maximum extent practicable (ADEQ, 2005a).

1.3 Summary of Activities

This quarterly status report summarizes the activities conducted or completed as part of the UST corrective action from October 2008 through December 2008:

- The fourth quarter 2008 groundwater sampling event was conducted from December 8, 2008 through December 16, 2008.
- Honeywell conducted three monthly water-level measurements and five additional rounds of manual free-product-specific monitoring/recovery during the fourth quarter 2008. As described in Section 2.2, the free-product monitoring/recovery schedule is based on the measured free-product thicknesses in individual monitoring wells in accordance with the *Groundwater Sampling and Free product Monitoring and Recovery Plan* (LUST FSP) (CH2M HILL, 2008a).
- Honeywell continued operation of an automated free-product skimming system, with weekly maintenance checks, in monitoring well ASE-67A. In accordance with the CAP, the system in monitoring well ASE-67A was shut down on December 3, 2008 after free-product thickness measurements and free-product recovery rates declined to levels below the CAP metric.
- The final round of monthly groundwater samples was collected on October 15, 2008 from recently-installed groundwater monitoring wells ASE-129A and ASE-130A in accordance with the LUST FSP (CH2M HILL, 2008a).
- Honeywell completed the second baseline soil-vapor monitoring and sampling event, which was initiated on September 29, 2008. Details of this monitoring and sampling event were documented in the *Second Baseline Soil Vapor Sampling Report, Honeywell 34th Street Facility, Facility ID No. 0-002227, LUST File No. 0393.02-.10, .15-*.17 (CH2M HILL, 2008b) submitted to ADEQ on December 19, 2008 and will not be discussed further in this quarterly status report.
- Construction activities associated with the BSVE remediation system, which began in April 2008, continued through the fourth quarter 2008.
- Progress was made on obtaining various permits including the wastewater and plumbing permits to prepare for initial startup of the BSVE system.
- Surveying associated with potholing work north of Runway 8-26 (Phase C) at the Phoenix Sky Harbor International Airport (PSHIA) was conducted. Based on the survey data, a proposed piping alignment for Phase C was developed and discussed with the City of Phoenix's (COP's) Aviation Department Design and Construction Services (DCS) staff during a design review meeting on November 19, 2008.

- Honeywell continued to evaluate the possible use of abandoned utilities, including a 12-inch sanitary sewer line and 18-inch and 21-inch stormwater drains that cross Runway 8-26 to connect the area south of the runway to the rest of the BSVE system, if necessary.

SECTION 2.0

Site Characterization Activities

This section describes groundwater and free-product data collected as part of Honeywell's ongoing UST monitoring program. Because there were no additional monitoring wells installed or associated soil samples collected during the reporting period (October 1, 2008 to December 31, 2008), this section does not include a discussion of soil data. For a discussion of historical soil data, see the *First Quarter Status Report for 2006, Honeywell 34th Street Facility, Facility ID No. 0-002227, LUST File Nos. 0393.02-.10, .15* (CH2M HILL, 2006a), the *Site Characterization Report, LUST Case File #0393.16, Honeywell 34th Street Facility, Facility ID No. 0-002227* (CH2M HILL, 2006b), the *Site Characterization Report Addendum, LUST Case File #0393.16, Honeywell 34th Street Facility, Facility ID No. 0-002227* (CH2M HILL, 2006c), and the *Third Quarter Status Report for 2008, Honeywell 34th Street Facility, Phoenix, Arizona, Facility ID No. 0-002227, LUST File Nos. 0393.02-.10, .15-.17* (CH2M HILL, 2008c). Groundwater data presented in this section were generated from samples collected during the fourth quarter groundwater sampling round conducted in December 2008, in accordance with the LUST FSP (CH2M HILL, 2008a). In addition, groundwater samples were collected from newly-installed groundwater monitoring wells ASE-129A and ASE-130A in October 2008 to complete the initial monthly sampling associated with new groundwater monitoring wells per the LUST FSP (CH2M HILL, 2008a).

This section presents a discussion of dissolved-phase contaminant concentrations and distribution, along with associated plan view plots of:

- Benzene.
- Methyl tert-butyl ether (MTBE).
- Naphthalene.
- Total recoverable petroleum hydrocarbons (TRPH).

A summary of the detected compounds in groundwater samples, collected in October 2008 as part of Honeywell's new monitoring well sampling program and December 2008 as part of Honeywell's quarterly UST monitoring program, is provided in Table 2-1 and Table 2-2. (All tables are provided at the end of this report.) Further discussions of non-fuel VOC detections, including detections of chlorinated VOCs at and around the Honeywell facility, are included in Honeywell's groundwater monitoring reports associated with the Facility's remedial investigation and its obligations under the Administrative Order on Consent with the ADEQ Federal Projects Unit (ADEQ, 1999). The most recent groundwater monitoring report will be submitted to ADEQ's Federal Projects Unit in early March 2009 (CH2M HILL, 2009).

This section also discusses groundwater elevations and free-product thickness measurements collected on December 4, 2008 and the historical maximum free-product thicknesses measured in Honeywell's UST monitoring wells since free product was first encountered in a monitoring well at the Facility in 1999. Data regarding Honeywell's free-product recovery efforts and recovered free-product volumes through fourth quarter 2008 are presented in Section 3.0.

Design and construction of the BSVE system at the Honeywell facility has resulted in the connection of 12 existing groundwater monitoring wells to the extraction/injection well network. As such, these monitoring wells are no longer available for Honeywell's monthly water-level monitoring and quarterly groundwater sampling events. As shown in Figure 2-1, the monitoring wells now connected to the BSVE system include wells ASE-20A, ASE-38A (monitoring well ASE-38A had not been connected to the BSVE system by the end of the fourth quarter 2008), ASE-39A, ASE-41A, ASE-46A, ASE-51A, ASE-53A, ASE-56A, ASE-57A, ASE-59A, ASE-66A, and PL-101A. These wells will now be monitored as part of the BSVE system operation.

Consistent with the ADEQ-approved modification to the 2005 LUST FSP (CH2M HILL, 2005) via email on May 8, 2008 (ADEQ, 2008b) and the 2008 LUST FSP (CH2M HILL, 2008a), which was approved by ADEQ on October 21, 2008 (ADEQ, 2008c), groundwater samples were not collected from monitoring wells containing free product in the well casing at the time of sampling.

2.1 Groundwater Elevations

Honeywell collects monthly water-level measurements in monitoring wells associated with the CAP (CH2M HILL, 2008a). As part of the overall groundwater monitoring program for the Honeywell facility, water levels are also measured quarterly in all other Honeywell groundwater monitoring wells. This section presents the results of the December 2008 evaluation of the groundwater levels and related groundwater flow directions in the area associated with the CAP. Hydrographs illustrating water-level elevations over time for each of Honeywell's UST monitoring wells are included in Appendix A.

Groundwater elevations for all existing non-dry UST monitoring wells at and near the Honeywell facility were measured on December 4, 2008. Water-level measurements were not obtained from monitoring wells ASE-20A, ASE-39A, ASE-41A, ASE-46A, ASE-51A, ASE-53A, ASE-56A, ASE-57A, ASE-59A, ASE-66A, and PL-101A during the December water-level round due to the connection of these wells to the BSVE system (monitoring well ASE-38A had not been connected to the BSVE system by December 4, 2008). The December 2008 groundwater elevations and associated water-level contours are presented in Figure 2-2 for the eastern portion of the Honeywell facility and PSHIA property for Sub-unit A. Similar to previous time periods, the overall direction of groundwater flow in this area was to the southwest, with a more westerly direction of groundwater flow in the northern portion of the Honeywell facility and south of PSHIA Runway 8-26, as shown in Figure 2-2.

A comparison of water-level elevations collected in September 2008 and December 2008 shows that water levels in measured monitoring wells rose in all but three wells (ASE-55A, ASE-99A, and ASE-110A) associated with the CAP during that time, as shown in Table 2-3. An anomalous water-level measurement reported for monitoring well ASE-55A in September 2008 (third quarter 2008) was the reason for the large difference (7.13 feet) in water levels in that well between September 2008 and December 2008 (CH2M HILL, 2008c). Water-level decreases in southern monitoring wells ASE-99A and ASE-110A were small (0.07 foot and 0.01 foot, respectively). Water-level increases for the remaining wells ranged

from 0.02 foot (ASE-98A) to 1.16 feet (ASE-64A), with an average rise of approximately 0.55 foot over the 3-month period across the monitored area.

Water levels in the vicinity of the Honeywell facility rose through the first, second, and third quarters of 2008 (CH2M HILL, 2008c). Water levels continued to rise during the first two months of the fourth quarter of 2008, averaging increases of 0.99 foot (September to October) and 0.64 foot (October to November) in wells available for monitoring (as previously discussed, some existing monitoring wells have been connected to the BSVE system and are no longer available for monthly water-level monitoring events). However, water levels declined in every available monitoring well associated with the CAP between November and December 2008 by an average of 1.13 feet. The water-level decreases were generally greatest in monitoring wells located in the southern portion of the area associated with the CAP. These wells are located closest to the Salt River which, as reported in previous quarterly status reports, has been the primary source of the localized rising and fluctuating water levels that have occurred since 2005. Groundwater elevations at and close to the Honeywell facility are generally influenced by discharges to, and flow within, the Salt River, which is located approximately 1 mile south of the Facility, in addition to infrequent localized heavy precipitation events. Hydrographs presented in Appendix A illustrate these water-level elevation changes in Honeywell's UST monitoring wells; the hydrographs also illustrate the anomalous water-level measurement collected in October 2008 in monitoring well ASE-68A.

As reported in previous quarterly reports, water levels at the Honeywell facility and the northern portion of PSHIA in recent years have not followed the long-term trend of regional decline. Honeywell's evaluation of water-level changes since 2005 has indicated that the general water-level trend in the vicinity of the Honeywell facility is relatively stable, with fluctuating water levels occurring throughout the year as a result of periodic discharges by the City of Mesa and City of Tempe to the Salt River, and occasionally large precipitation events. However, between the beginning of 2008 and November 2008, water levels consistently rose in monitoring wells in the area associated with the CAP. During that time period, many monitoring wells in the southern portion of the area associated with the CAP had increases in water levels by over 10 feet. The rising water levels in monitoring wells associated with the CAP, which dominated the majority of 2008, and the subsequent more recent water-level declines in December 2008, are evident in the hydrographs included in Appendix A. It is Honeywell's understanding that precipitation in the higher elevations of Arizona during the fourth quarter 2008 was above average, resulting in the Salt River reservoir system becoming full (or nearly full) and creating the likelihood for releases of water from the reservoirs into the Salt River during the first few months of 2009. Honeywell will continue to monitor water levels in the area associated with the CAP and will report these findings in subsequent quarterly monitoring reports.

2.2 Free Product

Historically, free product has been observed in 32 monitoring wells located on the Honeywell facility and PSHIA property. Honeywell monitors the thickness of free product in these and other monitoring wells near the free-product pool either monthly or biweekly. The monitoring schedule is based on the measured free-product thicknesses and is in

accordance with the LUST FSP (CH2M HILL, 2008a). In general, any monitoring well with a free-product thickness less than 0.1 foot is measured monthly, and any monitoring well with a free-product thickness greater than 0.1 foot is measured biweekly.

During the reporting period, monitoring wells ASE-107A, ASE-111A, and ASE-115A were measured approximately biweekly, as indicated in Table 2-4. The free-product thickness in monitoring well ASE-67A was measured approximately weekly, as indicated in Table 2-5, because this well contained an automated free-product recovery system that required weekly inspections. As described in Section 3.1, the automated free-product recovery system in monitoring well ASE-67A was removed from service on December 3, 2008 because recovery rates from this system declined to levels below the CAP metric. By design, the automated free-product skimmer system formerly operating in monitoring well ASE-67A controlled the free-product thickness in the well, so the reported free-product thicknesses for monitoring well ASE-67A prior to December 3, 2008 are not representative of equilibrium conditions.

Free-product thicknesses are illustrated in this quarterly status report for measurements collected on December 4, 2008 (the last complete monitoring round of the reporting period) and for historical maximum thicknesses, as shown in Figure 2-3 and Figure 2-4, respectively. Table 2-4 and Table 2-5 provide free-product thickness measurements collected during the reporting period for all monitoring wells where free product has been observed historically.

2.2.1 December 2008 Free-product Thicknesses

On December 4, 2008, Honeywell observed free product in 11 monitoring wells located on its property and PSHIA property, as shown in Figure 2-3. Ten of the 11 monitoring wells containing free product on December 4, 2008 also contained free product during the previous quarter's measurements, obtained on September 3, 2008. Monitoring well ASE-114A, which did not contain free product during the previous quarter's measurement, contained free product on December 4, 2008 at a thickness of 0.01 foot. Monitoring well ASE-114A has previously contained as much as 0.06 foot of free product. The maximum free-product thickness observed in any monitoring well on December 4, 2008 was 0.37 foot in monitoring well ASE-107A, as shown in Figure 2-3. The free-product thickness in monitoring well ASE-107A on December 4, 2008 was less than the maximum free-product thickness observed in this well prior to that date. All of the monitoring wells containing free product on December 4, 2008 previously contained free product at thicknesses greater than those measured in December 2008, with the exception of recently-installed (July 2008) monitoring well ASE-130A. The December 2008 free-product thickness of 0.04 foot in monitoring well ASE-130A, located within the central portion of the area associated with the CAP, exceeded the previous maximum free-product thickness in this well of 0.01 foot, which was observed on September 3, 2008.

A comparison to the previous quarter's free-product thickness measurements (collected on September 3, 2008) shows that free-product thicknesses were very similar and changes were minor between September 2008 and December 2008 (CH2M HILL, 2008c). Of the monitoring wells containing free product in one or both of the September 2008 and December 2008 full monitoring rounds, the thickness of product increased in two monitoring wells (ASE-114A and ASE-130A), decreased in seven monitoring wells (ASE-64A, ASE-67A, ASE-89A, ASE-91A, ASE-107A, ASE-111A, and ASE-115A), and remained the same in two monitoring

wells (ASE-90A and ASE-102A). None of the existing monitoring wells connected to the BSVE system contained measurable amounts of free product during the monitoring round conducted in September 2008.

The December 2008 free-product thickness measurements indicate that the free product was limited to two separate areas, generally similar to previous reporting periods, as shown in Figure 2-3. North of Air Lane on the Honeywell facility, free product was detected in monitoring wells ASE-67A, ASE-111A, and ASE-115A. South of Air Lane and onto PSHIA property, free product was detected in monitoring wells ASE-64A, ASE-89A, ASE-90A, ASE-91A, ASE-102A, ASE-107A, ASE-114A, and ASE-130A. Both of these free-product areas are delineated further by monitoring wells that did not contain free product, as shown in Figure 2-3.

2.2.2 Historical Free-product Thicknesses and Extent

As stated above, free product historically has been observed in 32 different monitoring wells located on the Honeywell facility and PSHIA property. The maximum free-product thickness measured in any of Honeywell's monitoring wells since April 1999—when free product was first encountered in a monitoring well at the Honeywell facility—was 4.52 feet in monitoring well ASE-67A on July 26, 2005, as shown in Figure 2-4. One free product thickness measurement collected during the fourth quarter 2008 reporting period exceeded the maximum historical thickness for that monitoring well (ASE-130A). This is indicated in Table 2-6, which compares the maximum historical free-product thicknesses in each monitoring well to the free-product thickness measurements collected in December 2008.

The historical free-product thickness measurements show that the cross-gradient extent of the free-product pool can be defined historically by groundwater monitoring wells ASE-54A and ASE-66A to the northwest and by monitoring wells BC-7A and ASE-127A to the southeast. The upgradient (northeast) extent of the free-product pool can be delineated by monitoring wells ASE-59A, ASE-60A, and ASE-61A. According to the historical thickness measurements, the downgradient (south-southwest) extent of the free-product pool can be defined by monitoring wells ASE-46A, PL-201A, ASE-62A, ASE-65A, ASE-126A, ASE-97A, BC-8B, ASE-95A, ASE-124A, ASE-106A, ASE-100A, ASE-101A, ASE-128A, ASE-98A, ASE-99A, ASE-110A, ASE-109A, ASE-123A, ASE-122A, ASE-112A, and ASE-105A, as shown in Figure 2-4.

Monitoring wells ASE-108A (installed in March 2005) and ASE-116A (installed in December 2005) have never contained free product but, given their locations either very near a monitoring well containing free product (ASE-108A) or between sets of monitoring wells containing free product (ASE-116A), these wells remain within the historical extent of free-product delineation illustrated in Figure 2-4 and as part of the target treatment area for the approved remedy.

2.2.3 Corrective Action Plan Metric Exceedances

As shown in Table 2-4 and Table 2-5, during the fourth quarter 2008, there were no confirmed exceedances of the 0.75-foot thickness metric established in the CAP (CH2M HILL, 2004a-b) and the LUST FSP (CH2M HILL, 2008a). Free product was measured at a thickness above 0.75 foot in one monitoring well (ASE-107A, 0.92 foot) on October 1,

2008; however, none of the measurements during the subsequent 6-week period exceeded that metric. Therefore, in accordance with the CAP and LUST FSP, the October 1, 2008 measurement was considered anomalous, and the metric was not considered to have been exceeded.

2.3 Groundwater Quality

As stated above, in accordance with Honeywell's LUST FSP (CH2M HILL, 2008a), Honeywell performs quarterly evaluations of the groundwater quality in the area associated with the CAP.

Water quality samples were collected from 44 monitoring wells between December 8, 2008 and December 16, 2008 as part of the quarterly UST monitoring program. Analytical results from these monitoring wells are discussed below and are presented in Table 2-1 and Figure 2-5 through Figure 2-8. Two monitoring wells (ASE-129A and ASE-130A) were also sampled on October 15, 2008, completing the monthly sampling requirements established for newly-installed monitoring wells per the LUST FSP (CH2M HILL, 2008a). Analytical results from the October samples are presented in Table 2-1 and Table 2-2. Complete laboratory analytical reports and the data validation report for all groundwater samples collected during the fourth quarter 2008 are contained in Appendix B.

Twenty-three monitoring wells associated with the CAP were not sampled in December 2008. These wells are flagged accordingly in Figure 2-5 through Figure 2-8. Groundwater samples were not collected from 11 monitoring wells connected to the BSVE system at the time of sampling (ASE-20A, ASE-39A, ASE-41A, ASE-46A, ASE-51A, ASE-53A, ASE-56A, ASE-57A, ASE-59A, ASE-66A, and PL-101A). Groundwater samples were also not collected from 11 monitoring wells due to the presence of free product in the well casing at the time of sampling (ASE-64A, ASE-67A, ASE-89A, ASE-90A, ASE-91A, ASE-102A, ASE-107A, ASE-111A, ASE-114A, ASE-115A, and ASE-130A) per the LUST FSP (CH2M HILL, 2008a). Finally, a groundwater sample was not collected from monitoring well ASE-19A during the December 2008 sampling event because there was not a sufficient amount of groundwater in the monitoring well casing to collect a representative sample. It is important to note that the contaminant plume contours in Figure 2-5 through Figure 2-7 were not adjusted in the vicinity of monitoring wells, which were not sampled solely due to lack of December 2008 data. A conservative approach was taken, and the previous concentrations in those monitoring wells were honored during contouring of the fourth quarter 2008 water quality data. The plume contours near unsampled monitoring wells were only modified if analytical results from nearby sampled wells supported the changes.

Figure 2-5 through Figure 2-8 are plan-view maps that contain posted water quality data. Concentration contours are presented along with the posted data for benzene, MTBE, and naphthalene in Figures 2-5, 2-6, and 2-7, respectively. These contours delineate areas exceeding regulatory standards or guidance levels and standard laboratory detection limits.

2.3.1 Benzene

Benzene was detected in groundwater throughout the eastern portion of the Honeywell facility and on PSHIA property in December 2008, generally consistent with the historical areal extent of the free-product pool. The maximum concentration of benzene in December

2008 occurred in monitoring well ASE-63A (2,000 micrograms per liter [µg/L]), as shown in Figure 2-5. This concentration was lower than the previous quarter's maximum benzene concentration (2,700 µg/L) that also occurred in monitoring well ASE-63A. Consistent with the data from September 2008 and prior sampling rounds, the highest benzene concentrations in September 2008 occurred in monitoring wells associated with the Area 2 fuel farm (ASE-63A, 2,000 µg/L; ASE-38A, 620 µg/L). Concentrations of benzene exceeding the USEPA maximum contaminant level (MCL) (5 µg/L) were detected on the Honeywell facility in December 2008 and historically beneath the northern portion of PSHIA, as shown in Figure 2-5.

The December 2008 benzene concentrations were generally similar to the September 2008 benzene concentrations, with some variability across the monitored area. The most significant increase in benzene concentration was observed in monitoring well ASE-116A, located south of the Area 2 fuel farm, which increased from 55 µg/L in September 2008 to 160 µg/L in December 2008. Benzene was detected in three monitoring wells in December 2008 (ASE-58A, 1.2 µg/L; ASE-62A, 0.9 µg/L; and ASE-65A, 1.4 µg/L). These wells did not have detectable levels of benzene in September 2008.

The most significant decrease in benzene concentration was observed in monitoring well ASE-63A, located south of the Area 2 fuel farm, which decreased from 2,700 µg/L in September 2008 to 2,000 µg/L in December 2008. Benzene was not detected above the minimum reporting limit (0.5 µg/L) in monitoring well ASE-112A in December 2008. This monitoring well had a detectable concentration of benzene in September 2008 (1.4 µg/L).

Given the southwesterly direction of groundwater flow in the area, the extent of benzene concentrations exceeding the MCL continues to be delineated in all directions. The upgradient (northeast) extent is delineated by monitoring wells ASE-60A and ASE-61A. The cross-gradient extent is delineated by monitoring wells PL-2101 and ASE-54A to the northwest and by monitoring wells ASE-127A and BC-7A to the southeast, as illustrated in Figure 2-5. The downgradient (south-southwest) extent of benzene exceeding the MCL is delineated by monitoring wells ASE-58A, PL-201A, ASE-62A, ASE-65A, BC-18, ASE-126A, ASE-97A, BC-8B, ASE-95A, ASE-124A, ASE-96A, ASE-106A, ASE-99A, ASE-110A, and ASE-113A, as shown in Figure 2-5. Additional monitoring wells downgradient of the Honeywell facility did not contain detectable levels of benzene, as indicated in Figure 2-5.

2.3.2 Methyl Tert-butyl Ether

Consistent with previous sampling rounds, MTBE was detected in groundwater samples collected from the eastern portion of the Honeywell facility and PSHIA property in December 2008. The maximum concentration of MTBE in December 2008 occurred in monitoring well ASE-92A (190 µg/L), located along the southern boundary of the Honeywell facility, as shown in Figure 2-6. This concentration was lower than the September 2008 maximum MTBE concentration (620 µg/L) that was detected in monitoring well ASE-115A. Monitoring well ASE-115A was not sampled in December 2008 due to the presence of free product in the well casing at the time of sampling. The previous MTBE concentration measured in monitoring well ASE-92A was 270 µg/L in September 2008.

Concentrations of MTBE exceeding its ADEQ-recommended Tier 1 remedial level of 94 µg/L—the remedial level that should be used when an existing drinking water receptor

is not affected or is not potentially affected by MTBE (ADEQ, 2002)—were detected both on the Honeywell facility and beneath the northern portion of PSHIA, as shown in Figure 2-6. Monitoring wells exceeding the ADEQ-recommended Tier 1 remedial level in December 2008 included ASE-52A (130 µg/L), ASE-63A (120 µg/L), ASE-92A (190 µg/L), BC-8B (110 µg/L), and ASE-96A (94 µg/L).

In general, changes in concentrations of MTBE in December 2008 were variable as compared to the previous quarter for monitoring wells located on the Honeywell facility and PSHIA property. The area that exceeded the Tier 1 remedial level (94 µg/L) decreased slightly to the west and east relative to the previous quarter, with contour adjustments resulting from the small decreases in MTBE concentrations in monitoring wells PL-105A (97 µg/L in September 2008 to 91 µg/L in December 2008) and ASE-92A (270 µg/L in September 2008 to 190 µg/L in December 2008). Conversely, the area that exceeded the Tier 1 remedial level to the southwest expanded slightly due to an increase in concentration from 57 µg/L in September 2008 to 110 µg/L in December 2008 in monitoring well BC-8B.

In December 2008, MTBE was not detected in one monitoring well that had detectable concentrations of MTBE during the previous sampling round (ASE-105A, 1.1 µg/L). Consequently, the extent of the December 2008 MTBE plume was reduced slightly to the east in the vicinity of this monitoring well, as shown in Figure 2-6. Conversely, MTBE was detected in three monitoring wells in December 2008 (ASE-65A, 0.8 µg/L; BC-18, 18 µg/L; and ASE-106A, 0.7 µg/L) that did not have detectable concentrations of MTBE during the previous sampling round for each well. Monitoring well BC-18 was last sampled in September 2001 because this well has been dry, or there was not a sufficient amount of groundwater in the monitoring well casing to collect a representative sample, until December 2008. Because analysis of MTBE at the Honeywell facility did not begin until November 2001, historical MTBE concentrations in monitoring well BC-18 are not available. The western and southeastern extents of MTBE in December 2008 were expanded slightly to account for these detections.

Given the south-southwesterly direction of groundwater flow in the area, the extent of MTBE concentrations exceeding its Tier 1 remedial level is delineated in all directions. The upgradient (northeast) extent is delineated by monitoring wells ASE-60A and ASE-61A. The cross-gradient extent is delineated by monitoring wells ASE-68A and PL-2101 to the northwest and by monitoring wells ASE-38A, ASE-37A, ASE-127A, and ASE-105A to the southeast. The downgradient (south-southwest) extent of MTBE exceeding its Tier 1 remedial level is delineated by monitoring wells PL-201A, ASE-108A, PL-105A, ASE-97A, ASE-95A, ASE-124A, ASE-100A, ASE-101A, and ASE-106A. Additional monitoring wells on and downgradient of the Honeywell facility did not contain detectable levels of MTBE.

Based on the December 2008 data, the extent of the MTBE plume on PSHIA property continues to be delineated to ADEQ's investigative level of 20 µg/L by monitoring wells BC-18, ASE-125A, ASE-95A, ASE-103A, and ASE-124A to the west and southwest and by monitoring wells ASE-128A, ASE-101A, ASE-99A, ASE-106A, ASE-113A, and ASE-105A to the south, southeast, and east.

2.3.3 Naphthalene

Naphthalene was detected in groundwater throughout the eastern portion of the Honeywell facility and beneath PSHIA property, as shown in Figure 2-7. This distribution was generally consistent with the historical extent of the free-product pool, although the naphthalene plume extended further southwest in December 2008.

The maximum concentration of naphthalene in December 2008 occurred in monitoring well ASE-63A (160 µg/L), located south of the Area 2 fuel farm, as shown in Figure 2-7. This concentration was lower than the September maximum naphthalene concentration (270 µg/L) that was detected in monitoring well ASE-51A. Monitoring well ASE-51A was not sampled in December 2008 due to the presence of free product in the well casing at the time of sampling. The December 2008 naphthalene concentration in monitoring well ASE-63A was lower than the concentration detected in this monitoring well in September 2008 (190 µg/L). Other naphthalene concentrations detected in monitoring wells in December 2008 ranged from 5.4 µg/L (ASE-68A) to 69 µg/L (ASE-92A) and did not exceed the health-based guidance level (280 µg/L). As such, there is no 280 µg/L contour illustrated in Figure 2-7.

Naphthalene was not detected in three monitoring wells (ASE-62A, ASE-65A, and ASE-127A) in December 2008 that had detectable levels of naphthalene during the previous sampling round (September 2008). As a result of the decrease in naphthalene concentration in monitoring wells ASE-62A and ASE-65A, the contour in Figure 2-7 illustrating the extent of naphthalene detections for December 2008 does not extend as far west in that area as compared to the September 2008 naphthalene extent. The decrease in naphthalene concentration in monitoring well ASE-127A resulted in a slight shift westward of the eastern contour in the vicinity of that monitoring well.

2.3.4 Total Recoverable Petroleum Hydrocarbons

TRPH consists of the sum of compounds with the carbon range C_{10} to C_{32}. TRPH compounds were detected throughout the area associated with the CAP in December 2008. In general, changes in concentrations of TRPH in December 2008 were variable as compared to the previous quarter. The maximum TRPH concentration in December 2008 was 4,000J µg/L in monitoring well PL-201A, located in the parking lot west of Building 140 on the Honeywell facility, as shown in Figure 2-8. The maximum concentration of TRPH in the previous monitoring round (September 2008) was detected in monitoring well ASE-55A (31,320 µg/L), located adjacent to the Area 1 fuel farm.

TRPH concentrations exceeding 1,000 µg/L were detected in eight monitoring wells in December 2008, with all of the wells located on the Honeywell facility. In September 2008, there was one monitoring well located on PSHIA property with a TRPH concentration exceeding 1,000 µg/L (ASE-89A). This monitoring well was not sampled in December 2008 due to the presence of free product in the well casing at the time of sampling. Unlike the benzene distributions, the highest TRPH concentrations were not found in the area adjacent to the Area 2 fuel farm. Rather, the majority of the maximum concentrations were detected in monitoring wells located downgradient of a known historical fuel release from the original Area 2 fuel farm (southwest corner of Building 230), as shown in Figure 2-8.

Thirteen of the 22 monitoring wells located on PSHIA property sampled in December 2008 did not contain detectable levels of TRPH.

TRPH was detected in three monitoring wells in December 2008 that did not have detections of TRPH during the previous sampling round, with concentrations ranging from 37J µg/L (ASE-95A) to 292J µg/L (ASE-96A). Conversely, TRPH was not detected in two monitoring wells in December 2008 that had detections of TRPH during the previous sampling round (ASE-62A and ASE-129A).

SECTION 3.0

Site Remediation Activities

This section summarizes the scope and results of activities associated with remediation of the Honeywell facility that were conducted during the fourth quarter 2008.

3.1 Free-product Recovery

During the fourth quarter 2008, Honeywell continued biweekly manual recovery of free product from monitoring wells with free-product thicknesses greater than 0.1 foot. A portable free-product pump, the Spill Buddy Pro™ from Clean Earth Technology, was used to manually recover the free product.

Free product was also recovered from monitoring well ASE-67A using an automatic free-product skimming pump that operated in the well during the majority of the fourth quarter of 2008. The pump, the Magnum Spill Buster™ from Clean Earth Technology, was installed in monitoring well ASE-67A on December 24, 2005 in conformance with the CAP free-product monitoring and recovery requirements. During the fourth quarter 2008, however, free-product thickness measurements and free-product recovery rates in monitoring well ASE-67A declined to levels below the CAP metric for operation of an automated skimmer system (a free-product thickness less than 0.75 foot and a free-product recovery rate less than 2 gallons per month for 2 consecutive months). As a result, the automatic dedicated free-product pump in monitoring well ASE-67A was shut down on December 3, 2008, and this well was incorporated back into the biweekly monitoring/ manual recovery program. Overall, the system installed in monitoring well ASE-67A recovered a total of 179.5 gallons of free product in 1,049 days of operation (5.1 gallons per month).

Approximately 4.2 gallons of free product, including 3.4 gallons from monitoring well ASE-107A, were recovered during the fourth quarter 2008, as indicated in Table 3-1. This compares to the approximate 5.1 gallons recovered during the third quarter 2008, 8.1 gallons recovered during the second quarter 2008, 5.0 gallons recovered during the first quarter 2008, and 13.7 gallons recovered during the fourth quarter 2007 (CH2M HILL, 2008c). Approximately 7,272 gallons have been recovered using skimming technologies since free-product recovery efforts began on June 1, 1999. Table 3-1 summarizes the amount of free product recovered at each monitoring well that historically has had measurable free product.

3.2 Biologically-enhanced Soil-vapor Extraction

At the request of the COP Aviation Department, the BSVE project is now addressed as four phases as shown in Figure 3-1 and presented below:

- Phase A – Honeywell-owned parcels north of Air Lane
- Phase B – Honeywell-property leased from the COP south of Air Lane
- Phase C – PSHIA property north of Runway 8-26

- Phase D – PSHIA property south of Runway 8-26 and north of Taxiway C

Field monitoring and analytical results of the BSVE system wells during the fourth quarter 2008 as part of the second BSVE baseline soil-vapor monitoring and sampling event were reported to ADEQ in the *Second Baseline Soil Vapor Sampling Report, Honeywell 34th Street Facility, Facility ID No. 0-002227, LUST File No. 0393.02-.10, .15-.20* (CH2M HILL, 2008b), which was submitted to ADEQ on December 19, 2008.

3.2.1 BSVE Construction Activities—Honeywell Facility (Phases A and B)

During the fourth quarter 2008, the following milestones were achieved:

- The Operation and Maintenance Plan was submitted to ADEQ on November 7, 2008, and functional testing of the air treatment equipment (excluding the thermal oxidizer) began 10 days later.
- Installation of aboveground piping was completed.
- Installation of process piping interconnecting the air treatment equipment was completed, and the fire suppression system was put in place.
- Installation of underground piping progressed in areas of the Facility that are congested and that contain some of the highest concentration of subsurface utilities.
- The 44-foot-tall BSVE process stack was installed adjacent to the BSVE air treatment pad.
- Electrical power was connected to the air treatment equipment.
- The tap into the COP water line was completed, and installation of the wastewater lift station began.
- The natural gas pipeline was completed on December 19, 2008, and functional testing of the thermal oxidizer began shortly thereafter.
- Jack-and-bore work below the Union Pacific Railroad tracks that run parallel to Air Lane was completed such that the three pipe sleeves connecting the piping network north of Air Lane with the piping network south of Air Lane are in place.

Trenching and subsequent installation of subsurface piping beneath Air Lane was deferred until January 2009 due to the COP's holiday moratorium (mid to late December) on construction activities in and around PSHIA.

3.2.2 BSVE Permitting

During the fourth quarter 2008, various permits were obtained, including the wastewater permit and plumbing permit, in preparation for initial startup of the BSVE system. On December 8, 2008, the COP Water Services Department issued a modified Class A Wastewater Discharge Permit (No. 0812-1510) for discharges associated with the BSVE system. On November 17, 2008, the COP issued the plumbing permit for the BSVE system water tap. In addition, on November 17, 2008, the Maricopa County Air Quality Department approved the *Operation and Maintenance Plan for the BSVE Air Pollution Control Equipment* (CH2M HILL, 2008d) for each of the BSVE operating scenarios.

3.2.3 BSVE Design Activities (Phase C)

Early in the fourth quarter 2008, surveying associated with the potholing work north of Runway 8-26 at PSHIA was conducted. Based on the survey data, a proposed piping alignment for Phase C was developed and discussed with the COP Aviation Department DCS staff during a design review meeting on November 19, 2008. Because the proposed piping alignment was within the Runway Safety Area (i.e., within 250 feet of the runway's centerline), additional review by Airport Operations was required. In addition, it was decided to engage the selected Construction Manager-at Risk (CMR) firm (see below) to perform an analysis of the options inside and outside the Runway Safety Area.

On October 2, 2008, the COP Aviation Department held a pre-submittal meeting for the CMR contract that will support the Honeywell team with design and construction services for BSVE Phases C and D. Multiple firms submitted qualification packages by October 10, 2008. The qualifications packages were screened, and three firms were selected for interviews in mid-November. In late November, Kiewit Western was selected as the CMR. A scoping meeting with Kiewit Western, COP, Honeywell, and CH2M HILL was held on December 9, 2008. During the scoping meeting, it was decided that CH2M HILL would need to prepare a conceptual (30-percent) design in early first quarter 2009 to provide Kiewit Western with the information necessary to evaluate the piping alignment options inside and outside the Runway Safety Area. Work on the 60-percent design for Phase C will not progress until the piping options have been evaluated and the desired option has been selected.

3.2.4 BSVE Design Activities (Phase D)

During the fourth quarter 2008, the feasibility of using the 12-inch sanitary sewer line and 18-inch and 21-inch stormwater drains that cross beneath PSHIA's Runway 8-26 continued to be investigated. Based on successful video logging of the two abandoned storm drains, Honeywell met with the COP on November 6, 2008 to determine the COP requirements for obtaining approval to use the stormwater drains. COP Engineering and Stormwater staff requested that Honeywell write a letter requesting authorization to use either or both of the storm drains at the appropriate time in the future if their use is necessary to remediate the area south of the runway. The COP also said that as plans are developed to use these lines, Honeywell should coordinate with the COP Aviation Department and verify that these lines are clearly marked as being used by Honeywell.

During video logging of the abandoned 12-inch sanitary sewer line on September 23, 2008, sludge material was discovered within the line that blocked the camera lens, preventing the feasibility study from being completed. Honeywell worked with staff from the COP Water Services Department and Aviation Environmental Group to collect a sample from the line on November 6, 2008 for determination of appropriate disposition. The sample results were pending as of the close of the fourth quarter 2008. However, given the age of the sanitary sewer line, type of pipe (vitrified clay), potential for significant repair costs prior to use, and confirmation of the ability to use either of the abandoned storm drains, Honeywell has decided the abandoned 12-inch sanitary sewer line will not be used in the Phase D design.

During the fourth quarter 2008, Honeywell received various documents from the COP regarding the status of environmental investigations near the terminals and BSVE target

treatment area on the north airfield of PSHIA. Honeywell is using this supplemental information as part of its alternatives screening process for Phase D and will prepare a draft technical memorandum summarizing the Phase D alternatives screening process.

SECTION 4.0

Summary of Planned Work

Activities planned between January 2009 and March 2009 are described below by type of work or by phase, in the case of BSVE-related tasks.

4.1 Phases A and B

During the first quarter 2009, functional testing and shakedown of the BSVE system will continue. Completion of the thermal oxidizer functional testing continues to lag behind the rest of the system due to leaks (currently being repaired) at the crossover duct between the thermal oxidizer and quench section of the scrubber, discovered during initial low temperature testing with ambient air. The sewer lift station will be completed by early to mid first quarter 2009, and COP final inspections for electrical, plumbing, mechanical, structural and fire suppression are expected to occur in mid to late first quarter 2009. Upon successful completion of the functional testing and following COP inspection approval, the BSVE process wells will be brought online sequentially beginning in late first quarter or early second quarter 2009. Completion of the underground piping, valve vaults, and low-point drains is anticipated to be completed in late first quarter 2009. Demobilization is expected to occur in early to mid second quarter 2009.

Trenching and installation of subsurface piping in Air Lane will be performed during January 2009. It will be necessary to obtain COP approval of a Traffic Control Plan involving full road closure for an entire weekend in January, followed by approximately 2 weeks of single lane restrictions of Air Lane.

The scheduled quarterly field measurement monitoring event for oxygen, carbon dioxide, methane, and percent lower explosive limit at the PSHIA monitoring wells and subsurface utility vaults is scheduled to begin in late first quarter 2009 as part of the BSVE operation and maintenance soil-vapor monitoring. The quarterly BSVE operation and maintenance soil-vapor monitoring event will include the collection of soil-vapor samples from the new PSHIA and Honeywell monitoring wells, as well as the collection of soil-vapor samples from the PSHIA and Honeywell subsurface utility vaults, as described in the *Operations and Maintenance Plan for the Biologically-enhanced Soil Vapor Extraction System* (CH2M HILL, 2008e).

4.2 Phase C

The conceptual 30-percent design for BSVE Phase C will be submitted to COP and Kiewit Western for evaluation prior to a design review meeting in mid-January. During this meeting, alternatives for the main east-west piping alignment will be discussed and a preferred alignment will be selected by early to mid first quarter 2009. Depending on the location of the alignment, it may be necessary to perform additional potholing and surveying work before taking the BSVE Phase C design to 60 percent. As a parallel effort, a

Tenant Improvement package for the proposed BSVE process wells to be installed on PSHIA as part of Phase C will be submitted to the Aviation Department during the first quarter 2009.

4.3 Phase D

In the first quarter 2009, a draft technical memorandum that provides the results of the Phase D technology screening and remedial alternatives analysis will be provided to the COP Aviation Environmental Department, DCS, and Kiewit Western for review and comment. Once the technical memorandum has been finalized, a Final Alternatives Report for Phase D will be prepared and submitted to ADEQ.

4.4 Groundwater and Free-product Monitoring

Honeywell will conduct the first quarter groundwater sampling event for 2009 (tentatively scheduled for March 9 through March 13, 2009), monthly water-level measurements, and biweekly and monthly free-product monitoring and recovery in accordance with the LUST FSP (CH2M HILL, 2008a).

SECTION 5.0

Summary of Problems and Delays

A groundwater sample was not collected from monitoring well ASE-19A during the December 2008 sampling event because there was not a sufficient amount of groundwater in the monitoring well casing to collect a representative sample. TRPH was not analyzed for the sample collected from monitoring well ASE-122A because the container for that sample/ analysis was broken upon receipt by the laboratory.

For BSVE Phase A and B, following delays in finalization of the three-way agreement between Honeywell, COP, and Southwest Gas, there were field delays associated with extending the natural gas header down Air Lane to supply the thermal oxidizer. Following these delays, the natural gas pipeline was connected to the BSVE system on December 19, 2008, and functional testing of the thermal oxidizer began the following week. As discussed in Section 4.1, during low-temperature testing of the thermal oxidizer with ambient air, a leak was discovered in the crossover duct that leads from the thermal oxidizer to the quench section of the scrubber. The repairs to the crossover duct, which are estimated to be completed in late first quarter 2009, have delayed high-temperature functional testing of the thermal oxidizer and subsequent startup of the system. Trenching and subsequent installation of subsurface piping beneath Air Lane was deferred until January 2009 due to the COP's holiday moratorium (mid to late December) on construction activities in and around PSHIA.

For BSVE Phase C, the potholing and surveying data collected in September and October 2008 indicated a number of subsurface utilities north of the Runway Safety Area on the north airfield of PSHIA. As a result, a piping alignment within the Runway Safety Area was proposed; however, this triggered additional review by DCS and Airport Operations. As a result, the 60-percent design was placed on hold until the new CMR (Kiewit Western) could perform an evaluation of the piping alignment north of Runway 8-26 and make a recommendation to the project team. To accomplish this task, it was necessary for CH2M HILL to prepare a conceptual design, which will be submitted to the COP and Kiewit Western in early January 2009. Once the preferred alignment has been selected, CH2M HILL will evaluate the need for performing additional potholing and surveying on the north airfield before continuing work on the 60-percent design.

SECTION 6.0

Status of Deliverables

The following is a list of deliverables submitted through fourth quarter 2008 since the *Site Characterization Report,* dated August 23, 2002, was submitted to ADEQ:

- On December 19, 2008, CH2M HILL, on behalf of Honeywell, submitted to ADEQ the *Second Baseline Soil Vapor Sampling Report, Honeywell 34th Street Facility, Facility ID #0-002227, LUST File #0393.02-.10, .15-.20.*
- On December 1, 2008, CH2M HILL, on behalf of Honeywell, submitted to ADEQ the *Third Quarter Status Report for 2008, Honeywell 34th Street Facility, Facility ID #0-002227, LUST File #0393.02-.10, .15-.17.*
- On November 20, 2008, CH2M HILL, on behalf of Honeywell, submitted to ADEQ the draft *Startup Plan for the Biologically Enhanced Soil Vapor Extraction System, Honeywell 34th Street Facility*.
- On November 7, 2008, CH2M HILL, on behalf of Honeywell, submitted to ADEQ the Final *Biologically-enhanced Soil Vapor Extraction System Operations and Maintenance Plan, Honeywell 34th Street Facility, Facility ID #0-002227, LUST File #0393.02-.10, .15-.17.*
- On October 24, 2008, CH2M HILL, on behalf of Honeywell, submitted to ADEQ the *First Baseline Soil Vapor Sampling Report, Honeywell 34th Street Facility, Facility ID #0-002227, LUST File #0393.02-.10, .15-.17.*
- On October 3, 2008, CH2M HILL, on behalf of Honeywell, submitted to ADEQ the *Groundwater Sampling and Free-product Monitoring and Recovery Plan, Honeywell 34th Street Facility, Facility ID #0-002227, LUST File #0393.02-.10, .15-.17.*
- On September 26, 2008, CH2M HILL, on behalf of Honeywell, submitted to ADEQ a technical memorandum titled, *Investigation of Concrete Conduit Encountered During BSVE Construction, Honeywell 34th Street Facility, Phoenix, Arizona*.
- On August 26, 2008, CH2M HILL, on behalf of Honeywell, submitted to ADEQ the *Second Quarter Status Report for 2008, Honeywell 34th Street Facility, Facility ID #0-002227, LUST File #0393.02-.10, .15-.17.*
- On June 17, 2008, CH2M HILL, on behalf of Honeywell, submitted to ADEQ the *Honeywell 34th Street Facility, BSVE North of Runway 8-26 Phase Design Basis Report (PSHIA side), Facility ID #0-002227, LUST File #0393.02.-10, .15-.17.*
- On May 23, 2008, CH2M HILL, on behalf of Honeywell, submitted to ADEQ the *First Quarter Status Report for 2008, Honeywell 34th Street Facility, Facility ID #0-002227, LUST File #0393.02-.10, .15-.17.*
- On April 18, 2008, CH2M HILL, on behalf of Honeywell, submitted to ADEQ an update to the *Non-Process Soil Vapor Monitoring Program, Honeywell 34th Street Facility, Facility ID #0-002227, LUST File #0393.02-.10, .15-.17.*

- On February 26, 2008, CH2M HILL, on behalf of Honeywell, submitted to ADEQ the *Fourth Quarter Status Report for 2007, Honeywell 34th Street Facility, Facility ID No. 0-002227, LUST File Nos. 0393.02-.10, .15-.17.*
- On February 20, 2008, CH2M HILL, on behalf of Honeywell, submitted to ADEQ the *Biologically-Enhanced Soil Vapor Extraction Underground Process Pipeline Installation – Soil Observation Plan*.
- On February 19, 2008, Honeywell submitted a letter to ADEQ requesting approval for modification to the approved CAP to revise the BSVE remediation project schedule based on receipt of Maricopa County's approval of Honeywell's air permit modification.
- On November 21, 2007, CH2M HILL, on behalf of Honeywell, submitted to ADEQ the *Third Quarter Status Report for 2007, Honeywell 34th Street Facility, Facility ID No. 0-002227, LUST File Nos. 0393.02-.10, .15-.17.*
- On August 22, 2007, CH2M HILL, on behalf of Honeywell, submitted to ADEQ the *Second Quarter Status Report for 2007, Honeywell 34th Street Facility, Facility ID No. 0-002227, LUST File Nos. 0393.02-.10, .15-.17.*
- On August 17, 2007, CH2M HILL, on behalf of Honeywell, submitted to ADEQ the *Non-Process Soil Vapor Monitoring Program, Honeywell 34th Street Facility, Facility ID No. 0-002227, LUST File Nos. 0393.02-.10, .15-.17.*
- On August 17, 2007, CH2M HILL, on behalf of Honeywell, submitted to ADEQ a courtesy copy of the revised BSVE design package that was submitted to the COP Development Services Department on August 9, 2007 and the Aviation Department's Tenant Improvement group on August 10, 2007. This package was composed of design drawings, specifications, and a Tenant Improvement Plan.
- On May 23, 2007, CH2M HILL, on behalf of Honeywell, submitted to ADEQ the *First Quarter Status Report for 2007, Honeywell 34th Street Facility, Facility ID No. 0-002227, LUST File Nos. 0393.02-.10, .15-.17.*
- On May 15, 2007, Honeywell submitted to ADEQ a technical memorandum titled, *Evaluation of Well Dilution Effects, Honeywell 34th Street Facility and Phoenix Sky Harbor International Airport, Phoenix, Arizona.*
- On April 30, 2007, CH2M HILL, on behalf of Honeywell, submitted to ADEQ a courtesy copy of the BSVE design package that was submitted to the COP Development Services Department and the Aviation Department's Tenant Improvement group. This package was composed of design drawings, specifications, and a Tenant Improvement Plan.
- On March 19, 2007, CH2M HILL, on behalf of Honeywell, submitted to ADEQ the *Biologically Enhanced SVE with Product Recovery System Design Basis Report Honeywell International 34th Street Facility*, Facility ID No. 0-002227, LUST File Nos. 0393.02-.10, .15-.17.
- On February 27, 2007, Honeywell submitted a letter to ADEQ requesting approval for modification to the approved CAP to reflect delays in obtaining the BSVE air permit and adjust the frequency of manual free-product monitoring and recovery.

- On February 27, 2007, CH2M HILL, on behalf of Honeywell, submitted to ADEQ the *Fourth Quarter Status Report for 2006, Honeywell 34th Street Facility, Facility ID No. 0-002227, LUST File Nos. 0393.02-.10, .15-.17.*
- On November 29, 2006, CH2M HILL, on behalf of Honeywell, submitted to ADEQ the *Third Quarter Status Report for 2006, Honeywell 34th Street Facility, Facility ID No. 0-002227, LUST File Nos. 0393.02-.10, .15.*
- On November 29, 2006, CH2M HILL, on behalf of Honeywell, submitted to ADEQ the *Field Sampling Plan for PSHIA Subsurface Utility Vaults for Baseline Air Sampling Using EPA Method TO-15, Honeywell 34th Street Facility, Facility ID No. 0-002227, LUST File Nos. 0393.02-.10, .15.*
- On October 20, 2006, CH2M HILL, on behalf of Honeywell, submitted to ADEQ the *Air Injection Pilot Test Report Honeywell 34th Street Facility, Facility ID No. 0-002227, LUST File Nos. 0393.02-.10, .15.*
- On September 15, 2006, Honeywell submitted a letter to ADEQ proposing to modify the scheduled submittal dates of quarterly status reports such that future reports are submitted to ADEQ no later than 60 days following the end of each calendar quarter.
- On August 3, 2006, Honeywell submitted to ADEQ a letter "Modification to Final Air Injection Pilot Test Work Plan, dated October 4, 2005," that explained the method for conducting a short-term pilot test and the plan for implementation on PSHIA Property.
- On July 20, 2006, Honeywell submitted to ADEQ a letter that explained the status of the pilot test, Honeywell's agreement with the City of Phoenix to evaluate the BSVE design (assuming 8-percent oxygen utilization rate) and the status of the air permit applications.
- On July 14, 2006, CH2M HILL, on behalf of Honeywell, submitted to ADEQ the *Second Quarter Status Report for 2006, Honeywell 34th Street Facility, Facility ID No. 0-002227, LUST File Nos. 0393.02-.10, .15.*
- On April 14, 2006, CH2M HILL, on behalf of Honeywell, submitted to ADEQ the *First Quarter Status Report for 2006, Honeywell 34th Street Facility, Facility ID No. 0-002227, LUST File Nos. 0393.02-.10, .15.*
- On March 2, 2006, Honeywell submitted to ADEQ the *Proposed Modification to Honeywell's Groundwater Sampling, Free Product Monitoring and Recovery Plan – Total Recoverable Petroleum Hydrocarbons Analytical Method, LUST File #0393.02-.10, .15, Facility ID #0-002227.*
- On January 16, 2006, CH2M HILL, on behalf of Honeywell, submitted to ADEQ the *Quarterly Status Report, Quarter 1 (October 17, 2005 to January 15, 2006), Honeywell 34th Street Facility, Facility ID No. 0-002227, LUST File No. 0393.02-.10, .15.*
- On January 13, 2006, CH2M HILL, on behalf of Honeywell, submitted to ADEQ the *Soil Vapor Field Sampling Report, Honeywell 34th Street Facility, 111 S. 34th Street, Phoenix, Arizona.*

- On December 9, 2005, CH2M HILL, on behalf of Honeywell, submitted to ADEQ the *LUST Field Sampling Plan – Groundwater Sampling, Free Product Monitoring and Recovery Plan*.
- On December 7, 2005, CH2M HILL, on behalf of Honeywell, submitted to Maricopa County (1) the Revised Air Permit Application for BSVE and (2) the Air Permitting Evaluation for Air Injection Pilot Study. On December 19, 2005, copies of the Revised Air Permit Application for BSVE were sent to ADEQ, City of Phoenix Aviation Department, and USEPA.
- On November 17, 2005, CH2M HILL, on behalf of Honeywell, submitted to ADEQ's LUST Enforcement Unit a letter that explained the reasons for the differences in the timeline for "Startup and Initial Testing" presented in the revised schedule (Revised Figure 32, attachment to the November 2, 2005 letter) and the original schedule in the CAP.
- On November 2, 2005, CH2M HILL, on behalf of Honeywell, submitted to ADEQ's LUST Enforcement Unit a letter that provided a status update on several aspects of the CAP implementation and on the conditions established in ADEQ's October 7, 2005 CAP approval letter. Attachments to this letter included: (1) revised Figure 32—Remedial Alternative 3 Implementation Schedule, (2) free-product thickness map, October 2005, (3) list of site characterization activities since submittal of the *Site Characterization Report*, (4) updated site characterization figures and tables, (5) boring logs, and (6) a compact disc containing analytical and monitoring well measurement data.
- On October 20, 2005, CH2M HILL, on behalf of Honeywell, submitted to ADEQ the *Work Plan for Additional Characterization of LUST File #0393.15 – JP-4 Fuel Pipeline Release at the Honeywell 34th Street Facility*.
- On October 4, 2005, Honeywell submitted to ADEQ the *Final Air Injection Pilot Test Work Plan, Honeywell 34th Street Facility and Phoenix Sky Harbor International Airport North Airfield, Phoenix, Arizona*.
- On September 19, 2005, CH2M HILL, on behalf of Honeywell, submitted to ADEQ the *Quality Assurance Project Plan, Honeywell 34th Street Facility.*
- On September 7, 2005, CH2M HILL, on behalf of Honeywell, submitted to ADEQ the *Work Plan for Phase III Monitoring Well Installation on Honeywell Leasehold and Phoenix Sky Harbor International Airport, Honeywell 34th Street Facility*.
- On August 22, 2005, CH2M HILL, on behalf of Honeywell, submitted to ADEQ the *Work Plan for Installation of Multi Level Soil Vapor Monitoring Wells and Shallow/Sub-slab Soil Vapor Monitoring Points, Honeywell 34th Street Facility*.
- On July 11, 2005, CH2M HILL, on behalf of Honeywell, submitted to ADEQ the *Soil Vapor Baseline Sampling and Analysis Plan, Honeywell 34th Street Facility.*
- On July 1, 2005, Honeywell submitted to ADEQ's Tank Programs Division the *Free Product Report – LUST File #0393.15 – JP-4 Fuel Line from UST #203.*

- On June 13, 2005, Honeywell submitted to ADEQ's Tank Programs Division the *Initial Site Characterization Report – LUST File #0393.15 – JP-4 Fuel Line from UST #203*.
- On March 29, 2005, Honeywell submitted to ADEQ's Tank Programs Division the *14-day Report – LUST File #0393.15 – JP-4 Fuel Line from UST #203.*
- On November 15, 2004, CH2M HILL, on behalf of Honeywell, submitted to ADEQ's UST Corrective Action Section responses to ADEQ's September 30, 2004 comments on Honeywell's July 30, 2004 *Revised Corrective Action Plan.* The corresponding replacement pages of the revised text, tables, and figures of the Revised CAP were also submitted.
- On July 30, 2004, CH2M HILL, on behalf of Honeywell, submitted the *Revised Corrective Action Plan* to ADEQ's UST Corrective Action Section. The revised CAP supersedes and replaces the original July 18, 2003, CAP.
- On May 27, 2004, Honeywell submitted a three-ring binder to ADEQ's UST Corrective Action Section titled *Supporting Material, UST Informal Settlement Conference, May 28, 2004*.
- On May 7, 2003, CH2M HILL, on behalf of Honeywell, submitted to ADEQ a technical memorandum titled *Summary of Results from the Bioventing/SVE Pilot Study February 24 through March 1, 2003*.
- On May 1, 2003, Honeywell submitted to ADEQ's UST Corrective Action Section the *Free-product Report, Honeywell International Inc., 34th Street Facility, Phoenix, Arizona, Facility ID# 0-002227, LUST File Nos. 0393.02 -.10*.
- On December 18, 2002, Honeywell submitted to ADEQ's UST Corrective Action Section *Supplemental Site Characterization Information for the Honeywell International Inc., 34th Street Facility, Phoenix, Arizona, Facility ID# 0-002227, LUST File Nos. 0393.02 -.10*.
- On August 23, 2002, CH2M HILL, on behalf of Honeywell, submitted to ADEQ's UST Corrective Action Section the *Site Characterization Report*.

The following deliverable is planned for submittal to ADEQ after the end of the fourth quarter of 2008:

- *First Quarter Status Report for 2009, Honeywell 34th Street Facility, Facility ID No. 0-002227, LUST File Nos. 0393.02-.10, .15-.20*. This report is currently scheduled for submittal to ADEQ on or before June 1, 2009.

SECTION 7.0

References

Arizona Department of Environmental Quality (ADEQ). 1999. Administrative Order on Consent, Statement of Work for Focused Remedial Investigation. September 19.

_____. 2002. *Release Reporting and Corrective Action Guidance*. Revision 0. State of Arizona Department of Environmental Quality Underground Storage Tank Program. August 20.

_____. 2005a. Letter from Mr. Mark W. Lucas and Mr. Joseph Karl Drosendahl/ADEQ to Ms. Troy Meyer/Honeywell. "Corrective Action Plan Final Approval, LUST File No. #0393.02-.10, .15, Facility ID #0-002227; Honeywell, 111 South 34th Street, Phoenix, Arizona." October 7.

_____. 2005b. Letter from Mr. Mark W. Lucas and Mr. Joseph Karl Drosendahl/ADEQ to Ms. Troy Meyer/Honeywell. "Corrective Action Plan Modification Approval, LUST File #0393.02-.10, .15, Facility ID #0-002227; Honeywell, 111 South 34th Street, Phoenix, Arizona." December 20.

_____. 2006a. Letter from Mr. Mark W. Lucas and Mr. Joseph Karl Drosendahl/ADEQ to Ms. Troy Meyer/Honeywell. "Corrective Action Plan Modification Approval, LUST File No. #0393.02-.10, .15, Facility ID #0-002227; Honeywell, 111 South 34th Street, Phoenix, Arizona." March 7.

_____. 2006b. Letter from Mr. Mark W. Lucas and Mr. Michael J. Traubert/ADEQ to Ms. Troy Meyer/Honeywell. "Corrective Action Plan Modification Approval, LUST File No. #0393.02-.10, .15, Facility ID #0-002227; Honeywell, 111 South 34th Street, Phoenix, Arizona." September 28.

_____. 2007. Letter from Mr. Mark W. Lucas and Mr. Henry R. Darwin/ADEQ to Ms. Troy Kennedy/Honeywell. "Corrective Action Plan Modification Approval, LUST File No. #0393.02-.10, .15-.17, Facility ID #0-002227; Honeywell, 111 South 34th Street, Phoenix, Arizona." March 27.

_____. 2008a. Letter from Mr. Mark W. Lucas and Mr. Eric M. Wilson/ADEQ to Ms. Troy Kennedy/Honeywell. "BSVE Remediation Project Schedule Modification Approval, LUST File No. #0393.02-.10, .15-.20, Facility ID #0-002227; Honeywell, 111 South 34th Street, Phoenix, Arizona." February 29.

_____. 2008b. Email from Mr. Mark W. Lucas and Mr. Eric M. Wilson/ADEQ to Mr. Robert Frank/CH2M HILL. "Re: Request to Discontinue Sampling Wells Containing Free Product at Honeywell." May 8.

_____. 2008c. Letter from Mr. Mark W. Lucas and Mr. Eric M. Wilson/ADEQ to Ms. Troy K/JHoneywell. "Field Sampling Plan Approval, LUST File #0393.02-.10, .15-.17, Facility ID #0-002227; Honeywell, 111 South 34th Street, Phoenix, Arizona." October 21.

CH2M HILL. 2004a. *Revised Corrective Action Plan, Honeywell 34th Street Facility, Phoenix, Arizona. ADEQ Facility No 0-002227, LUST File Nos. 0393.02 through 0393.10.* July.

_____. 2004b. Letter from Thomas J. Mooney/CH2M HILL, on behalf of Honeywell, to Mr. Mark Lucas/ADEQ. "Response to ADEQ comments dated September 30, 2004 on Honeywell's Revised Corrective Action Plan, dated July 30, 2004, Honeywell 34th Street Facility, Phoenix, Arizona." November 15.

_____. 2005. *LUST Field Sampling Plan – Groundwater Sampling, Free Product Monitoring and Recovery Plan, Honeywell 34th Street Facility, Facility ID No. 0-002227, LUST File No. 0393.02-.10, .15*. December 8.

_____. 2006a. *First Quarter Status Report for 2006, Honeywell 34th Street Facility, Facility ID No. 0-002227, LUST File Nos. 0393.02-.10, .15.* April 14.

_____. 2006b. *Site Characterization Report, LUST Case File #0393.16, Honeywell 34th Street Facility, Facility ID No. 0-002227*. May 19.

_____. 2006c. *Site Characterization Report Addendum, LUST Case File #0393.16, Honeywell 34th Street Facility, Facility ID No. 0-002227.* October 25.

_____. 2008a. *Groundwater Sampling and Free-product Monitoring and Recovery Plan, Honeywell 34th Street Facility, Facility ID No. 0-002227, LUST File Nos. 0393.02-.10, .15-.17*. October 3.

_____. 2008b. *Second Baseline Soil Vapor Sampling Report, Honeywell 34th Street Facility, Facility ID No. 0-002227, LUST File No. 0393.02-.10, .15*-.17. December 19.

_____. 2008c. *Third Quarter Status Report for 2008, Honeywell 34th Street Facility, Facility ID No. 0-002227, LUST File Nos. 0393.02-.10, .15-.17.* December 1.

_____. 2008d. *Operation and Maintenance Plan for the BSVE Air Pollution Control Equipment, Honeywell 34th Street Facility*. October 17.

_____. 2008e. *Operation and Maintenance Plan for the Biologically-enhanced Soil Vapor Extraction System, Honeywell 34th Street Facility, Facility ID No. 0-002227, LUST File No. 0393.02-.10, .15*-.17. November 7.

_____. 2009. *September 2008 Annual Groundwater Monitoring Report, Honeywell 34th Street Facility, Phoenix, Arizona*. March.

Tables

TABLE 2-1
Summary of SW8260 and SW8015 Detected Analytical Results for Groundwater Quality Samples, Fourth Quarter 2008
Honeywell 34th Street Facility, Phoenix, Arizona

Location ID	Sample Date	111TCA	124TMBZ	135TMBZ	BBZ	BZ	C12DCE	CET	CHCL3	DCA	DCE	EBZ	IPBZ	mp-XYL	MTBE	NAPH	n-PBZ	PCE	p-IPT	s-BBZ	t-BBZ	TCE	TOL	TPH C10-C22	TPH C22-C32	VC	XYL
ASE-37A	12/12/08	<0.5	5.8	<0.5	1.6	18	<0.5	<1.0	<0.5	<0.5	<0.5	4.1	8.1	<0.5	3.0	10	7.2	0.7	0.6	2.3	<0.5	1.6	<0.5	240	<300	<0.5	<0.5
ASE-38A	12/12/08	<1.7	3.5	<1.7	1.8	620	<1.7	<3.3	<1.7	<1.7	<1.7	59	14	3.7	24	37	11	<1.7	<1.7	1.8	<1.7	<1.7	<1.7	660	<300	<1.7	3.7
ASE-52A	12/16/08	<1.7	31	5.3	2.6	400	2.5	8.8	<1.7	27	<1.7	17	4.0	19	130	28	4.1	<1.7	1.9	2.6	<1.7	<1.7	<1.7	1,600	<300	2.2	19
ASE-54A	12/08/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	3.1	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	2.4	<0.5	<18	<300	<0.5	<0.5
ASE-55A	12/15/08	<0.5	<0.5	<0.5	7.8	22	1.6	5.5	<0.5	42	0.8	0.7	21	<0.5	53	18	15	<0.5	<0.5	9.7	1.0	<0.5	<0.5	3,600	130J	6.8	<0.5
ASE-58A	12/08/08	<0.5	<0.5	<0.5	<0.5	1.2	1.8	<1.0	<0.5	15	<0.5	<0.5	<0.5	<0.5	11	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.8	<0.5	<80	<300	3.2	<0.5
ASE-60A	12/16/08	<0.5	<0.5	<0.5	<0.5	<0.5	1.4	<1.0	3.2	<0.5	1.3	<0.5	<0.5	<0.5	<0.5	<2.0	0.6	1.4	<0.5	<0.5	<0.5	8.0	<0.5	<35	<300	<0.5	<0.5
ASE-61A	12/16/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	0.7	<0.5	1.6	<0.5	0.6	<0.5	<0.5	<2.0	0.8	2.1	<0.5	<0.5	<0.5	1.2	<0.5	<36	<300	<0.5	<0.5
ASE-62A	12/15/08	<0.5	<0.5	<0.5	<0.5	0.9	1.0	<1.0	<0.5	14	<0.5	<0.5	0.7	<0.5	12	<2.0	0.8	<0.5	<0.5	<0.5	<0.5	1.3	<0.5	<62	<300	2.8	<0.5
ASE-63A	12/12/08	<5.0	<5.0	<5.0	<5.0	2,000	<5.0	<10	<5.0	<5.0	<5.0	5.3	66	<5.0	120	160	47	<5.0	<5.0	6.9	<5.0	17	<5.0	1,800	<300	<5.0	<5.0
ASE-65A	12/15/08	<0.5	<0.5	<0.5	<0.5	1.4	0.6	<1.0	0.9	2.8	<0.5	<0.5	0.8	<0.5	0.8	<2.0	0.9J	<0.5	<0.5	<0.5	<0.5	2.3	<0.5	<35	<300	<0.5	<0.5
ASE-68A	12/16/08	<0.5	1.9	<0.5	1.6	18	32	<1.0	<0.5	20	<0.5	2.6	3.1	0.5	29	5.4	3.4	<0.5	0.9	2.8	0.7	1.1	0.7	2,800	84J	84	0.5
ASE-92A	12/15/08	<0.5	1.5	<0.5	5.4	170	<0.5	2.2	<0.5	3.2	<0.5	2.6	11	1.1	190	69	10	<0.5	0.6	4.1	0.8	<0.5	<0.5	2,400	<300	0.8	1.1
ASE-95A	12/10/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	16	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	37J	<300	<0.5	<0.5
ASE-96A	12/10/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	94	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	62	230J	<0.5	<0.5
ASE-97A	12/11/08	<0.5	<0.5	<0.5	<0.5	<0.5	1.7	<1.0	<0.5	22	4.0	<0.5	1.9	<0.5	31	9.7	0.7	<0.5	<0.5	0.7	<0.5	1.7	<0.5	220	<300	2.7	<0.5
ASE-98A	12/09/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<300	<0.5	<0.5
ASE-99A	12/11/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<300	<0.5	<0.5
ASE-100A	12/09/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<16	<300	<0.5	<0.5
ASE-101A	12/09/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	120	<300	<0.5	<0.5
ASE-103A	12/09/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<300	<0.5	<0.5
ASE-105A	12/11/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	32J	<300	<0.5	<0.5
ASE-106A	12/09/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<300	<0.5	<0.5
ASE-108A	12/15/08	3.2	<0.5	<0.5	2.8	54	0.8	4.6	<0.5	22	2.9	<0.5	11	<0.5	77	11	3.7	<0.5	<0.5	5.2	0.7	1.1	<0.5	1,800	87J	2.7	<0.5
ASE-109A	12/09/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<300	<0.5	<0.5
ASE-110A	12/09/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<300	<0.5	<0.5
ASE-112A	12/11/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	93	<300	<0.5	<0.5
ASE-113A	12/10/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<300	<0.5	<0.5
ASE-116A	12/12/08	<0.5	1.1	<0.5	<0.5	160	<0.5	<1.0	<0.5	<0.5	<0.5	41	40	1.1	67	51	31	0.5	<0.5	4.5	0.8	2.0	<0.5	660	<300	<0.5	1.1
ASE-122A	12/09/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	<0.5
ASE-123A	12/09/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<300	<0.5	<0.5
ASE-124A	12/09/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.3	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<300	<0.5	<0.5
ASE-125A	12/10/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<300	<0.5	<0.5
ASE-126A	12/11/08	<0.5	<0.5	<0.5	<0.5	<0.5	1.5	<1.0	<0.5	16	2.0	<0.5	1.1	<0.5	48	<2.0	<0.5	<0.5	<0.5	2.8	<0.5	1.4	<0.5	430	<300	2.0	<0.5
ASE-127A	12/12/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<23	<300	<0.5	<0.5
ASE-128A	12/10/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<300	<0.5	<0.5
ASE-129A	10/15/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<300	<0.5	<0.5
ASE-129A	12/09/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<300	<0.5	<0.5
ASE-130A	10/15/08	<0.5	44	9.3	6.0	250	1.6	9.2	<0.5	11	<0.5	49	25	25	240	83	20	<0.5	4.6	6.6	1.4	1.0	<0.5	2,800	<300	2.6	25
BC-7A	12/12/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<300	<0.5	<0.5
BC-8B	12/11/08	<0.5	<0.5	<0.5	<0.5	2.2	1.1	1.2	<0.5	7.9	1.1	<0.5	0.7	<0.5	110	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	4.9	<0.5	51	<300	1.3	<0.5
BC-18	12/11/08	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	<1.0	<0.5	15	0.6	<0.5	<0.5	<0.5	18	<2.0	<0.5	<0.5	<0.5	0.7	<0.5	0.7	<0.5	260	<300	1.2	<0.5
PL-105A	12/15/08	<0.5	<0.5	<0.5	2.4	83	<0.5	3.8	<0.5	14	<0.5	<0.5	9.2	<0.5	91	10	4.7	<0.5	<0.5	6.0	1	<0.5	<0.5	1,900	87J	1.5	<0.5
PL-201A	12/08/08	<0.5	<0.5	<0.5	<0.5	3.7	1.3	25	<0.5	110	<0.5	<0.5	1.7	<0.5	31	<2.0	<0.5	<0.5	<0.5	2.0	<0.5	<0.5	<0.5	2,300	1,700J	8.5	<0.5

TABLE 2-1
Summary of SW8260 and SW8015 Detected Analytical Results for Groundwater Quality Samples, Fourth Quarter 2008
Honeywell 34th Street Facility, Phoenix, Arizona

Location ID	Sample Date	111TCA	124TMBZ	135TMBZ	BBZ	BZ	C12DCE	CET	CHCL3	DCA	DCE	EBZ	IPBZ	mp-XYL	MTBE	NAPH	n-PBZ	PCE	p-IPT	s-BBZ	t-BBZ	TCE	TOL	TPH C10-C22	TPH C22-C32	VC	XYL
PL-2101	12/08/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	7.9	<0.5	<0.5	<0.5	<0.5	1.8	<2.0	<0.5	0.5	<0.5	<0.5	<0.5	2.8	<0.5	<48	48J	0.8	<0.5
PL-2102	12/08/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	0.5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.8	<0.5	<18	<300	<0.5	<0.5

NOTES:

-- = Not analyzed
111TCA = 1,1,1-Trichloroethane
124TMBZ = 1,2,4-Trimethylbenzene
135TMBZ = 1,3,5-Trimethylbenzene
BBZ = Butylbenzene
BZ = Benzene
C12DCE = cis-1,2-Dichloroethene
CET = Chloroethane
CHCL3 = Chloroform
DCA = 1,1-Dichloroethane
DCE = 1,1-Dichloroethene
EBZ = Ethylbenzene
IPBZ = Isopropylbenzene
mp-XYL = Xylenes, M & P
MTBE = Methyl ter-butyl ether
NAPH = Naphthalene
n-PBZ = n-Propylbenzene
PCE = Tetrachloroethene
p-IPT = p-Isopropyltoluene
s-BBZ = sec-Butylbenzene
t-BBZ = tert-Butylbenzene
TCE = Trichloroethene
TOL = Toluene
TPH C10-C22 = Total Petroleum Hydrocarbons, Carbon Range C10-C22
TPH C22-C32 = Total Petroleum Hydrocarbons, Carbon Range C22-C32
VC = Vinyl chloride
XYL = Total Xylenes

TABLE 2-2

Summary of Additional Detected Analytical Results for Groundwater Quality Samples, Fourth Quarter 2008

Honeywell 34th Street Facility, Phoenix, Arizona

LOCATION ID	SAMPLE DATE	14D	Ac	Fl	NAPH	PHEN
ASE-129A	10/15/08	<0.9	<0.09	<0.09	<0.09	<0.09
ASE-130A	10/15/08	1.1J	0.2J	0.4J	55J	0.1J

NOTES:

All results in micrograms per liter.

14D = 1,4-Dioxane

Ac = Acenaphthene

Fl = Fluorene

NAPH = Naphthalene

PHEN = Phenanthrene

Table 2-3

Comparison between September 2008 and December 2008 Water-level Elevations, Fourth Quarter 2008

Honeywell 34th Street Facility, Phoenix, Arizona

	Groundwater Elevation		
Location ID	9/3/2008 (ft amsl)	12/4/2008 (ft amsl)	Difference[a] (feet)
ASE-19A	1055.01	1055.63	0.62
ASE-20A	1050.88	NM	--
ASE-37A	NM	1059.42	--
ASE-38A	NM	1059.59	--
ASE-39A	1058.49	NM	--
ASE-41A	NM	NM	--
ASE-46A	1052.00	NM	--
ASE-51A	1056.17	NM	--
ASE-52A	1058.08	1058.61	0.53
ASE-53A	1058.90	NM	--
ASE-54A	1053.00	1053.59	0.59
ASE-55A	1057.06	1049.93	-7.13
ASE-56A	1052.91	NM	--
ASE-57A	NM	NM	--
ASE-58A	1051.56	1052.16	0.60
ASE-59A	1058.27	NM	--
ASE-60A	1059.60	1060.00	0.40
ASE-61A	1060.14	1060.48	0.34
ASE-62A	1049.76	1050.41	0.65
ASE-63A	1057.34	1058.00	0.66
ASE-64A	1053.56	1054.72	1.16
ASE-65A	1039.98	1040.87	0.89
ASE-66A	1054.14	NM	--
ASE-67A	1058.37	1058.79	0.42
ASE-68A	NM	1054.71	--
ASE-89A	1052.47	1053.28	0.81
ASE-90A	1051.36	1051.89	0.53
ASE-91A	1051.52	1052.26	0.74
ASE-92A	1052.05	1052.76	0.71
ASE-95A	1041.79	1042.36	0.57
ASE-96A	1050.74	1051.13	0.39
ASE-97A	1041.44	1042.25	0.81
ASE-98A	1046.47	1046.49	0.02
ASE-99A	1048.29	1048.22	-0.07
ASE-100A	1042.90	1043.33	0.43
ASE-101A	1046.33	1046.72	0.39
ASE-102A	1049.69	1049.91	0.22
ASE-103A	1041.04	1041.50	0.46
ASE-105A	1053.13	1054.09	0.96
ASE-106A	1050.86	1051.17	0.31
ASE-107A	1052.32	1052.67	0.35
ASE-108A	1050.22	1050.91	0.69
ASE-109A	1053.54	1053.68	0.14
ASE-110A	1051.93	1051.92	-0.01
ASE-111A	1059.10	1059.62	0.52
ASE-112A	1053.47	1054.39	0.92

Table 2-3

Comparison between September 2008 and December 2008 Water-level Elevations, Fourth Quarter 2008

Honeywell 34th Street Facility, Phoenix, Arizona

Location ID	Groundwater Elevation 9/3/2008 (ft amsl)	Groundwater Elevation 12/4/2008 (ft amsl)	Difference[a] (feet)
ASE-113A	1053.85	1054.24	0.39
ASE-114A	1053.01	1053.38	0.37
ASE-115A	1059.25	1059.75	0.50
ASE-116A	NM	1059.46	--
ASE-122A	1054.66	1054.96	0.30
ASE-123A	1054.99	1055.15	0.16
ASE-124A	1042.45	1042.98	0.53
ASE-125A	1038.35	1039.05	0.70
ASE-126A	1040.08	1041.21	1.13
ASE-127A	1056.97	1057.48	0.51
ASE-128A	1046.51	1046.63	0.12
ASE-129A	1039.30	1039.91	0.61
ASE-130A	1052.33	1053.06	0.73
BC-7A	1058.16	1058.54	0.38
BC-8B	1050.36	1050.94	0.58
BC-18	1039.13	1040.02	0.89
PL-101A	1059.15	NM	--
PL-105A	1050.59	1051.26	0.67
PL-201A	1050.71	1051.36	0.65
PL-2101	1053.44	1054.02	0.58
PL-2102	1053.07	1053.62	0.55

Notes:

[a] Difference column calculated by subtracting September 2008 water-level elevations from December 2008 water-level elevations. Positive results indicate higher water-level elevations in December signifying a rising water table over the reporting period.

-- = Not calculated

ft amsl = Feet above mean sea level.

NM = Not measured

Table 2-4

Summary of Free-product Thickness Measurements, Fourth Quarter 2008

Honeywell 34th Street Facility, Phoenix, Arizona

Well	1-Oct	15-Oct	30-Oct	5-Nov	12-Nov	4-Dec	17-Dec	30-Dec
ASE-19A	0	NM	NM	0	NM	0	NM	NM
ASE-20A	0	NM	NM	0	NM	NM	NM	NM
ASE-37A	0	NM	NM	0	NM	0	NM	NM
ASE-38A	0	NM	NM	0	NM	0	NM	NM
ASE-39A	0	NM	NM	NM	NM	NM	NM	NM
ASE-41A	NM	NM	NM	NM	NM	NM	NM	NM
ASE-51A	0	0	0	NM	NM	NM	NM	NM
ASE-52A	0	NM	NM	0	NM	0	NM	NM
ASE-53A	0	NM	NM	NM	NM	NM	NM	NM
ASE-55A	0.01	NM	NM	0	NM	0	NM	NM
ASE-56A	NM	NM	NM	0	NM	NM	NM	NM
ASE-57A	0	NM	NM	NM	NM	NM	NM	NM
ASE-58A	0	NM	NM	0	NM	0	NM	NM
ASE-63A	0	NM	NM	0	NM	0	NM	NM
ASE-64A	0.01	NM	NM	0.01	NM	0.02	NM	NM
ASE-68A	0	NM	NM	0	0	0	NM	NM
ASE-89A	0.02	NM	NM	0.02	NM	0.01	NM	NM
ASE-90A	0.01	NM	NM	0.01	NM	0.01	NM	NM
ASE-91A	0.01	NM	NM	0.01	NM	0.01	NM	NM
ASE-92A	0	NM	NM	0	NM	0	NM	NM
ASE-96A	0	NM	NM	0	NM	0	NM	NM
ASE-102A	0.04	NM	NM	0.04	NM	0.04	NM	NM
ASE-107A	0.92	0.41	0.70	0.33	0.54	0.37	0.63	0.70
ASE-111A	0.07	0.07	0.06	0.06	0.08	0.06	NM	NM
ASE-113A	0	NM	NM	0	NM	0	NM	NM
ASE-114A	0	NM	NM	0.06	NM	0.01	NM	NM
ASE-115A	0.11	0.08	0.09	0.08	0.08	0.08	NM	NM
ASE-130A	0	NM	NM	0	NM	0.04	NM	NM
PL-101A	0	NM	NM	NM	NM	NM	NM	NM
PL-105A	0	NM	NM	0	NM	0	NM	NM
PL-2101	0	NM	NM	0	NM	0	NM	NM

Notes:

This table includes all monitoring wells that have historically had measurable free product, except monitoring well ASE-67A. Free-product thickness measurements for monitoring well ASE-67A are presented in Table 2-5.

Monitoring wells with a free-product thickness less than 0.1 foot are measured monthly.

Monitoring wells with a free-product thickness greater than 0.1 foot are measured biweekly.

Free-product thicness measurements in feet.

NM = Free-product thickness not measured.

Table 2-5

Summary of Free-product Thickness Measurements for Monitoring Well ASE-67A, Fourth Quarter 2008

Honeywell 34th Street Facility, Phoenix, Arizona

Date	ASE-67A Free-product Thickness (feet)
10/01/08	0.14
10/08/08	0.12
10/16/08	0.14
10/22/08	0.14
10/28/08	0.15
11/07/08	0.15
11/14/08	0.11
11/19/08	0.12
11/26/08	0.14
12/03/08	0.16
12/04/08	0.09
12/17/08	0.24
12/30/08	0.08

Table 2-6

Comparison of Historical Maximum Free-product Thickness Measurements to December 2008 Free-product Thickness Measurements, Fourth Quarter 2008

Honeywell 34th Street Facility, Phoenix, Arizona

	Historical Maximum Free-Product Thickness		December 2008 Free-Product Thickness Measurements			
Well	**Date**	**Thickness**	**3-Dec**	**4-Dec**	**17-Dec**	**30-Dec**
Monitoring Wells Located on Honeywell Property North of Air Lane						
ASE-19A	02/10/2000	3.00	NM	0	NM	NM
ASE-20A	01/07/2003	2.20	NM	NM	NM	NM
ASE-37A	01/20/2005	0.53	NM	0	NM	NM
ASE-38A	07/21/2004	1.73	NM	0	NM	NM
ASE-39A	11/28/2001	1.33	NM	NM	NM	NM
ASE-51A	12/19/2001	3.42	NM	NM	NM	NM
ASE-52A	02/22/2002[a]	1.80	NM	0	NM	NM
ASE-53A	11/28/2001	1.79	NM	NM	NM	NM
ASE-56A	03/21/2002[a]	1.90	NM	NM	NM	NM
ASE-57A	03/20/2002	3.07	NM	NM	NM	NM
ASE-67A	07/26/2005	4.52	0.16	0.09	0.24	0.08
ASE-68A	06/27/2002	3.13	NM	0	NM	NM
ASE-111A	10/03/2007	2.25	NM	0.06	NM	NM
ASE-115A	11/28/2007	0.41	NM	0.08	NM	NM
PL-101A	03/06/2002	1.41	NM	NM	NM	NM
PL-2101	06/14/2000	0.44	NM	0	NM	NM
Monitoring Wells Located on Honeywell Property South of Air Lane						
ASE-41A	07/09/2003	3.50	NM	NM	NM	NM
ASE-55A	10/19/2005	0.81	NM	0	NM	NM
ASE-58A	05/07/2008	0.01	NM	0	NM	NM
ASE-63A	09/09/2004	0.02	NM	0	NM	NM
ASE-64A	07/09/2003	1.95	NM	0.02	NM	NM
ASE-91A	10/03/2007	0.05	NM	0.01	NM	NM
ASE-92A	11/03/2004[a]	0.24	NM	0	NM	NM
ASE-130A	12/04/2008	0.04	NM	0.04	NM	NM
PL-105A	04/30/2003	1.07	NM	0	NM	NM
Monitoring Wells Located on PSHIA Property						
ASE-89A	08/02/2004	1.60	NM	0.01	NM	NM
ASE-90A	10/06/2004	1.23	NM	0.01	NM	NM
ASE-96A	11/03/2004	0.48	NM	0	NM	NM
ASE-102A	01/26/2005	4.27	NM	0.04	NM	NM
ASE-107A	07/04/2007	1.87	NM	0.37	0.63	0.70
ASE-113A	05/18/2005	0.01	NM	0	NM	NM
ASE-114A	11/05/2008	0.06	NM	0.01	NM	NM

Notes:

This table includes all monitoring wells that have historically had measurable free product.

Monitoring wells with a free-product thickness less than 0.1 foot are measured monthly.

Monitoring wells with a free-product thickness greater than 0.1 foot are measured biweekly.

Free-product thickness measurements in feet.

NM = Free-product thickness not measured.

PSHIA = Phoenix Sky Harbor International Airport

[a] Date listed is the most recent date on which the historical maximum free-product thickness was measured.

Table 3-1

Summary of Free-product Recovery, Fourth Quarter 2008

Honeywell 34th Street Facility, Phoenix, Arizona

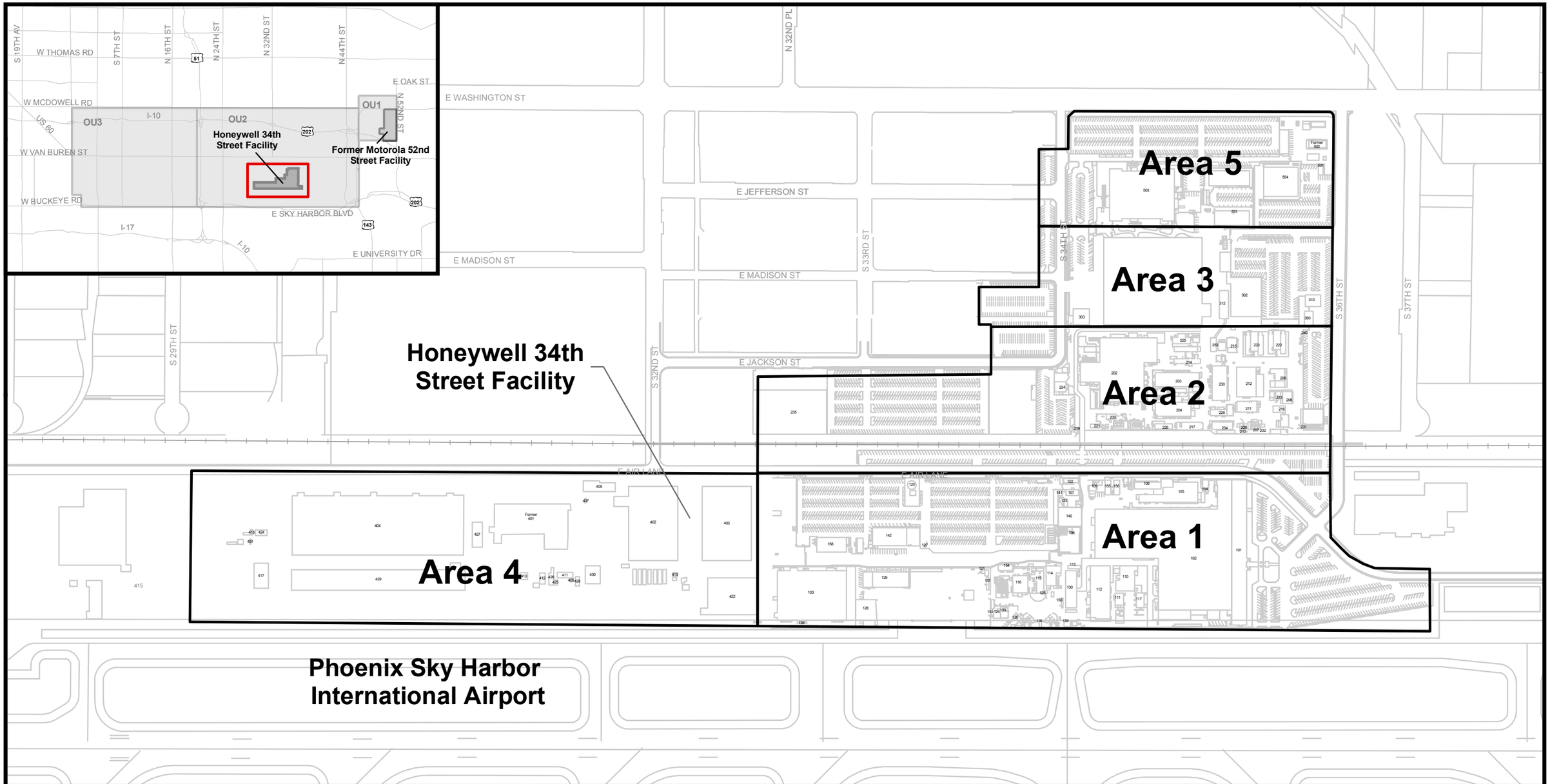
Well	Gallons Recovered during Fourth Quarter 2008	Total Gallons Recovered via Skimming through Fourth Quarter 2008
ASE-19A	0	50
ASE-20A	0	4104
ASE-37A	0	2
ASE-38A	0	47
ASE-39A	0	0.68
ASE-41A	0	27
ASE-51A	0	105
ASE-52A	0	20
ASE-53A	0	481
ASE-55A	0	3
ASE-56A	0	663
ASE-57A	0	685
ASE-58A	0	0
ASE-63A	0	0
ASE-64A	0	32
ASE-67A	0.7	350
ASE-68A	0	75
ASE-89A	0	139
ASE-90A	0	7
ASE-91A	0	0
ASE-92A	0	0
ASE-96A	0	1
ASE-102A	0	147
ASE-107A	3.4	22
ASE-111A	0	13
ASE-113A	0	0
ASE-114A	0	0
ASE-115A	0.1	3
ASE-130A	0	0
PL-101A	0	291
PL-105A	0	6
PL-2101	0	0.02
Total	**4.2**	**7272**

Notes:

This table includes all wells that have historically had measurable free product.

Rounding may affect totals shown in far right column and totals at bottom of table.

Figures



Legend

- Street and Airport Features
- Railroad
- Operational Area Boundaries
- Honeywell Buildings

N
W E
S

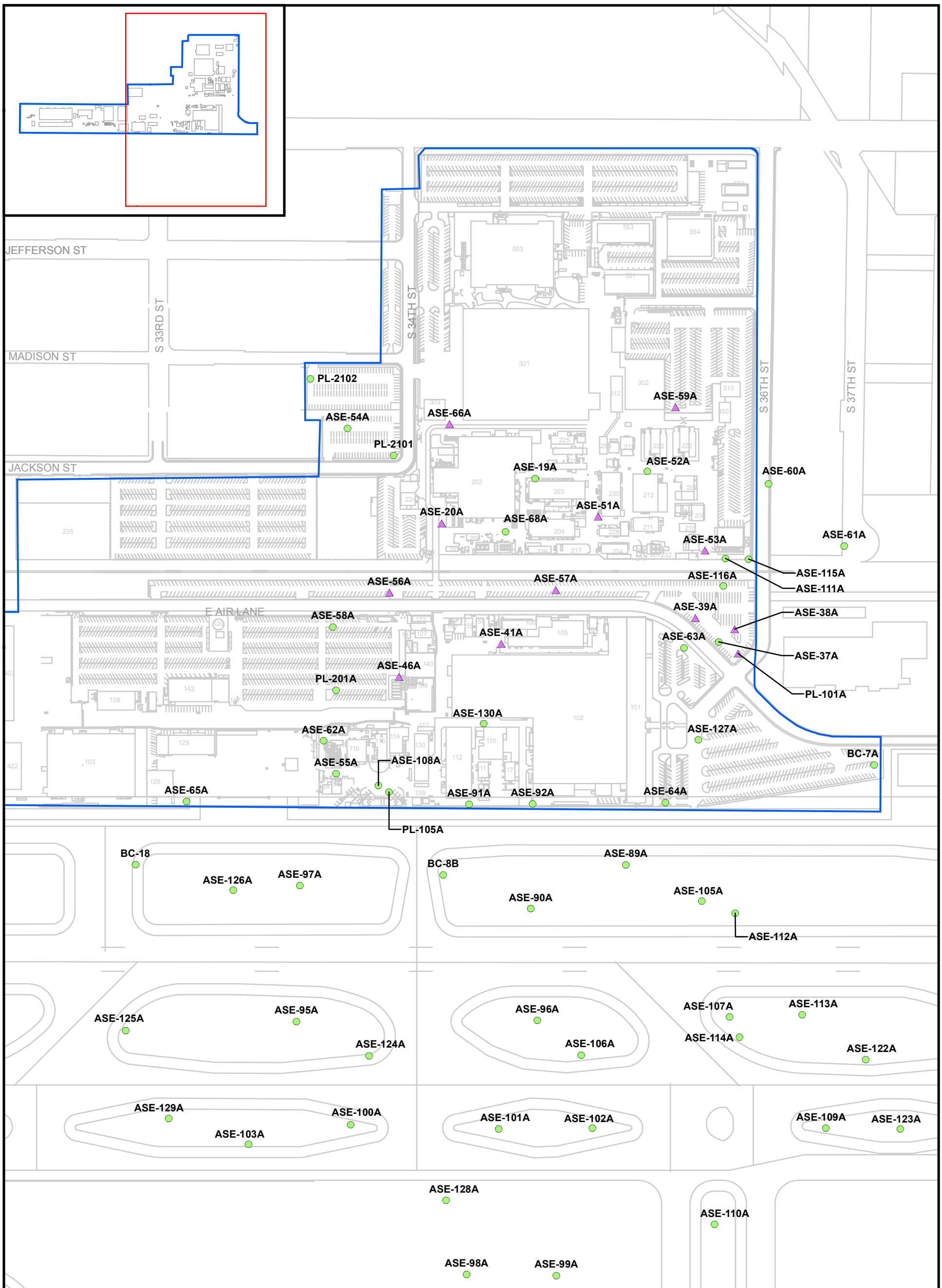
0 200 400 800
Feet

FIGURE 1-1
FACILITY LOCATION AND LAYOUT

Honeywell 34th Street Facility
Phoenix, Arizona

CH2MHILL

\\MADISON\GROUPS\EMS\GIS_LIBRARY\HONEYWELL PROJECTS\UST QUARTERLY REPORTS\3RD QRT SEPT 2008\MAPFILES\FIG1-1_FACILITYLOCATIONLAYOUT.MXD CVF 1/5/2009 15:55:04



Legend

- UST Groundwater Monitoring Well
- UST Groundwater Monitoring Well Connected to BSVE System
- Street and Airport Features
- Honeywell Facility

N
W E
S

0 150 300 600 Feet

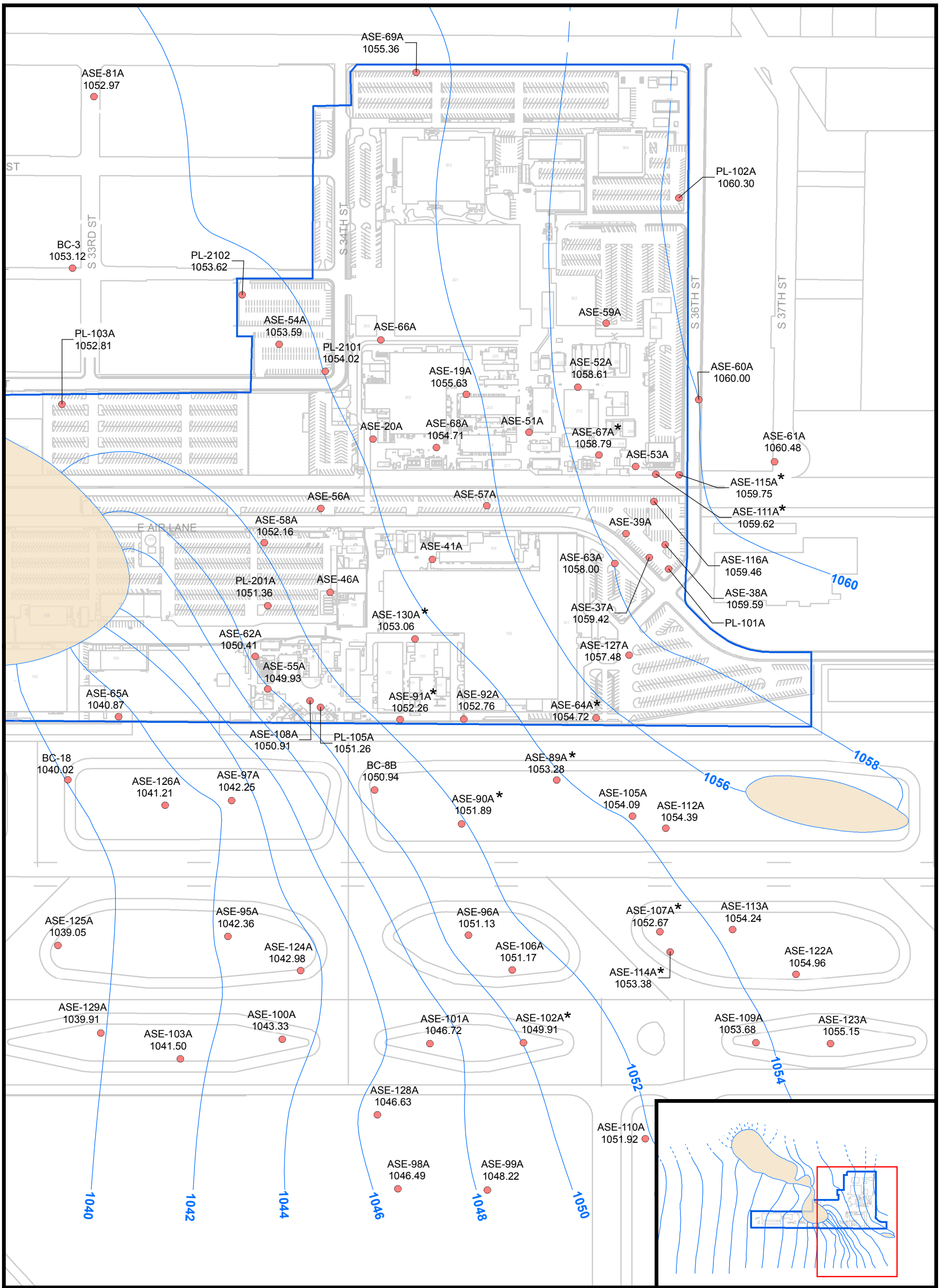
Note:
UST = Underground Storage Tank

FIGURE 2-1
UNDERGROUND STORAGE TANK MONITORING WELL NETWORK

Honeywell 34th Street Facility
Phoenix, Arizona

CH2MHILL

\\MADISON\GROUPS\EMS\GIS_LIBRARY\HONEYWELL PROJECTS\UST QUARTERLY REPORTS\4TH QRT DEC 2008\MAPFILES\FIG2-1_UST_MONITORING_WELL_NETWORK.MXD CVF CVONFREE 2/26/2009 20:5



Legend

ASE-124A 1042.98 — Well Identifier; Water Level Elevation, in feet above mean sea level

Water Level Contours (ft amsl) - Sub-unit A (dashed where inferred)

Honeywell Facility

Honeywell Bedrock Rise

N W E S

0 150 300 600 Feet

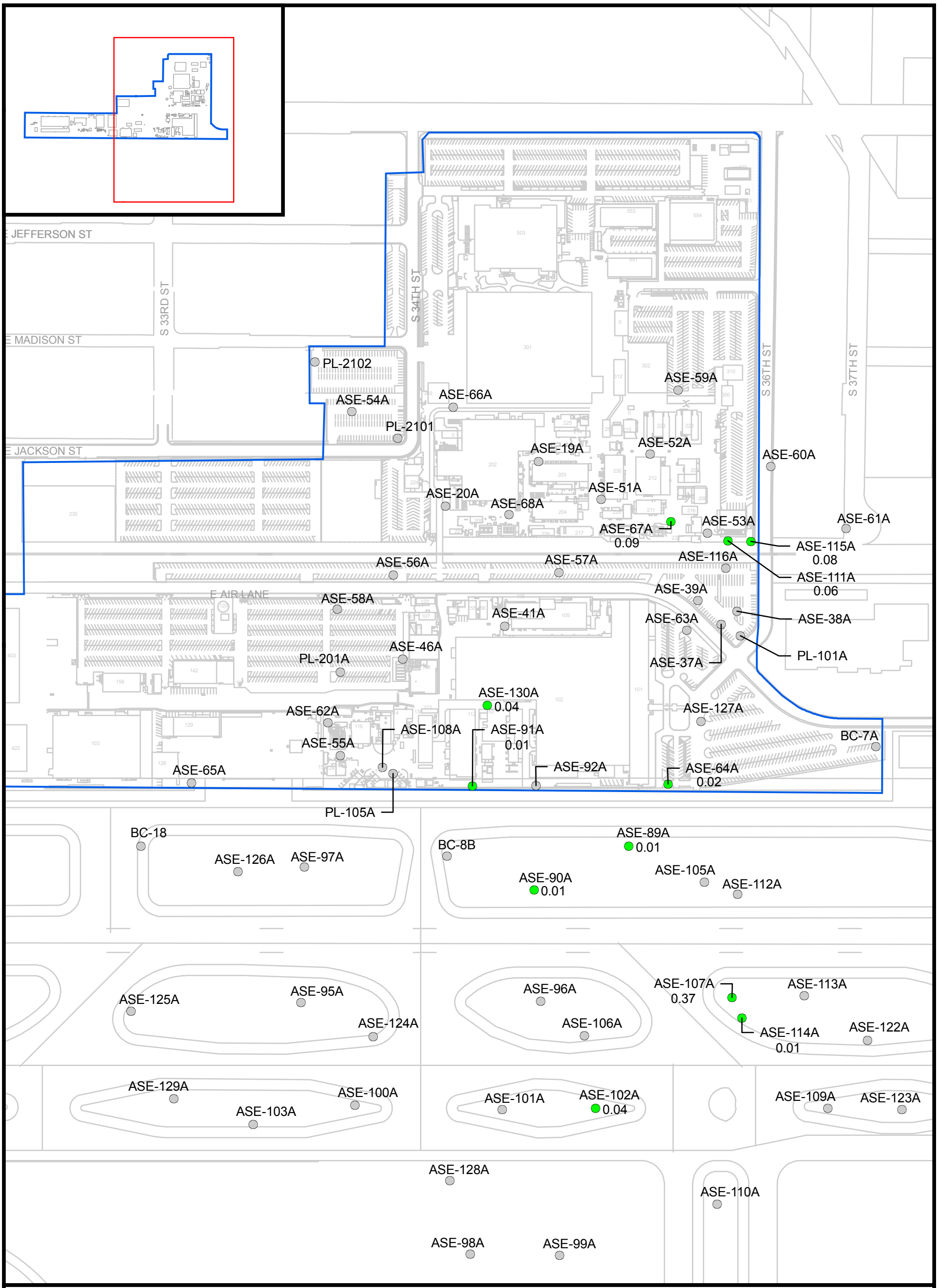
Notes:
1. All measurements recorded on December 4, 2008.
2. * Monitoring well contained free product. Value represents corrected water level elevation based on a free-product specific gravity of 0.81. Value not used to produce contours.

FIGURE 2-2
WATER LEVEL CONTOURS
DECEMBER 2008
SUB-UNIT A

Honeywell 34th Street Facility
Phoenix, Arizona

CH2MHILL

\\MADISON\GROUPS\EMS\GIS_LIBRARY\HONEYWELL PROJECTS\UST QUARTERLY REPORTS\4TH QRT DEC 2008\MAPFILES\FIG2-2_WATER LEVEL CONTOURS-DECEMBER2008-SRG.MXD CVF 2/2/2009 10:02:45



Legend

- Free Product Detected (thickness provided in feet)
- Free Product Not Detected
- Street and Airport Features
- Honeywell Facility

N W E S

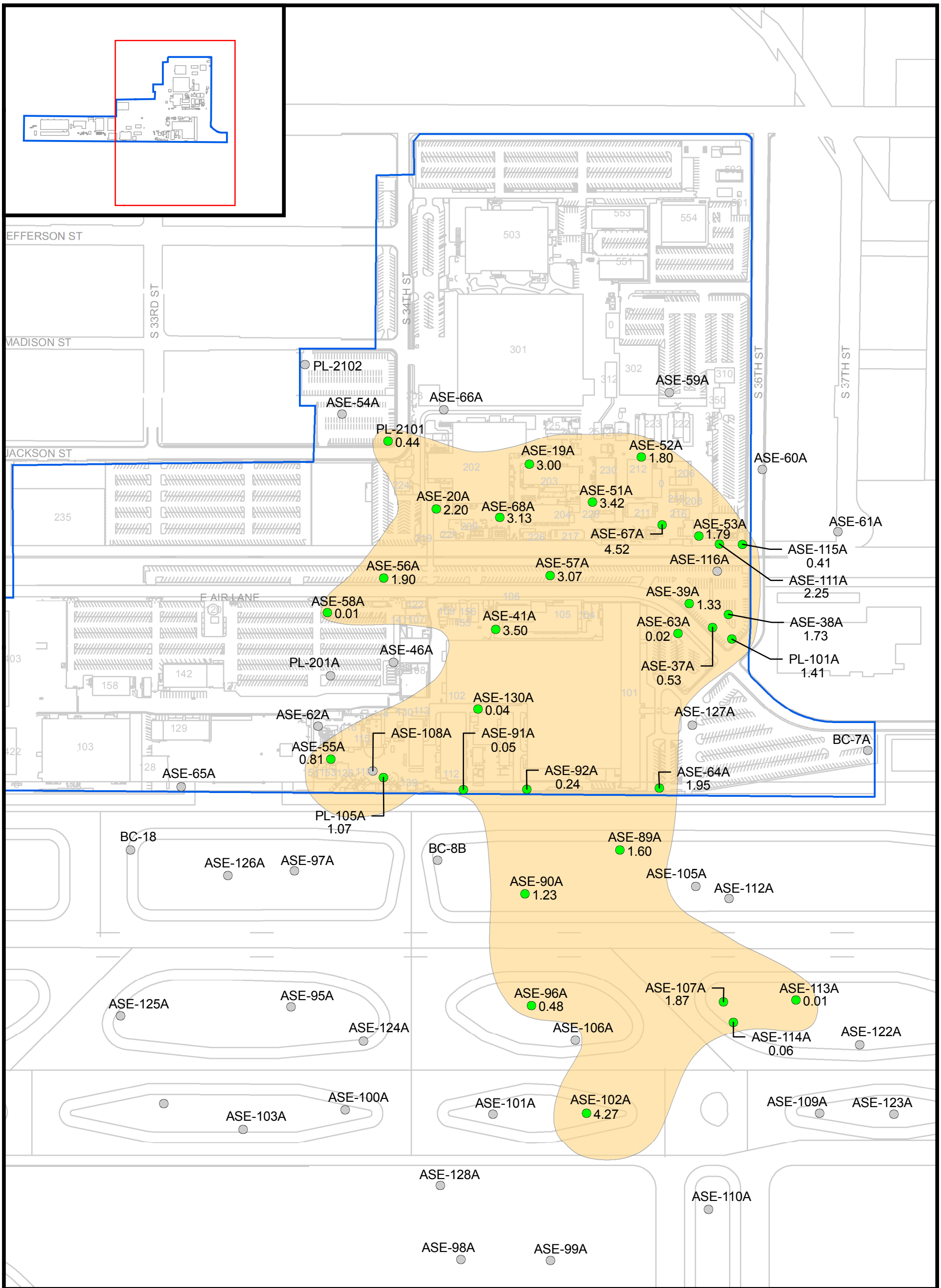
0 150 300 600 Feet

Note:
All measurements recorded on December 4, 2008.

FIGURE 2-3
FREE-PRODUCT THICKNESS
DECEMBER 2008
Honeywell 34th Street Facility
Phoenix, Arizona

CH2MHILL

\\MADISON\GROUPS\EMS\GIS_LIBRARY\HONEYWELL PROJECTS\UST QUARTERLY REPORTS\4TH QRT DEC 2008\MAPFILES\FIG2-3_FREEPRODUCTTHICKNESS-DECEMBER2008.MXD CVF 2/2/2009 10:04:23



Legend

- Free Product Detected (thickness provided in feet)
- Free Product Not Detected
- Street and Airport Features
- Honeywell Facility
- Historical Free Product Extent (as of December 4, 2008)

N W E S

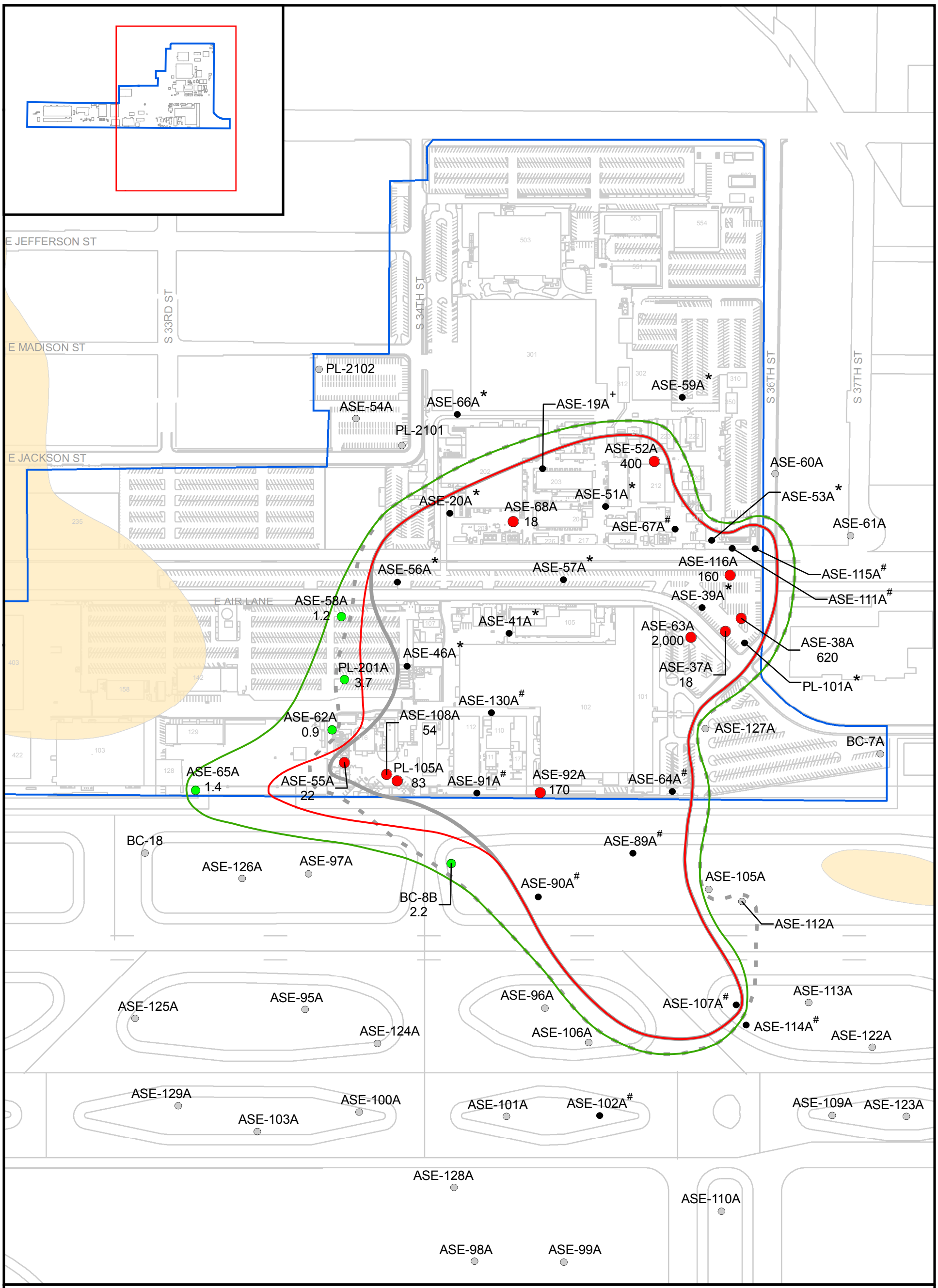
0 150 300 600 Feet

FIGURE 2-4
FREE-PRODUCT THICKNESS (MAXIMUM)

Honeywell 34th Street Facility
Phoenix, Arizona

CH2MHILL

\\MADISON\GROUPS\EMS\GIS_LIBRARY\HONEYWELL PROJECTS\UST QUARTERLY REPORTS\4TH QRT DEC 2008\MAPFILES\FIG2-4_FREEPRODUCT THICKNESS (MAXIMUM).MXD CVF 2/2/2009 10:06:11



Legend

- Compound Not Detected
- Compound Detected (µg/L)
- Regulatory Standard Exceeded
- Well Not Sampled
- Street and Airport Features
- Honeywell Facility
- Honeywell Bedrock Rise

December 2008

- Not Detected Above Reporting Limit
- 5 µg/L

September 2008

- Not Detected Above Reporting Limit
- 5 µg/L

N W E S

0 150 300 600 Feet

Notes:

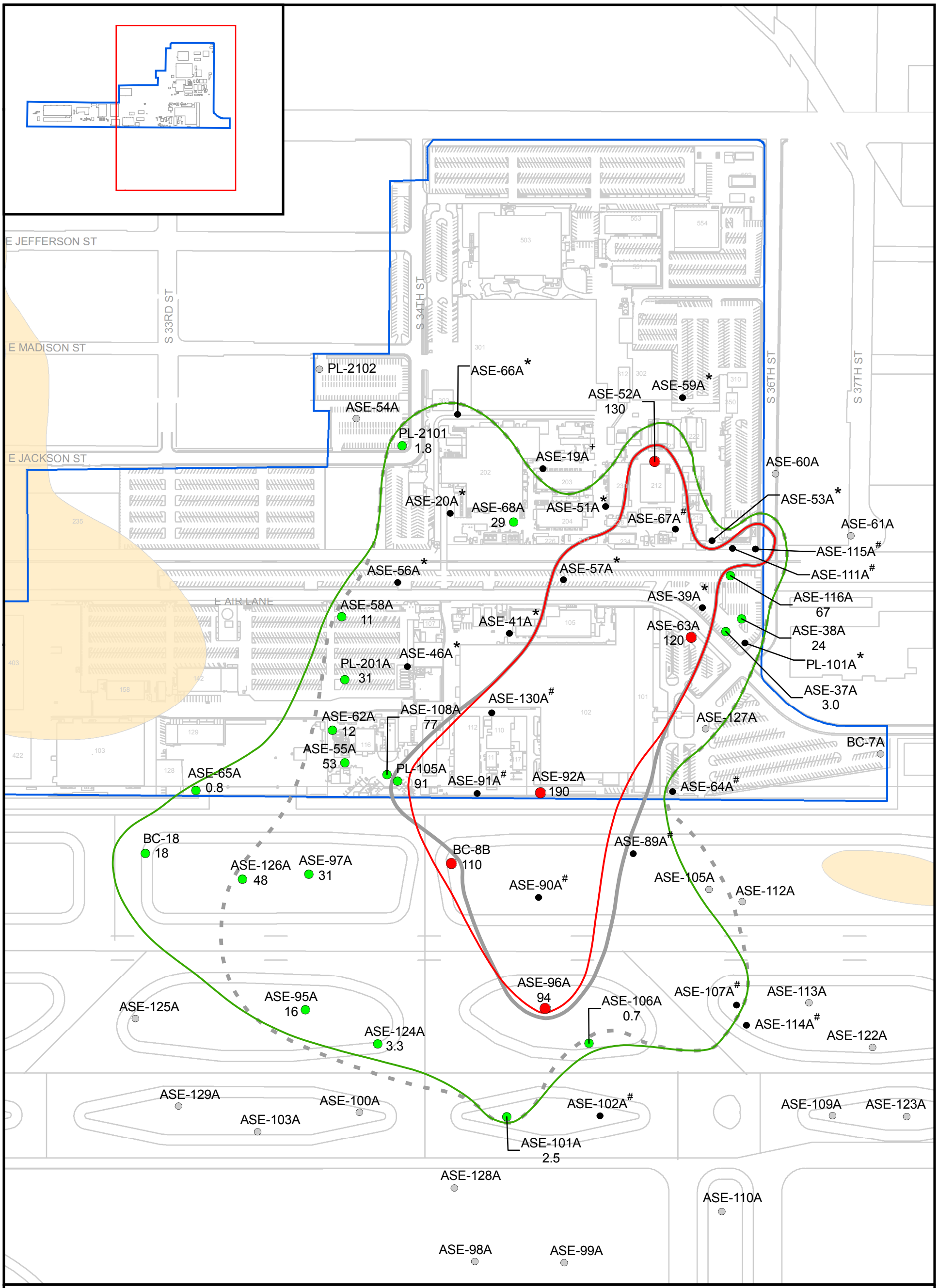
1. Exceedance value is 5 µg/L.
2. Samples collected between December 8, 2008 and December 16, 2008.
3. # Indicates monitoring well not sampled due to presence of free product per CH2M HILL, 2008a.
4. * Indicates monitoring well not sampled due to connection to BSVE system.
5. + Indicates monitoring well not sampled due to insufficient water in well.

FIGURE 2-5
BENZENE
DECEMBER 2008
GROUNDWATER PARAMETERS

Honeywell 34th Street Facility
Phoenix, Arizona

CH2MHILL

\\MADISON\GROUPS\EMS\GIS_LIBRARY\HONEYWELL PROJECTS\UST QUARTERLY REPORTS\4TH QRT DEC 2008\MAPFILES\FIG2-5_GW_BENZENE-DECEMBER2008.MXD TJW 2/16/2009 13:01:18



Legend

- Compound Not Detected
- Compound Detected (µg/L)
- Regulatory Standard Exceeded
- Well Not Sampled
- Street and Airport Features
- Honeywell Facility
- Honeywell Bedrock Rise

December 2008

- Not Detected Above Reporting Limit
- 94 µg/L

September 2008

- Not Detected Above Reporting Limit
- 94 µg/L

N W E S

0 150 300 600 Feet

Notes:

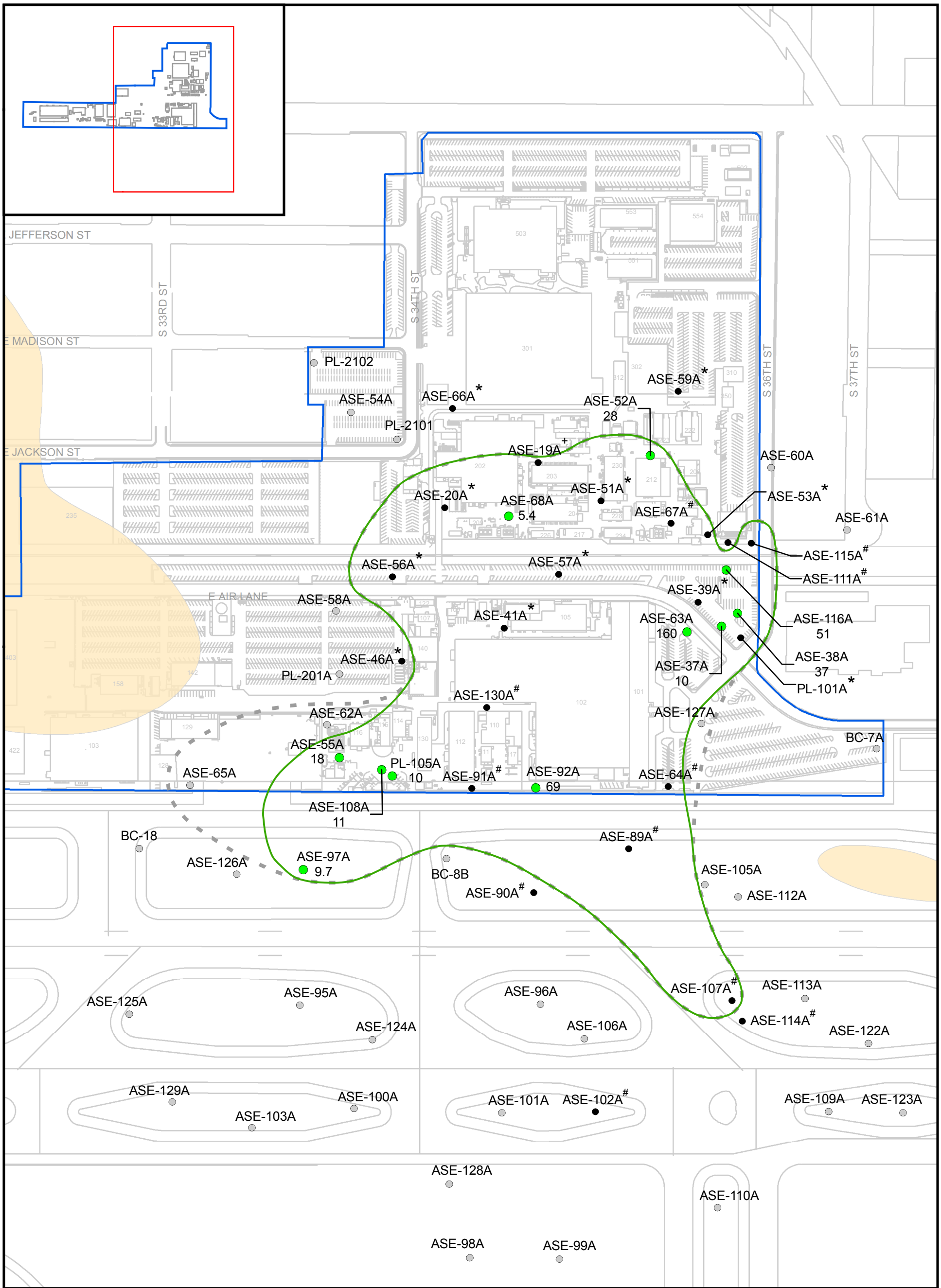
1. Exceedance value is 94 ug/L.
2. Samples collected between December 8, 2008 and December 16, 2008.
3. # Indicates monitoring well not sampled due to presence of free product per CH2M HILL, 2008a.
4. * Indicates monitoring well not sampled due to connection to BSVE system.
5. + Indicates monitoring well not sampled due to insufficient water in well.

FIGURE 2-6
METHYL TERT-BUTYL ETHER
DECEMBER 2008
GROUNDWATER PARAMETERS

Honeywell 34th Street Facility
Phoenix, Arizona

CH2MHILL

\\MADISON\GROUPS\EMS\GIS_LIBRARY\HONEYWELL PROJECTS\UST QUARTERLY REPORTS\4TH QRT DEC 2008\MAPFILES\FIG2-6_GW_MTBE-DECEMBER2008.MXD TJW 2/16/2009 10:40:16



Legend

- Compound Not Detected
- Compound Detected (µg/L)
- Well Not Sampled
- Street and Airport Features
- Honeywell Facility
- Honeywell Bedrock Rise

December 2008

- Not Detected Above Reporting Limit

September 2008

- Not Detected Above Reporting Limit

N W E S

0 150 300 600 Feet

Notes:

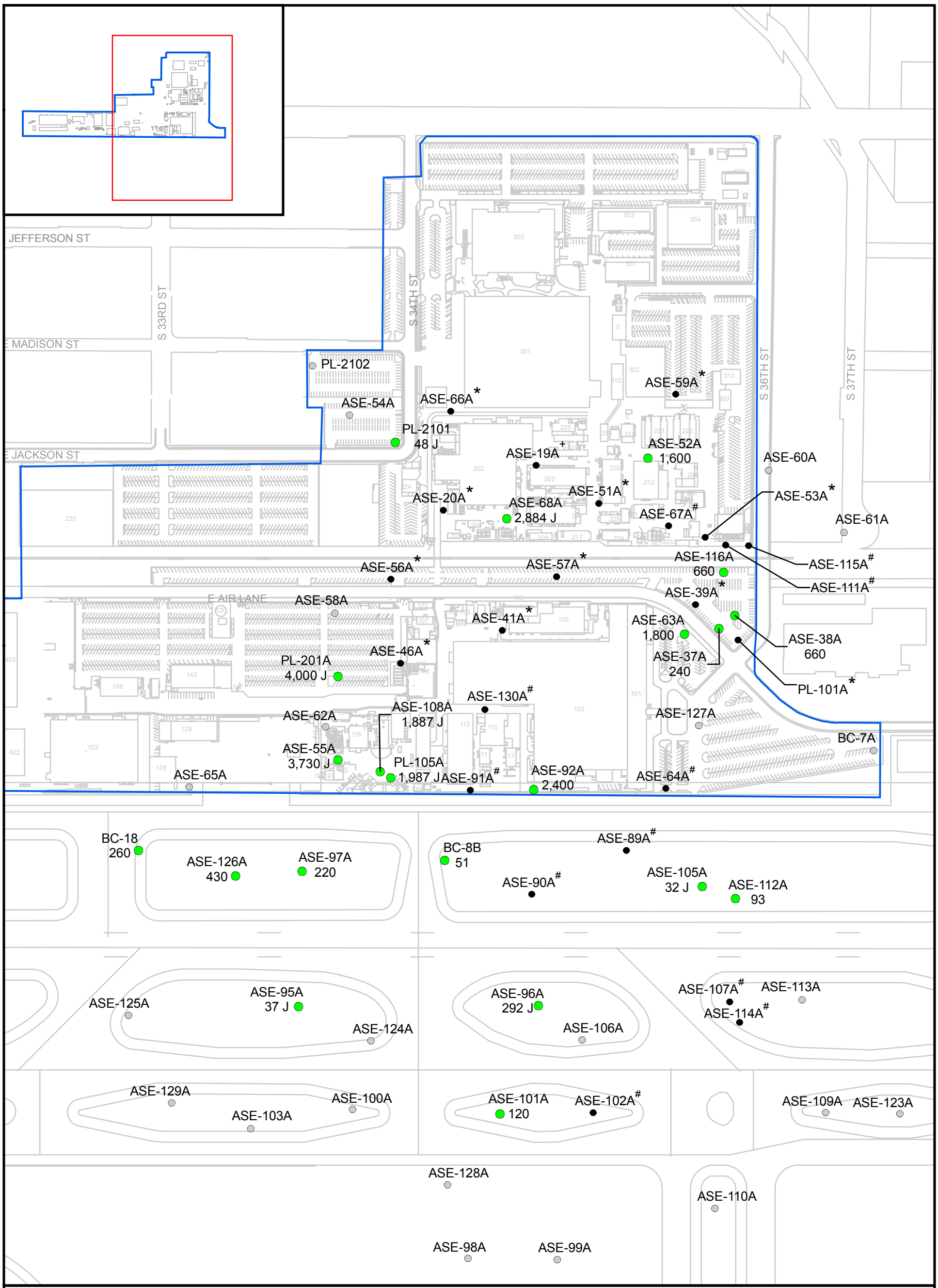
1. Exceedance value is 280 ug/L.
2. Samples collected between December 8, 2008 and December 16, 2008.
3. # Indicates monitoring well not sampled due to presence of free product per CH2M HILL, 2008a.
4. * Indicates monitoring well not sampled due to connection to BSVE system.
5. + Indicates monitoring well not sampled due to insufficient water in well.

FIGURE 2-7
NAPHTHALENE
DECEMBER 2008
GROUNDWATER PARAMETERS

Honeywell 34th Street Facility
Phoenix, Arizona

CH2MHILL

\\MADISON\GROUPS\EMS\GIS_LIBRARY\HONEYWELL PROJECTS\UST QUARTERLY REPORTS\4TH QRT DEC 2008\MAPFILES\FIG2-7_GW_NAPHTHALENE-DECEMBER2008.MXD TJW 2/16/2009 10:52:50



Legend

- Compound Not Detected
- Compound Detected (µg/L)
- Well Not Sampled
- Street and Airport Features
- Honeywell Facility

N W E S

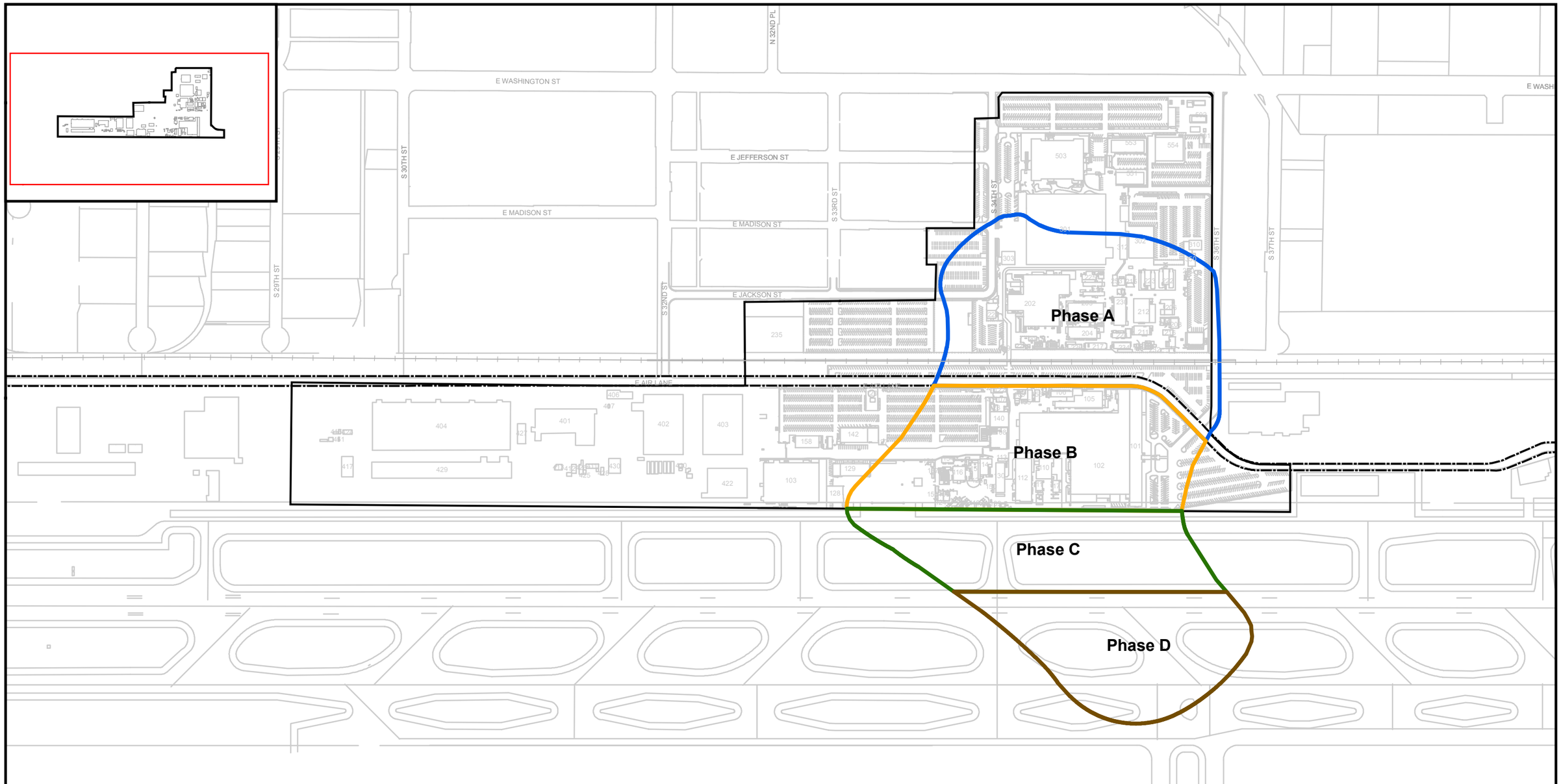
0 150 300 600 Feet

Notes:
1. TRPH is the sum of C10 through C32 Compounds.
2. Samples collected between December 8, 2008 and December 16, 2008.
3. J = Analyte detected but concentration estimated by laboratory.
4. # Indicates monitoring well not sampled due to presence of free product per CH2M HILL, 2008a.
5. * Indicates monitoring well not sampled due to connection to BSVE system.
6. + Indicates monitoring well not sampled due to insufficient water in well.

FIGURE 2-8
TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (TRPH) DECEMBER 2008 GROUNDWATER PARAMETERS
Honeywell 34th Street Facility
Phoenix, Arizona

CH2MHILL

\\MADISON\GROUPS\EMS\GIS_LIBRARY\HONEYWELL PROJECTS\UST QUARTERLY REPORTS\4TH QRT DEC 2008\MAPFILES\FIG2-8_GW_TRPH-DECEMBER2008.MXD TJW 2/16/2009 10:58:14



Legend

- Railroad
- Street and Airport Features
- Air Lane Right-of-Way
- Honeywell Facility
- Honeywell Owned Property, Phase A
- Honeywell Leased Property, Phase B
- PSHIA Property North of Runway 8-26, Phase C
- PSHIA Property South of Runway 8-26, Phase D

N W E S

0 250 500 1,000 Feet

FIGURE 3-1
HONEYWELL FACILITY LOCATION AND REMEDIATION PHASES

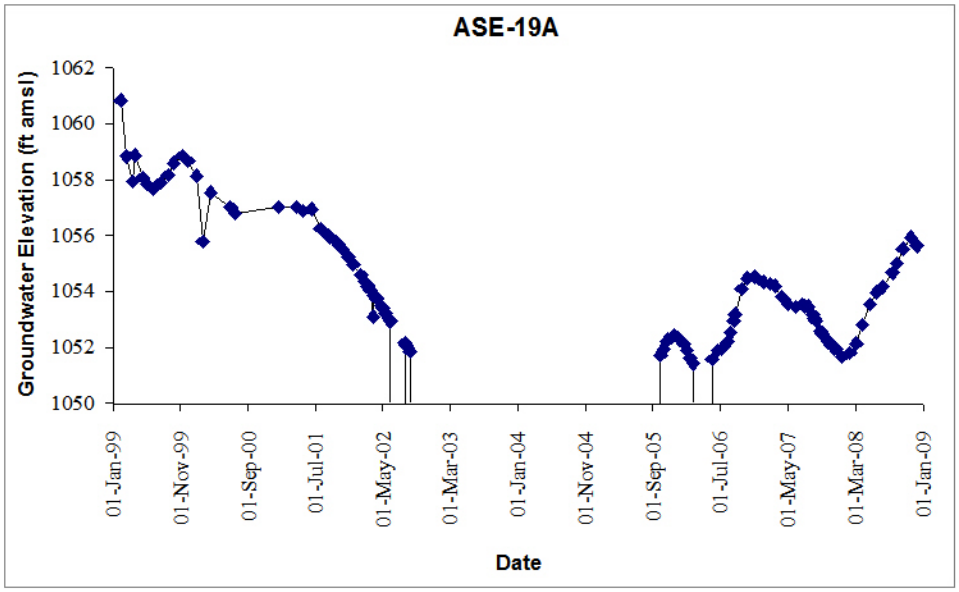
Honeywell 34th Street Facility
Phoenix, Arizona

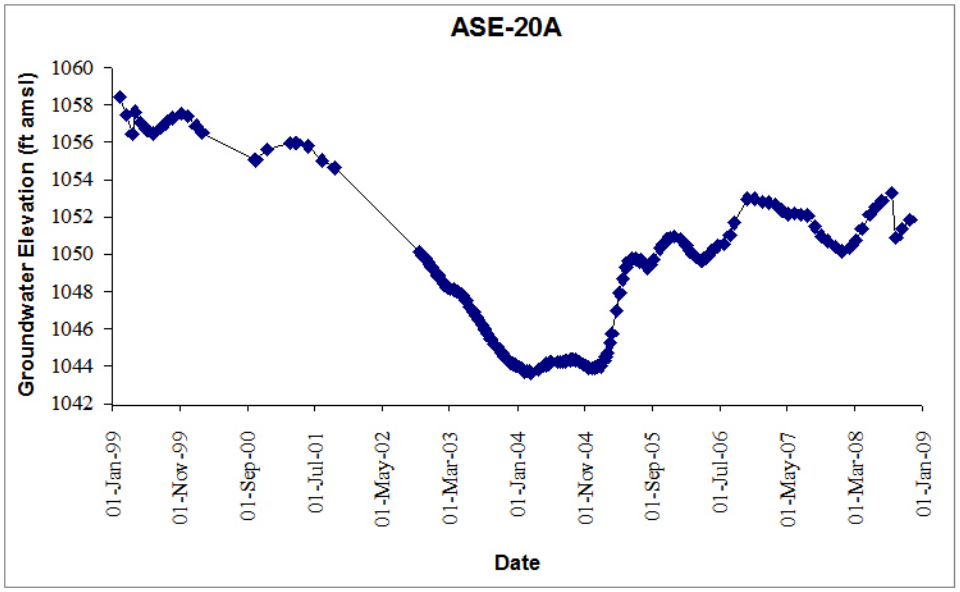
CH2MHILL

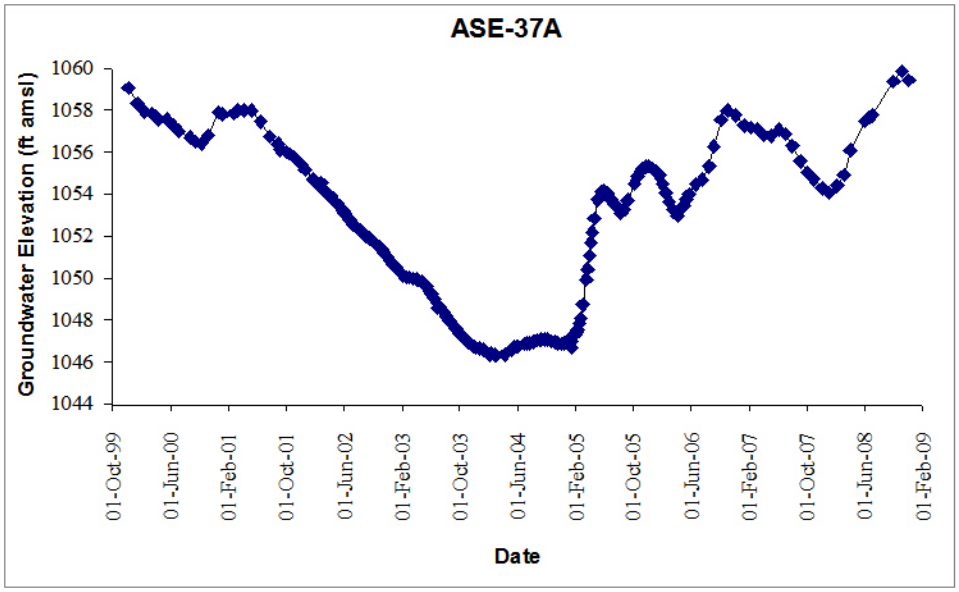
\\MADISON\GROUPS\EMS\GIS_LIBRARY\HONEYWELL PROJECTS\UST QUARTERLY REPORTS\4TH QRT DEC 2008\MAPFILES\FIG3-1_REMEDIATION_PHASES.MXD CVF 1/28/2009 16:16:28

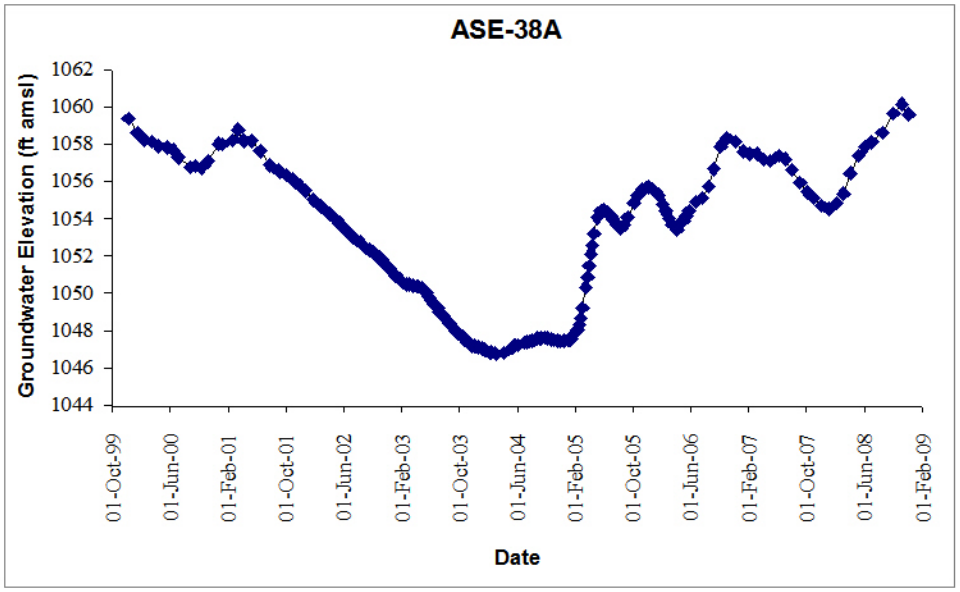
Appendix A
Hydrographs

HYDROGRAPHS

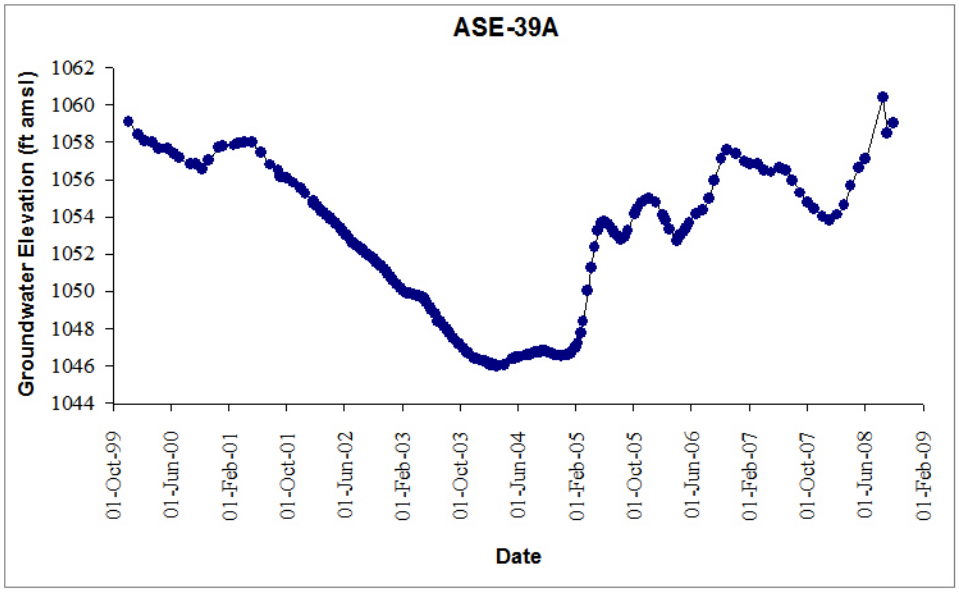


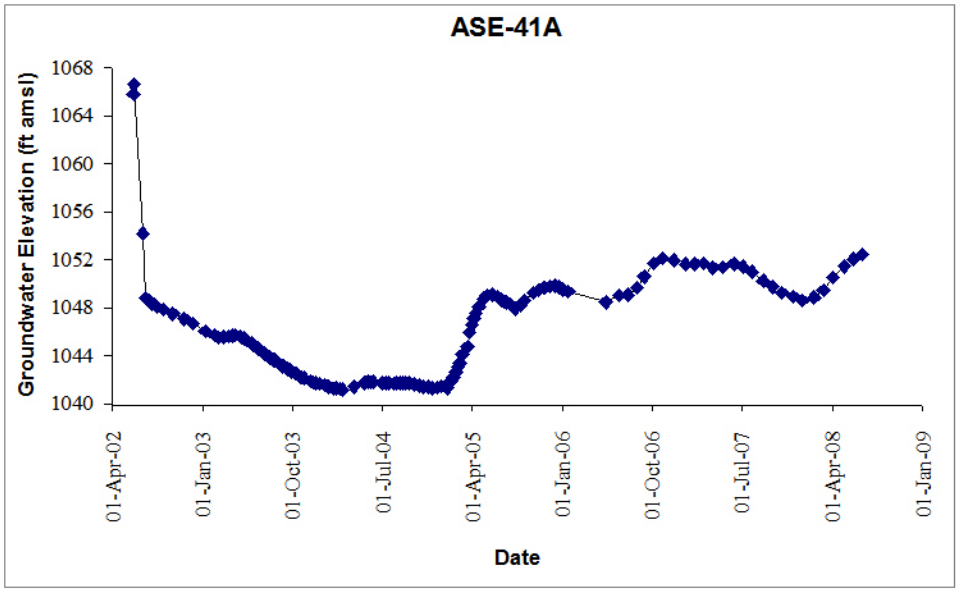


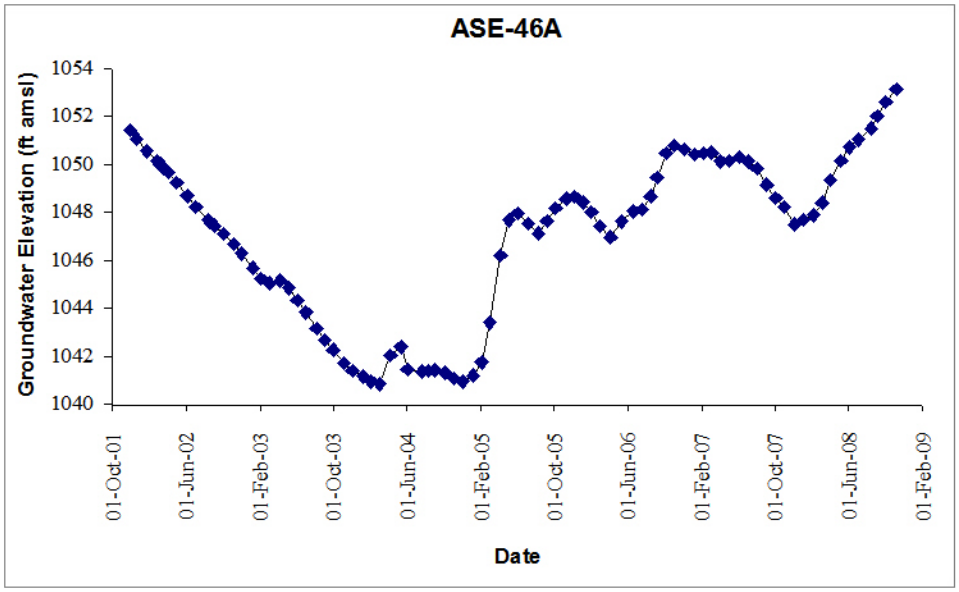


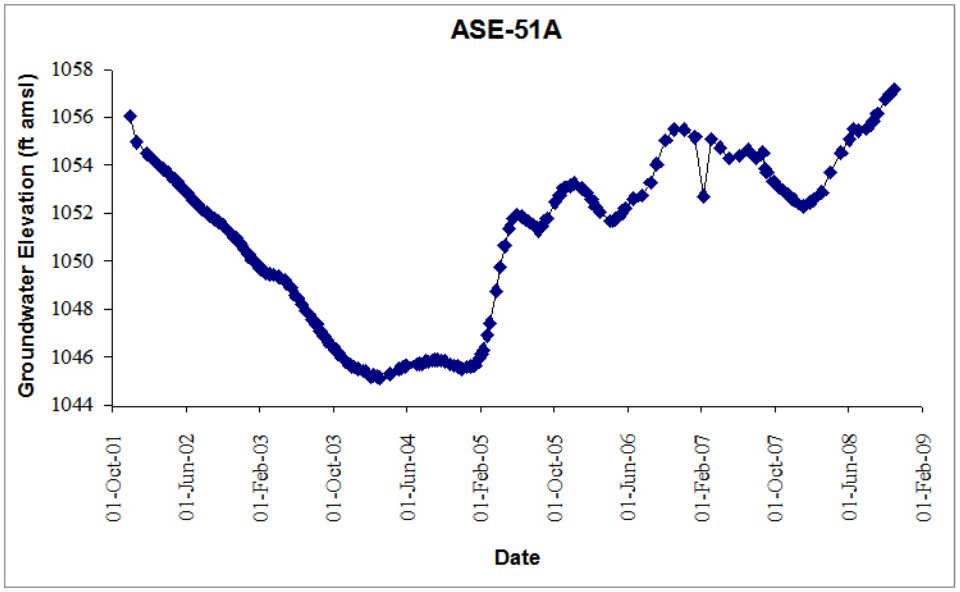


HYDROGRAPHS









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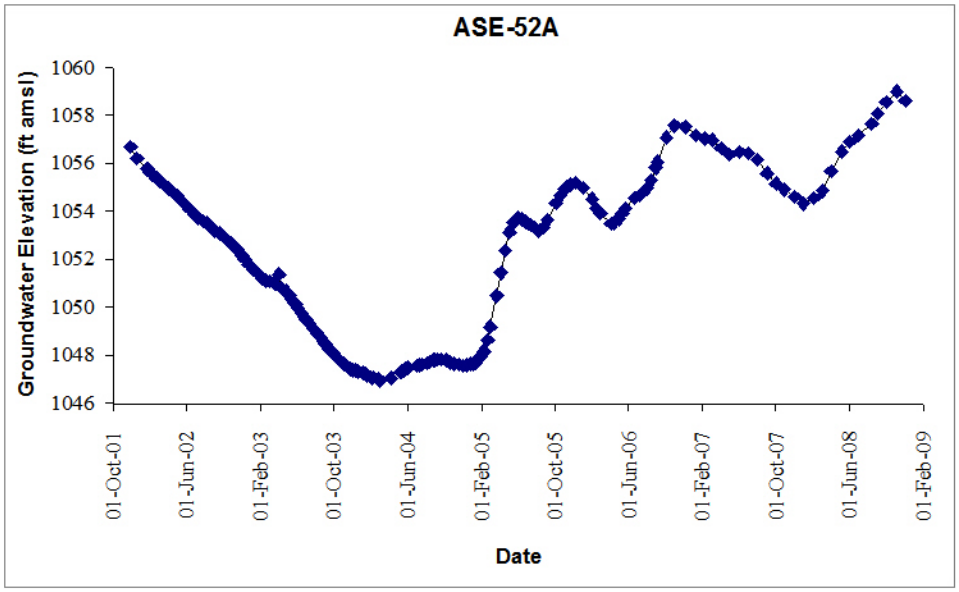

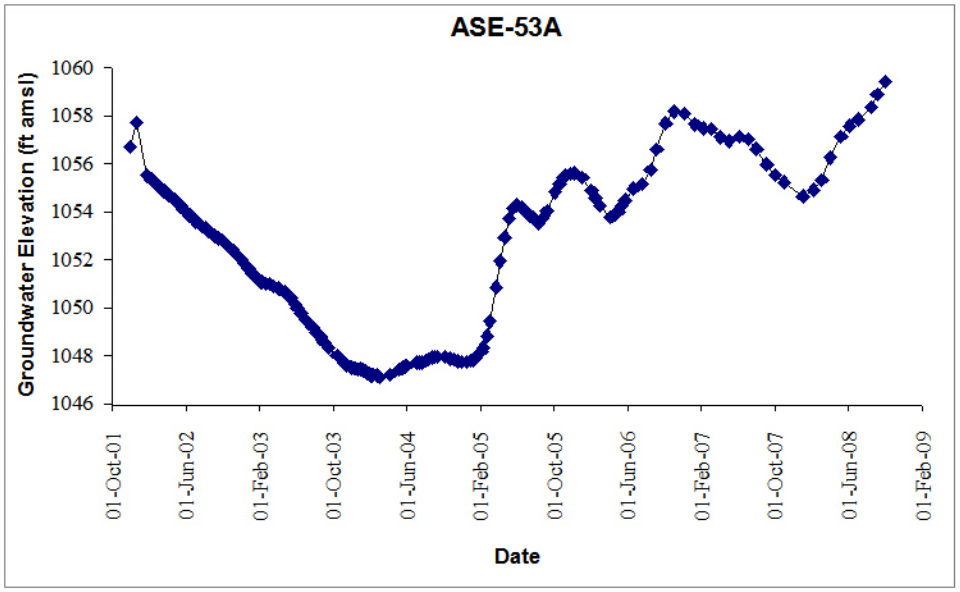

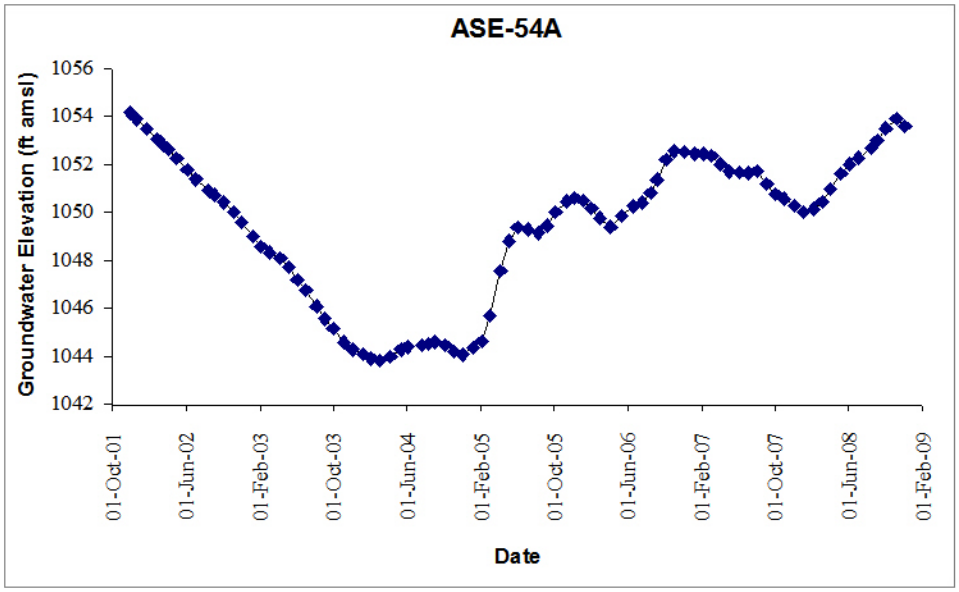

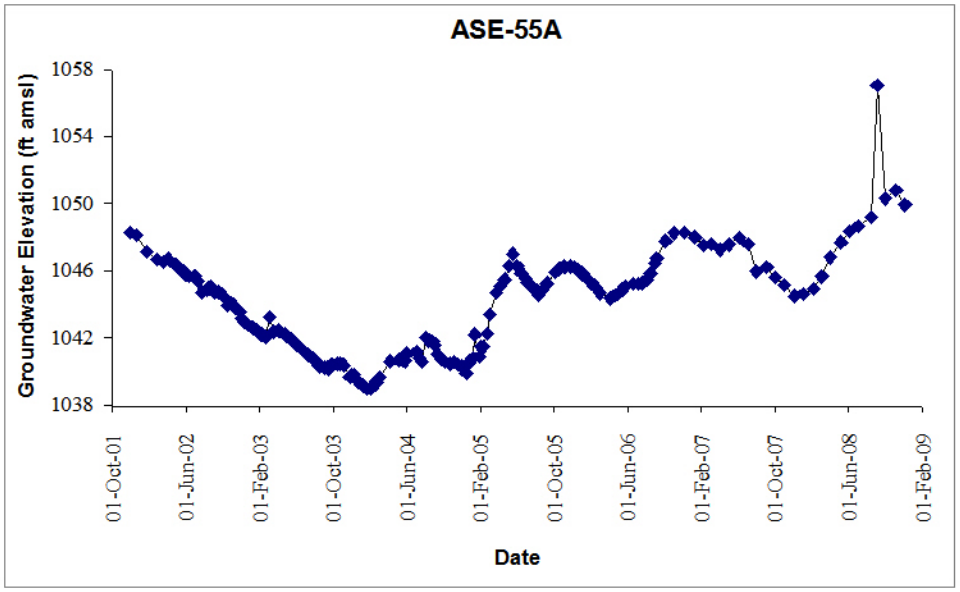

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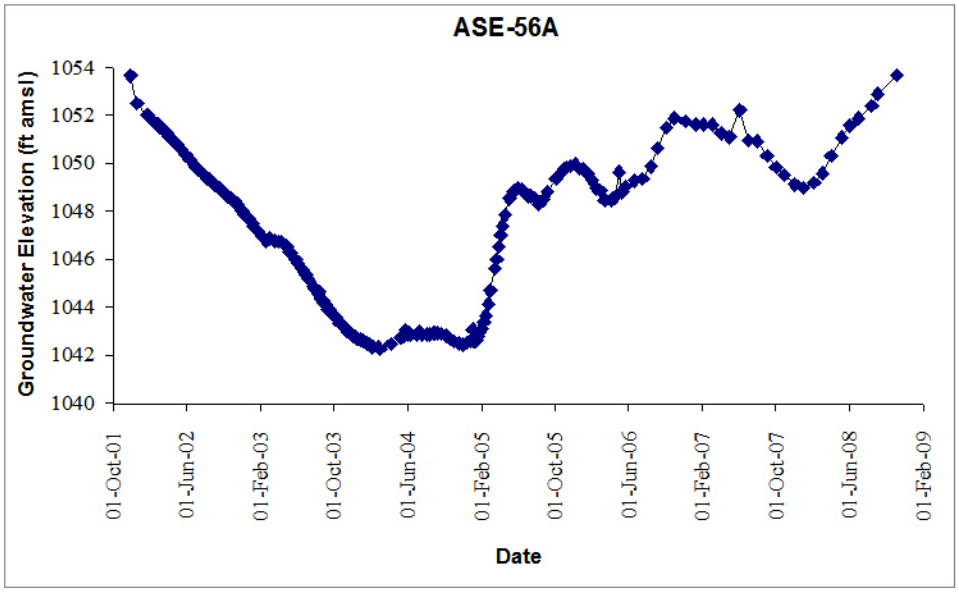

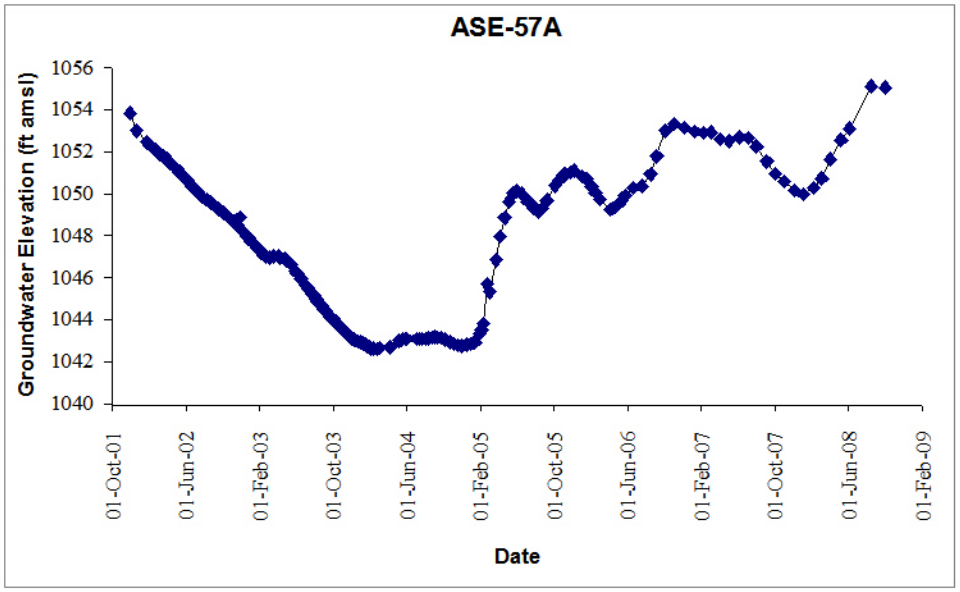

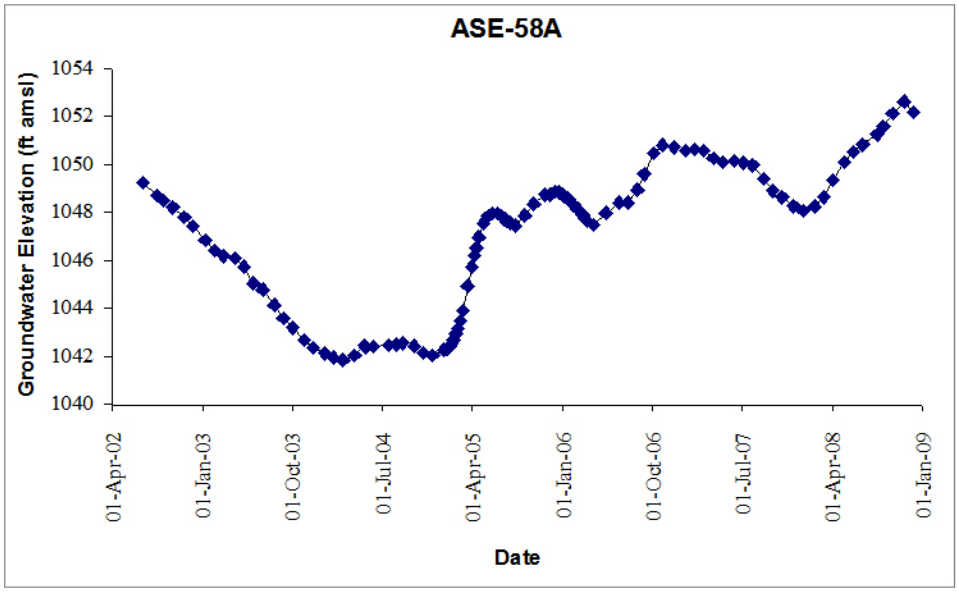

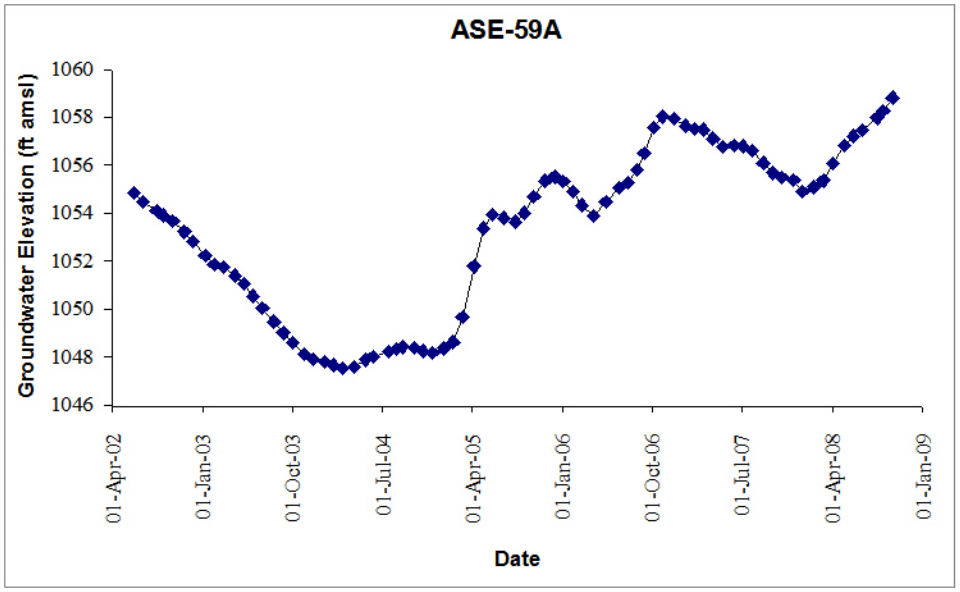

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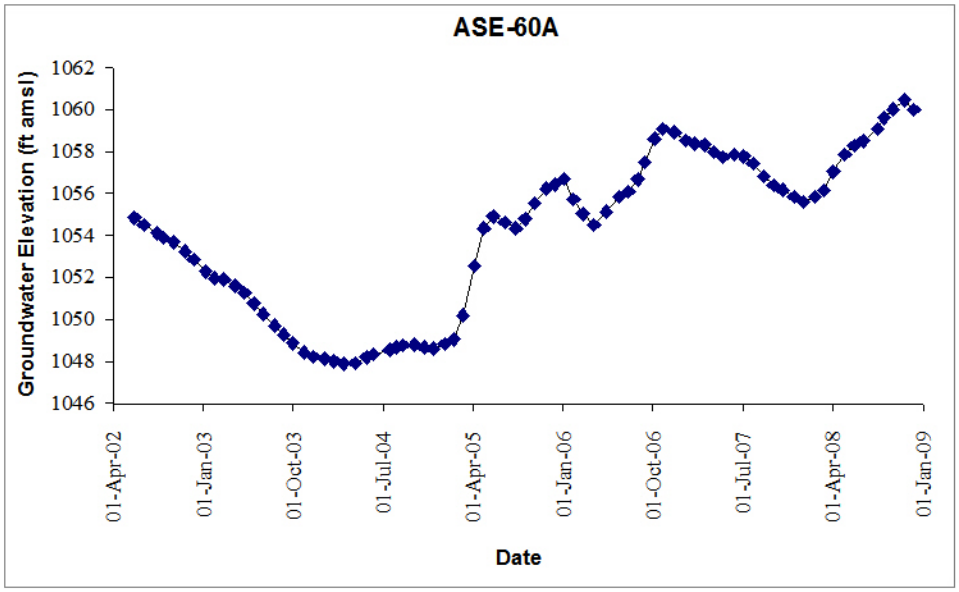

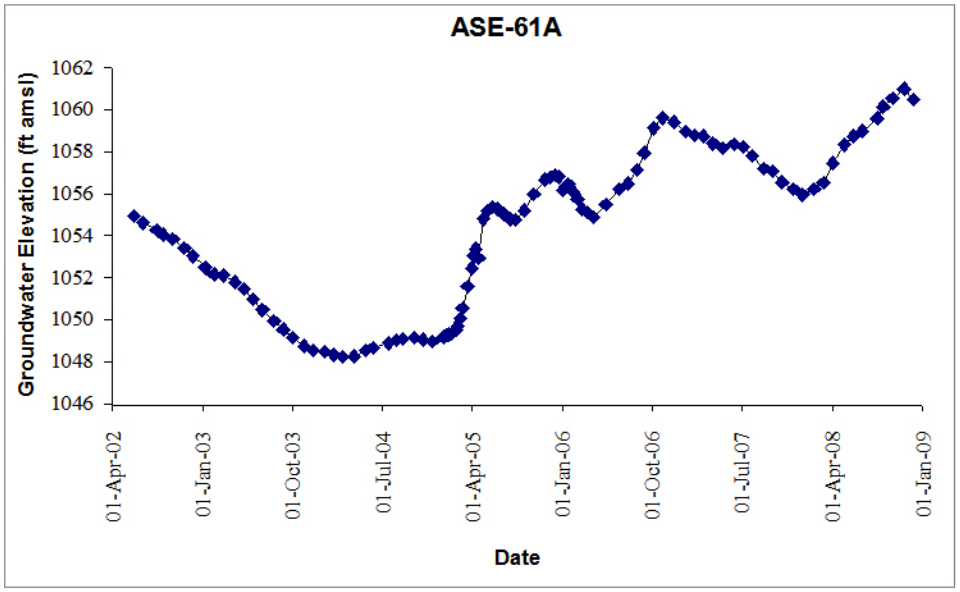

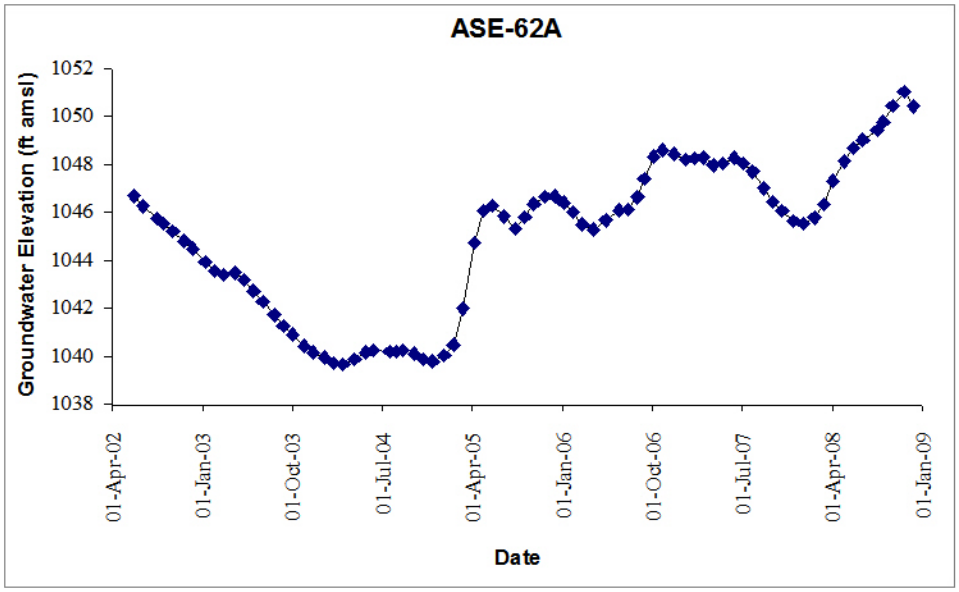

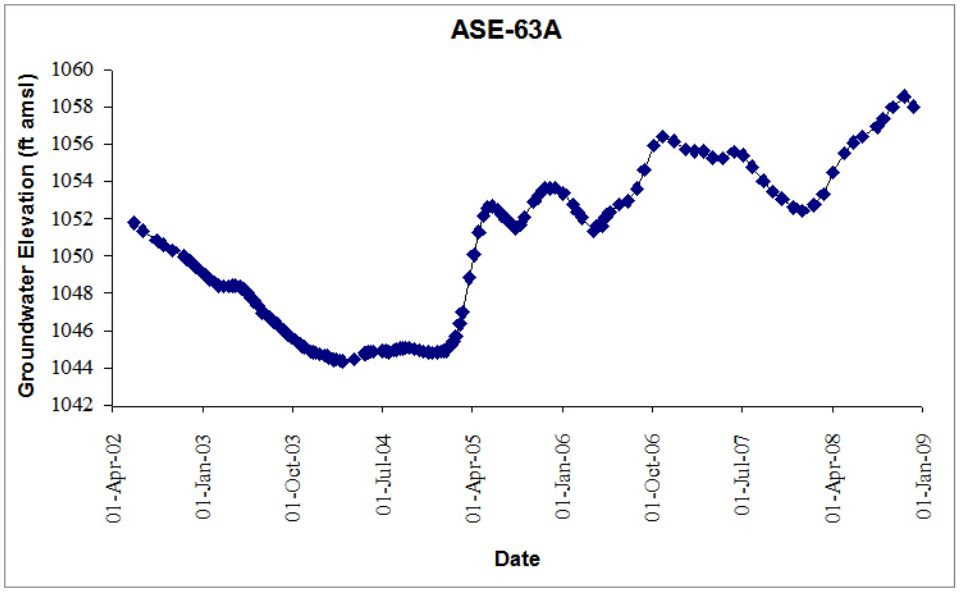

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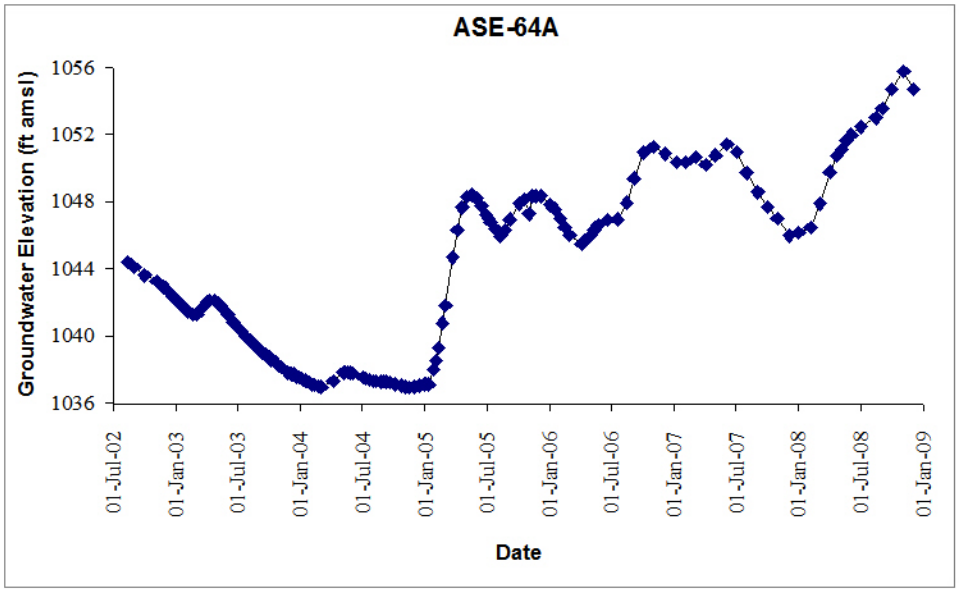

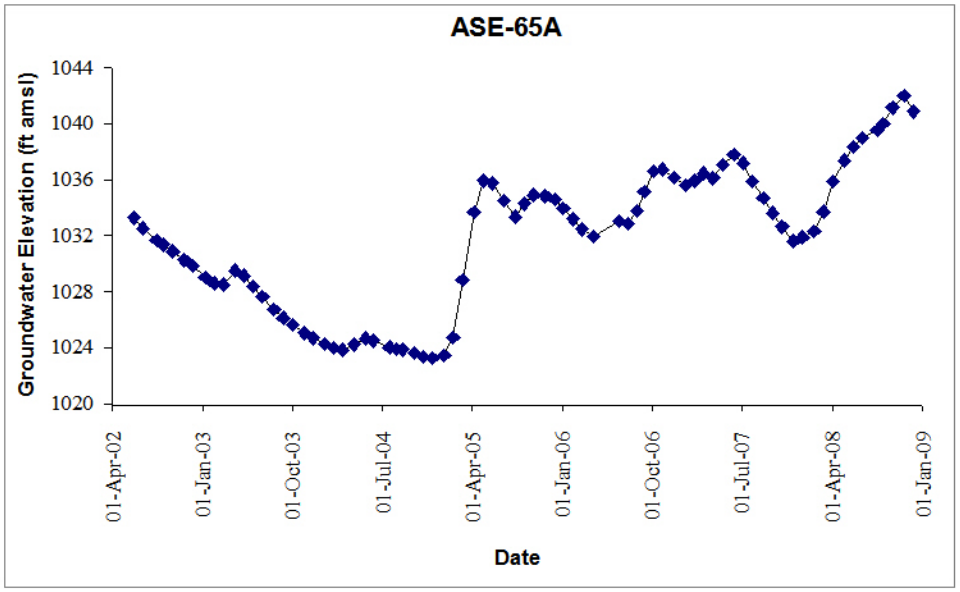

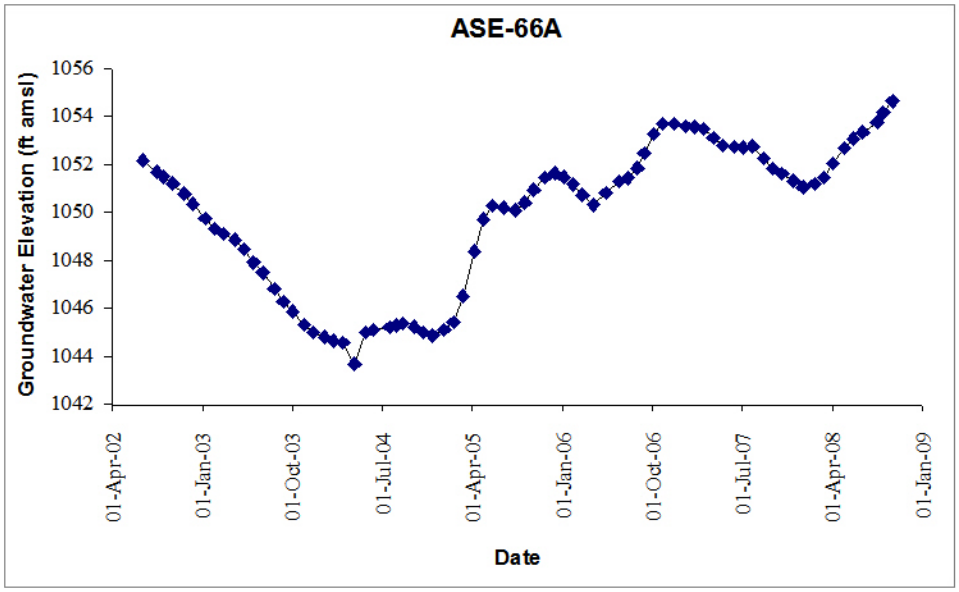

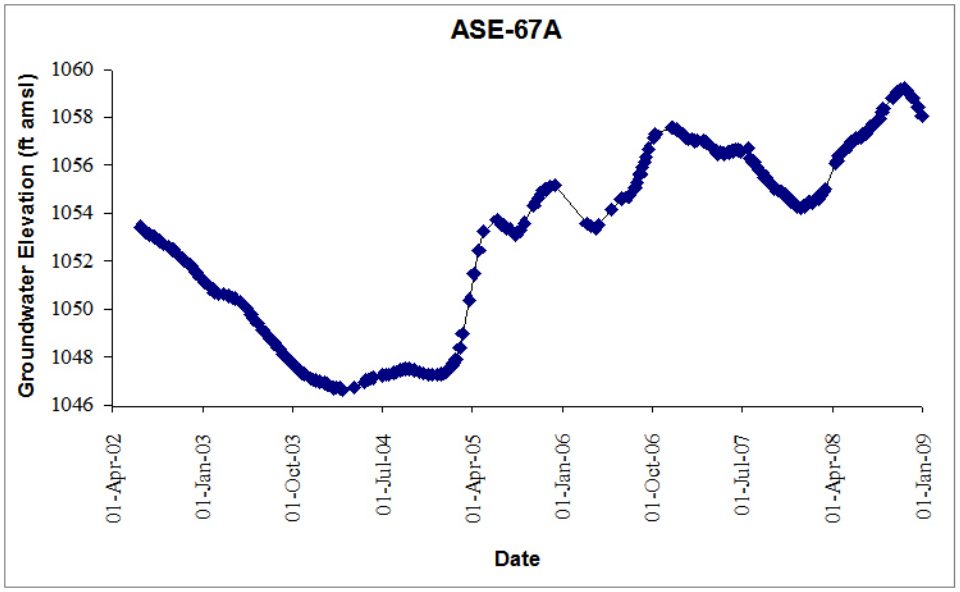

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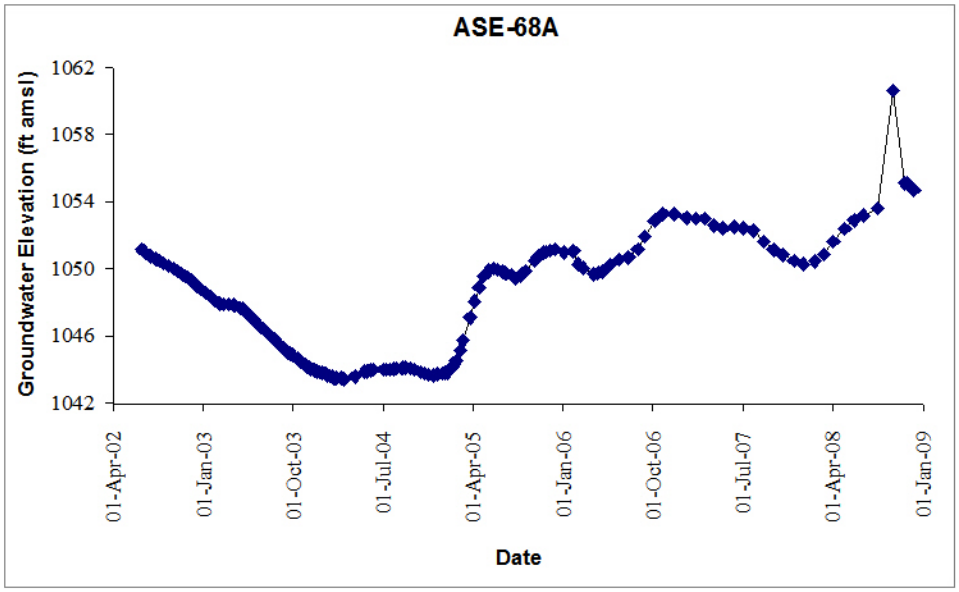

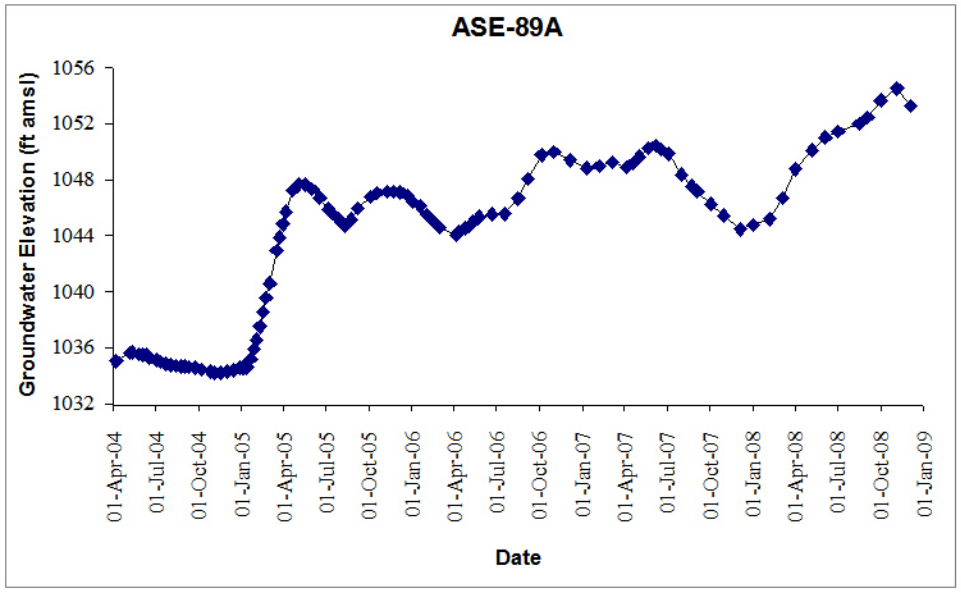

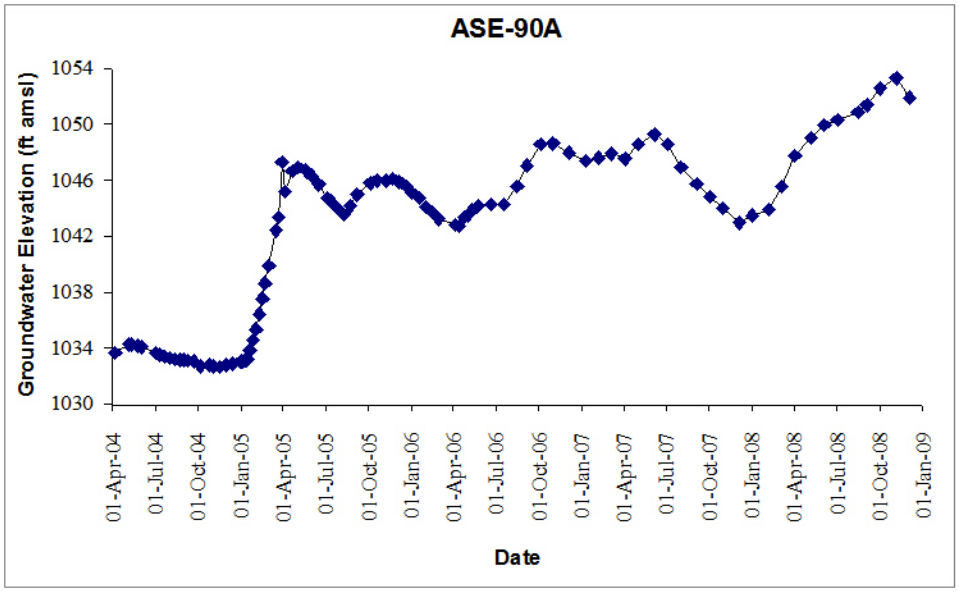

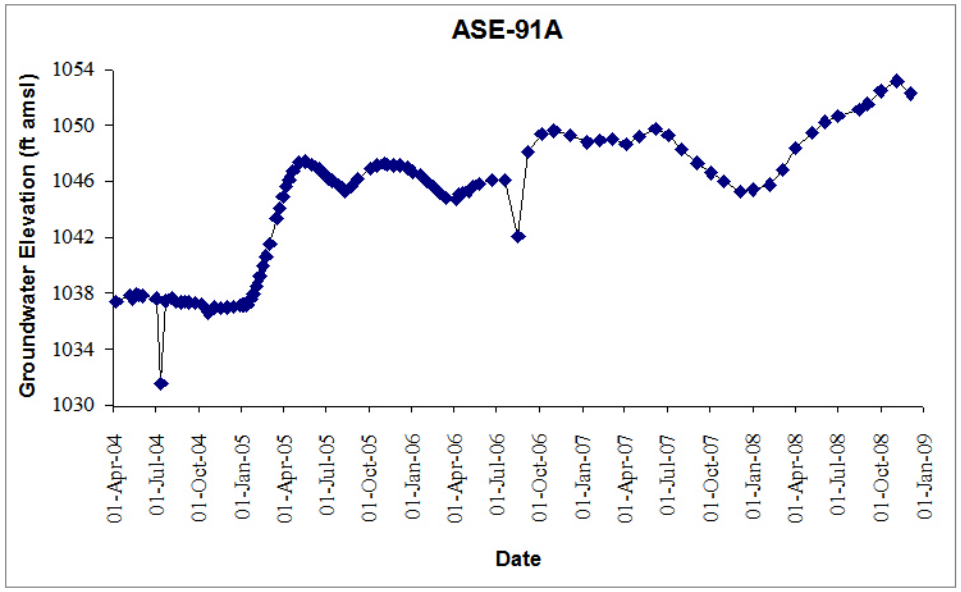

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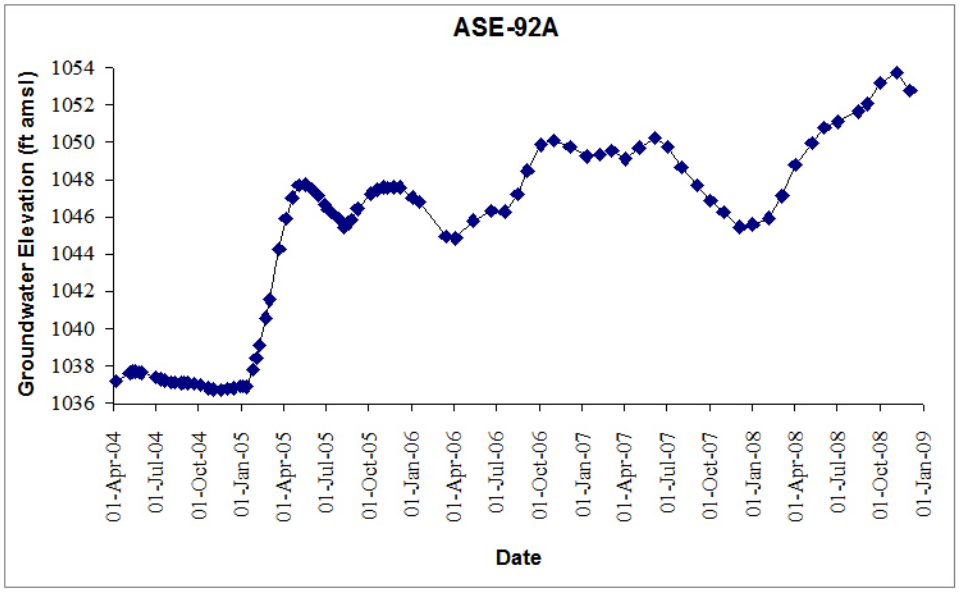

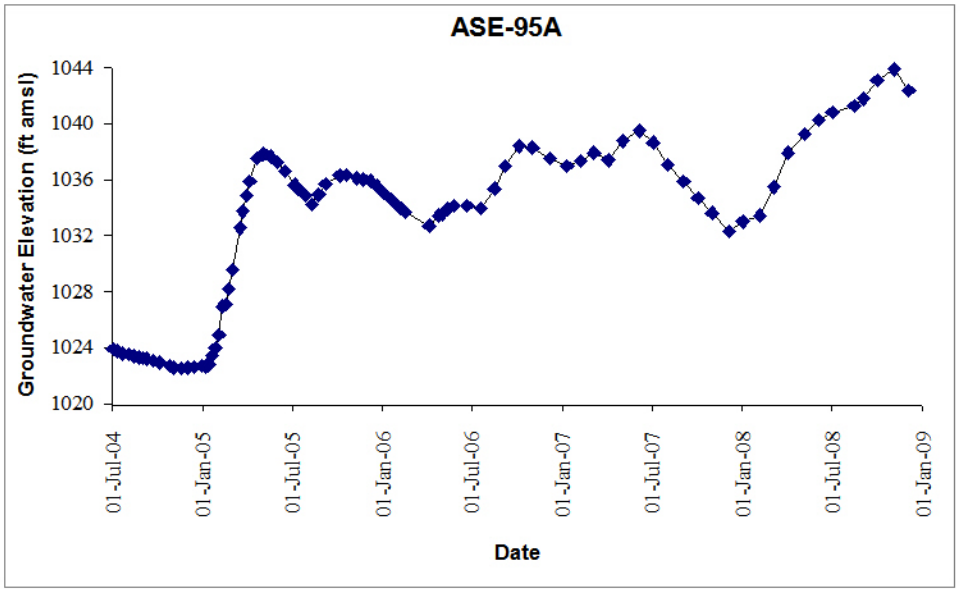

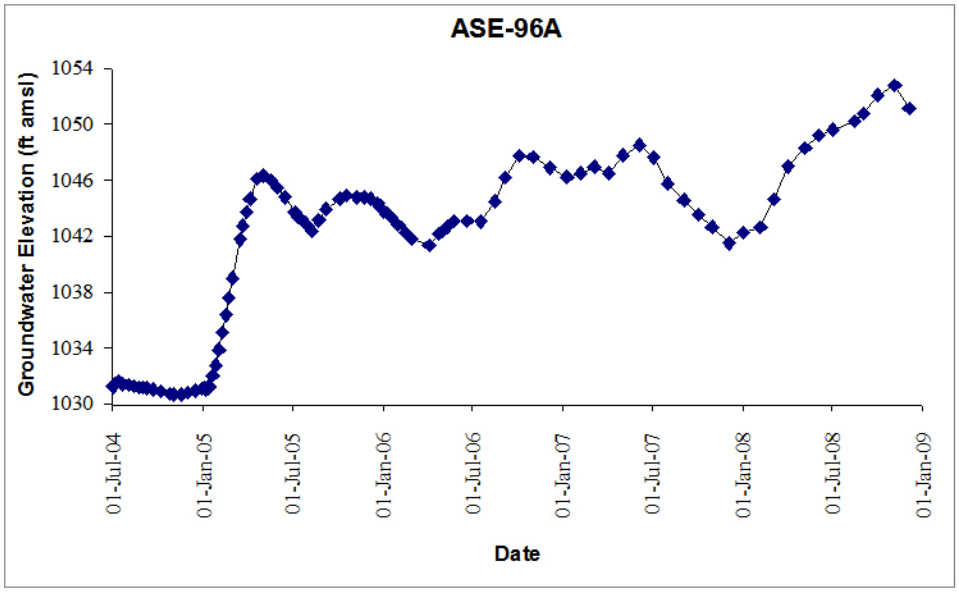

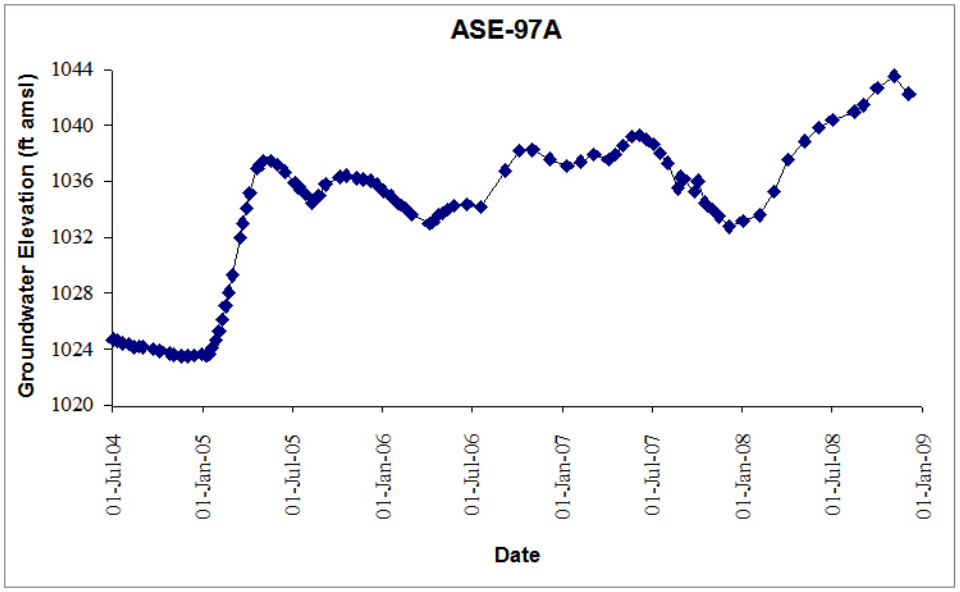

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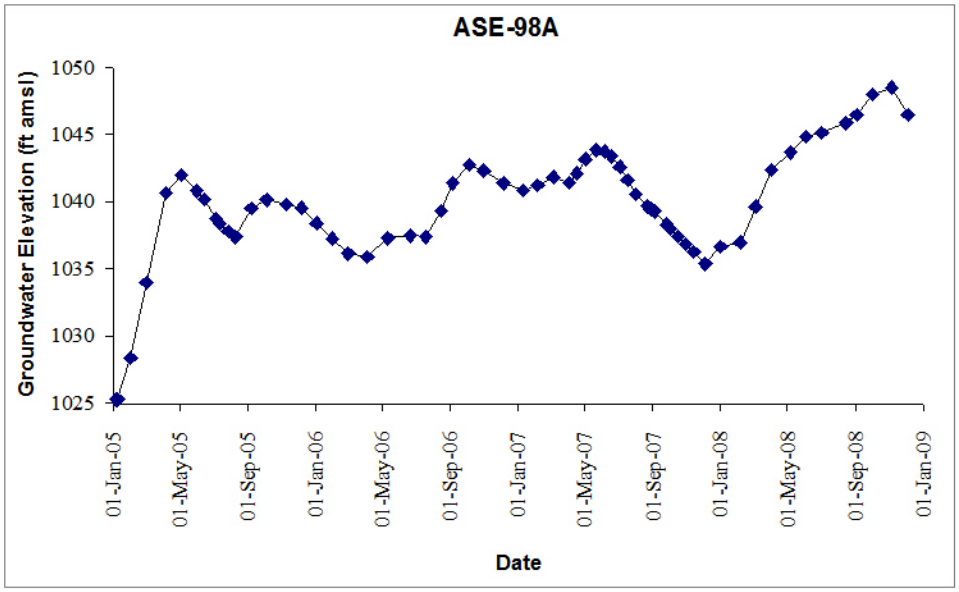

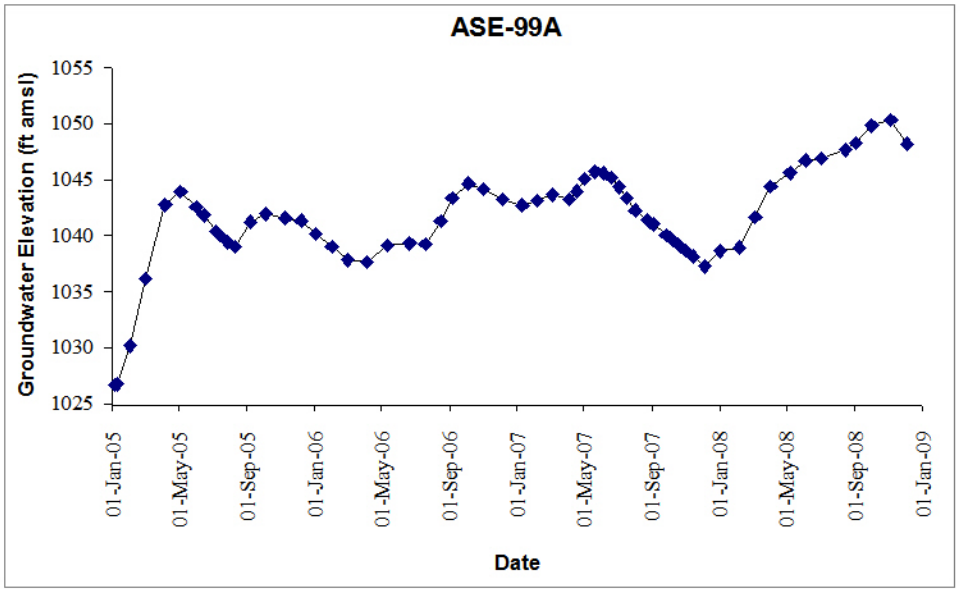

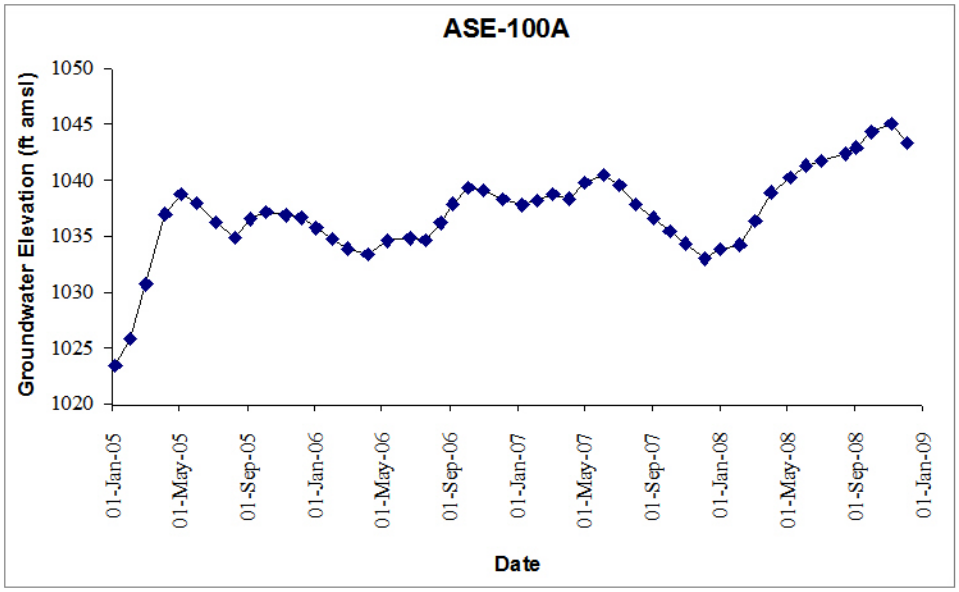

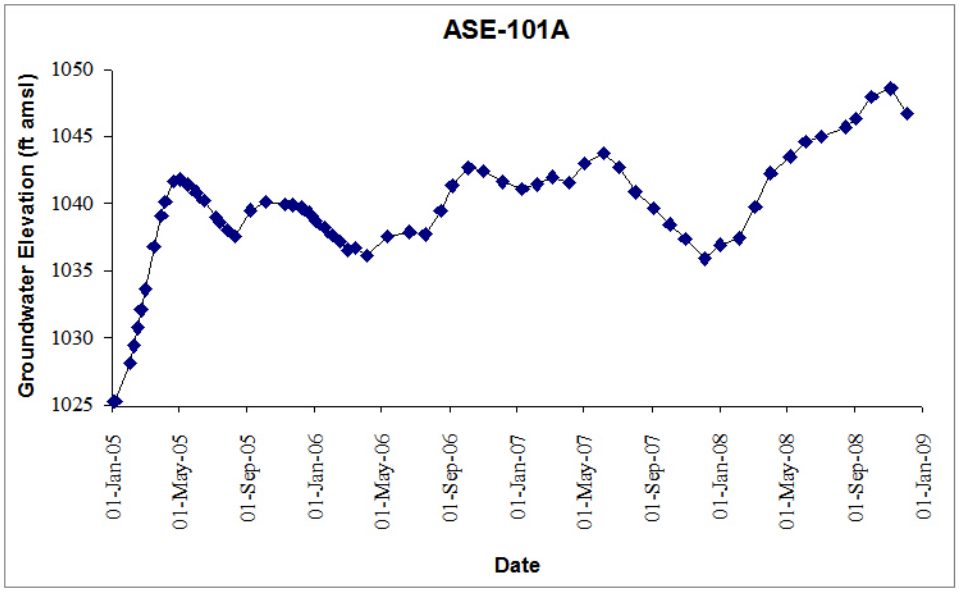

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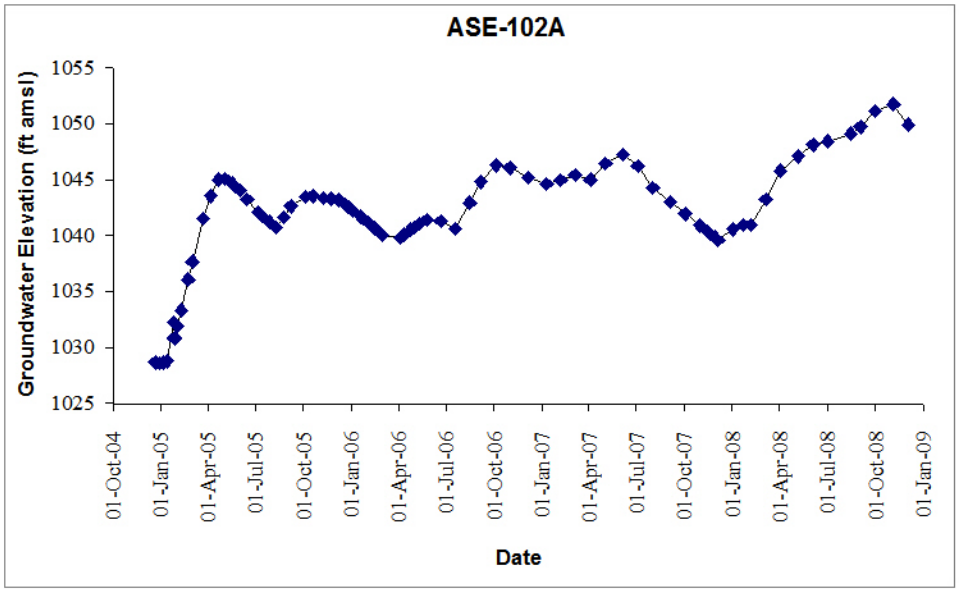

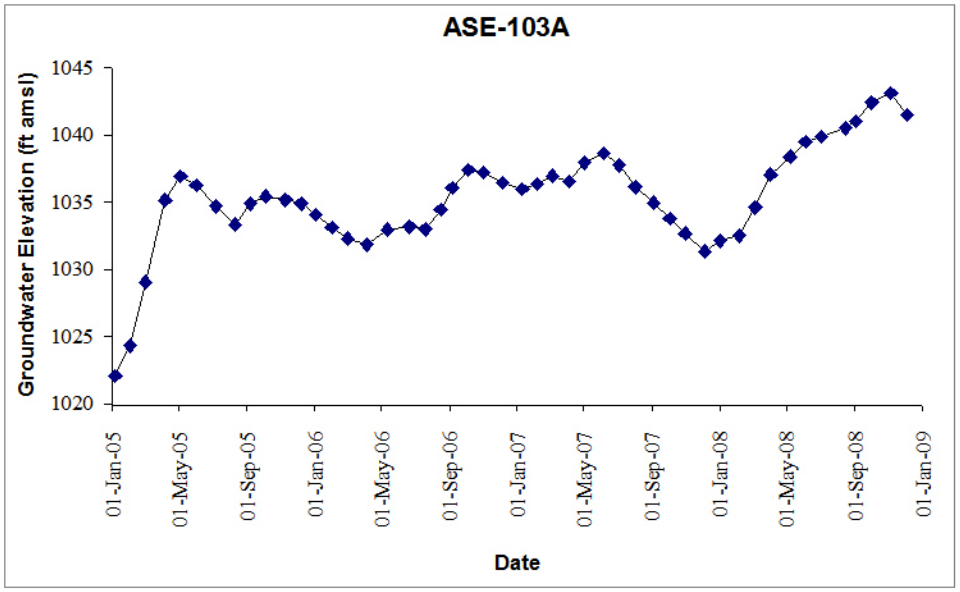

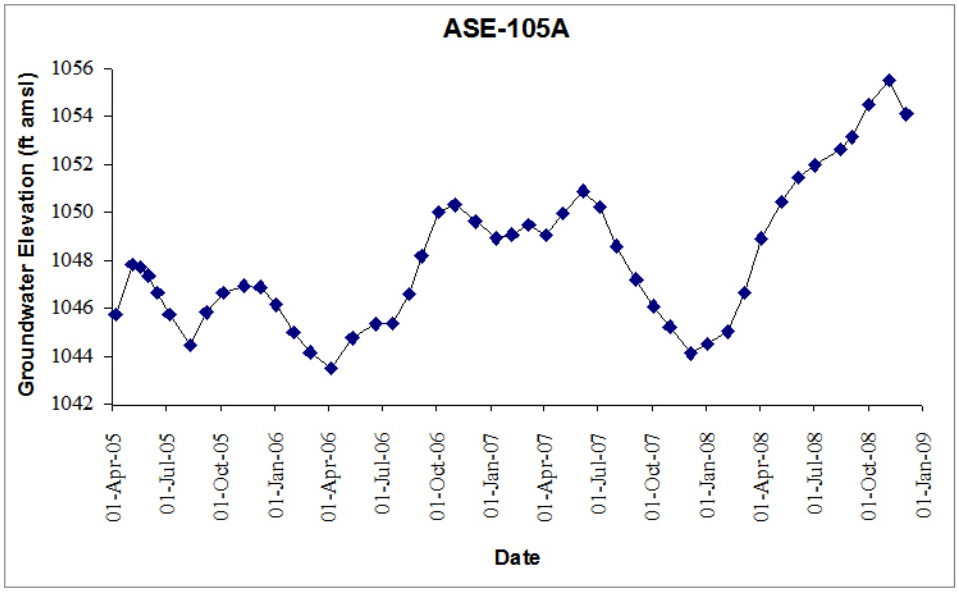

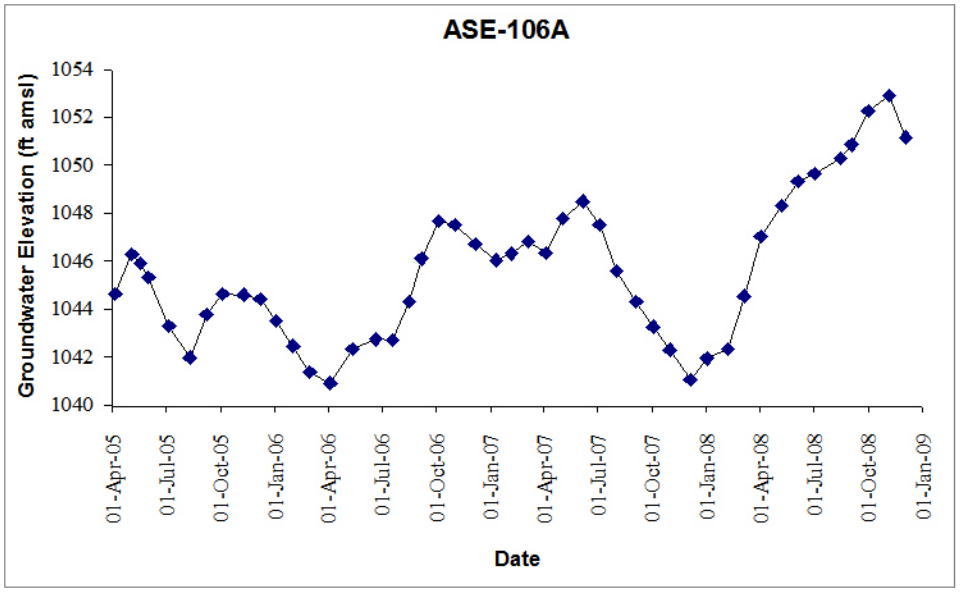

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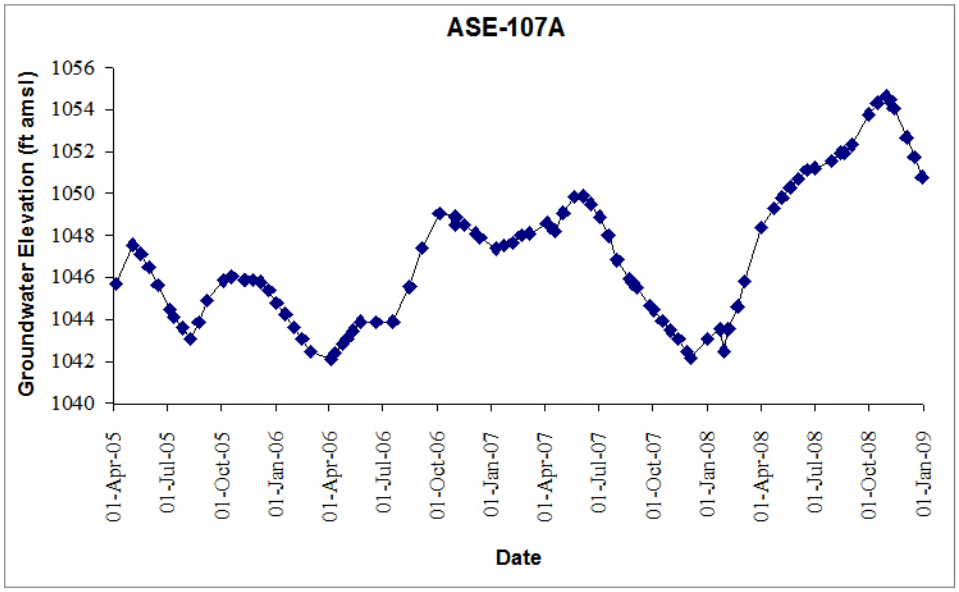
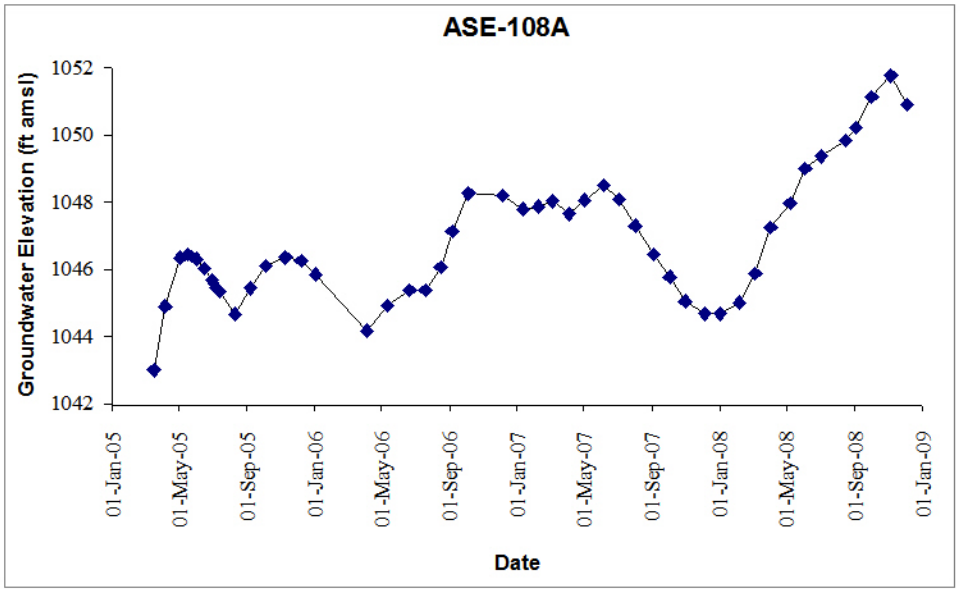
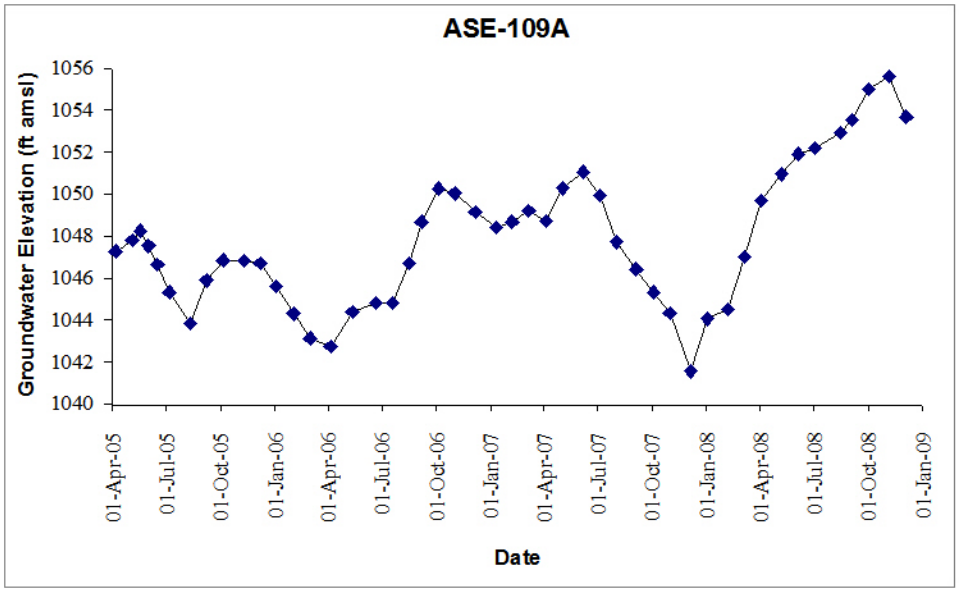
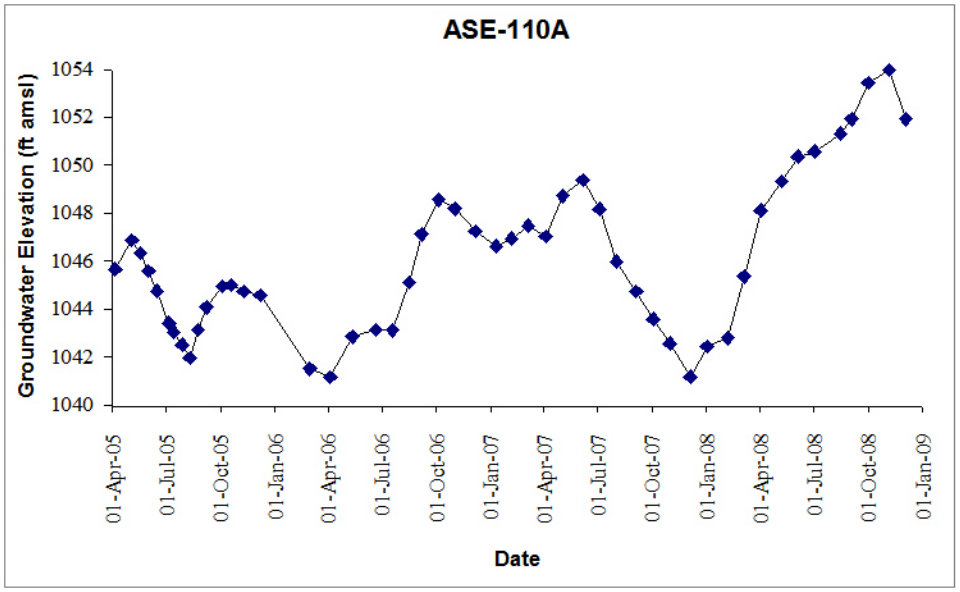
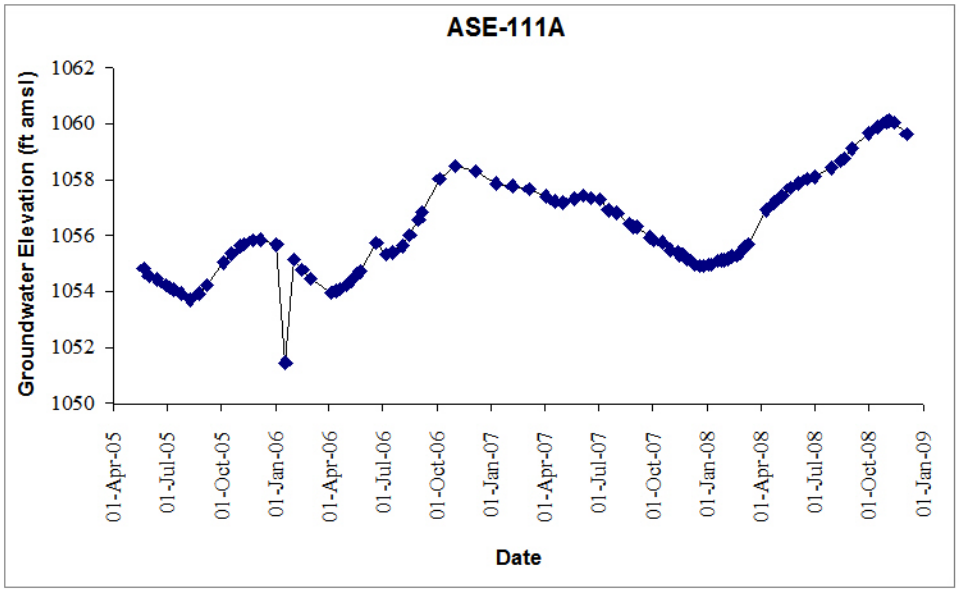


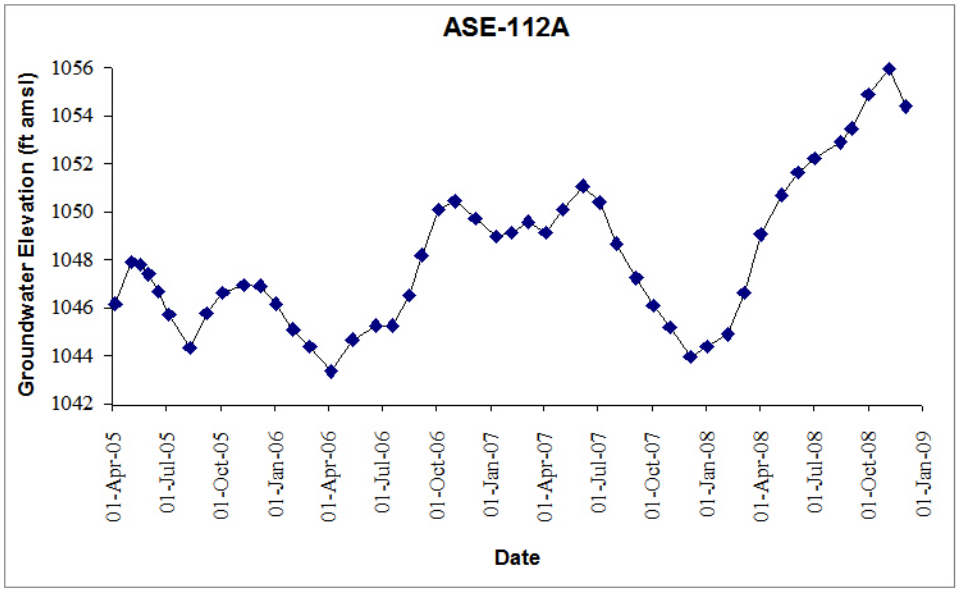


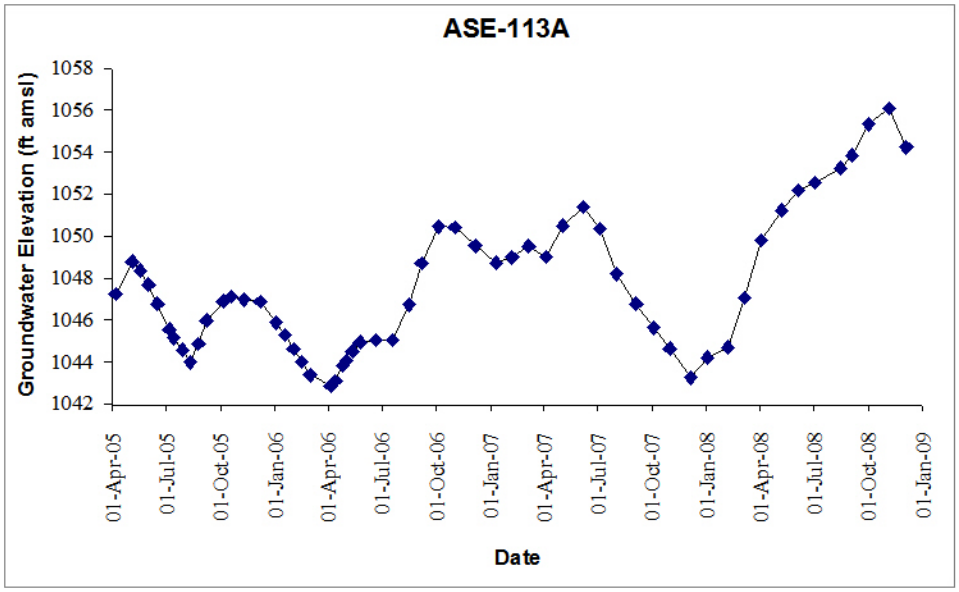


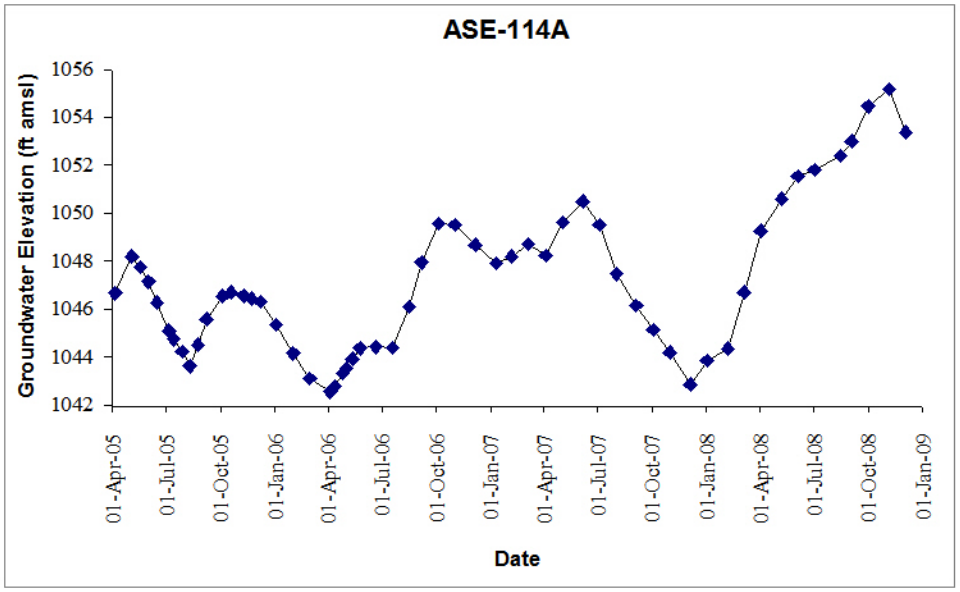


HYDROGRAPHS









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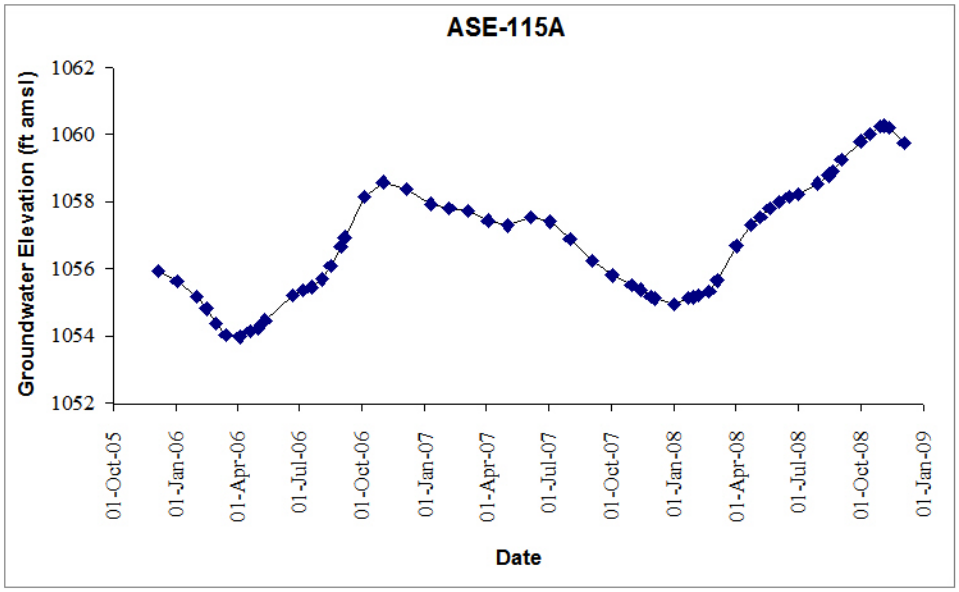

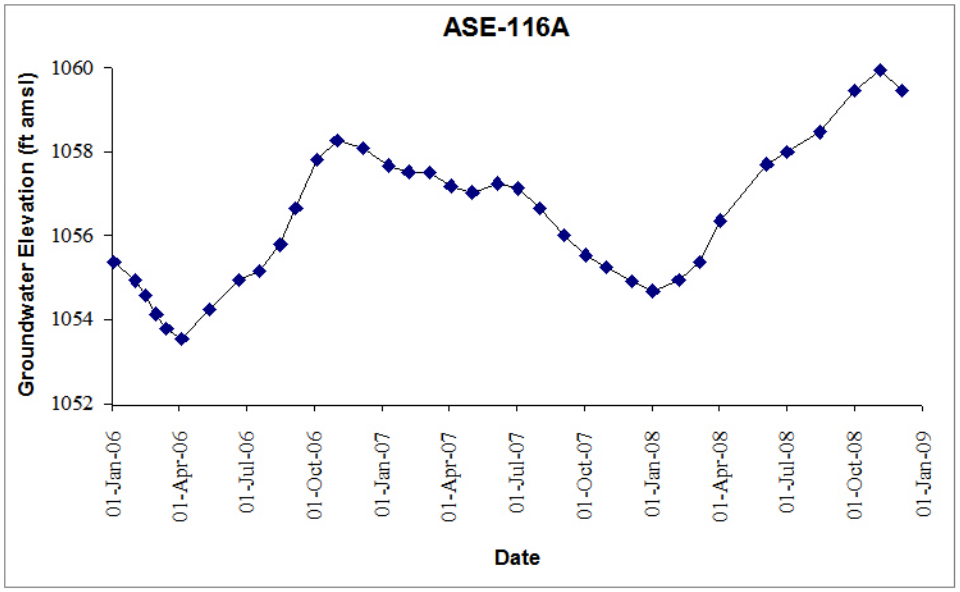

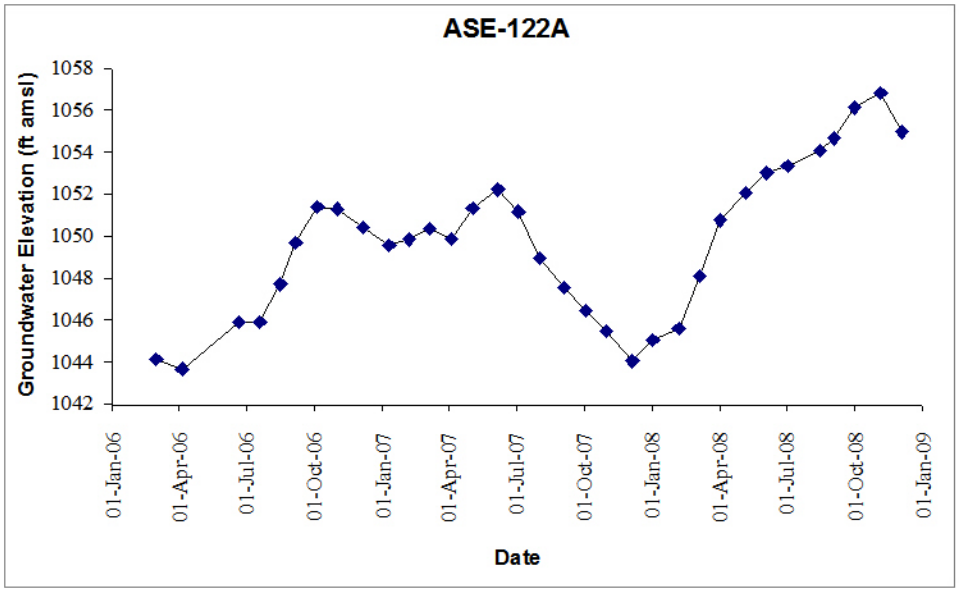

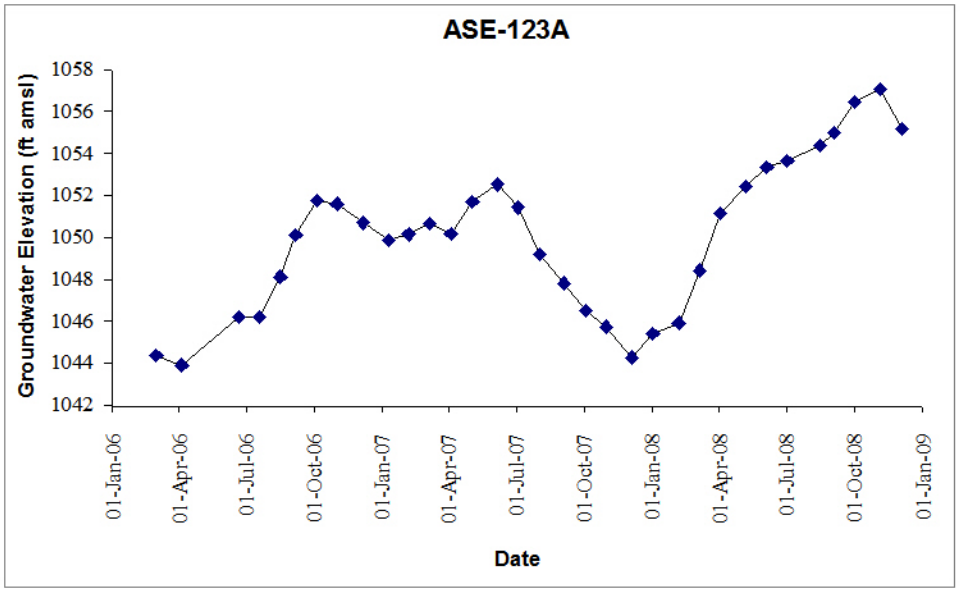

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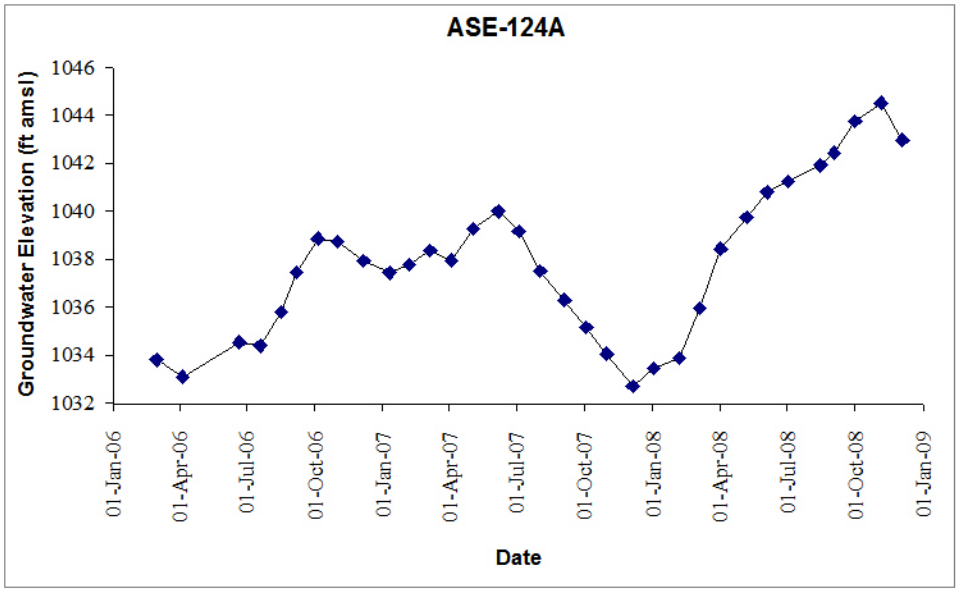

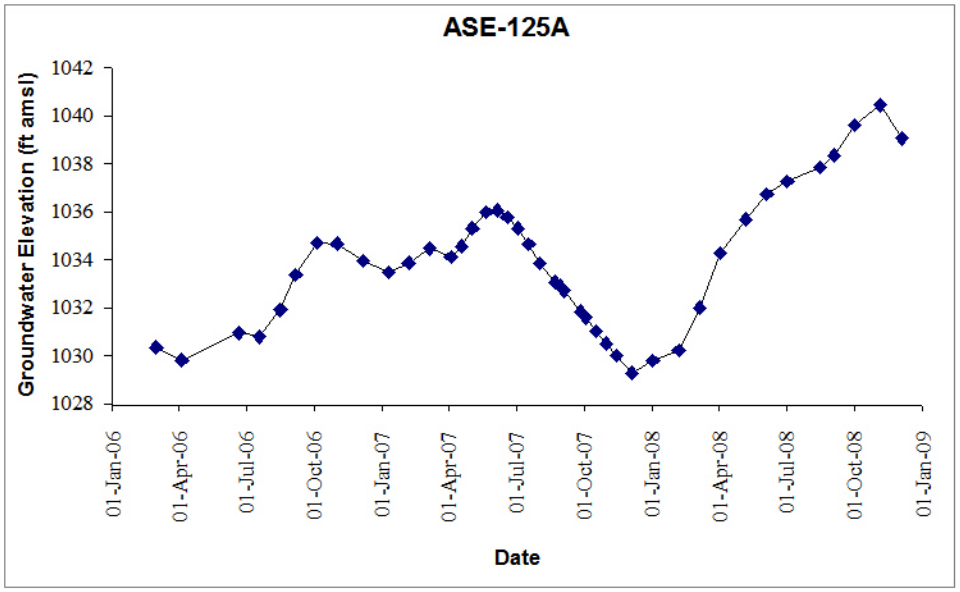

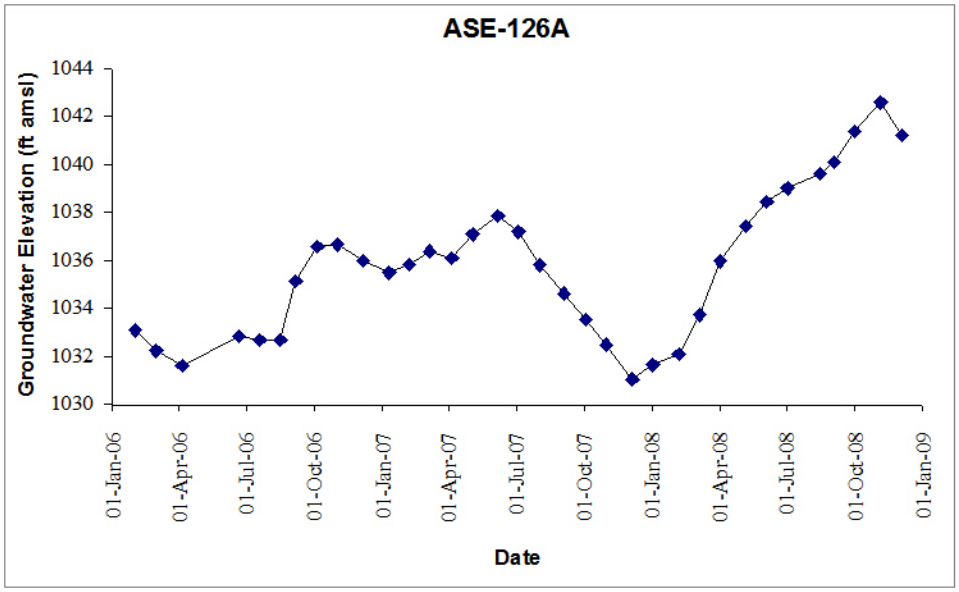

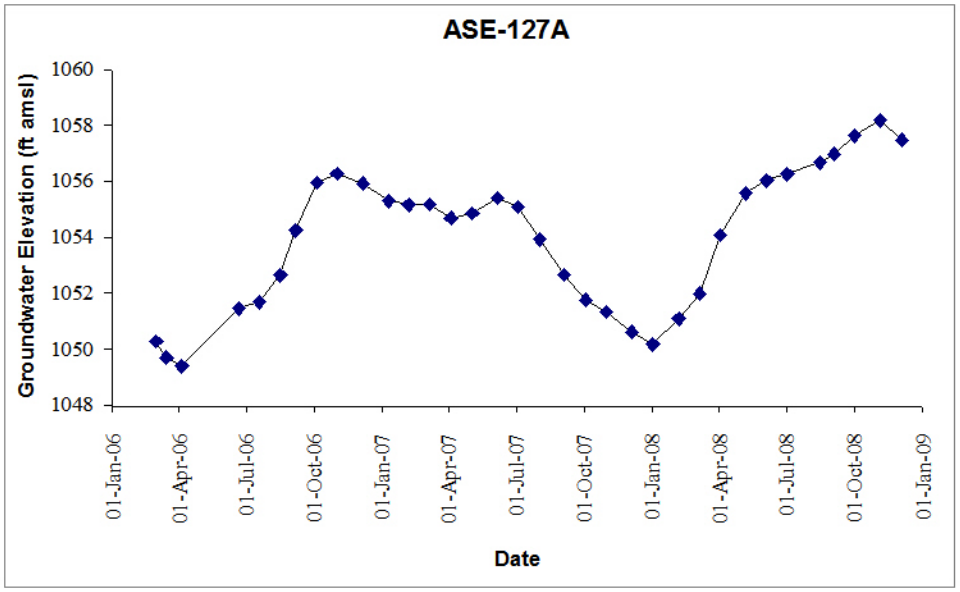

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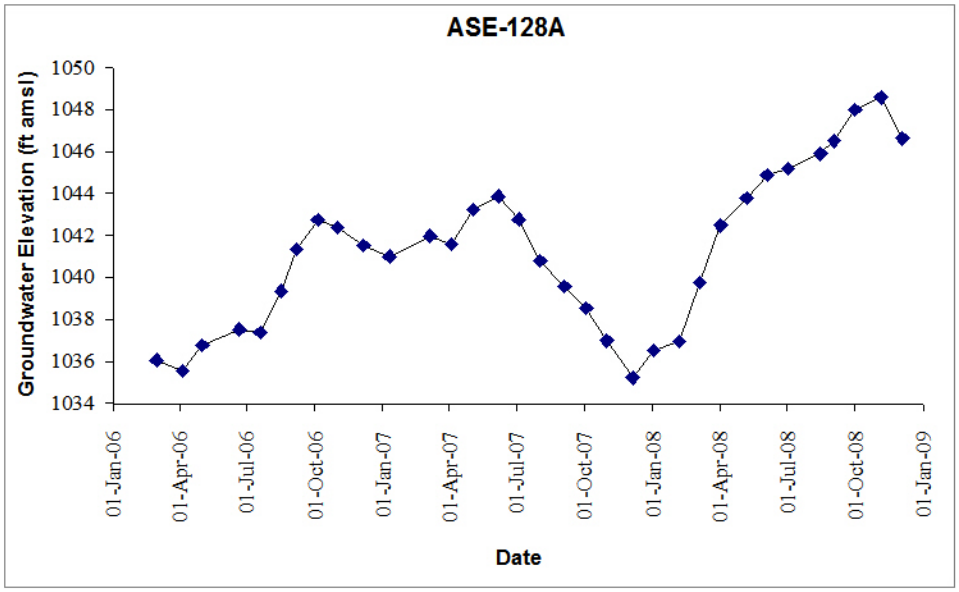

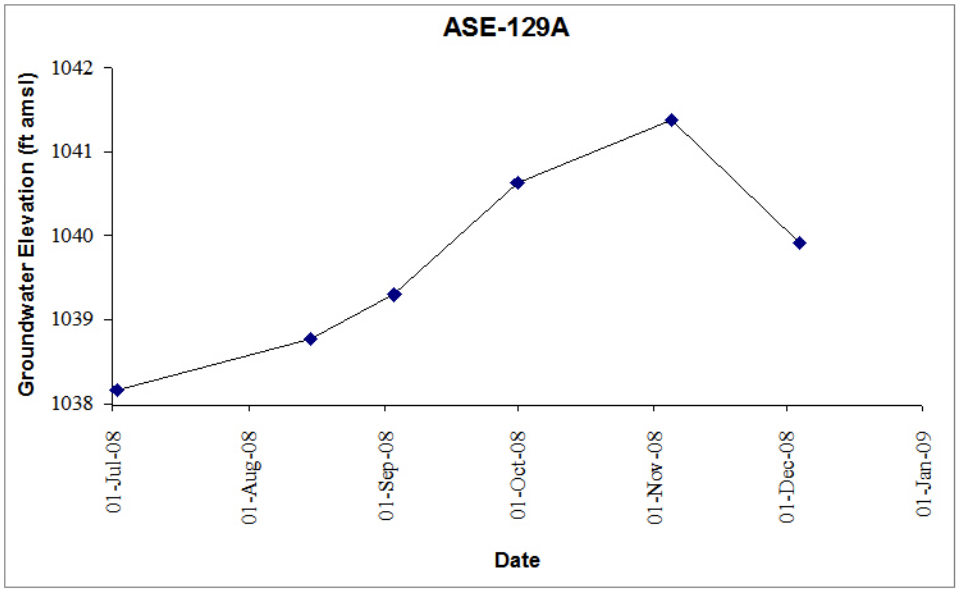

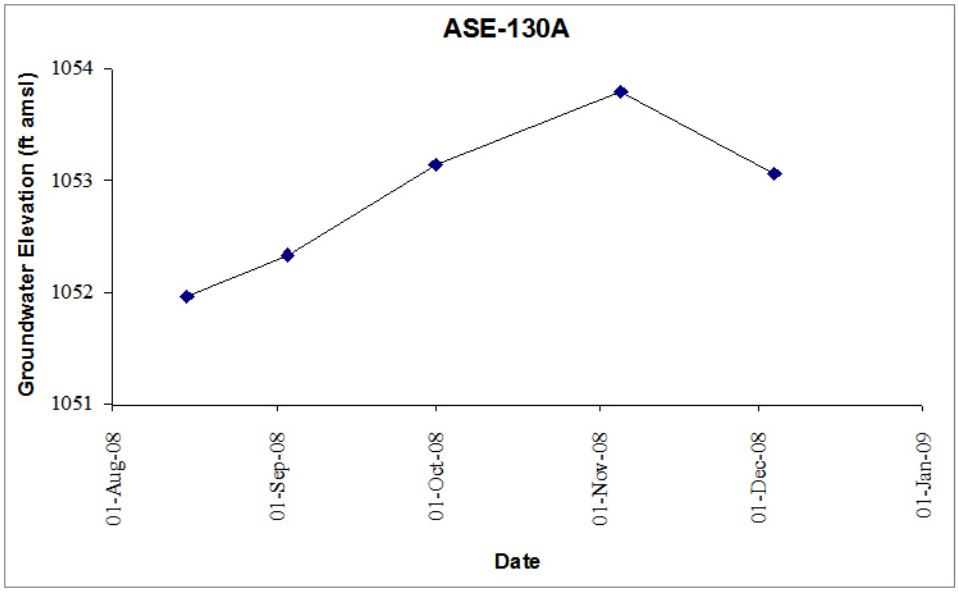

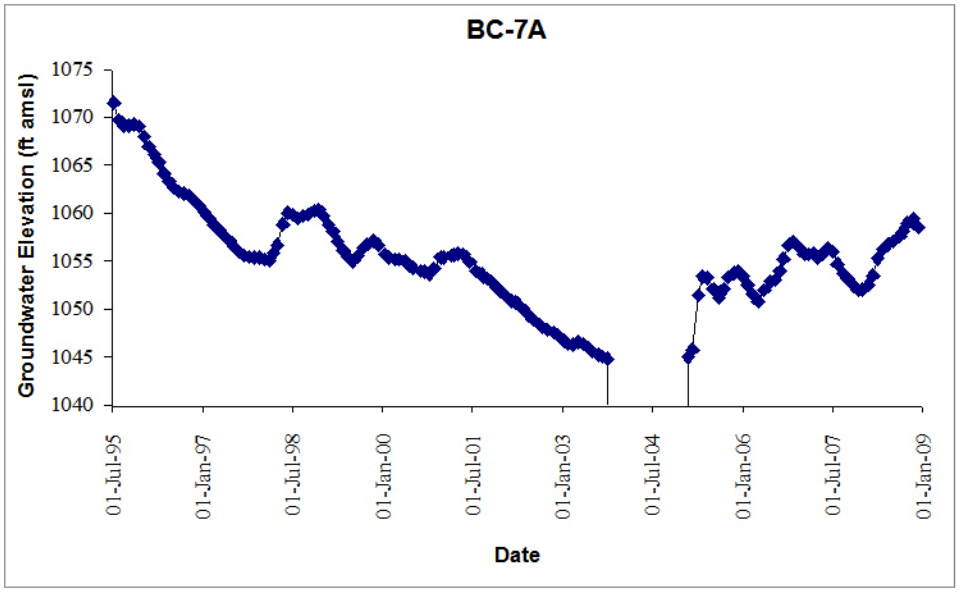

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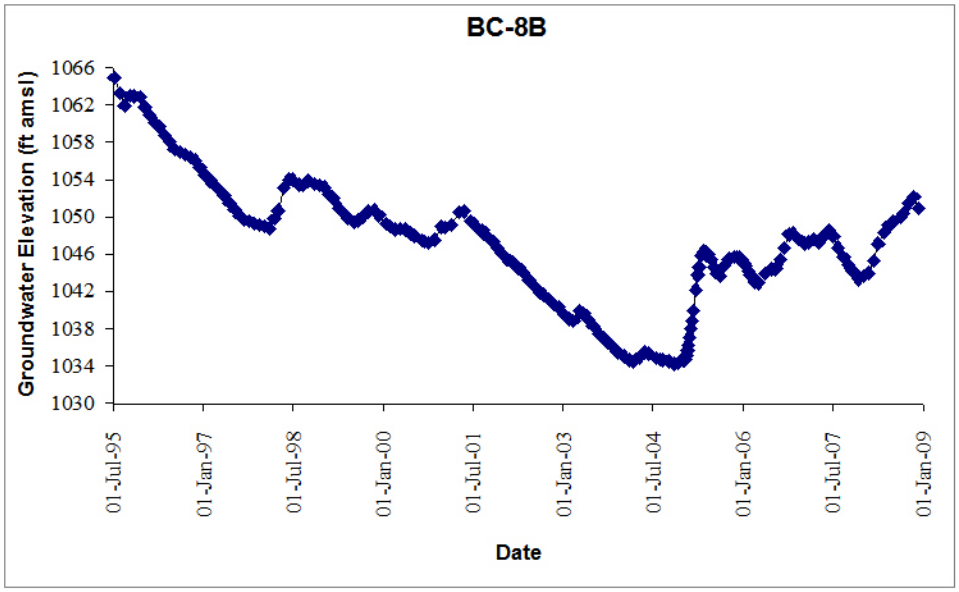

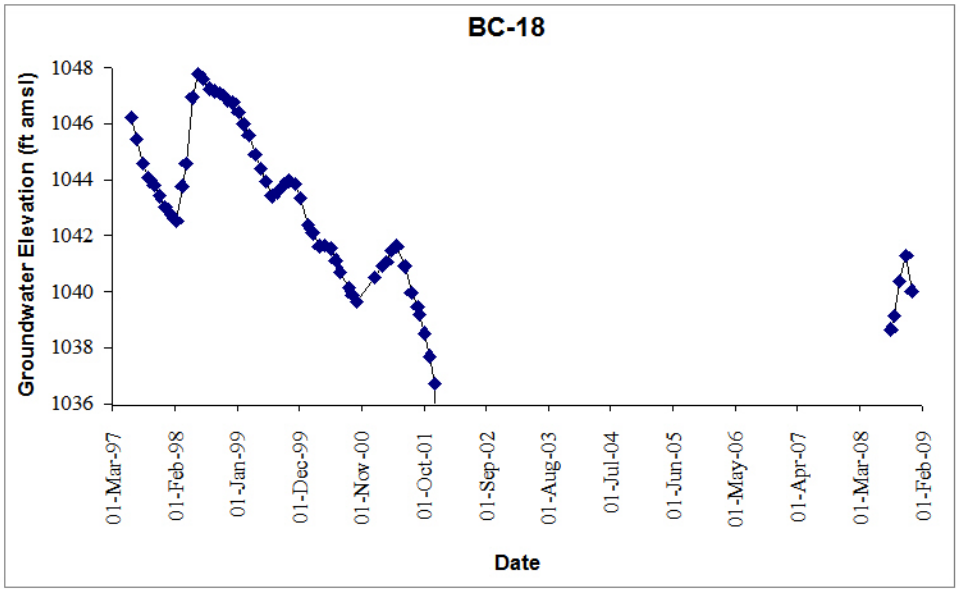

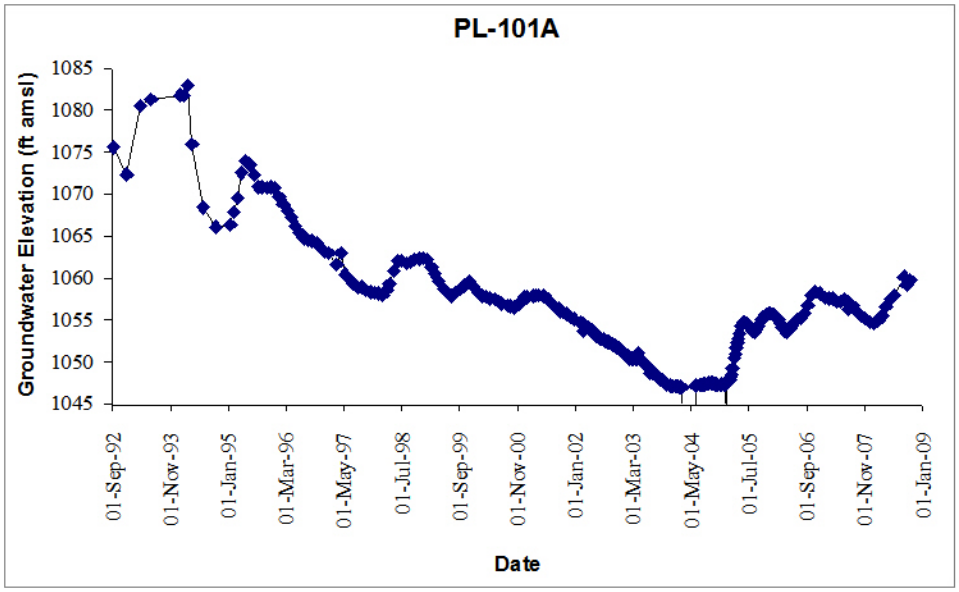

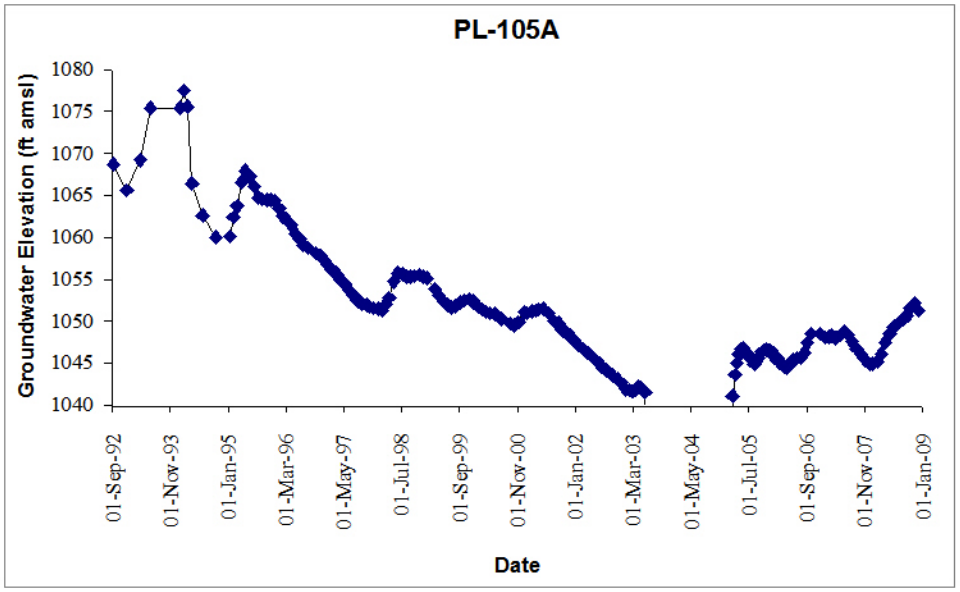

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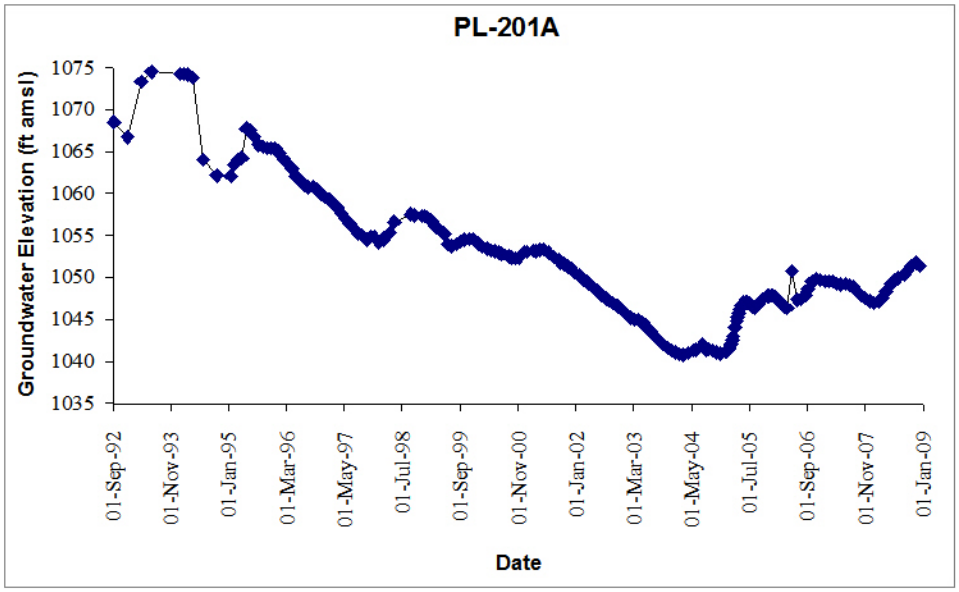

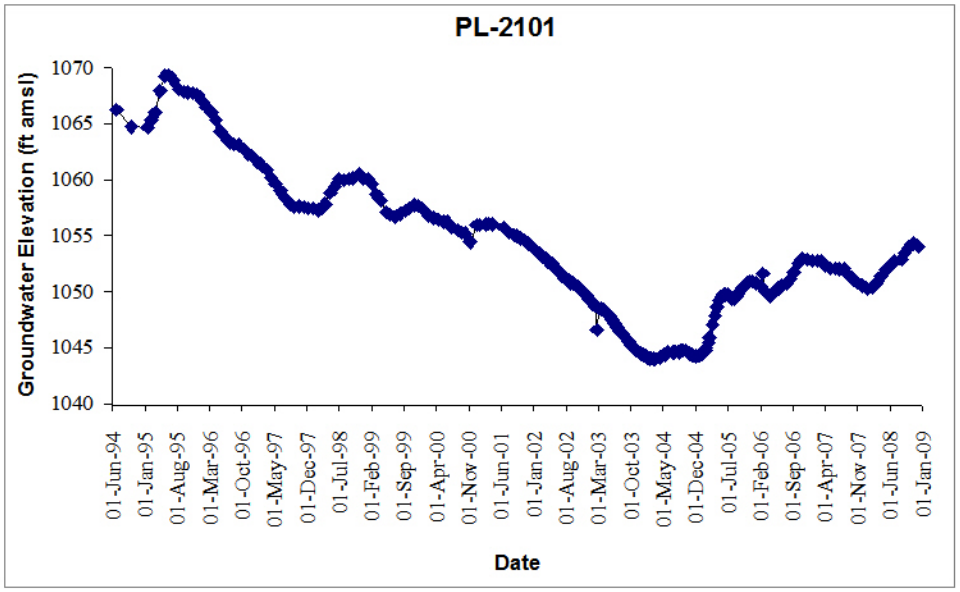

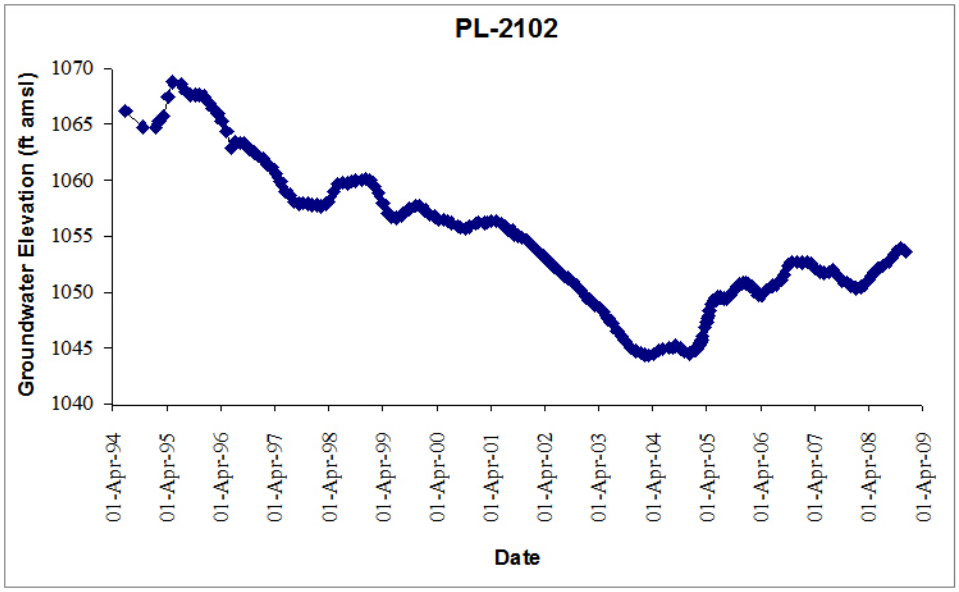

Appendix B
Data Validation and Groundwater Laboratory Analytical Reports

APPENDIX B

Data Quality Evaluation Report – Fourth Quarter 2008 Underground Storage Tank Groundwater Monitoring

Introduction

The objective of this data quality evaluation (DQE) report is to assess the data quality of analytical results for water samples collected during the fourth quarter 2008 monitoring period at the Honeywell 34th Street facility (Honeywell facility). Samples were collected and analyzed in an effort to continue providing a framework for long-term monitoring of the Honeywell facility. The data may also be used to support future activities such as feasibility studies, risk assessments, fate and transport modeling and remedial actions. The basis for this assessment includes: individual method requirements, guidelines from the United States Environmental Protection Agency (USEPA) *Contract Laboratory National Functional Guidelines for Organic Data Review* (USEPA, 1999), and the *Honeywell International Inc., Sky Harbor 34th Street Facility Quality Assurance Project Plan* (QAPP) (CH2M HILL, 2005 and Honeywell, 2006). This DQE report is intended as a general data quality assessment designed to summarize data issues.

Honeywell submitted to the Arizona Department of Environmental Quality (ADEQ) an updated QAPP entitled *Master Quality Assurance Project Plan, Honeywell International, Inc., 34th Street Facility, Phoenix, Arizona* on September 20, 2007 (CH2M HILL, 2007). Honeywell is currently awaiting ADEQ's approval of this document.

Analytical Data

This DQE report covers 47 normal samples (REG), 7 field duplicates, 8 equipment blanks, and 8 trip blanks. A list of samples and collection dates is included in Attachment 1 at the end of this report. Samples were collected between October 15, 2008 and December 16, 2008. These sample results were reported as eight sample delivery groups (SDG) listed in Table 1. The analyses were performed by Curtis & Tompkins Laboratory in Berkeley, California.

Table 1 – SDGs
206926
208575
280576
208578
208592
208749
208750
208752

Three methods were used to analyze the environmental samples. Samples were collected and shipped by overnight carrier to the laboratory for analysis. Selected samples were analyzed for one or more of the following analytes/methods:

Table 2 – Analytical Parameters	
Parameter	**Method**
Volatile Organic Compounds	SW8260
Polynuclear Aromatic Hydrocarbons	SW8270-SIM
Total Petroleum Hydrocarbons (TPH) (diesel and motor oil)	SW8015

Data validation was performed in accordance with the *Contract Laboratory National Functional Guidelines for Organic Data Review* (USEPA, 1999), substituting the calibration and quality control requirements specified in the Honeywell QAPP (CH2M HILL, 2005 and Honeywell, 2006) for those specified in the National Functional Guidelines.

The assessment of data includes a review of: (1) the chain-of-custody documentation; (2) holding-time compliance; (3) the required field and laboratory quality control samples; (4) flagging for method blanks; (5) laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recoveries; (6) surrogate spike recoveries for organic analyses; and, (7) matrix spike/matrix spike duplicate samples (MS/MSD).

Field samples were also reviewed to ascertain field compliance and data quality issues. This included a review of field duplicates, equipment blanks, and trip blanks.

Data flags are assigned according to the Honeywell QAPP (CH2M HILL, 2005 and Honeywell, 2006). These flags, as well as the reason for each flag, are entered into the electronic database. Multiple flags are routinely applied to specific sample method/matrix/analyte combinations, but there will be only one final flag. A final flag is applied to the data and is the most conservative of the applied validation flags. The final flag also includes matrix and blank sample impacts.

The data flags are defined below:

- J = Analyte was present but reported value may not be accurate or precise.
- R = The result was rejected.
- U = Analyte was analyzed for but not detected at the specified detection limit.
- UJ = Analyte was not detected above the detection limit objective. However, the reported detection 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

Findings

The overall summaries of the data validation findings are contained in the following sections below and summarized in Table 6.

Holding Times

All holding-time criteria were met.

Sample Quantitation

Method SW8260 was reported to the reporting limit (RL) and method SW8015 was reported to the method detection limit. All Honeywell QAPP objectives were met for undiluted analyses with the exception listed in Table 3. The laboratory RL listed in Table 3 was submitted by the laboratory as a variance to the Honeywell QAPP. The variance was accepted by the CH2M HILL chemist.

Table 3 – QAPP Reporting Limit Objectives Not Met for all Samples

Method	Analyte	QAPP RL (ug/L)	Report RL (ug/L)
SW8260	Methylene Chloride	5	10

Several samples required dilution due to high analyte concentrations and matrix interference. The RLs for non-detected analytes in the diluted samples were raised accordingly. Table 4 lists the methods and samples analyzed at a dilution.

Table 4 – Samples Analyzed Diluted

Method	Sample ID	Dilution Factor
SW8260	ASE-116A-8D1	4
SW8260	ASE-38A-8D1	3.333, 14.29
SW8260	ASE-52A-8D1	3.333, 10
SW8260	ASE-63A-8D1	10, 50
SW8260	ASE-92A-8D1	4
SW8260	BC-8B-8D1	2
SW8260	PL-201A-8D1	2.5
SW8260	PL-502-8D1	2.5
SW8260	PL-514-8D1	4

Calibration

The recoveries of vinyl acetate and iodomethane were below criteria in an initial calibration verification standards (ICVS) for method SW8260, indicating associated sample results are possibly biased low. Ninety-two associated non-detected results were qualified as estimated and flagged “UJ”.

The recoveries of 10 analytes were below criteria in the continuing calibration verifications (CCV) for method SW8260, indicating associated sample results are possibly biased low. One-hundred fifty associated non-detected results were qualified as estimated and flagged “UJ”.

Method Blanks

Method blanks were analyzed at the required frequency and were generally free of contamination.

TPH Diesel (C_{10}-C_{22}) was detected below the RL in a method blank for method SW8015. Six associated samples detected less than five times the blank concentration were qualified as not detected and flagged "U".

Field Blanks

Equipment blanks and trip blanks were collected as required and were generally free of contamination.

TPH Diesel (C_{10}-C_{22}) was detected below the RL in one equipment blank for method SW8015. Six associated samples detected less than five times the blank concentration were qualified as not detected and flagged "U".

TPH Diesel (C_{10}-C_{22}) and TPH Motor Oil (C_{22}-C_{32}) were detected below the RL in additional equipment blanks for method SW8015. Associated data were not qualified because the associated sample results were not detected or were detected greater than five times the blank concentrations.

Acetone and toluene were detected above the RL in the equipment blanks for method SW8260. Associated data were not qualified because the associated sample results were not detected or were detected greater than five times the blank concentrations.

Field Duplicates

Seven field duplicate sets were collected and analyzed with this event. A list of field duplicates and associated parent sample identifications (ID) is included in Table 5.

Table 5 – List of Field Duplicates

Field Duplicate Sample ID	Associated Parent Sample ID
PL-502-8D1	PL-201A-8D1
PL-503-8D1	ASE-129A-8D1
PL-505-8D1	ASE-95A-8D1
PL-507-8D1	ASE-126A-8D1
PL-509-8D1	ASE-61A-8D1
PL-511-8D1	ASE-108A-8D1
PL-514-8D1	ASE-116A-8D1

All relative percent difference (RPD) criteria were met with one exception.

The RPD of TPH Motor Oil (C_{22}-C_{32}) was above criteria in field duplicate set PL-201A-8D1/ PL-502-8D1 for method SW8015. The associated detected results in the normal and duplicate were qualified as estimated and flagged "J".

Surrogates

All surrogates recovery criteria were met with one exception.

Surrogate recovery was above criteria in sample ASE-130A-8C2 for method SW8270-SIM, indicating associated results are possibly biased high. Five associated detected results were qualified as estimated and flagged "J".

Laboratory Control Samples

LCS/LCSDs were analyzed as required. Precision and accuracy criteria were met with one exception.

The recovery of TPH Motor Oil (C_{22}-C_{32}) was below criteria in one LCS for method SW8015, indicating associated results are possibly biased low. Two associated non-detected results were qualified as estimated and flagged "UJ".

Matrix Spikes

The results of MS/MSD analyses provide information about the possible influence of the matrix on either accuracy or precision of the measurements. MS/MSD recoveries and the associated RPD met criteria with the following exceptions:

The recoveries of styrene and vinyl acetate were below criteria in the MS and MSD of sample ASE-65A-8D1 for method SW8260, indicating the associated parent sample results are possibly biased low. Two non-detected results in the parent sample were qualified as estimated and flagged "UJ".

The recovery of propylbenzene was above criteria in the MS of sample ASE-65A-8D1 for method SW8260, indicating the associated parent sample result is possibly biased high. One detected result in the parent sample was qualified as estimated and flagged "J".

Internal Standards

All internal standard criteria were met.

Tentatively Identified Compounds

Tentatively identified compounds were not reported by the laboratory.

Chain of Custody

Each sample was documented in a completed chain-of-custody and received at the laboratory in good condition.

Overall Assessment

The goal of this assessment is to demonstrate that a sufficient number of representative samples were collected and the resulting analytical data can be used to support the decision-making process. The procedures for assessing the precision, accuracy, representativeness, completeness, and comparability parameters were based on the Honeywell QAPP. The following summary highlights the precision, accuracy, representativeness, completeness, and comparability findings for the above-defined events:

1. No data were rejected and completeness was 100 percent for all method/analyte combinations.
2. Approximately 10 percent of the method SW8015 data were qualified due to low-level method or field blank contamination. The degree to which blank contamination was observed is within reasonable method expectations considering the small size of the dataset.
3. Samples were analyzed diluted for method SW8260 resulting in raised RLs for non-detected analytes.
4. ICVS and CCV recovery exceedances were observed for method SW8260.
5. A field duplicate RPD exceedance was observed for method SW8015.
6. A LCS recovery exceedance was observed for method SW8015.
7. A surrogate recovery exceedance was observed for method SW8270-SIM.
8. MS/MSD recovery exceedances were observed in one sample for method SW8260.
9. Overall, the precision and accuracy of the data, as measured by field and laboratory quality control indicators, suggest that the project goals have been met.

References

CH2M HILL. 2005. *Honeywell International Inc., Sky Harbor 34th Street Facility, 111 South 34th Street, Phoenix, Arizona; Quality Assurance Project Plan.* September.

_____. 2007. *Master Quality Assurance Project Plan, Honeywell International, Inc., 34th* Street Facility, Phoenix, Arizona. September 20.

Honeywell International, Inc. 2006. *Response to Comments on the Quality Assurance Project Plan dated September 2005; Honeywell International Inc. Sky Harbor 34th Street Facility*. July 13.

United States Environmental Protection Agency (USEPA). 1999. *Contract Laboratory National Functional Guidelines for Organic Data Review.* October.

Table 6 – Validation Findings

Method	NativeID	Analyte	Final Result	Units	Final Flag	Validation Reason
SW8015	ASE-100A-8D1	Diesel C10-C22	16	ug/l	U	LBL
SW8015	ASE-124A-8D1	Diesel C10-C22	20	ug/l	U	LBL
SW8015	ASE-127A-8D1	Diesel C10-C22	23	ug/l	U	EBL
SW8015	ASE-129A-8C2	Motor Oil C22-C32	300	ug/l	UJ	LCSL
SW8015	ASE-130A-8C2	Motor Oil C22-C32	300	ug/l	UJ	LCSL
SW8015	ASE-54A-8D1	Diesel C10-C22	18	ug/l	U	LBL
SW8015	ASE-58A-8D1	Diesel C10-C22	80	ug/l	U	LBL
SW8015	ASE-60A-8D1	Diesel C10-C22	35	ug/l	U	EBL
SW8015	ASE-61A-8D1	Diesel C10-C22	36	ug/l	U	EBL
SW8015	ASE-62A-8D1	Diesel C10-C22	62	ug/l	U	EBL
SW8015	ASE-65A-8D1	Diesel C10-C22	35	ug/l	U	EBL
SW8015	PL-201A-8D1	Motor Oil C22-C32	1700	ug/l	J	FD
SW8015	PL-2101-8D1	Diesel C10-C22	48	ug/l	U	LBL
SW8015	PL-2102-8D1	Diesel C10-C22	18	ug/l	U	LBL
SW8015	PL-502-8D1	Motor Oil C22-C32	1200	ug/l	J	FD
SW8015	PL-509-8D1	Diesel C10-C22	40	ug/l	U	EBL
SW8260	ASE-100A-8D1	Chloromethane	1	ug/l	UJ	CCVL
SW8260	ASE-100A-8D1	Freon 12	1	ug/l	UJ	CCVL
SW8260	ASE-100A-8D1	Iodomethane	10	ug/l	UJ	ICVSL
SW8260	ASE-100A-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL CCVL
SW8260	ASE-101A-8D1	Chloromethane	1	ug/l	UJ	CCVL
SW8260	ASE-101A-8D1	Freon 12	1	ug/l	UJ	CCVL
SW8260	ASE-101A-8D1	Iodomethane	10	ug/l	UJ	ICVSL
SW8260	ASE-101A-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL CCVL
SW8260	ASE-103A-8D1	Chloromethane	1	ug/l	UJ	CCVL
SW8260	ASE-103A-8D1	Freon 12	1	ug/l	UJ	CCVL
SW8260	ASE-103A-8D1	Iodomethane	10	ug/l	UJ	ICVSL
SW8260	ASE-103A-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL CCVL
SW8260	ASE-105-8D1	2-Butanone	10	ug/l	UJ	CCVL
SW8260	ASE-105-8D1	Acetone	10	ug/l	UJ	CCVL
SW8260	ASE-105-8D1	Chloromethane	1	ug/l	UJ	CCVL
SW8260	ASE-105-8D1	Freon 12	1	ug/l	UJ	CCVL
SW8260	ASE-105-8D1	Iodomethane	10	ug/l	UJ	ICVSL
SW8260	ASE-105-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL
SW8260	ASE-106A-8D1	Chloromethane	1	ug/l	UJ	CCVL
SW8260	ASE-106A-8D1	Freon 12	1	ug/l	UJ	CCVL
SW8260	ASE-106A-8D1	Iodomethane	10	ug/l	UJ	ICVSL
SW8260	ASE-106A-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL CCVL
SW8260	ASE-108A-8D1	Freon 12	1	ug/l	UJ	CCVL
SW8260	ASE-108A-8D1	Iodomethane	10	ug/l	UJ	ICVSL
SW8260	ASE-108A-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL CCVL
SW8260	ASE-109A-8D1	Chloromethane	1	ug/l	UJ	CCVL
SW8260	ASE-109A-8D1	Freon 12	1	ug/l	UJ	CCVL
SW8260	ASE-109A-8D1	Iodomethane	10	ug/l	UJ	ICVSL
SW8260	ASE-109A-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL CCVL

Method	NativeID	Analyte	Final Result	Units	Final Flag	Validation Reason
SW8260	ASE-110A-8D1	Chloromethane	1	ug/l	UJ	CCVL
SW8260	ASE-110A-8D1	Freon 12	1	ug/l	UJ	CCVL
SW8260	ASE-110A-8D1	Iodomethane	10	ug/l	UJ	ICVSL
SW8260	ASE-110A-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL CCVL
SW8260	ASE-112A-8D1	2-Butanone	10	ug/l	UJ	CCVL
SW8260	ASE-112A-8D1	Acetone	10	ug/l	UJ	CCVL
SW8260	ASE-112A-8D1	Chloromethane	1	ug/l	UJ	CCVL
SW8260	ASE-112A-8D1	Freon 12	1	ug/l	UJ	CCVL
SW8260	ASE-112A-8D1	Iodomethane	10	ug/l	UJ	ICVSL
SW8260	ASE-112A-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL
SW8260	ASE-113A-8D1	Iodomethane	10	ug/l	UJ	ICVSL
SW8260	ASE-113A-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL CCVL
SW8260	ASE-116A-8D1	Chloromethane	1	ug/l	UJ	CCVL
SW8260	ASE-116A-8D1	Freon 12	1	ug/l	UJ	CCVL
SW8260	ASE-116A-8D1	Iodomethane	10	ug/l	UJ	ICVSL
SW8260	ASE-116A-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL CCVL
SW8260	ASE-122A-8D1	Iodomethane	10	ug/l	UJ	ICVSL
SW8260	ASE-122A-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL CCVL
SW8260	ASE-123A-8D1	Chloromethane	1	ug/l	UJ	CCVL
SW8260	ASE-123A-8D1	Freon 12	1	ug/l	UJ	CCVL
SW8260	ASE-123A-8D1	Iodomethane	10	ug/l	UJ	ICVSL
SW8260	ASE-123A-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL CCVL
SW8260	ASE-124A-8D1	Chloromethane	1	ug/l	UJ	CCVL
SW8260	ASE-124A-8D1	Freon 12	1	ug/l	UJ	CCVL
SW8260	ASE-124A-8D1	Iodomethane	10	ug/l	UJ	ICVSL
SW8260	ASE-124A-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL CCVL
SW8260	ASE-125A-8D1	Iodomethane	10	ug/l	UJ	ICVSL
SW8260	ASE-125A-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL CCVL
SW8260	ASE-126A-8D1	2-Butanone	10	ug/l	UJ	CCVL
SW8260	ASE-126A-8D1	Acetone	10	ug/l	UJ	CCVL
SW8260	ASE-126A-8D1	Chloromethane	1	ug/l	UJ	CCVL
SW8260	ASE-126A-8D1	Freon 12	1	ug/l	UJ	CCVL
SW8260	ASE-126A-8D1	Iodomethane	10	ug/l	UJ	ICVSL
SW8260	ASE-126A-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL
SW8260	ASE-127A-8D1	Bromomethane	1	ug/l	UJ	CCVL
SW8260	ASE-127A-8D1	Iodomethane	10	ug/l	UJ	ICVSL
SW8260	ASE-127A-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL
SW8260	ASE-128A-8D1	Iodomethane	10	ug/l	UJ	ICVSL
SW8260	ASE-128A-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL CCVL
SW8260	ASE-129A-8D1	Chloromethane	1	ug/l	UJ	CCVL
SW8260	ASE-129A-8D1	Freon 12	1	ug/l	UJ	CCVL
SW8260	ASE-129A-8D1	Iodomethane	10	ug/l	UJ	ICVSL
SW8260	ASE-129A-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL CCVL
SW8260	ASE-129A-8C2	Acetone	10	ug/l	UJ	CCVL
SW8260	ASE-129A-8C2	Carbon Disulfide	0.5	ug/l	UJ	CCVL
SW8260	ASE-129A-8C2	Freon 12	1	ug/l	UJ	CCVL

Method	NativeID	Analyte	Final Result	Units	Final Flag	Validation Reason
SW8260	ASE-129A-8C2	Iodomethane	10	ug/l	UJ	CCVL
SW8260	ASE-129A-8C2	Trichlorofluoromethane	1	ug/l	UJ	CCVL
SW8260	ASE-130A-8C2	Acetone	10	ug/l	UJ	CCVL
SW8260	ASE-130A-8C2	Carbon Disulfide	0.5	ug/l	UJ	CCVL
SW8260	ASE-130A-8C2	Freon 12	1	ug/l	UJ	CCVL
SW8260	ASE-130A-8C2	Iodomethane	10	ug/l	UJ	CCVL
SW8260	ASE-130A-8C2	Trichlorofluoromethane	1	ug/l	UJ	CCVL
SW8260	ASE-28A-8D1	2-Hexanone	10	ug/l	UJ	CCVL
SW8260	ASE-28A-8D1	Chloromethane	1	ug/l	UJ	CCVL
SW8260	ASE-28A-8D1	Freon 12	1	ug/l	UJ	CCVL
SW8260	ASE-28A-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL CCVL
SW8260	ASE-37A-8D1	Chloromethane	1	ug/l	UJ	CCVL
SW8260	ASE-37A-8D1	Freon 12	1	ug/l	UJ	CCVL
SW8260	ASE-37A-8D1	Iodomethane	10	ug/l	UJ	ICVSL
SW8260	ASE-37A-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL CCVL
SW8260	ASE-38A-8D1	Chloromethane	3.3	ug/l	UJ	CCVL
SW8260	ASE-38A-8D1	Freon 12	3.3	ug/l	UJ	CCVL
SW8260	ASE-38A-8D1	Iodomethane	33	ug/l	UJ	ICVSL
SW8260	ASE-38A-8D1	Vinyl Acetate	33	ug/l	UJ	ICVSL CCVL
SW8260	ASE-52A-8D1	Freon 12	3.3	ug/l	UJ	CCVL
SW8260	ASE-52A-8D1	Iodomethane	33	ug/l	UJ	ICVSL
SW8260	ASE-52A-8D1	Vinyl Acetate	33	ug/l	UJ	ICVSL CCVL
SW8260	ASE-54A-8D1	2-Hexanone	10	ug/l	UJ	CCVL
SW8260	ASE-54A-8D1	Freon 12	1	ug/l	UJ	CCVL
SW8260	ASE-54A-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL CCVL
SW8260	ASE-55A-8D1	Freon 12	1	ug/l	UJ	CCVL
SW8260	ASE-55A-8D1	Iodomethane	10	ug/l	UJ	ICVSL
SW8260	ASE-55A-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL CCVL
SW8260	ASE-58A-8D1	2-Hexanone	10	ug/l	UJ	CCVL
SW8260	ASE-58A-8D1	Freon 12	1	ug/l	UJ	CCVL
SW8260	ASE-58A-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL CCVL
SW8260	ASE-60A-8D1	Freon 12	1	ug/l	UJ	CCVL
SW8260	ASE-60A-8D1	Iodomethane	10	ug/l	UJ	ICVSL
SW8260	ASE-60A-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL CCVL
SW8260	ASE-61A-8D1	Freon 12	1	ug/l	UJ	CCVL
SW8260	ASE-61A-8D1	Iodomethane	10	ug/l	UJ	ICVSL
SW8260	ASE-61A-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL CCVL
SW8260	ASE-62A-8D1	Freon 12	1	ug/l	UJ	CCVL
SW8260	ASE-62A-8D1	Iodomethane	10	ug/l	UJ	ICVSL
SW8260	ASE-62A-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL CCVL
SW8260	ASE-63A-8D1	Chloromethane	10	ug/l	UJ	CCVL
SW8260	ASE-63A-8D1	Freon 12	10	ug/l	UJ	CCVL
SW8260	ASE-63A-8D1	Iodomethane	100	ug/l	UJ	ICVSL
SW8260	ASE-63A-8D1	Vinyl Acetate	100	ug/l	UJ	ICVSL CCVL
SW8260	ASE-65A-8D1	Iodomethane	10	ug/l	UJ	ICVSL
SW8260	ASE-65A-8D1	Propylbenzene	0.9	ug/l	J	MSH

Method	NativeID	Analyte	Final Result	Units	Final Flag	Validation Reason
SW8260	ASE-65A-8D1	Styrene	0.5	ug/l	UJ	MSL MSDL
SW8260	ASE-65A-8D1	Vinyl Acetate	10	ug/l	UJ	MSL MSDL ICVSL CCVL
SW8260	ASE-68A-8D1	Freon 12	1	ug/l	UJ	CCVL
SW8260	ASE-68A-8D1	Iodomethane	10	ug/l	UJ	ICVSL
SW8260	ASE-68A-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL CCVL
SW8260	ASE-92A-8D1	Freon 12	1	ug/l	UJ	CCVL
SW8260	ASE-92A-8D1	Vinyl Acetate	10	ug/l	UJ	CCVL
SW8260	ASE-95A-8D1	2-Hexanone	10	ug/l	UJ	CCVL
SW8260	ASE-95A-8D1	Iodomethane	10	ug/l	UJ	CCVL
SW8260	ASE-95A-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL CCVL
SW8260	ASE-96A-8D1	2-Hexanone	10	ug/l	UJ	CCVL
SW8260	ASE-96A-8D1	Iodomethane	10	ug/l	UJ	CCVL
SW8260	ASE-96A-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL CCVL
SW8260	ASE-97A-8D1	2-Butanone	10	ug/l	UJ	CCVL
SW8260	ASE-97A-8D1	Acetone	10	ug/l	UJ	CCVL
SW8260	ASE-97A-8D1	Chloromethane	1	ug/l	UJ	CCVL
SW8260	ASE-97A-8D1	Freon 12	1	ug/l	UJ	CCVL
SW8260	ASE-97A-8D1	Iodomethane	10	ug/l	UJ	ICVSL
SW8260	ASE-97A-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL
SW8260	ASE-98A-8D1	Iodomethane	10	ug/l	UJ	ICVSL
SW8260	ASE-98A-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL CCVL
SW8260	ASE-99A-8D1	2-Butanone	10	ug/l	UJ	CCVL
SW8260	ASE-99A-8D1	Acetone	10	ug/l	UJ	CCVL
SW8260	ASE-99A-8D1	Chloromethane	1	ug/l	UJ	CCVL
SW8260	ASE-99A-8D1	Freon 12	1	ug/l	UJ	CCVL
SW8260	ASE-99A-8D1	Iodomethane	10	ug/l	UJ	ICVSL
SW8260	ASE-99A-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL
SW8260	BC-18-8D1	2-Butanone	10	ug/l	UJ	CCVL
SW8260	BC-18-8D1	Acetone	10	ug/l	UJ	CCVL
SW8260	BC-18-8D1	Chloromethane	1	ug/l	UJ	CCVL
SW8260	BC-18-8D1	Freon 12	1	ug/l	UJ	CCVL
SW8260	BC-18-8D1	Iodomethane	10	ug/l	UJ	ICVSL
SW8260	BC-18-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL
SW8260	BC-7A-8D1	Chloromethane	1	ug/l	UJ	CCVL
SW8260	BC-7A-8D1	Freon 12	1	ug/l	UJ	CCVL
SW8260	BC-7A-8D1	Iodomethane	10	ug/l	UJ	ICVSL
SW8260	BC-7A-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL CCVL
SW8260	BC-8B-8D1	2-Butanone	10	ug/l	UJ	CCVL
SW8260	BC-8B-8D1	Acetone	10	ug/l	UJ	CCVL
SW8260	BC-8B-8D1	Chloromethane	1	ug/l	UJ	CCVL
SW8260	BC-8B-8D1	Freon 12	1	ug/l	UJ	CCVL
SW8260	BC-8B-8D1	Iodomethane	10	ug/l	UJ	ICVSL
SW8260	BC-8B-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL
SW8260	PL-105A-8D1	Freon 12	1	ug/l	UJ	CCVL
SW8260	PL-105A-8D1	Iodomethane	10	ug/l	UJ	ICVSL

Method	NativeID	Analyte	Final Result	Units	Final Flag	Validation Reason
SW8260	PL-105A-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL CCVL
SW8260	PL-201A-8D1	2-Hexanone	10	ug/l	UJ	CCVL
SW8260	PL-201A-8D1	Freon 12	1	ug/l	UJ	CCVL
SW8260	PL-201A-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL CCVL
SW8260	PL-2101-8D1	2-Hexanone	10	ug/l	UJ	CCVL
SW8260	PL-2101-8D1	Freon 12	1	ug/l	UJ	CCVL
SW8260	PL-2101-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL CCVL
SW8260	PL-2102-8D1	2-Hexanone	10	ug/l	UJ	CCVL
SW8260	PL-2102-8D1	Freon 12	1	ug/l	UJ	CCVL
SW8260	PL-2102-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL CCVL
SW8260	PL-502-8D1	2-Hexanone	10	ug/l	UJ	CCVL
SW8260	PL-502-8D1	Freon 12	1	ug/l	UJ	CCVL
SW8260	PL-502-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL CCVL
SW8260	PL-503-8D1	Chloromethane	1	ug/l	UJ	CCVL
SW8260	PL-503-8D1	Freon 12	1	ug/l	UJ	CCVL
SW8260	PL-503-8D1	Iodomethane	10	ug/l	UJ	ICVSL
SW8260	PL-503-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL CCVL
SW8260	PL-505-8D1	2-Hexanone	10	ug/l	UJ	CCVL
SW8260	PL-505-8D1	Iodomethane	10	ug/l	UJ	CCVL
SW8260	PL-505-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL CCVL
SW8260	PL-507-8D1	2-Butanone	10	ug/l	UJ	CCVL
SW8260	PL-507-8D1	Acetone	10	ug/l	UJ	CCVL
SW8260	PL-507-8D1	Chloromethane	1	ug/l	UJ	CCVL
SW8260	PL-507-8D1	Freon 12	1	ug/l	UJ	CCVL
SW8260	PL-507-8D1	Iodomethane	10	ug/l	UJ	ICVSL
SW8260	PL-507-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL
SW8260	PL-509-8D1	Freon 12	1	ug/l	UJ	CCVL
SW8260	PL-509-8D1	Iodomethane	10	ug/l	UJ	ICVSL
SW8260	PL-509-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL CCVL
SW8260	PL-511-8D1	Freon 12	1	ug/l	UJ	CCVL
SW8260	PL-511-8D1	Iodomethane	10	ug/l	UJ	ICVSL
SW8260	PL-511-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL CCVL
SW8260	PL-514-8D1	Chloromethane	1	ug/l	UJ	CCVL
SW8260	PL-514-8D1	Freon 12	1	ug/l	UJ	CCVL
SW8260	PL-514-8D1	Iodomethane	10	ug/l	UJ	ICVSL
SW8260	PL-514-8D1	Vinyl Acetate	10	ug/l	UJ	ICVSL CCVL
SW8270-SIM	ASE-130A-8C2	1,4-Dioxane	1.1	ug/l	J	SSH
SW8270-SIM	ASE-130A-8C2	Acenaphthene	0.2	ug/l	J	SSH
SW8270-SIM	ASE-130A-8C2	Fluorene	0.4	ug/l	J	SSH
SW8270-SIM	ASE-130A-8C2	Naphthalene	55	ug/l	J	SSH
SW8270-SIM	ASE-130A-8C2	Phenanthrene	0.1	ug/l	J	SSH

Notes:

CCVL = Continuing calibration verification recovery greater than the upper control limit.

EBL = Equipment blank concentration below the reporting limit.

FD = Field duplicate exceeds relative percent difference criteria.

ICVSL = Initial calibration verification recovery less than the lower control limit.

LBL = Laboratory blank concentration below the reporting limit.

LCSL = Laboratory control sample recovery less than the lower control limit.

MSH = Matrix spike recovery greater than the upper control limit.

MSL = Matrix spike recovery less than the lower control limit.

MSDL = Matrix spike duplicate recovery less than the lower control limit.

SSH = Surrogate recovery greater than the upper control limit.

Attachment 1

Samples Associated with DQE			
SampleID	**Matrix**	**Sample Date**	**Sample Type**
PL-501-8C2	WATER	10/15/2008	EB
PL-501-8D1	WATER	12/08/2008	EB
PL-504-8D1	WATER	12/09/2008	EB
PL-506-8D1	WATER	12/10/2008	EB
PL-508-8D1	WATER	12/11/2008	EB
PL-510-8D1	WATER	12/12/2008	EB
PL-512A-8D1	WATER	12/15/2008	EB
PL-513-8D1	WATER	12/16/2008	EB
PL-502-8D1	WATER	12/08/2008	FD
PL-503-8D1	WATER	12/09/2008	FD
PL-505-8D1	WATER	12/10/2008	FD
PL-507-8D1	WATER	12/11/2008	FD
PL-514-8D1	WATER	12/12/2008	FD
PL-511-8D1	WATER	12/15/2008	FD
PL-509-8D1	WATER	12/16/2008	FD
ASE-129A-8C2	WATER	10/15/2008	REG
ASE-130A-8C2	WATER	10/15/2008	REG
PL-2102-8D1	WATER	12/08/2008	REG
ASE-58A-8D1	WATER	12/08/2008	REG
ASE-54A-8D1	WATER	12/08/2008	REG
ASE-28A-8D1	WATER	12/08/2008	REG
PL-2101-8D1	WATER	12/08/2008	REG
PL-201A-8D1	WATER	12/08/2008	REG
ASE-129A-8D1	WATER	12/09/2008	REG
ASE-123A-8D1	WATER	12/09/2008	REG
ASE-100A-8D1	WATER	12/09/2008	REG
ASE-124A-8D1	WATER	12/09/2008	REG
ASE-109A-8D1	WATER	12/09/2008	REG
ASE-98A-8D1	WATER	12/09/2008	REG
ASE-122A-8D1	WATER	12/09/2008	REG
ASE-106A-8D1	WATER	12/09/2008	REG
ASE-110A-8D1	WATER	12/09/2008	REG
ASE-103A-8D1	WATER	12/09/2008	REG
ASE-101A-8D1	WATER	12/09/2008	REG
ASE-95A-8D1	WATER	12/10/2008	REG
ASE-128A-8D1	WATER	12/10/2008	REG
ASE-96A-8D1	WATER	12/10/2008	REG
ASE-113A-8D1	WATER	12/10/2008	REG
ASE-125A-8D1	WATER	12/10/2008	REG
ASE-126A-8D1	WATER	12/11/2008	REG
ASE-112A-8D1	WATER	12/11/2008	REG

Samples Associated with DQE			
SampleID	**Matrix**	**Sample Date**	**Sample Type**
ASE-97A-8D1	WATER	12/11/2008	REG
ASE-99A-8D1	WATER	12/11/2008	REG
BC-18-8D1	WATER	12/11/2008	REG
BC-8B-8D1	WATER	12/11/2008	REG
ASE-105-8D1	WATER	12/11/2008	REG
ASE-63A-8D1	WATER	12/12/2008	REG
ASE-116A-8D1	WATER	12/12/2008	REG
ASE-127A-8D1	WATER	12/12/2008	REG
ASE-38A-8D1	WATER	12/12/2008	REG
ASE-37A-8D1	WATER	12/12/2008	REG
BC-7A-8D1	WATER	12/12/2008	REG
ASE-108A-8D1	WATER	12/15/2008	REG
PL-105A-8D1	WATER	12/15/2008	REG
ASE-55A-8D1	WATER	12/15/2008	REG
ASE-62A-8D1	WATER	12/15/2008	REG
ASE-65A-8D1	WATER	12/15/2008	REG
ASE-92A-8D1	WATER	12/15/2008	REG
ASE-60A-8D1	WATER	12/16/2008	REG
ASE-61A-8D1	WATER	12/16/2008	REG
ASE-52A-8D1	WATER	12/16/2008	REG
ASE-68A-8D1	WATER	12/16/2008	REG
TB-101508	WATER	10/15/2008	TB
TB-120808	WATER	12/08/2008	TB
TB-120908	WATER	12/09/2008	TB
TB-121008	WATER	12/10/2008	TB
TB121108	WATER	12/11/2008	TB
TB-121208	WATER	12/12/2008	TB
TB-121508	WATER	12/15/2008	TB
TB-121608	WATER	12/16/2008	TB

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 206926
ANALYTICAL REPORT

CH2M Hill	Project : 370176SH.60.61.QS
2625 South Plaza Drive	Location : MONTHLY
Tempe, AZ 85282-3397	Level : III

Sample ID	Lab ID
ASE-129A-8C2	206926-001
ASE-130A-8C2	206926-002
PL-501-8C2	206926-003
TB-101508	206926-004

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 10/27/2008
Project Manager

Signature: _____ Date: 10/28/2008
Senior Program Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**206926**
Client:	**CH2M Hill**
Project:	**370176SH.60.61.QS**
Location:	**MONTHLY**
Request Date:	**10/16/08**
Samples Received:	**10/16/08**

This hardcopy data package contains sample and QC results for four water samples, requested for the above referenced project on 10/16/08. See attached cooler receipt form for any sample receipt problems or discrepancies.

TPH-Extractables by GC (SW8015AZR1):
Low recovery was observed for motor oil C22-C32 in the LCS for batch 143985. Sample was not re extracted because the sample was past holding time.

Low surrogate recovery was observed for hexacosane in the LCS for batch 143985. Sample was not re extracted because the sample was past holding time.

No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
Low response was observed for iodomethane in the ICV analyzed 10/07/08 12:41; affected data was qualified with "b".

Low responses were observed for a number of analytes in the CCV analyzed 10/24/08 14:47; these analytes met minimum response criteria.

Low response was observed for iodomethane in the CCV analyzed 10/25/08 13:50; this analyte met minimum response criteria, and affected data was qualified with "b". High responses were observed for a number of analytes; affected data was qualified with "b".

Low response was observed for iodomethane in the CCV analyzed 10/24/08 09:07; this analyte met minimum response criteria, and affected data was qualified with "b".

High recoveries were observed for many analytes in the BS/BSD for batch 144094; the associated RPDs were within limits, and these high recoveries were not associated with any reported results.

No other analytical problems were encountered.

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM):
High surrogate recovery was observed for nitrobenzene-d5 in ASE-130A-8C2 (lab # 206926-002).

No other analytical problems were encountered.

Chain of Custody

206926

Curtis & Tompkins Laboratories
2323 5th St.
Berkeley, CA 94710
510-204-2221

Honeywell — Chain Of Custody / Analysis Request

AESI Ref:	39735.43486
COC#	37380
Lab Proj # (SDG):	
Lab ID	CTBERK
Site ID	SKYHARBOR
Lab Job #	
Authorized User:	Honeywell

Text & Excel File Drive | Excel & Text File Order

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Privileged & Confidential		Site Name:	Sky Harbor
Phase:		Sampling Program	MONTHLY
Location of Site:	Phoenix, AZ		

Sampling Co.:	CH2MHILL	EDD To:	Jennifer Peterson, jennifer.peterson@ch2m.com
Client Contact: (name, co., address)	CH2M HILL, 2625 South Plaza Drive, Suite 300, Tempe, AZ 85282	Sampler:	~~M. Wiese~~ M. Hall / M. Wiese
PO #	4990342	Preservative	
Analysis Turnaround Time (TAT):	7	Consultant	
Preliminary Data To	Jennifer Peterson, CH2M HILL	Sample Receipt Acknowledgement To	Jennifer Peterson, CH2M HILL
Hard Copy To	Jennifer Peterson, CH2M HILL	Full Report TAT:	7
Invoice To:	Troy Kennedy (copy of invoice to J Peterson)		

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite/Grab	Field Filtered Sample ?	TOTAL VOCs - (SW8260B)	TPRH - DRO C10-C22 - ORO C22-C32 - (8015B)	PAHs - (SW8270C-SIM)								MS/MSD		Sampling Method (code)	Lab Sample Numbers
											Units															
1	ASE-129A	108	--	ASE-129A-8C2	10/15/2008	0616	GW	WATER	REG	6	G	N	X	X	X											
2	ASE-130A	108	--	ASE-130A-8C2	10/15/2008	0747	GW	WATER	REG	6	G	N	X	X	X											
3	EQUIPBLANK	--	--	PL-501-8C2	10/15/2008	0700	GW	WATER	EB	6	G	N	X	X	X											
4	TRIP BLANK	--	--	TB-101508	10/15/2008	0550	GW	WATER	TB	1	G	N	X	~~X~~	~~X~~	MW										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

1
2
3
4

SW8270^TAMP	See worksheet SW8270^TAMP
SW8260^TAMP	See worksheet SW8260^TAMP

Relinquished by	Company: H+A	Received by	Company: FedEx	Condition		Custody Seals Intact	
	Date/Time: 10/15/08 1630		Date/Time: 10/15/08 1630	Cooler Temp.			
Relinquished by	Company	Received by	Company: CAT	Condition		Custody Seals Intact	
	Date/Time		Date/Time: 10/16/08 0945	Cooler Temp.			

Preservatives: (Other; Specify):

0 (none); 1 (4 Deg C); 2 (HCl pH<2); 3 (HNO3 pH<2); 4 (H2SO4 pH<2); 5 (NaOH pH>12); 6 (NaOH, Zn Acetate); 7 (H2SO4 (pH<2), 4 Deg C)); 8 (HCl pH<2); 9 (HCl 4 Deg C); 10 (HNO3 (pH<2), 4Deg C); 11 (4C NaOH (pH>12) & Ascorbic Acid); 12 (4C H2SO4 (pH<2) & Na2S2O3); 13 (Zn Acetate); sp (special instructions)

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd

Login # 206926 Date Received 10/16/08 Number of coolers 1
Client CH2M-TAZ Project Honeywell

Date Opened 10/16 By (print) K Wellbrock (sign) K Wellbrock
Date Logged in ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc)? ..... YES NO
   Shipping info Fed Ex 867054996621
2A. Were custody seals present? .... ☒ YES (circle) on cooler on samples ☐ NO
   How many 1 Name unreadable Date 10/15/08
2B. Were custody seals intact upon arrival? ..... YES NO N/A
3. Were custody papers dry and intact when received? ..... YES NO
4. Were custody papers filled out properly (ink, signed, etc)? ..... YES NO
5. Is the project identifiable from custody papers? (If so fill out top of form) ..... YES NO
6. Indicate the packing in cooler: (if other, describe) _____
   ☒ Bubble Wrap ☐ Foam blocks ☒ Bags ☐ None
   ☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels
7. Temperature documentation:
   Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) 5.8
   ☐ Samples Received on ice & cold without a temperature blank
   ☐ Samples received on ice directly from the field. Cooling process had begun
8. Were Method 5035 sampling containers present? ..... YES NO
   If YES, what time were they transferred to freezer? _____
9. Did all bottles arrive unbroken/unopened? ..... YES NO
10. Are samples in the appropriate containers for indicated tests? ..... YES NO
11. Are sample labels present, in good condition and complete? ..... YES NO
12. Do the sample labels agree with custody papers? ..... YES NO
13. Was sufficient amount of sample sent for tests requested? ..... YES NO
14. Are the samples appropriately preserved? ..... YES NO
15. Are bubbles > 6mm absent in VOA samples? ..... YES NO N/A
16. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, Who was called? _____ By _____ Date: _____

COMMENTS

Laboratory Job Number 206926

ANALYTICAL REPORT

TPH-Extractables by GC

Matrix: Water

Laboratory Job Number 208576

ANALYTICAL REPORT

TPH-Extractables by GC

Matrix: Water

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	206926	Location:	MONTHLY
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	370176SH.60.61.QS	Analysis:	SW8015AZR1
Matrix:	Water	Sampled:	10/15/08
Units:	ug/L	Received:	10/16/08
Diln Fac:	1.000	Prepared:	10/22/08
Batch#:	143985	Analyzed:	10/23/08

Field ID: ASE-129A-8C2 Lab ID: 206926-001
Type: SAMPLE

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	ND	50		
Motor Oil C22-C32	ND	300	40	L2

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	87	50-120	
Hexacosane	84	58-127	

Field ID: ASE-130A-8C2 Lab ID: 206926-002
Type: SAMPLE

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	2,800 Y	50		
Motor Oil C22-C32	ND	300	40	L2

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	91	50-120	
Hexacosane	88	58-127	

Field ID: PL-501-8C2 Lab ID: 206926-003
Type: SAMPLE

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	ND	50		
Motor Oil C22-C32	ND	300	40	L2

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	89	50-120	
Hexacosane	86	58-127	

Type: BLANK Lab ID: QC466661

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	ND	50		
Motor Oil C22-C32	ND	300	40	L2

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	88	50-120	
Hexacosane	87	58-127	

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	206926	Location:	MONTHLY
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	370176SH.60.61.QS	Analysis:	SW8015AZR1
Matrix:	Water	Batch#:	143985
Units:	ug/L	Prepared:	10/22/08
Diln Fac:	1.000		

Type: BS Cleanup Method: EPA 3630C
Lab ID: QC466662

Analyte	Spiked	Result	%REC	Limits	Analyzed	ADEQ Flags
Diesel C10-C22	2,500	2,645	106	54-120	10/24/08	

Surrogate	%REC	Limits	Analyzed	ADEQ Flags
o-Terphenyl	93	50-120	10/23/08	
Hexacosane	87	58-127	10/24/08	

Type: BSD Cleanup Method: EPA 3630C
Lab ID: QC466663

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed	ADEQ Flags
Diesel C10-C22	2,500	2,486	99	54-120	6	31	10/24/08	

Surrogate	%REC	Limits	Analyzed	ADEQ Flags
o-Terphenyl	91	50-120	10/23/08	
Hexacosane	84	58-127	10/24/08	

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

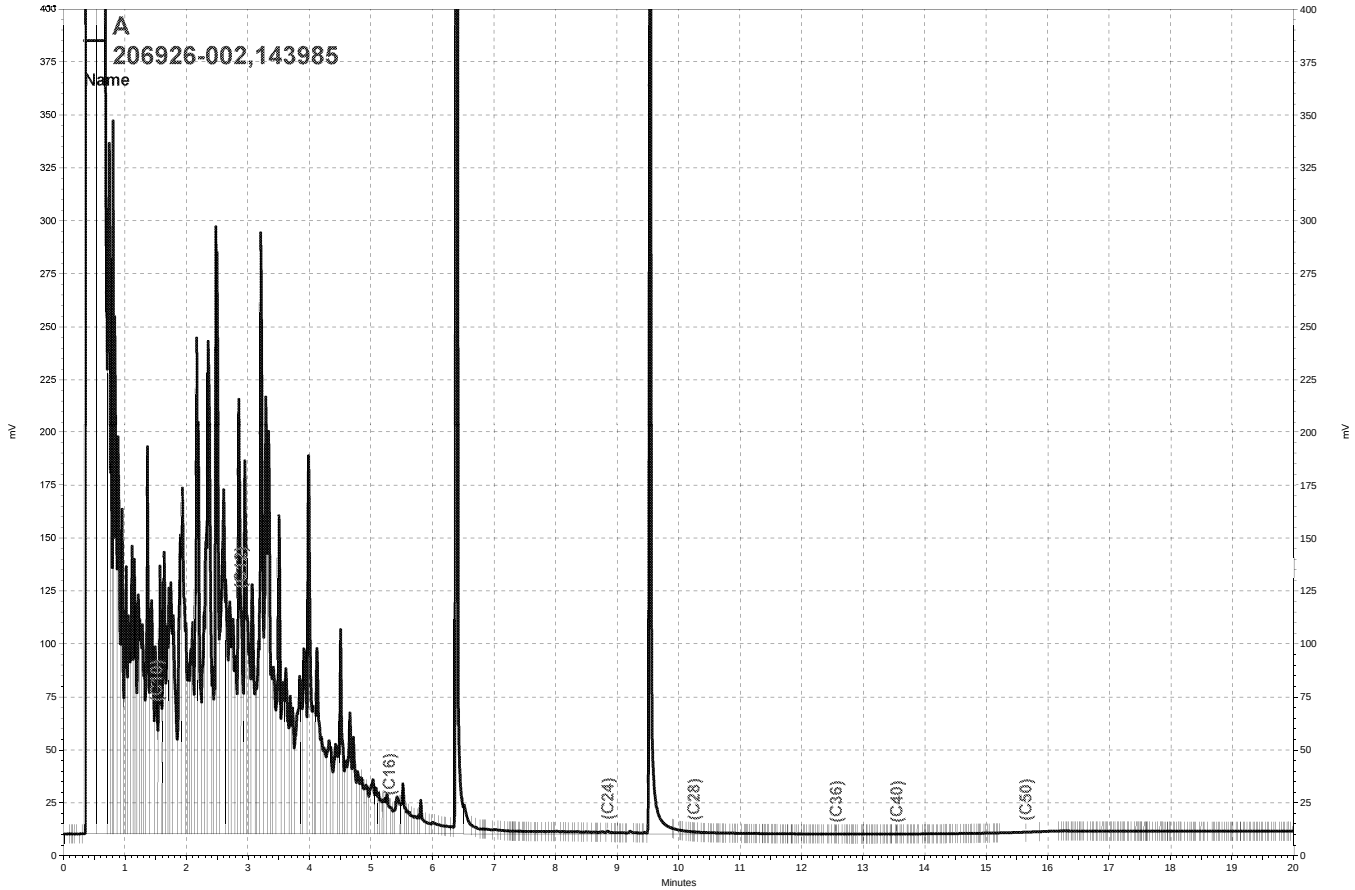
Curtis & Tompkins Laboratories Analytical Report

Lab #:	206926	Location:	MONTHLY
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	370176SH.60.61.QS	Analysis:	SW8015AZR1
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC466664	Batch#:	143985
Matrix:	Water	Prepared:	10/22/08
Units:	ug/L	Analyzed:	10/24/08

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Motor Oil C22-C32	2,500	1,424	57 *	60-140	L2

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	55	50-120	
Hexacosane	56 *	58-127	S7

*= Value outside of QC limits; see narrative



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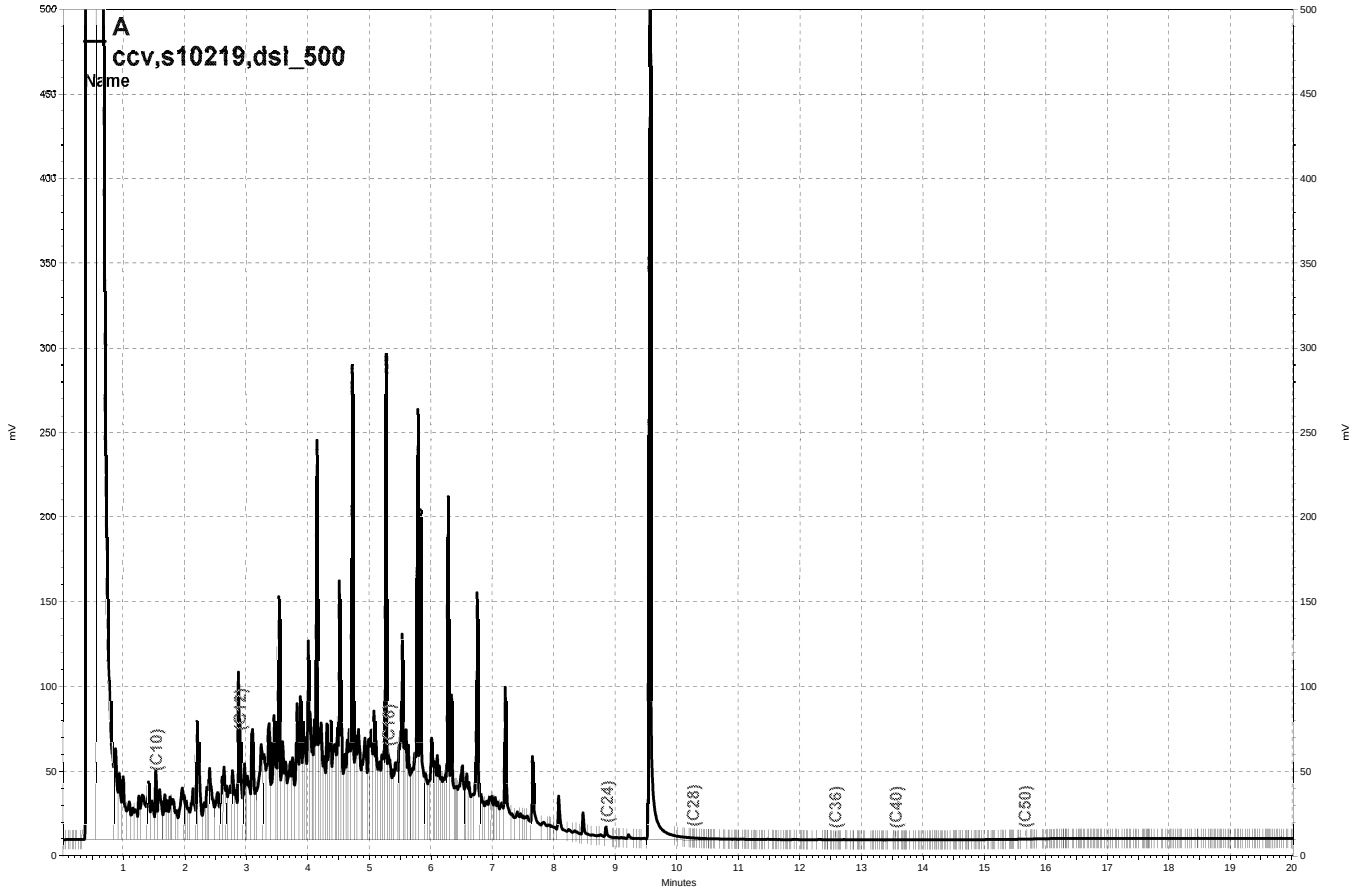

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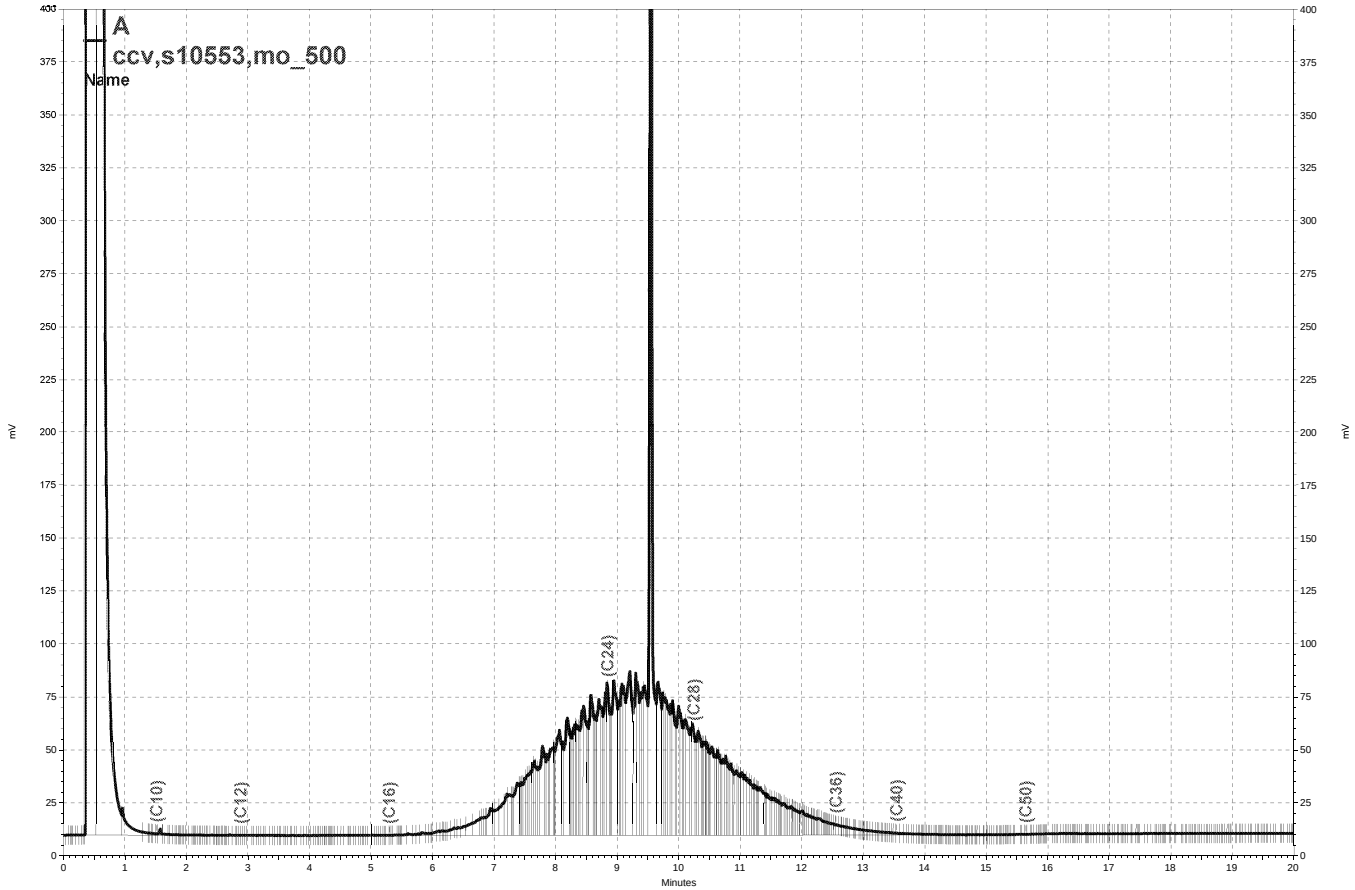

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CURTIS & TOMPKINS INITIAL CALIBRATION FOR 206926 GCSV Water: SW8015AZR1

Inst : GC26A
Calnum : 868379598005
Units : mg/L

Name : Diesel(26A)_263
Date : 19-SEP-2008 16:31
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	263a005	868379598005	DSL_10	19-SEP-2008 16:31	S9527
L2	263a006	868379598006	DSL_100	19-SEP-2008 16:59	S9528
L3	263a007	868379598007	DSL_500	19-SEP-2008 17:28	S9529
L4	263a008	868379598008	DSL_1000	19-SEP-2008 17:56	S9530
L5	263a009	868379598009	DSL_5000	19-SEP-2008 18:24	S9526
L6	263a010	868379598010	DSL_7500	19-SEP-2008 18:53	S9531

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C22	21428	35156	33074	35192	32746	33899	AVRG		3.13E-5		31916	16	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C10-C22	10.00	-33	100.0	10	500.0	4	1000	10	5000	3	7500	6

ATL 09/22/08 : Manually integrated DSL_10 thru DSL_7500 points for fuel hump except DSL_500. ICV for DSL c10-C14 does not meet %D requirement; no data will be reported for that range.

EAH 09/22/08 : %RSD failed for C10-C14. NO data will be reported from this C range.

Analyst: ATL Date: 09/20/08 Reviewer: EAH Date: 09/22/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 206926 GCSV Water
SW8015AZR1

Inst : GC26A Name : Diesel(26A)_263
Calnum : 868379598005 Cal Date : 19-SEP-2008

ICV 868379598012 (263a012 19-SEP-2008) stds: S10153

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C10-C22	31916	35450	500.0	555.4	mg/L	11	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 206926 GCSV Water: SW8015AZR1

Inst : GC26A
Calnum : 868379598002
Units : mg/L

Name : Motor Oil(26A)_263
Date : 19-SEP-2008 21:14
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	263a015	868379598015	MO_50	19-SEP-2008 21:14	S10075
L2	263a016	868379598016	MO_250	19-SEP-2008 21:42	S10076
L3	263a017	868379598017	MO_500	19-SEP-2008 22:10	S10077
L4	263a018	868379598018	MO_1000	19-SEP-2008 22:38	S10078
L5	263a019	868379598019	MO_5000	19-SEP-2008 23:07	S10073
L6	263a020	868379598020	MO_7500	19-SEP-2008 23:35	S10074

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C22-C32	20012	21447	24501	27563	21194	21017	AVRG		4.42E-5		22622	13	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C22-C32	50.00	-12	250.0	-5	500.0	8	1000	22	5000	-6	7500	-7

ATL 09/22/08 : Motor Oil C28-C36 and C28-C40 are not useable because both do not pass %RSD requirement; no data will be reported for those ranges.

ATL 09/20/08 : Manually integrated MO_50 thru MO_7500 for fuel hump.

Analyst: ATL Date: 09/20/08 Reviewer: EAH Date: 09/22/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 206926 GCSV Water: SW8015AZR1

Inst : GC26A
Calnum : 868379598003
Units : mg/L

Name : HEX(26A)_263
Date : 20-SEP-2008 00:32
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	263a022	868379598022	HEX_5	20-SEP-2008 00:32	S9550
L2	263a023	868379598023	HEX_10	20-SEP-2008 01:00	S9551
L3	263a024	868379598024	HEX_25	20-SEP-2008 01:28	S9552
L4	263a025	868379598025	HEX_50	20-SEP-2008 01:57	S9553
L5	263a026	868379598026	HEX_100	20-SEP-2008 02:25	S9554
L6	263a027	868379598027	HEX_200	20-SEP-2008 02:53	S9555

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	29508	30969	32503	33899	33320	34092	AVRG		3.09E-5		32382	6	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Hexacosane	5.000	-9	10.00	-4	25.00	0	50.00	5	100.0	3	200.0	5

ATL 09/20/08 : Manual peak for HEX_25 thru HEX_200.

Analyst: ATL Date: 09/20/08 Reviewer: EAH Date: 09/22/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 206926 GCSV Water: SW8015AZR1

Inst : GC26A
Calnum : 868379598004
Units : mg/L

Name : OTP(26A)_263
Date : 20-SEP-2008 03:49
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	263a029	868379598029	OTP_5	20-SEP-2008 03:49	S9739
L2	263a030	868379598030	OTP_10	20-SEP-2008 04:18	S9740
L3	263a031	868379598031	OTP_25	20-SEP-2008 04:46	S9741
L4	263a032	868379598032	OTP_50	20-SEP-2008 05:14	S9742
L5	263a033	868379598033	OTP_100	20-SEP-2008 05:43	S9745
L6	263a034	868379598034	OTP_200	20-SEP-2008 06:11	S9744

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	40708	41053	41343	38008	41825	40592	AVRG		2.46E-5		40588	3	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	5.000	0	10.00	1	25.00	2	50.00	-6	100.0	3	200.0	0

ATL 09/20/08 : Manual peak for OTP_5 thru OTP_200.

ATL 09/20/08 : Point OTP_50 was used to update RT for OTP method.

Analyst: ATL Date: 09/20/08 Reviewer: EAH Date: 09/22/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 206926 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : MO_500 IDF : 1.0
Seqnum : 868428242014 File : 297a014 Time : 23-OCT-2008 16:15
Standards: S10553

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C22-C32	868379598002	19-SEP-2008	22622	19963	500.0	441.2	mg/L	-12	15	
Hexacosane	868379598003	20-SEP-2008	32382	28840	50.00	44.53	mg/L	-11	15	

Analyst: DNT Date: 10/23/08 Reviewer: ATL Date: 10/24/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 206926 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : DSL_500 IDF : 1.0
Seqnum : 868428242015 File : 297a015 Time : 23-OCT-2008 16:43
Standards: S10219

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C22	868379598005	19-SEP-2008	31916	32294	500.0	505.9	mg/L	1	15	
Hexacosane	868379598003	20-SEP-2008	32382	24570	50.00	37.94	mg/L	**-24**	15	c-

DNT: 10/23/08 ATL: 10/24/08 JDG: 10/24/08

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 206926 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : OTP_50 IDF : 1.0
Seqnum : 868428242017 File : 297a017 Time : 23-OCT-2008 18:45
Cal : 868379598004 Caldate : 20-SEP-2008
Standards: S10089

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
o-Terphenyl	40588	37107	50.00	45.71	mg/L	-9	15	

Analyst: DNT Date: 10/23/08 Reviewer: ATL Date: 10/24/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 206926 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : MO_500 IDF : 1.0
Seqnum : 868428242031 File : 297a031 Time : 24-OCT-2008 01:21
Standards: S10553

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C22-C32	868379598002	19-SEP-2008	22622	19866	500.0	439.1	mg/L	-12	15	
Hexacosane	868379598003	20-SEP-2008	32382	29305	50.00	45.25	mg/L	-10	15	

Analyst: ATL Date: 10/24/08 Reviewer: JDG Date: 10/24/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 206926 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : DSL_1000 IDF : 1.0
Seqnum : 868428242032 File : 297a032 Time : 24-OCT-2008 01:50
Standards: S10220

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C22	868379598005	19-SEP-2008	31916	33287	1000	1043	mg/L	4	15	
Hexacosane	868379598003	20-SEP-2008	32382	25781	50.00	39.81	mg/L	**-20**	15	c-

ATL 10/24/08 : Manually integrated fuel hump.

Analyst: ATL Date: 10/24/08 Reviewer: JDG Date: 10/24/08

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 206926 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : OTP_50 IDF : 1.0
Seqnum : 868428242035 File : 297a035 Time : 24-OCT-2008 07:13
Cal : 868379598004 Caldate : 20-SEP-2008
Standards: S10089

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
o-Terphenyl	40588	36178	50.00	44.57	mg/L	-11	15	

Analyst: ATL Date: 10/24/08 Reviewer: JDG Date: 10/24/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 206926 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : OTP_50 IDF : 1.0
Seqnum : 868428242038 File : 297a038 Time : 24-OCT-2008 09:20
Cal : 868379598004 Caldate : 20-SEP-2008
Standards: S10089

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
o-Terphenyl	40588	37674	50.00	46.41	mg/L	-7	15	

Analyst: ATL Date: 10/24/08 Reviewer: JDG Date: 10/27/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 206926 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : MO_500 IDF : 1.0
Seqnum : 868428242039 File : 297a039 Time : 24-OCT-2008 10:37
Standards: S10553

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C22-C32	868379598002	19-SEP-2008	22622	20120	500.0	444.7	mg/L	-11	15	
Hexacosane	868379598003	20-SEP-2008	32382	29038	50.00	44.84	mg/L	-10	15	

Analyst: ATL Date: 10/24/08 Reviewer: JDG Date: 10/27/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 206926 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : MO_500 IDF : 1.0
Seqnum : 868429817005 File : 298a005 Time : 24-OCT-2008 13:30
Standards: S10553

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C22-C32	868379598002	19-SEP-2008	22622	19932	500.0	440.5	mg/L	-12	15	
Hexacosane	868379598003	20-SEP-2008	32382	28976	50.00	44.74	mg/L	-11	15	

Analyst: ATL Date: 10/27/08 Reviewer: JDG Date: 10/27/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 206926 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : DSL_250 IDF : 1.0
Seqnum : 868429817006 File : 298a006 Time : 24-OCT-2008 13:58
Standards: S10218

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C22	868379598005	19-SEP-2008	31916	32734	250.0	256.4	mg/L	3	15	
Hexacosane	868379598003	20-SEP-2008	32382	24519	50.00	37.86	mg/L	**-24**	15	c-

Analyst: ATL Date: 10/27/08 Reviewer: JDG Date: 10/27/08

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 206926 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : MO_500 IDF : 1.0
Seqnum : 868429817019 File : 298a019 Time : 24-OCT-2008 21:04
Standards: S10553

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C22-C32	868379598002	19-SEP-2008	22622	20373	500.0	450.3	mg/L	-10	15	
Hexacosane	868379598003	20-SEP-2008	32382	29504	50.00	45.56	mg/L	-9	15	

ATL 10/25/08 : Manually integrated fuel hump.

Analyst: ATL Date: 10/25/08 Reviewer: JDG Date: 10/27/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 206926 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : DSL_1000 IDF : 1.0
Seqnum : 868429817020 File : 298a020 Time : 24-OCT-2008 21:32
Standards: S10220

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C22	868379598005	19-SEP-2008	31916	34145	1000	1070	mg/L	7	15	
Hexacosane	868379598003	20-SEP-2008	32382	26329	50.00	40.65	mg/L	**-19**	15	c-

ATL 10/25/08 : Manually integrated fuel hump.

Analyst: ATL Date: 10/25/08 Reviewer: JDG Date: 10/27/08

-=low bias c=CCV

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868379598

Instrument : GC26A Begun : 09/19/08 14:38
Method : SW8015AZR1 SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	263a001	X	IB			09/19/08 14:38	1.0		
002	263a002	X	IB			09/19/08 15:06	1.0		
003	263a003	X	IB			09/19/08 15:34	1.0		
004	263a004	IB	CALIB			09/19/08 16:03	1.0		
005	263a005	ICAL	DSL_10			09/19/08 16:31	1.0	1	
006	263a006	ICAL	DSL_100			09/19/08 16:59	1.0	2	
007	263a007	ICAL	DSL_500			09/19/08 17:28	1.0	3	
008	263a008	ICAL	DSL_1000			09/19/08 17:56	1.0	4	
009	263a009	ICAL	DSL_5000			09/19/08 18:24	1.0	5	
010	263a010	ICAL	DSL_7500			09/19/08 18:53	1.0	6	
011	263a011	IB	CALIB			09/19/08 19:21	1.0		
012	263a012	ICV	DSL_500			09/19/08 19:49	1.0	7	
013	263a013	X	ICV			09/19/08 20:17	1.0	7	
014	263a014	IB	CALIB			09/19/08 20:45	1.0		
015	263a015	ICAL	MO_50			09/19/08 21:14	1.0	8	
016	263a016	ICAL	MO_250			09/19/08 21:42	1.0	9	
017	263a017	ICAL	MO_500			09/19/08 22:10	1.0	10	
018	263a018	ICAL	MO_1000			09/19/08 22:38	1.0	11	
019	263a019	ICAL	MO_5000			09/19/08 23:07	1.0	12	
020	263a020	ICAL	MO_7500			09/19/08 23:35	1.0	13	
021	263a021	IB	CALIB			09/20/08 00:03	1.0		
022	263a022	ICAL	HEX_5			09/20/08 00:32	1.0	14	
023	263a023	ICAL	HEX_10			09/20/08 01:00	1.0	15	
024	263a024	ICAL	HEX_25			09/20/08 01:28	1.0	16	
025	263a025	ICAL	HEX_50			09/20/08 01:57	1.0	17	
026	263a026	ICAL	HEX_100			09/20/08 02:25	1.0	18	
027	263a027	ICAL	HEX_200			09/20/08 02:53	1.0	19	
028	263a028	IB	CALIB			09/20/08 03:21	1.0		
029	263a029	ICAL	OTP_5			09/20/08 03:49	1.0	20	
030	263a030	ICAL	OTP_10			09/20/08 04:18	1.0	21	
031	263a031	ICAL	OTP_25			09/20/08 04:46	1.0	22	
032	263a032	ICAL	OTP_50			09/20/08 05:14	1.0	23	
033	263a033	ICAL	OTP_100			09/20/08 05:43	1.0	24	
034	263a034	ICAL	OTP_200			09/20/08 06:11	1.0	25	
035	263a035	IB	CALIB			09/20/08 06:39	1.0		
036	263a036	X	IB			09/20/08 07:07	1.0		
037	263a037	CMARKER	C8-C50			09/20/08 07:36	1.0	26	
038	263a038	CCV	DSL_500			09/20/08 08:04	1.0	27	
039	263a039	CCV	MO_500			09/20/08 08:32	1.0	28	
040	263a040	CCV	OTP_50			09/20/08 09:00	1.0	29	
041	263a041	X	CCV			09/20/08 09:29	1.0	27	
042	263a042	X	CCV			09/20/08 09:57	1.0	28	
043	263a043	X	CCV			09/20/08 10:26	1.0	29	

ATL 09/20/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 43.

Analyst: ATL Date: 09/20/08 Reviewer: EAH Date: 09/22/08

Standards used: 1=S9527 2=S9528 3=S9529 4=S9530 5=S9526 6=S9531 7=S10153 8=S10075 9=S10076 10=S10077 11=S10078 12=S10073 13=S10074 14=S9550 15=S9551 16=S9552 17=S9553 18=S9554 19=S9555 20=S9739 21=S9740 22=S9741 23=S9742 24=S9745 25=S9744 26=S10268 27=S10219 28=S10088 29=S9586

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868428242

Instrument : GC26A Begun : 10/23/08 09:22
Method : SW8015AZR1 SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	297a001	X	PRIMER				10/23/08 09:22	1.0		
002	297a002	X	IB				10/23/08 09:50	1.0		
003	297a003	X	IB				10/23/08 10:18	1.0		
004	297a004	X	CMARKER				10/23/08 10:47	1.0	1	
005	297a005	X	CCV				10/23/08 11:15	1.0	2	
006	297a006	CCV	MO_500				10/23/08 11:43	1.0	3	
007	297a007	CCV	DSL_250				10/23/08 12:32	1.0	2	
008	297a008	BLANK	QC466560		Soil	143964	10/23/08 13:02	1.0		
009	297a009	LCS	QC466006	S	Soil	143833	10/23/08 13:31	1.0		
010	297a010	MS	QC466257	S	Water	143890	10/23/08 13:59	1.0		
011	297a011	MSD	QC466258	S	Water	143890	10/23/08 14:27	1.0		
012	297a012	X	MO_500				10/23/08 15:04	1.0	3	
013	297a013	X	DSL_500				10/23/08 15:32	1.0	4	
014	297a014	CCV	MO_500				10/23/08 16:15	1.0	3	
015	297a015	CCV	DSL_500				10/23/08 16:43	1.0	4	
016	297a016	CCV	JP5_250				10/23/08 18:16	1.0	5	
017	297a017	CCV	OTP_50				10/23/08 18:45	1.0	6	
018	297a018	X	CCV				10/23/08 19:13	1.0	5	
019	297a019	X	CCV				10/23/08 19:41	1.0	6	
020	297a020	BS	QC466662	S	Water	143985	10/23/08 20:09	1.0		
021	297a021	BSD	QC466663	S	Water	143985	10/23/08 20:38	1.0		
022	297a022	BLANK	QC466661	S	Water	143985	10/23/08 21:06	1.0		
023	297a023	BLANK	QC466661		Water	143985	10/23/08 21:35	1.0		
024	297a024	LCS	QC466664		Water	143985	10/23/08 22:03	1.0		
025	297a025	SAMPLE	206926-001		Water	143985	10/23/08 22:31	1.0		
026	297a026	SAMPLE	206926-002		Water	143985	10/23/08 23:00	1.0		
027	297a027	SAMPLE	206926-003		Water	143985	10/23/08 23:28	1.0		
028	297a028	SAMPLE	206998-017		Soil	143964	10/23/08 23:56	1.0		
029	297a029	SAMPLE	206998-012		Soil	143964	10/24/08 00:24	1.0		
030	297a030	X	CMARKER				10/24/08 00:53	1.0	7	
031	297a031	CCV	MO_500				10/24/08 01:21	1.0	3	
032	297a032	CCV	DSL_1000				10/24/08 01:50	1.0	8	
033	297a033	CCV	JP5_250				10/24/08 02:18	1.0	5	
034	297a034	X	IB				10/24/08 06:45	1.0		
035	297a035	CCV	OTP_50				10/24/08 07:13	1.0	6	
036	297a036	LCS	QC466664		Water	143985	10/24/08 07:57	1.0		
037	297a037	X	CCV				10/24/08 08:52	1.0	3	
038	297a038	CCV	OTP_50				10/24/08 09:20	1.0	6	
039	297a039	CCV	MO_500				10/24/08 10:37	1.0	3	

DNT 10/23/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 24.

ATL 10/24/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 25 through 39.

Standards used: 1=S9796 2=S10218 3=S10553 4=S10219 5=S10245 6=S10089 7=S10268 8=S10220

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868429817

Instrument : GC26A Begun : 10/24/08 11:37
Method : SW8015AZR1 SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	298a001	X	PRIMER				10/24/08 11:37	1.0		
002	298a002	X	IB				10/24/08 12:05	1.0		
003	298a003	X	IB				10/24/08 12:33	1.0		
004	298a004	X	CMARKER				10/24/08 13:02	1.0	1	
005	298a005	CCV	MO_500				10/24/08 13:30	1.0	2	
006	298a006	CCV	DSL_250				10/24/08 13:58	1.0	3	
008	298a008	X	IB				10/24/08 15:54	1.0		
009	298a009	BS	QC466662		Water	143985	10/24/08 16:22	1.0		
010	298a010	BSD	QC466663		Water	143985	10/24/08 16:51	1.0		
011	298a011	BLANK	QC466818	S	Water	144024	10/24/08 17:18	1.0		
012	298a012	BS	QC466819	S	Water	144024	10/24/08 17:47	1.0		
013	298a013	BSD	QC466820	S	Water	144024	10/24/08 18:15	1.0		
014	298a014	SAMPLE	207057-011	S	Water	144024	10/24/08 18:43	1.0		
015	298a015	SAMPLE	207057-012	S	Water	144024	10/24/08 19:11	1.0		
016	298a016	SAMPLE	207057-013	S	Water	144024	10/24/08 19:39	1.0		
017	298a017	SAMPLE	207057-014	S	Water	144024	10/24/08 20:07	1.0		
018	298a018	SAMPLE	207057-015	S	Water	144024	10/24/08 20:35	1.0		
019	298a019	CCV	MO_500				10/24/08 21:04	1.0	2	
020	298a020	CCV	DSL_1000				10/24/08 21:32	1.0	4	
021	298a021	X	CCV				10/24/08 22:00	1.0	2	
022	298a022	X	CCV				10/24/08 22:29	1.0	4	
023	298a023	SAMPLE	207057-016	S	Water	144024	10/24/08 22:58	1.0		
024	298a024	SAMPLE	207057-018	S	Water	144024	10/24/08 23:26	1.0		
025	298a025	SAMPLE	207057-019	S	Water	144024	10/24/08 23:54	1.0		
026	298a026	SAMPLE	207057-020	S	Water	144024	10/25/08 00:23	1.0		
027	298a027	SAMPLE	207057-026	S	Water	144024	10/25/08 00:51	1.0		
028	298a028	SAMPLE	207057-001	S	Water	144024	10/25/08 01:19	1.0		
029	298a029	SAMPLE	207057-002	S	Water	144024	10/25/08 01:48	1.0		
030	298a030	SAMPLE	207057-003	S	Water	144024	10/25/08 02:16	1.0		
031	298a031	SAMPLE	207057-004	S	Water	144024	10/25/08 02:44	1.0		
032	298a032	SAMPLE	207057-005	S	Water	144024	10/25/08 03:12	1.0		
033	298a033	X	CMARKER				10/25/08 03:41	1.0	1	
034	298a034	CCV	MO_500				10/25/08 04:09	1.0	2	
035	298a035	CCV	DSL_250				10/25/08 04:38	1.0	3	
036	298a036	X	CCV				10/25/08 05:06	1.0	2	
037	298a037	X	CCV				10/25/08 05:34	1.0	3	
038	298a038	IB	CALIB				10/25/08 06:03	1.0		
039	298a039	ICAL	MO_50				10/25/08 06:31	1.0	5	
040	298a040	ICAL	MO_250				10/25/08 06:59	1.0	6	
041	298a041	ICAL	MO_500				10/25/08 07:27	1.0	7	
042	298a042	ICAL	MO_1000				10/25/08 07:56	1.0	8	
043	298a043	ICAL	MO_5000				10/25/08 08:24	1.0	9	
044	298a044	ICAL	MO_7500				10/25/08 08:52	1.0	10	
045	298a045	IB	CALIB				10/25/08 09:20	1.0		
046	298a046	CMARKER	C8-C50				10/25/08 09:49	1.0	1	
047	298a047	IB	CALIB				10/25/08 10:17	1.0		

ATL 10/25/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 47.

Standards used: 1=S9796 2=S10553 3=S10218 4=S10220 5=S10563 6=S10565 7=S10564 8=S10566 9=S10567 10=S10568

SAMPLE PREPARATION SUMMARY

Batch # : 143985
Started By : SFL
Method : 3520C
Spike #1 ID : S10520

Prep Date : 22-OCT-2008
SOP Version : TEH_3520_rv12
Spike #2 ID : S10465

Analysis : TEH
Finished By : TWY
Units : mL
Spike #3 ID : S10519

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
206886-001		Water	500	2.5	1	0.005	7	.5				TEH	
206918-005		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	re-x
206926-001		Water	500	2.5	1	0.005	7	.5	.5			8015AZ	
206926-002		Water	500	2.5	1	0.005	7	.5	.5			8015AZ	
206926-003		Water	500	2.5	1	0.005	7	.5	.5			8015AZ	
206927-001		Water	500	2.5	1	0.005	2	.5			3630C	TEHM	
206927-002		Water	500	2.5	1	0.005	10	.5			3630C	TEHM	
207007-002		Water	500	2.5	1	0.005	7	.5				TEH	
207014-001		Water	500	2.5	1	0.005	7	.5			3630C	TEH	
207063-001		Water	500	2.5	1	0.005	7	.5				TEHM	
207064-001		Water	500	2.5	1	0.005	7	.5			3630C	(rebatched)	
207064-002		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
207064-003		Water	500	2.5	1	0.005	7	.5			3630C	TEHM	
QC466661	BLANK	Water	500	2.5	1	0.005		.5	.5		3630C		
QC466662	BS	Water	500	2.5	1	0.005		.5	.5	.5	3630C		
QC466663	BSD	Water	500	2.5	1	0.005		.5	.5	.5	3630C		
QC466664	LCS	Water	500	2.5	1	0.005		.5	.5				+.5 mL S9061A; h2o in sample

ATL 10/25/08 : Ok to report LCS for CH2MHILL. See CAR#4512.

Analyst: JDG Date: 10/24/08 Reviewer: ATL Date: 10/24/08

TEH (8015) Water Prep Log

Curtis & Tompkins, Ltd.

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LIMS Batch No: 143985
LIMS Analysis: TEHM
Date Extracted: 10/22/08

Extraction Method:
☐ mod. EPA 3510c sep. funnel
☑ mod. EPA 3520c cont. L/L

Cleanup Method (if needed):
☑ EPA 3630c Silica Gel

Sample #	Container ID	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
206886-001	H	500	7	2.5		
206918-005	F				X	re-X
206926-001	E					*
02						
03						
206927-001	H		2		X	
02	C		10			
207007-002	A		7			
207014-001	D				X	
207063-001	A					
207064-001	F				X	
02						
03					X	
MB QC466661						*
LCSBS 2						
BSD 3						
LCS 4						** POSS H_2O IN SAMPLE

SFL 10/22/08

SFL 10/22/08

10/24/08

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.5 / 0.5* mL of TEH_SURR was added to all samples	S105208/S10465A	SFL 10/22/08
0.5 / 0.5* mL of TEH_SP was added to all spikes	S105198/S9061A*	
pH of all samples adjusted to pH ≤ 2 with H_2SO_4	FC075640	
☑ 3520c: Samples were continually extracted about 450 mL of CH_2Cl_2	EM48203	
Extraction Start Time:	1550	
Extraction End Time:	0950	TWY 10/23/08
☐ 3510c: Samples were extracted 3 times with 60 mL of CH_2Cl_2	N/A	
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EM48175830	
Concentrated to final volume at temperature (degrees C)	100	
Relinquished to TEH Department	✓	

10/22/08

Extraction Chemist **Date**

Contined from Page ____
Continued on Page ____

10/24/08

Reviewed by **Date**

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: TWY
Cleanup Date: 10/23/08

Benchbook # **BK 2799**
Page 8

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
206918-005	143985	1.0	1.0	
206927-001	↓	↓	↓	
-002				
207014-001				
207064-001				
-002				
-003				
MB QC466661				
TWY 10/23/08 LCS 2				
BSD 3	↓	↓	↓	

10/24/08

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled — g columns	N/A ~~106~~ TWY 10/23/08	TWY 10/23/08
☐ Extracts were cleaned up using 1.0 g cartridges	SP10609	↓
Extracts were eluted with 4.0 mL CH_2Cl_2	EM48203	
Concentrated to volumes as noted above	✓	

10/23/08
Extraction Chemist / Date

Continued from page ___
Continued on page ___

10/24/08
Reviewed by / Date

Laboratory Job Number 206926

ANALYTICAL REPORT

Volatile Organics by GC/MS

Matrix: Water

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	206926	Location:	MONTHLY
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	370176SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-129A-8C2	Batch#:	144051
Lab ID:	206926-001	Sampled:	10/15/08
Matrix:	Water	Received:	10/16/08
Units:	ug/L	Analyzed:	10/24/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	V9
Iodomethane	ND	10	V9
Acetone	ND	10	V9
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	V9
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	206926	Location:	MONTHLY
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	370176SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-129A-8C2	Batch#:	144051
Lab ID:	206926-001	Sampled:	10/15/08
Matrix:	Water	Received:	10/16/08
Units:	ug/L	Analyzed:	10/24/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	105	77-120	
1,2-Dichloroethane-d4	109	70-127	
Toluene-d8	101	83-125	
Bromofluorobenzene	103	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	206926	Location:	MONTHLY
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	370176SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-130A-8C2	Units:	ug/L
Lab ID:	206926-002	Sampled:	10/15/08
Matrix:	Water	Received:	10/16/08

Analyte	Result	RL	Diln Fac	Batch#	Analyzed	ADEQ Flags
Freon 12	ND	1.0	1.000	144051	10/24/08	V9
Chloromethane	ND	1.0	1.000	144051	10/24/08	
Vinyl Chloride	2.6	0.5	1.000	144051	10/24/08	
Bromomethane	ND	1.0	1.000	144051	10/24/08	
Chloroethane	9.2	1.0	1.000	144051	10/24/08	
Trichlorofluoromethane	ND	1.0	1.000	144051	10/24/08	V9
Iodomethane	ND	10	1.000	144051	10/24/08	V9
Acetone	ND	10	1.000	144051	10/24/08	V9
1,1-Dichloroethene	ND	0.5	1.000	144051	10/24/08	
Methylene Chloride	ND	10	1.000	144051	10/24/08	
Carbon Disulfide	ND	0.5	1.000	144051	10/24/08	V9
MTBE	240	2.5	5.000	144094	10/25/08	D1
trans-1,2-Dichloroethene	ND	0.5	1.000	144051	10/24/08	
Vinyl Acetate	ND	10	1.000	144051	10/24/08	
1,1-Dichloroethane	11	0.5	1.000	144051	10/24/08	
2-Butanone	ND	10	1.000	144051	10/24/08	
cis-1,2-Dichloroethene	1.6	0.5	1.000	144051	10/24/08	
2,2-Dichloropropane	ND	0.5	1.000	144051	10/24/08	
Chloroform	ND	0.5	1.000	144051	10/24/08	
Bromochloromethane	ND	0.5	1.000	144051	10/24/08	
1,1,1-Trichloroethane	ND	0.5	1.000	144051	10/24/08	
1,1-Dichloropropene	ND	0.5	1.000	144051	10/24/08	
Carbon Tetrachloride	ND	0.5	1.000	144051	10/24/08	
1,2-Dichloroethane	ND	0.5	1.000	144051	10/24/08	
Benzene	250	2.5	5.000	144094	10/25/08	D1
Trichloroethene	1.0	0.5	1.000	144051	10/24/08	
1,2-Dichloropropane	ND	0.5	1.000	144051	10/24/08	
Bromodichloromethane	ND	0.5	1.000	144051	10/24/08	
Dibromomethane	ND	0.5	1.000	144051	10/24/08	
4-Methyl-2-Pentanone	ND	10	1.000	144051	10/24/08	
cis-1,3-Dichloropropene	ND	0.5	1.000	144051	10/24/08	
Toluene	ND	0.5	1.000	144051	10/24/08	
trans-1,3-Dichloropropene	ND	0.5	1.000	144051	10/24/08	
1,1,2-Trichloroethane	ND	0.5	1.000	144051	10/24/08	
2-Hexanone	ND	10	1.000	144051	10/24/08	
1,3-Dichloropropane	ND	0.5	1.000	144051	10/24/08	
Tetrachloroethene	ND	0.5	1.000	144051	10/24/08	
Dibromochloromethane	ND	0.5	1.000	144051	10/24/08	
1,2-Dibromoethane	ND	0.5	1.000	144051	10/24/08	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	206926	Location:	MONTHLY
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	370176SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-130A-8C2	Units:	ug/L
Lab ID:	206926-002	Sampled:	10/15/08
Matrix:	Water	Received:	10/16/08

Analyte	Result	RL	Diln Fac	Batch#	Analyzed	ADEQ Flags
Chlorobenzene	ND	0.5	1.000	144051	10/24/08	
1,1,1,2-Tetrachloroethane	ND	0.5	1.000	144051	10/24/08	
Ethylbenzene	49	0.5	1.000	144051	10/24/08	
m,p-Xylenes	25	0.5	1.000	144051	10/24/08	
o-Xylene	ND	0.5	1.000	144051	10/24/08	
Styrene	ND	0.5	1.000	144051	10/24/08	
Bromoform	ND	1.0	1.000	144051	10/24/08	
Isopropylbenzene	25	0.5	1.000	144051	10/24/08	
1,1,2,2-Tetrachloroethane	ND	0.5	1.000	144051	10/24/08	
1,2,3-Trichloropropane	ND	0.5	1.000	144051	10/24/08	
Propylbenzene	20	0.5	1.000	144051	10/24/08	
Bromobenzene	ND	0.5	1.000	144051	10/24/08	
1,3,5-Trimethylbenzene	9.3	0.5	1.000	144051	10/24/08	
2-Chlorotoluene	ND	0.5	1.000	144051	10/24/08	
4-Chlorotoluene	ND	0.5	1.000	144051	10/24/08	
tert-Butylbenzene	1.4	0.5	1.000	144051	10/24/08	
1,2,4-Trimethylbenzene	44	0.5	1.000	144051	10/24/08	
sec-Butylbenzene	6.6	0.5	1.000	144051	10/24/08	
para-Isopropyl Toluene	4.6	0.5	1.000	144051	10/24/08	
1,3-Dichlorobenzene	ND	0.5	1.000	144051	10/24/08	
1,4-Dichlorobenzene	ND	0.5	1.000	144051	10/24/08	
n-Butylbenzene	6.0	0.5	1.000	144051	10/24/08	
1,2-Dichlorobenzene	ND	0.5	1.000	144051	10/24/08	
1,2-Dibromo-3-Chloropropane	ND	2.0	1.000	144051	10/24/08	
1,2,4-Trichlorobenzene	ND	0.5	1.000	144051	10/24/08	
Hexachlorobutadiene	ND	2.0	1.000	144051	10/24/08	
Naphthalene	83	2.0	1.000	144051	10/24/08	
1,2,3-Trichlorobenzene	ND	0.5	1.000	144051	10/24/08	
Xylene (total)	25	0.5	1.000	144051	10/24/08	

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed	ADEQ Flags
Dibromofluoromethane	105	77-120	1.000	144051	10/24/08	
1,2-Dichloroethane-d4	102	70-127	1.000	144051	10/24/08	
Toluene-d8	96	83-125	1.000	144051	10/24/08	
Bromofluorobenzene	104	78-120	1.000	144051	10/24/08	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	206926	Location:	MONTHLY
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	370176SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	PL-501-8C2	Batch#:	144051
Lab ID:	206926-003	Sampled:	10/15/08
Matrix:	Water	Received:	10/16/08
Units:	ug/L	Analyzed:	10/24/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	V9
Iodomethane	ND	10	V9
Acetone	ND	10	V9
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	V9
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	206926	Location:	MONTHLY
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	370176SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	PL-501-8C2	Batch#:	144051
Lab ID:	206926-003	Sampled:	10/15/08
Matrix:	Water	Received:	10/16/08
Units:	ug/L	Analyzed:	10/24/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	103	77-120	
1,2-Dichloroethane-d4	100	70-127	
Toluene-d8	97	83-125	
Bromofluorobenzene	102	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	206926	Location:	MONTHLY
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	370176SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	TB-101508	Batch#:	144051
Lab ID:	206926-004	Sampled:	10/15/08
Matrix:	Water	Received:	10/16/08
Units:	ug/L	Analyzed:	10/24/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	V9
Iodomethane	ND	10	V9
Acetone	ND	10	V9
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	V9
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	206926	Location:	MONTHLY
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	370176SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	TB-101508	Batch#:	144051
Lab ID:	206926-004	Sampled:	10/15/08
Matrix:	Water	Received:	10/16/08
Units:	ug/L	Analyzed:	10/24/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	104	77-120	
1,2-Dichloroethane-d4	110	70-127	
Toluene-d8	106	83-125	
Bromofluorobenzene	106	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	206926	Location:	MONTHLY
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	370176SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC466937	Batch#:	144051
Matrix:	Water	Analyzed:	10/24/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	V9
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	206926	Location:	MONTHLY
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	370176SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC466937	Batch#:	144051
Matrix:	Water	Analyzed:	10/24/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	103	77-120	
1,2-Dichloroethane-d4	102	70-127	
Toluene-d8	97	83-125	
Bromofluorobenzene	97	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	206926	Location:	MONTHLY
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	370176SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC466938	Batch#:	144051
Matrix:	Water	Analyzed:	10/24/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	V9
Iodomethane	ND	10	V9
Acetone	ND	10	V9
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	V9
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	206926	Location:	MONTHLY
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	370176SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC466938	Batch#:	144051
Matrix:	Water	Analyzed:	10/24/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	106	77-120	
1,2-Dichloroethane-d4	106	70-127	
Toluene-d8	95	83-125	
Bromofluorobenzene	99	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	206926	Location:	MONTHLY
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	370176SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC467122	Batch#:	144094
Matrix:	Water	Analyzed:	10/25/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V1
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	V1
Iodomethane	ND	10	V9
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	L1
Carbon Disulfide	ND	0.5	V1
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	V1
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	L1
Carbon Tetrachloride	ND	0.5	L1
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	L1

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	206926	Location:	MONTHLY
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	370176SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC467122	Batch#:	144094
Matrix:	Water	Analyzed:	10/25/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	L1
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	L1
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	L1
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	L1
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	L1

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	101	77-120	
1,2-Dichloroethane-d4	91	70-127	
Toluene-d8	102	83-125	
Bromofluorobenzene	111	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	206926	Location:	MONTHLY
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	370176SH.60.61.QS	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC466936	Batch#:	144051
Matrix:	Water	Analyzed:	10/24/08
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Freon 12	25.00	22.27	89	56-140	
Chloromethane	25.00	20.17	81	46-142	
Vinyl Chloride	25.00	26.32	105	49-136	
Bromomethane	25.00	21.22	85	42-154	
Chloroethane	25.00	22.59	90	51-133	
Trichlorofluoromethane	25.00	22.64	91	63-135	
Iodomethane	25.00	25.55 b	102	70-130	V9
Acetone	25.00	23.91	96	48-130	
1,1-Dichloroethene	25.00	24.62	98	68-133	
Methylene Chloride	25.00	25.92	104	71-120	
Carbon Disulfide	25.00	22.64	91	56-120	
MTBE	25.00	20.30	81	58-120	
trans-1,2-Dichloroethene	25.00	25.24	101	80-120	
Vinyl Acetate	25.00	21.74	87	63-124	
1,1-Dichloroethane	25.00	24.38	98	77-120	
2-Butanone	25.00	23.80	95	57-120	
cis-1,2-Dichloroethene	25.00	26.18	105	75-120	
2,2-Dichloropropane	25.00	26.78	107	72-128	
Chloroform	25.00	23.96	96	78-120	
Bromochloromethane	25.00	23.88	96	78-120	
1,1,1-Trichloroethane	25.00	24.50	98	78-120	
1,1-Dichloropropene	25.00	23.46	94	75-120	
Carbon Tetrachloride	25.00	23.81	95	80-120	
1,2-Dichloroethane	25.00	25.06	100	74-120	
Benzene	25.00	24.02	96	77-120	
Trichloroethene	25.00	24.27	97	78-122	
1,2-Dichloropropane	25.00	22.52	90	76-120	
Bromodichloromethane	25.00	24.81	99	78-120	
Dibromomethane	25.00	25.39	102	77-120	
4-Methyl-2-Pentanone	25.00	23.09	92	65-120	
cis-1,3-Dichloropropene	25.00	24.71	99	76-120	
Toluene	25.00	23.31	93	73-120	
trans-1,3-Dichloropropene	25.00	23.02	92	72-120	
1,1,2-Trichloroethane	25.00	24.53	98	76-120	
2-Hexanone	25.00	23.35	93	57-121	
1,3-Dichloropropane	25.00	24.95	100	75-120	
Tetrachloroethene	25.00	23.72	95	77-120	
Dibromochloromethane	25.00	24.18	97	76-120	

b= See narrative

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	206926	Location:	MONTHLY
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	370176SH.60.61.QS	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC466936	Batch#:	144051
Matrix:	Water	Analyzed:	10/24/08
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
1,2-Dibromoethane	25.00	25.30	101	77-120	
Chlorobenzene	25.00	24.12	96	78-120	
1,1,1,2-Tetrachloroethane	25.00	24.08	96	77-120	
Ethylbenzene	25.00	23.43	94	78-120	
m,p-Xylenes	50.00	48.14	96	77-120	
o-Xylene	25.00	23.28	93	77-120	
Styrene	25.00	24.16	97	77-120	
Bromoform	25.00	23.34	93	74-121	
Isopropylbenzene	25.00	22.14	89	71-120	
1,1,2,2-Tetrachloroethane	25.00	25.80	103	73-120	
1,2,3-Trichloropropane	25.00	25.88	104	72-120	
Propylbenzene	25.00	25.22	101	76-120	
Bromobenzene	25.00	25.73	103	75-120	
1,3,5-Trimethylbenzene	25.00	25.42	102	77-120	
2-Chlorotoluene	25.00	24.62	98	76-120	
4-Chlorotoluene	25.00	23.91	96	78-120	
tert-Butylbenzene	25.00	24.22	97	76-120	
1,2,4-Trimethylbenzene	25.00	26.42	106	77-120	
sec-Butylbenzene	25.00	24.50	98	80-120	
para-Isopropyl Toluene	25.00	23.78	95	76-120	
1,3-Dichlorobenzene	25.00	24.60	98	75-120	
1,4-Dichlorobenzene	25.00	23.87	95	77-120	
n-Butylbenzene	25.00	25.41	102	76-120	
1,2-Dichlorobenzene	25.00	24.44	98	76-120	
1,2-Dibromo-3-Chloropropane	25.00	24.46	98	65-120	
1,2,4-Trichlorobenzene	25.00	25.39	102	73-121	
Hexachlorobutadiene	25.00	25.02	100	73-123	
Naphthalene	25.00	25.53	102	62-121	
1,2,3-Trichlorobenzene	25.00	25.63	103	66-123	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	104	77-120	
1,2-Dichloroethane-d4	107	70-127	
Toluene-d8	100	83-125	
Bromofluorobenzene	110	78-120	

b= See narrative

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	206926	Location:	MONTHLY
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	370176SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	144051
MSS Lab ID:	206918-001	Sampled:	10/15/08
Matrix:	Water	Received:	10/15/08
Units:	ug/L	Analyzed:	10/24/08
Diln Fac:	1.000		

Type: MS Lab ID: QC466954

Analyte	MSS Result	Spiked	Result	%REC	Limits	ADEQ Flags
Freon 12	<0.2000	25.00	27.02	108	56-140	
Chloromethane	<0.2000	25.00	21.10	84	46-142	
Vinyl Chloride	<0.1394	25.00	28.98	116	49-136	
Bromomethane	<0.2000	25.00	23.66	95	42-154	
Chloroethane	<0.2153	25.00	24.90	100	51-133	
Trichlorofluoromethane	<0.2000	25.00	29.50	118	63-135	
Iodomethane	<2.000	25.00	26.18 b	105	60-140	V9
Acetone	1.614	25.00	20.72	76	48-130	
1,1-Dichloroethene	<0.1391	25.00	27.17	109	68-133	
Methylene Chloride	<1.000	25.00	26.33	105	71-120	
Carbon Disulfide	<0.1000	25.00	24.44	98	56-120	
MTBE	<0.1000	25.00	20.41	82	58-120	
trans-1,2-Dichloroethene	<0.1082	25.00	25.64	103	80-120	
Vinyl Acetate	<2.000	25.00	21.90	88	63-124	
1,1-Dichloroethane	<0.1000	25.00	25.12	100	77-120	
2-Butanone	<2.000	25.00	24.22	97	57-120	
cis-1,2-Dichloroethene	0.7024	25.00	26.98	105	75-120	
2,2-Dichloropropane	<0.1021	25.00	30.13	121	72-128	
Chloroform	<0.1048	25.00	25.39	102	78-120	
Bromochloromethane	<0.1195	25.00	25.45	102	78-120	
1,1,1-Trichloroethane	<0.1358	25.00	27.40	110	78-120	
1,1-Dichloropropene	<0.1367	25.00	24.75	99	75-120	
Carbon Tetrachloride	<0.1295	25.00	26.27	105	80-120	
1,2-Dichloroethane	<0.1080	25.00	25.62	102	74-120	
Benzene	<0.1000	25.00	25.82	103	77-120	
Trichloroethene	0.2202	25.00	26.55	105	78-122	
1,2-Dichloropropane	<0.1143	25.00	25.55	102	76-120	
Bromodichloromethane	<0.1539	25.00	26.05	104	78-120	
Dibromomethane	<0.1298	25.00	25.87	103	77-120	
4-Methyl-2-Pentanone	<2.000	25.00	24.04	96	65-120	
cis-1,3-Dichloropropene	<0.1420	25.00	25.82	103	76-120	
Toluene	<0.1116	25.00	24.80	99	73-120	
trans-1,3-Dichloropropene	<0.1000	25.00	23.28	93	72-120	
1,1,2-Trichloroethane	<0.1347	25.00	25.68	103	76-120	
2-Hexanone	<2.000	25.00	23.02	92	57-121	
1,3-Dichloropropane	<0.1000	25.00	23.73	95	75-120	
Tetrachloroethene	<0.1217	25.00	26.11	104	77-120	
Dibromochloromethane	<0.1230	25.00	25.69	103	76-120	
1,2-Dibromoethane	<0.1000	25.00	25.55	102	77-120	
Chlorobenzene	<0.1000	25.00	24.72	99	78-120	
1,1,1,2-Tetrachloroethane	<0.1000	25.00	25.27	101	77-120	
Ethylbenzene	<0.1000	25.00	25.66	103	78-120	
m,p-Xylenes	<0.1581	50.00	52.48	105	77-120	
o-Xylene	<0.1000	25.00	25.87	103	77-120	
Styrene	<0.1000	25.00	26.06	104	77-120	
Bromoform	<0.2000	25.00	25.43	102	74-121	
Isopropylbenzene	<0.1000	25.00	23.08	92	71-120	
1,1,2,2-Tetrachloroethane	<0.1281	25.00	26.15	105	73-120	
1,2,3-Trichloropropane	<0.1000	25.00	26.35	105	72-120	

b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	206926	Location:	MONTHLY
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	370176SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	144051
MSS Lab ID:	206918-001	Sampled:	10/15/08
Matrix:	Water	Received:	10/15/08
Units:	ug/L	Analyzed:	10/24/08
Diln Fac:	1.000		

Analyte	MSS Result	Spiked	Result	%REC	Limits	ADEQ Flags
Propylbenzene	<0.1000	25.00	26.44	106	76-120	
Bromobenzene	<0.1006	25.00	24.87	99	75-120	
1,3,5-Trimethylbenzene	<0.1000	25.00	25.68	103	77-120	
2-Chlorotoluene	<0.1000	25.00	25.54	102	76-120	
4-Chlorotoluene	<0.1000	25.00	24.36	97	78-120	
tert-Butylbenzene	<0.1000	25.00	24.73	99	76-120	
1,2,4-Trimethylbenzene	<0.1000	25.00	27.53	110	77-120	
sec-Butylbenzene	<0.1000	25.00	24.81	99	80-120	
para-Isopropyl Toluene	<0.1256	25.00	23.73	95	76-120	
1,3-Dichlorobenzene	<0.1000	25.00	23.49	94	75-120	
1,4-Dichlorobenzene	<0.1000	25.00	23.61	94	77-120	
n-Butylbenzene	<0.1458	25.00	25.55	102	76-120	
1,2-Dichlorobenzene	<0.1000	25.00	25.61	102	76-120	
1,2-Dibromo-3-Chloropropane	<0.5389	25.00	25.13	101	65-120	
1,2,4-Trichlorobenzene	0.1117	25.00	24.03	96	73-121	
Hexachlorobutadiene	<0.4000	25.00	22.55	90	73-123	
Naphthalene	<0.4000	25.00	27.24	109	62-121	
1,2,3-Trichlorobenzene	<0.1000	25.00	24.07	96	66-123	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	104	77-120	
1,2-Dichloroethane-d4	107	70-127	
Toluene-d8	102	83-125	
Bromofluorobenzene	104	78-120	

b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	206926	Location:	MONTHLY
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	370176SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	144051
MSS Lab ID:	206918-001	Sampled:	10/15/08
Matrix:	Water	Received:	10/15/08
Units:	ug/L	Analyzed:	10/24/08
Diln Fac:	1.000		

Type: MSD Lab ID: QC466955

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
Freon 12	25.00	26.99	108	56-140	0	24	
Chloromethane	25.00	23.70	95	46-142	12	24	
Vinyl Chloride	25.00	31.04	124	49-136	7	24	
Bromomethane	25.00	25.52	102	42-154	8	24	
Chloroethane	25.00	26.00	104	51-133	4	25	
Trichlorofluoromethane	25.00	29.30	117	63-135	1	20	
Iodomethane	25.00	28.69 b	115	60-140	9	30	V9
Acetone	25.00	22.28	83	48-130	7	41	
1,1-Dichloroethene	25.00	28.42	114	68-133	5	20	
Methylene Chloride	25.00	26.99	108	71-120	2	20	
Carbon Disulfide	25.00	25.94	104	56-120	6	20	
MTBE	25.00	21.45	86	58-120	5	21	
trans-1,2-Dichloroethene	25.00	26.66	107	80-120	4	24	
Vinyl Acetate	25.00	22.07	88	63-124	1	24	
1,1-Dichloroethane	25.00	26.24	105	77-120	4	20	
2-Butanone	25.00	22.13	89	57-120	9	32	
cis-1,2-Dichloroethene	25.00	29.17	114	75-120	8	20	
2,2-Dichloropropane	25.00	29.34	117	72-128	3	24	
Chloroform	25.00	25.98	104	78-120	2	20	
Bromochloromethane	25.00	25.74	103	78-120	1	20	
1,1,1-Trichloroethane	25.00	27.06	108	78-120	1	20	
1,1-Dichloropropene	25.00	26.34	105	75-120	6	21	
Carbon Tetrachloride	25.00	27.73	111	80-120	5	21	
1,2-Dichloroethane	25.00	25.44	102	74-120	1	20	
Benzene	25.00	26.03	104	77-120	1	20	
Trichloroethene	25.00	26.33	104	78-122	1	20	
1,2-Dichloropropane	25.00	24.10	96	76-120	6	20	
Bromodichloromethane	25.00	25.93	104	78-120	0	20	
Dibromomethane	25.00	25.26	101	77-120	2	20	
4-Methyl-2-Pentanone	25.00	22.04	88	65-120	9	22	
cis-1,3-Dichloropropene	25.00	24.65	99	76-120	5	20	
Toluene	25.00	25.40	102	73-120	2	20	
trans-1,3-Dichloropropene	25.00	23.82	95	72-120	2	20	
1,1,2-Trichloroethane	25.00	26.43	106	76-120	3	20	
2-Hexanone	25.00	23.35	93	57-121	1	25	
1,3-Dichloropropane	25.00	26.36	105	75-120	11	20	
Tetrachloroethene	25.00	27.12	108	77-120	4	20	
Dibromochloromethane	25.00	25.93	104	76-120	1	20	
1,2-Dibromoethane	25.00	25.69	103	77-120	1	20	
Chlorobenzene	25.00	25.13	101	78-120	2	20	
1,1,1,2-Tetrachloroethane	25.00	25.95	104	77-120	3	20	
Ethylbenzene	25.00	26.49	106	78-120	3	26	
m,p-Xylenes	50.00	49.65	99	77-120	6	20	
o-Xylene	25.00	25.49	102	77-120	1	20	
Styrene	25.00	26.71	107	77-120	2	20	
Bromoform	25.00	24.94	100	74-121	2	21	
Isopropylbenzene	25.00	22.76	91	71-120	1	20	
1,1,2,2-Tetrachloroethane	25.00	24.87	99	73-120	5	20	
1,2,3-Trichloropropane	25.00	24.85	99	72-120	6	20	

b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	206926	Location:	MONTHLY
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	370176SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	144051
MSS Lab ID:	206918-001	Sampled:	10/15/08
Matrix:	Water	Received:	10/15/08
Units:	ug/L	Analyzed:	10/24/08
Diln Fac:	1.000		

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
Propylbenzene	25.00	25.93	104	76-120	2	20	
Bromobenzene	25.00	25.93	104	75-120	4	20	
1,3,5-Trimethylbenzene	25.00	24.62	98	77-120	4	20	
2-Chlorotoluene	25.00	24.99	100	76-120	2	20	
4-Chlorotoluene	25.00	24.08	96	78-120	1	20	
tert-Butylbenzene	25.00	24.18	97	76-120	2	21	
1,2,4-Trimethylbenzene	25.00	25.88	104	77-120	6	20	
sec-Butylbenzene	25.00	25.58	102	80-120	3	21	
para-Isopropyl Toluene	25.00	24.43	98	76-120	3	20	
1,3-Dichlorobenzene	25.00	23.76	95	75-120	1	20	
1,4-Dichlorobenzene	25.00	24.13	97	77-120	2	23	
n-Butylbenzene	25.00	26.60	106	76-120	4	21	
1,2-Dichlorobenzene	25.00	24.86	99	76-120	3	20	
1,2-Dibromo-3-Chloropropane	25.00	23.97	96	65-120	5	22	
1,2,4-Trichlorobenzene	25.00	24.27	97	73-121	1	20	
Hexachlorobutadiene	25.00	24.16	97	73-123	7	25	
Naphthalene	25.00	26.50	106	62-121	3	32	
1,2,3-Trichlorobenzene	25.00	25.16	101	66-123	4	29	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	106	77-120	
1,2-Dichloroethane-d4	109	70-127	
Toluene-d8	99	83-125	
Bromofluorobenzene	101	78-120	

b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	206926	Location:	MONTHLY
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	370176SH.60.61.QS	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	144094
Units:	ug/L	Analyzed:	10/25/08
Diln Fac:	1.000		

Type: BS Lab ID: QC467123

Analyte	Spiked	Result		%REC		Limits	ADEQ Flags
Freon 12	25.00	25.69	b	103		56-140	V3
Chloromethane	25.00	21.15		85		46-142	
Vinyl Chloride	25.00	31.14		125		49-136	
Bromomethane	25.00	23.89		96		42-154	
Chloroethane	25.00	27.11		108		51-133	
Trichlorofluoromethane	25.00	28.84	b	115		63-135	V3
Iodomethane	25.00	18.90	b	76		70-130	V9
Acetone	25.00	28.38		114		48-130	
1,1-Dichloroethene	25.00	32.44		130		68-133	
Methylene Chloride	25.00	31.98		128	*	71-120	L1
Carbon Disulfide	25.00	28.97	b	116		56-120	V3
MTBE	25.00	20.79		83		58-120	
trans-1,2-Dichloroethene	25.00	25.54		102		80-120	
Vinyl Acetate	25.00	22.72		91		63-124	
1,1-Dichloroethane	25.00	23.41		94		77-120	
2-Butanone	25.00	24.58		98		57-120	
cis-1,2-Dichloroethene	25.00	24.11		96		75-120	
2,2-Dichloropropane	25.00	30.87	b	123		72-128	V3
Chloroform	25.00	23.24		93		78-120	
Bromochloromethane	25.00	25.24		101		78-120	
1,1,1-Trichloroethane	25.00	25.75		103		78-120	
1,1-Dichloropropene	25.00	30.18		121	*	75-120	L1
Carbon Tetrachloride	25.00	30.69		123	*	80-120	L1
1,2-Dichloroethane	25.00	25.85		103		74-120	
Benzene	25.00	27.64		111		77-120	
Trichloroethene	25.00	27.28		109		78-122	
1,2-Dichloropropane	25.00	24.36		97		76-120	
Bromodichloromethane	25.00	27.82		111		78-120	
Dibromomethane	25.00	26.91		108		77-120	
4-Methyl-2-Pentanone	25.00	25.01		100		65-120	
cis-1,3-Dichloropropene	25.00	28.58		114		76-120	
Toluene	25.00	27.10		108		73-120	
trans-1,3-Dichloropropene	25.00	25.31		101		72-120	
1,1,2-Trichloroethane	25.00	26.63		107		76-120	
2-Hexanone	25.00	24.78		99		57-121	
1,3-Dichloropropane	25.00	27.18		109		75-120	
Tetrachloroethene	25.00	30.79		123	*	77-120	L1
Dibromochloromethane	25.00	27.42		110		76-120	
1,2-Dibromoethane	25.00	26.72		107		77-120	
Chlorobenzene	25.00	25.66		103		78-120	
1,1,1,2-Tetrachloroethane	25.00	27.83		111		77-120	
Ethylbenzene	25.00	28.51		114		78-120	
m,p-Xylenes	50.00	57.31		115		77-120	
o-Xylene	25.00	27.49		110		77-120	
Styrene	25.00	27.24		109		77-120	
Bromoform	25.00	30.57		122	*	74-121	L1
Isopropylbenzene	25.00	26.31		105		71-120	
1,1,2,2-Tetrachloroethane	25.00	27.73		111		73-120	
1,2,3-Trichloropropane	25.00	27.20		109		72-120	
Propylbenzene	25.00	28.46		114		76-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	206926	Location:	MONTHLY
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	370176SH.60.61.QS	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	144094
Units:	ug/L	Analyzed:	10/25/08
Diln Fac:	1.000		

Analyte	Spiked	Result	%REC		Limits	ADEQ Flags
Bromobenzene	25.00	28.21	113		75-120	
1,3,5-Trimethylbenzene	25.00	29.92	120		77-120	
2-Chlorotoluene	25.00	28.10	112		76-120	
4-Chlorotoluene	25.00	27.43	110		78-120	
tert-Butylbenzene	25.00	28.09	112		76-120	
1,2,4-Trimethylbenzene	25.00	29.24	117		77-120	
sec-Butylbenzene	25.00	29.96	120		80-120	
para-Isopropyl Toluene	25.00	28.24	113		76-120	
1,3-Dichlorobenzene	25.00	29.63	119		75-120	
1,4-Dichlorobenzene	25.00	27.80	111		77-120	
n-Butylbenzene	25.00	31.11	124	*	76-120	L1
1,2-Dichlorobenzene	25.00	28.94	116		76-120	
1,2-Dibromo-3-Chloropropane	25.00	26.20	105		65-120	
1,2,4-Trichlorobenzene	25.00	27.67	111		73-121	
Hexachlorobutadiene	25.00	32.45	130	*	73-123	L1
Naphthalene	25.00	25.59	102		62-121	
1,2,3-Trichlorobenzene	25.00	30.09	120		66-123	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	97	77-120	
1,2-Dichloroethane-d4	91	70-127	
Toluene-d8	104	83-125	
Bromofluorobenzene	95	78-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	206926	Location:	MONTHLY
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	370176SH.60.61.QS	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	144094
Units:	ug/L	Analyzed:	10/25/08
Diln Fac:	1.000		

Type: BSD Lab ID: QC467124

Analyte	Spiked	Result		%REC		Limits	RPD	Lim	ADEQ Flags
Freon 12	25.00	24.57	b	98		56-140	4	24	V3
Chloromethane	25.00	21.08		84		46-142	0	24	
Vinyl Chloride	25.00	30.28		121		49-136	3	24	
Bromomethane	25.00	24.80		99		42-154	4	24	
Chloroethane	25.00	26.38		106		51-133	3	25	
Trichlorofluoromethane	25.00	27.46	b	110		63-135	5	20	V3
Iodomethane	25.00	19.77	b	79		70-130	5	20	V9
Acetone	25.00	25.22		101		48-130	12	41	
1,1-Dichloroethene	25.00	30.75		123		68-133	5	20	
Methylene Chloride	25.00	31.12		124	*	71-120	3	20	L1
Carbon Disulfide	25.00	28.35	b	113		56-120	2	20	V3
MTBE	25.00	20.65		83		58-120	1	21	
trans-1,2-Dichloroethene	25.00	25.09		100		80-120	2	24	
Vinyl Acetate	25.00	22.96		92		63-124	1	24	
1,1-Dichloroethane	25.00	24.31		97		77-120	4	20	
2-Butanone	25.00	23.04		92		57-120	6	32	
cis-1,2-Dichloroethene	25.00	23.18		93		75-120	4	20	
2,2-Dichloropropane	25.00	29.95	b	120		72-128	3	24	V3
Chloroform	25.00	23.08		92		78-120	1	20	
Bromochloromethane	25.00	24.89		100		78-120	1	20	
1,1,1-Trichloroethane	25.00	24.70		99		78-120	4	20	
1,1-Dichloropropene	25.00	29.46		118		75-120	2	21	
Carbon Tetrachloride	25.00	29.49		118		80-120	4	21	
1,2-Dichloroethane	25.00	24.91		100		74-120	4	20	
Benzene	25.00	27.24		109		77-120	1	20	
Trichloroethene	25.00	26.95		108		78-122	1	20	
1,2-Dichloropropane	25.00	24.08		96		76-120	1	20	
Bromodichloromethane	25.00	26.79		107		78-120	4	20	
Dibromomethane	25.00	25.54		102		77-120	5	20	
4-Methyl-2-Pentanone	25.00	24.46		98		65-120	2	22	
cis-1,3-Dichloropropene	25.00	27.64		111		76-120	3	20	
Toluene	25.00	26.47		106		73-120	2	20	
trans-1,3-Dichloropropene	25.00	24.02		96		72-120	5	20	
1,1,2-Trichloroethane	25.00	27.39		110		76-120	3	20	
2-Hexanone	25.00	24.48		98		57-121	1	25	
1,3-Dichloropropane	25.00	27.27		109		75-120	0	20	
Tetrachloroethene	25.00	30.90		124	*	77-120	0	20	L1
Dibromochloromethane	25.00	28.83		115		76-120	5	20	
1,2-Dibromoethane	25.00	26.47		106		77-120	1	20	
Chlorobenzene	25.00	26.27		105		78-120	2	20	
1,1,1,2-Tetrachloroethane	25.00	28.74		115		77-120	3	20	
Ethylbenzene	25.00	29.74		119		78-120	4	26	
m,p-Xylenes	50.00	61.03		122	*	77-120	6	20	L1
o-Xylene	25.00	28.72		115		77-120	4	20	
Styrene	25.00	29.67		119		77-120	9	20	
Bromoform	25.00	30.80		123	*	74-121	1	21	L1
Isopropylbenzene	25.00	25.82		103		71-120	2	20	
1,1,2,2-Tetrachloroethane	25.00	27.49		110		73-120	1	20	
1,2,3-Trichloropropane	25.00	26.78		107		72-120	2	20	
Propylbenzene	25.00	29.08		116		76-120	2	20	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	206926	Location:	MONTHLY
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	370176SH.60.61.QS	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	144094
Units:	ug/L	Analyzed:	10/25/08
Diln Fac:	1.000		

Analyte	Spiked	Result	%REC		Limits	RPD	Lim	ADEQ Flags
Bromobenzene	25.00	28.01	112		75-120	1	20	
1,3,5-Trimethylbenzene	25.00	29.91	120		77-120	0	20	
2-Chlorotoluene	25.00	28.33	113		76-120	1	20	
4-Chlorotoluene	25.00	25.63	103		78-120	7	20	
tert-Butylbenzene	25.00	27.32	109		76-120	3	21	
1,2,4-Trimethylbenzene	25.00	30.51	122	*	77-120	4	20	L1
sec-Butylbenzene	25.00	29.49	118		80-120	2	21	
para-Isopropyl Toluene	25.00	28.42	114		76-120	1	20	
1,3-Dichlorobenzene	25.00	27.48	110		75-120	8	20	
1,4-Dichlorobenzene	25.00	26.81	107		77-120	4	23	
n-Butylbenzene	25.00	29.38	118		76-120	6	21	
1,2-Dichlorobenzene	25.00	27.78	111		76-120	4	20	
1,2-Dibromo-3-Chloropropane	25.00	25.23	101		65-120	4	22	
1,2,4-Trichlorobenzene	25.00	27.70	111		73-121	0	20	
Hexachlorobutadiene	25.00	30.70	123		73-123	6	25	
Naphthalene	25.00	26.03	104		62-121	2	32	
1,2,3-Trichlorobenzene	25.00	30.82	123		66-123	2	29	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	99	77-120	
1,2-Dichloroethane-d4	90	70-127	
Toluene-d8	104	83-125	
Bromofluorobenzene	96	78-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

CURTIS & TOMPKINS BFB TUNE FOR 206926 MSVOA Water
EPA 8260B

Inst : MSVOA05 Run Name : BFB IDF : 1.0
Seqnum : 448403675011 File : ej611 Time : 06-OCT-2008 15:43

Standards: S9454

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	7404	19.98	
75	30% - 60% of mass 95	16089	43.41	
95		37064		
96	5% - 9% of mass 95	2133	5.75	
173	< 2% of mass 174	66	0.22	
174	> 50% and < 100% of mass 95	30037	81.04	
175	5% - 9% of mass 174	2271	7.56	
176	> 95% and < 101% of mass 174	30302	100.88	
177	5% - 9% of mass 176	2062	6.80	

Analyst: BO Date: 10/07/08 Reviewer: ACM Date: 10/08/08

CURTIS & TOMPKINS BFB TUNE FOR 206926 MSVOA Water
EPA 8260B

Inst : MSVOA05 Run Name : BFB IDF : 1.0
Seqnum : 448405106007 File : ej707 Time : 07-OCT-2008 11:42

Standards: S9454

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	3503	19.53	
75	30% - 60% of mass 95	7712	43.00	
95		17936		
96	5% - 9% of mass 95	1252	6.98	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	15646	87.23	
175	5% - 9% of mass 174	1208	7.72	
176	> 95% and < 101% of mass 174	15734	100.56	
177	5% - 9% of mass 176	1098	6.98	

Analyst: BO Date: 10/07/08 Reviewer: ACM Date: 10/08/08

CURTIS & TOMPKINS BFB TUNE FOR 206926 MSVOA Water
EPA 8260B

Inst : MSVOA05 Run Name : BFB IDF : 1.0
Seqnum : 448429597002 File : ejo02 Time : 24-OCT-2008 08:28

Standards: S9454

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	8871	18.56	
75	30% - 60% of mass 95	21199	44.36	
95		47784		
96	5% - 9% of mass 95	3347	7.00	
173	< 2% of mass 174	86	0.20	
174	> 50% and < 100% of mass 95	42317	88.56	
175	5% - 9% of mass 174	3150	7.44	
176	> 95% and < 101% of mass 174	41973	99.19	
177	5% - 9% of mass 176	2890	6.89	

Analyst: BO Date: 10/24/08 Reviewer: ACM Date: 10/27/08

CURTIS & TOMPKINS BFB TUNE FOR 206926 MSVOA Water
EPA 8260B

Inst : MSVOA05 Run Name : BFB IDF : 1.0
Seqnum : 448431344002 File : ejp02 Time : 25-OCT-2008 13:33

Standards: S9454

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	6757	17.54	
75	30% - 60% of mass 95	16212	42.09	
95		38520		
96	5% - 9% of mass 95	2281	5.92	
173	< 2% of mass 174	80	0.23	
174	> 50% and < 100% of mass 95	34962	90.76	
175	5% - 9% of mass 174	2614	7.48	
176	> 95% and < 101% of mass 174	34157	97.70	
177	5% - 9% of mass 176	2374	6.95	

Analyst: BO Date: 10/27/08 Reviewer: ACM Date: 10/27/08

CURTIS & TOMPKINS BFB TUNE FOR 206926 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 458419546010 File : fjh10 Time : 17-OCT-2008 15:50

Standards: S9454

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	19085	17.64	
75	30% - 60% of mass 95	44701	41.32	
95		108176		
96	5% - 9% of mass 95	7769	7.18	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	96637	89.33	
175	5% - 9% of mass 174	7140	7.39	
176	> 95% and < 101% of mass 174	93397	96.65	
177	5% - 9% of mass 176	6047	6.47	

Analyst: BO Date: 10/20/08 Reviewer: LW Date: 10/20/08

CURTIS & TOMPKINS BFB TUNE FOR 206926 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 458423841002 File : fjk02 Time : 20-OCT-2008 08:45

Standards: S9454

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	73128	17.23	
75	30% - 60% of mass 95	172864	40.72	
95		424512		
96	5% - 9% of mass 95	29816	7.02	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	378816	89.24	
175	5% - 9% of mass 174	21904	5.78	
176	> 95% and < 101% of mass 174	367616	97.04	
177	5% - 9% of mass 176	24480	6.66	

Analyst: BO Date: 10/20/08 Reviewer: LW Date: 10/20/08

CURTIS & TOMPKINS BFB TUNE FOR 206926 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 458429605002 File : fjo02 Time : 24-OCT-2008 08:51

Standards: S9454

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	30245	17.02	
75	30% - 60% of mass 95	69250	38.97	
95		177691		
96	5% - 9% of mass 95	11950	6.73	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	153856	86.59	
175	5% - 9% of mass 174	12464	8.10	
176	> 95% and < 101% of mass 174	150634	97.91	
177	5% - 9% of mass 176	9986	6.63	

Analyst: BO Date: 10/27/08 Reviewer: ACM Date: 10/27/08

CURTIS & TOMPKINS BFB TUNE FOR 206926 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 458429605012 File : fjo12 Time : 24-OCT-2008 14:30

Standards: S9454

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	21869	16.90	
75	30% - 60% of mass 95	51978	40.18	
95		129368		
96	5% - 9% of mass 95	8801	6.80	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	107864	83.38	
175	5% - 9% of mass 174	8386	7.77	
176	> 95% and < 101% of mass 174	105029	97.37	
177	5% - 9% of mass 176	6722	6.40	

Analyst: BO Date: 10/27/08 Reviewer: ACM Date: 10/27/08

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 206926 MSVOA Water: EPA 8260B

Inst : MSVOA05 Name : 826GOX5
Calnum : 448403675001 Date : 06-OCT-2008 18:22 Type : WATER
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	ej616	448403675016	0.25/0.5PPB	06-OCT-2008 18:22	S10323 (2000000X), S10060 (2000000X), S9073 (2000000X), S10155 (1000000X), S10151 (5000X)
L2	ej617	448403675017	0.5/1PPB	06-OCT-2008 18:54	S10323 (1000000X), S10060 (1000000X), S9073 (1000000X), S10155 (500000X), S10151 (5000X)
L3	ej618	448403675018	2PPB	06-OCT-2008 19:26	S10323 (250000X), S10060 (250000X), S9073 (500000X), S10155 (250000X), S10151 (5000X)
L4	ej619	448403675019	5PPB	06-OCT-2008 19:58	S10323 (100000X), S10060 (100000X), S9073 (200000X), S10155 (100000X), S10151 (5000X)
L5	ej620	448403675020	10PPB	06-OCT-2008 20:30	S10323 (50000X), S10060 (50000X), S9073 (100000X), S10155 (50000X), S10151 (5000X)
L6	ej621	448403675021	20PPB	06-OCT-2008 21:02	S10323 (25000X), S10060 (25000X), S9073 (50000X), S10155 (25000X), S10151 (5000X)
L7	ej622	448403675022	50PPB	06-OCT-2008 21:34	S10323 (10000X), S10060 (10000X), S9073 (20000X), S10155 (10000X), S10151 (5000X)
L8	ej623	448403675023	75PPB	06-OCT-2008 22:06	S10323 (6667X), S10060 (6667X), S9073 (13330X), S10155 (6667X), S10151 (5000X)
L9	ej624	448403675024	100PPB	06-OCT-2008 22:39	S10323 (5000X), S10060 (5000X), S9073 (10000X), S10155 (5000X), S10151 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.6791m	0.6679m	0.6454m	0.4548m	0.5492	0.7264	0.7412	0.7202	AVRG		1.54317		0.6480	15	15	0.05	0.99	
Chloromethane		0.7438m	0.7555m	0.6256m	0.6095m	0.6345m	0.5994m	0.5451m	0.5597m	AVRG		1.57692		0.6341	12	15	0.10	0.99	
Vinyl Chloride	0.6187m	0.4631m	0.4879m	0.4485m	0.3895m	0.4477m	0.4920	0.4885	0.4859	AVRG		2.08251		0.4802	13	15	0.05	0.99	
Bromomethane		0.3412m	0.3519m	0.3428m	0.3095	0.3514	0.3592	0.3470	0.3767	AVRG		2.87795		0.3475	5	15	0.05	0.99	
Chloroethane		0.2213m	0.2757m	0.2651m	0.2398m	0.2425	0.2562	0.2514m	0.2523m	AVRG		3.99148		0.2505	7	15	0.05	0.99	
Trichlorofluoromethane		0.6982	0.7217	0.6642	0.5019	0.6007	0.7528	0.8060	0.7705	AVRG		1.45034		0.6895	14	15	0.05	0.99	
Acetone			0.2974	0.2398	0.2364	0.2333	0.2157	0.2100	0.2340	AVRG		4.20018		0.2381	12	15	0.05	0.99	
1,1-Dichloroethene		0.2912	0.2784	0.3028	0.3001	0.2988	0.3062	0.2781	0.2903	AVRG		3.41026		0.2932	4	15	0.05	0.99	
Iodomethane				0.3682	0.4279	0.4756	0.5452	0.5036	0.5093	AVRG		2.12033		0.4716	14	15	0.05	0.99	
Methylene Chloride			0.4789	0.4232	0.4423	0.4377	0.4172	0.5041	0.3883	AVRG		2.26412		0.4417	9	15	0.05	0.99	
Carbon Disulfide		1.0873m	1.0318	1.0869	1.0861	1.1109	1.0842	1.0246	1.0714	AVRG		0.93204		1.0729	3	15	0.05	0.99	
MTBE		1.6596	1.8293	1.6466	1.7650	1.7638	1.6522	1.6009	1.5895	AVRG		0.59229		1.6884	5	15	0.05	0.99	
trans-1,2-Dichloroethene		0.4989	0.4808	0.4572	0.4786	0.4744	0.4494	0.4354	0.4304	AVRG		2.15921		0.4631	5	15	0.05	0.99	
Vinyl Acetate			1.5249	1.4296	1.3751	1.4436	1.2457	1.3937	1.3357	AVRG		0.71808		1.3926	6	15	0.05	0.99	
1,1-Dichloroethane		0.9232	0.9196	0.8626	0.8915	0.9058	0.8292	0.7973	0.7632	AVRG		1.16070		0.8615	7	15	0.10	0.99	
2-Butanone			0.4292	0.4011	0.4333	0.4267	0.3927	0.3775	0.3989	AVRG		2.44809		0.4085	5	15	0.05	0.99	
2,2-Dichloropropane		0.5707	0.5111	0.5074	0.5151	0.5103	0.4892	0.4738	0.4604	AVRG		1.98120		0.5047	7	15	0.05	0.99	
cis-1,2-Dichloroethene		0.5585	0.5686	0.5495	0.5863	0.5476	0.5062	0.4903	0.4984	AVRG		1.85808		0.5382	7	15	0.05	0.99	
Chloroform		1.0305	1.0423	1.0018	0.9840	0.9924	0.9284	0.8400	0.8279	AVRG		1.04611		0.9559	9	15	0.05	0.99	
Bromochloromethane		0.2368	0.2629	0.2537	0.2645	0.2672	0.2447	0.2272	0.2194	AVRG		4.04780		0.2470	7	15	0.05	0.99	
1,1,1-Trichloroethane		0.7446	0.6273	0.7293	0.6873	0.6814	0.6796	0.6456	0.6354	AVRG		1.47318		0.6788	6	15	0.05	0.99	
1,1-Dichloropropene		0.3865	0.3740	0.3958	0.4200	0.3879	0.3761	0.4018	0.3614	AVRG		2.57780		0.3879	5	15	0.05	0.99	
Carbon Tetrachloride		0.3886	0.3327	0.3679	0.3854	0.3722	0.3529	0.3856	0.3598	AVRG		2.71642		0.3681	5	15	0.05	0.99	
1,2-Dichloroethane		0.5552	0.5768	0.5333	0.5636	0.5308	0.4952	0.4925	0.4619	AVRG		1.90061		0.5261	8	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		1.3138	1.2277	1.1898	1.2524	1.2347	1.1080	1.0952	1.0240	AVRG		0.84695		1.1807	8	15	0.05	0.99	
Trichloroethene		0.3597	0.3572	0.3436	0.3562	0.3442	0.3326	0.3321	0.3123	AVRG		2.92176		0.3423	5	15	0.05	0.99	
1,2-Dichloropropane		0.3899m	0.3764	0.3560	0.3725	0.3607	0.3321	0.3278	0.3228	AVRG		2.81871		0.3548	7	15	0.05	0.99	
Bromodichloromethane		0.5028	0.5422	0.5082	0.5421	0.5346	0.4846	0.4940	0.4798	AVRG		1.95668		0.5111	5	15	0.05	0.99	
Dibromomethane		0.3584	0.3009	0.2888	0.3185	0.3112	0.2806	0.2844	0.2771	AVRG		3.30594		0.3025	9	15	0.05	0.99	
4-Methyl-2-Pentanone			0.5666	0.5019	0.5727	0.5624	0.5205	0.5617	0.5475	AVRG		1.82608		0.5476	5	15	0.05	0.99	
cis-1,3-Dichloropropene		0.5377	0.5293	0.5231	0.5497	0.5772	0.5119	0.5111	0.4712	AVRG		1.89970		0.5264	6	15	0.05	0.99	
Toluene		0.7456	0.6582	0.6705	0.7673	0.7042	0.6841	0.6758	0.6010	AVRG		1.45279		0.6883	8	15	0.05	0.99	
trans-1,3-Dichloropropene		0.5402	0.5374	0.5223	0.5488	0.5488	0.5124	0.5414	0.4969	AVRG		1.88317		0.5310	4	15	0.05	0.99	
1,1,2-Trichloroethane		0.1891	0.1952	0.1914	0.2061	0.1997	0.1885	0.1886	0.1795	AVRG		5.20162		0.1922	4	15	0.05	0.99	
2-Hexanone			0.4680	0.4484	0.4779	0.4827	0.4622	0.4692	0.4597	AVRG		2.14189		0.4669	2	15	0.05	0.99	
1,3-Dichloropropane		0.6724	0.6944	0.6525	0.6679	0.6831	0.6362	0.6237	0.5963	AVRG		1.53068		0.6533	5	15	0.05	0.99	
Tetrachloroethene		0.3731	0.3411	0.3406	0.3609	0.3413	0.3360	0.3720	0.3325	AVRG		2.85965		0.3497	5	15	0.05	0.99	
Dibromochloromethane		0.4160	0.4499	0.4329	0.4632	0.4845	0.4436	0.4797	0.4628	AVRG		2.20235		0.4541	5	15	0.05	0.99	
1,2-Dibromoethane		0.3634	0.4113	0.3934	0.3968	0.4141	0.3753	0.3694	0.3632	AVRG		2.59157		0.3859	5	15	0.05	0.99	
Chlorobenzene		0.9673	0.9868	0.8958	0.9601	0.9197	0.8667	0.8729	0.8305	AVRG		1.09589		0.9125	6	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.3237	0.3547	0.3210	0.3439	0.3472	0.3249	0.3332	0.3122	AVRG		3.00663		0.3326	4	15	0.05	0.99	
Ethylbenzene		1.5299	1.6679	1.4973	1.6159	1.5259	1.3849	1.4787	1.3305	AVRG		0.66495		1.5039	7	15	0.05	0.99	
m,p-Xylenes	0.5524	0.5133	0.5585	0.5452	0.5515	0.5413	0.4746	0.4835	0.4423	AVRG		1.93022		0.5181	8	15	0.05	0.99	
o-Xylene		0.4932	0.6178	0.5518	0.5726	0.5649	0.5315	0.5320	0.5040	AVRG		1.83158		0.5460	7	15	0.05	0.99	
Styrene		0.9495	1.0892	0.9509	1.0500	1.0450	0.9784	0.9391	0.9171	AVRG		1.01020		0.9899	6	15	0.05	0.99	
Bromoform		0.3550	0.3630	0.3551	0.3890	0.4115	0.3913	0.4161	0.4140	AVRG		2.58475		0.3869	7	15	0.10	0.99	
Isopropylbenzene		2.4833	2.5531	2.3593	2.5598	2.3538	2.2890	2.4740	2.2394	AVRG		0.41426		2.4140	5	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		1.1342	1.2108	1.1122	1.1634	1.1171	1.0402	1.1185	1.0933	AVRG		0.88992		1.1237	4	15	0.30	0.99	
1,2,3-Trichloropropane		1.1618m	1.0078m	0.8917	0.9101m	0.8823	0.8125m	0.8551m	0.8092	AVRG		1.09132		0.9163	13	15	0.05	0.99	
Propylbenzene		3.2211	3.3512	3.1974	3.2166	2.9477	2.8307	2.8779	2.6109	AVRG		0.32985		3.0317	8	15	0.05	0.99	
Bromobenzene		0.9021	0.8589	0.8149	0.8409	0.8245	0.7516	0.7648	0.7361	AVRG		1.23194		0.8117	7	15	0.05	0.99	
1,3,5-Trimethylbenzene		1.9328	2.1776	1.9320	2.0542	1.9125	1.8489	1.9173	1.7298	AVRG		0.51596		1.9381	7	15	0.05	0.99	
2-Chlorotoluene		2.3680	2.5192	2.1965	2.3593	2.1591	2.0289	2.0798	1.8754	AVRG		0.45490		2.1983	10	15	0.05	0.99	
4-Chlorotoluene		2.2111	2.3762	2.0744	2.2448	2.0751	1.9643	1.9695	1.8403	AVRG		0.47745		2.0945	8	15	0.05	0.99	
tert-Butylbenzene		1.5630	1.5871	1.4517	1.5979	1.4731	1.4112	1.5545	1.3338	AVRG		0.66821		1.4965	6	15	0.05	0.99	
1,2,4-Trimethylbenzene		1.9371	2.0339	1.9366	2.0895	1.9028	1.8287	1.9693	1.7625	AVRG		0.51745		1.9326	5	15	0.05	0.99	
sec-Butylbenzene		2.4767	2.4019	2.3793	2.7111	2.2904	2.3295	2.4000	2.1554	AVRG		0.41788		2.3930	7	15	0.05	0.99	
para-Isopropyl Toluene		1.7937	1.8573	1.7943	2.0145	1.7507	1.7868	1.8907	1.6450	AVRG		0.55047		1.8166	6	15	0.05	0.99	
1,3-Dichlorobenzene		1.4234	1.3928	1.3074	1.4296	1.3098	1.2424	1.2520	1.1653	AVRG		0.76026		1.3153	7	15	0.05	0.99	
1,4-Dichlorobenzene		1.5161	1.5004	1.3648	1.4019	1.3716	1.2517	1.2928	1.1763	AVRG		0.73560		1.3594	9	15	0.05	0.99	
n-Butylbenzene		1.6060	1.6141	1.6091	1.7967	1.6325	1.6407	1.8276	1.6539	AVRG		0.59788		1.6726	5	15	0.05	0.99	
1,2-Dichlorobenzene		1.3687	1.3699	1.2449	1.3469	1.2469	1.2231	1.2351	1.1578	AVRG		0.78483		1.2742	6	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.1925	0.2018	0.1770	0.1780	0.1923	0.1872	0.2041	0.1971	AVRG		5.22879		0.1912	5	15	0.05	0.99	
1,2,4-Trichlorobenzene		0.5180	0.6140	0.6040	0.7344	0.7012	0.7084	0.8251	0.7574	AVRG		1.46455		0.6828	14	15	0.05	0.99	
Hexachlorobutadiene		0.2913	0.2533	0.2682	0.2840	0.2572	0.2686	0.2946	0.2556	AVRG		3.68180		0.2716	6	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene	0.6819	0.6585	0.7892	0.8647	1.1388	1.2460	1.2930	1.6379		QUAD	0.21407	0.91643	-0.00249	1.0387	0.999	15	0.05	0.99	
1,2,3-Trichlorobenzene		0.4641	0.5656	0.5484	0.6547	0.6966	0.6944			AVRG		1.65568		0.6040	15	15	0.05	0.99	
Dibromofluoromethane							0.5828			AVRG		1.71596		0.5828	0	15	0.05	0.99	
1,2-Dichloroethane-d4							0.4353			AVRG		2.29722		0.4353	0	15	0.05	0.99	
Toluene-d8							1.0496			AVRG		0.95278		1.0496	0	15	0.05	0.99	
Bromofluorobenzene							1.0864			AVRG		0.92047		1.0864	0	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Freon 12			1.000	5	2.000	3	5.000	0	10.00	-30	20.00	-15	50.00	12	75.00	14	100.0	11
Chloromethane			1.000	17	2.000	19	5.000	-1	10.00	-4	20.00	0	50.00	-5	75.00	-14	100.0	-12
Vinyl Chloride	0.500	29	1.000	-4	2.000	2	5.000	-7	10.00	-19	20.00	-7	50.00	2	75.00	2	100.0	1
Bromomethane			1.000	-2	2.000	1	5.000	-1	10.00	-11	20.00	1	50.00	3	75.00	0	100.0	8
Chloroethane			1.000	-12	2.000	10	5.000	6	10.00	-4	20.00	-3	50.00	2	75.00	0	100.0	1
Trichlorofluoromethane			1.000	1	2.000	5	5.000	-4	10.00	-27	20.00	-13	50.00	9	75.00	17	100.0	12
Acetone					2.000	25	5.000	1	10.00	-1	20.00	-2	50.00	-9	75.00	-12	100.0	-2
1,1-Dichloroethene			0.500	-1	2.000	-5	5.000	3	10.00	2	20.00	2	50.00	4	75.00	-5	100.0	-1
Iodomethane							5.000	-22	10.00	-9	20.00	1	50.00	16	75.00	7	100.0	8
Methylene Chloride					2.000	8	5.000	-4	10.00	0	20.00	-1	50.00	-6	75.00	14	100.0	-12
Carbon Disulfide			0.500	1	2.000	-4	5.000	1	10.00	1	20.00	4	50.00	1	75.00	-5	100.0	0
MTBE			0.500	-2	2.000	8	5.000	-2	10.00	5	20.00	4	50.00	-2	75.00	-5	100.0	-6
trans-1,2-Dichloroethene			0.500	8	2.000	4	5.000	-1	10.00	3	20.00	2	50.00	-3	75.00	-6	100.0	-7
Vinyl Acetate					2.000	9	5.000	3	10.00	-1	20.00	4	50.00	-11	75.00	0	100.0	-4
1,1-Dichloroethane			0.500	7	2.000	7	5.000	0	10.00	3	20.00	5	50.00	-4	75.00	-7	100.0	-11
2-Butanone					2.000	5	5.000	-2	10.00	6	20.00	4	50.00	-4	75.00	-8	100.0	-2
2,2-Dichloropropane			0.500	13	2.000	1	5.000	1	10.00	2	20.00	1	50.00	-3	75.00	-6	100.0	-9
cis-1,2-Dichloroethene			0.500	4	2.000	6	5.000	2	10.00	9	20.00	2	50.00	-6	75.00	-9	100.0	-7
Chloroform			0.500	8	2.000	9	5.000	5	10.00	3	20.00	4	50.00	-3	75.00	-12	100.0	-13
Bromochloromethane			0.500	-4	2.000	6	5.000	3	10.00	7	20.00	8	50.00	-1	75.00	-8	100.0	-11
1,1,1-Trichloroethane			0.500	10	2.000	-8	5.000	7	10.00	1	20.00	0	50.00	0	75.00	-5	100.0	-6
1,1-Dichloropropene			0.500	0	2.000	-4	5.000	2	10.00	8	20.00	0	50.00	-3	75.00	4	100.0	-7
Carbon Tetrachloride			0.500	6	2.000	-10	5.000	0	10.00	5	20.00	1	50.00	-4	75.00	5	100.0	-2
1,2-Dichloroethane			0.500	6	2.000	10	5.000	1	10.00	7	20.00	1	50.00	-6	75.00	-6	100.0	-12
Benzene			0.500	11	2.000	4	5.000	1	10.00	6	20.00	5	50.00	-6	75.00	-7	100.0	-13
Trichloroethene			0.500	5	2.000	4	5.000	0	10.00	4	20.00	1	50.00	-3	75.00	-3	100.0	-9
1,2-Dichloropropane			0.500	10	2.000	6	5.000	0	10.00	5	20.00	2	50.00	-6	75.00	-8	100.0	-9
Bromodichloromethane			0.500	-2	2.000	6	5.000	-1	10.00	6	20.00	5	50.00	-5	75.00	-3	100.0	-6
Dibromomethane			0.500	18	2.000	-1	5.000	-5	10.00	5	20.00	3	50.00	-7	75.00	-6	100.0	-8
4-Methyl-2-Pentanone					2.000	3	5.000	-8	10.00	5	20.00	3	50.00	-5	75.00	3	100.0	0
cis-1,3-Dichloropropene			0.500	2	2.000	1	5.000	-1	10.00	4	20.00	10	50.00	-3	75.00	-3	100.0	-10
Toluene			0.500	8	2.000	-4	5.000	-3	10.00	11	20.00	2	50.00	-1	75.00	-2	100.0	-13
trans-1,3-Dichloropropene			0.500	2	2.000	1	5.000	-2	10.00	3	20.00	3	50.00	-4	75.00	2	100.0	-6
1,1,2-Trichloroethane			0.500	-2	2.000	2	5.000	0	10.00	7	20.00	4	50.00	-2	75.00	-2	100.0	-7
2-Hexanone					2.000	0	5.000	-4	10.00	2	20.00	3	50.00	-1	75.00	1	100.0	-2
1,3-Dichloropropane			0.500	3	2.000	6	5.000	0	10.00	2	20.00	5	50.00	-3	75.00	-5	100.0	-9
Tetrachloroethene			0.500	7	2.000	-2	5.000	-3	10.00	3	20.00	-2	50.00	-4	75.00	6	100.0	-5
Dibromochloromethane			0.500	-8	2.000	-1	5.000	-5	10.00	2	20.00	7	50.00	-2	75.00	6	100.0	2
1,2-Dibromoethane			0.500	-6	2.000	7	5.000	2	10.00	3	20.00	7	50.00	-3	75.00	-4	100.0	-6
Chlorobenzene			0.500	6	2.000	8	5.000	-2	10.00	5	20.00	1	50.00	-5	75.00	-4	100.0	-9
1,1,1,2-Tetrachloroethane			0.500	-3	2.000	7	5.000	-3	10.00	3	20.00	4	50.00	-2	75.00	0	100.0	-6
Ethylbenzene			0.500	2	2.000	11	5.000	0	10.00	7	20.00	1	50.00	-8	75.00	-2	100.0	-12

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
m,p-Xylenes	0.500	7	1.000	-1	4.000	8	10.00	5	20.00	6	40.00	4	100.0	-8	150.0	-7	200.0	-15
o-Xylene			0.500	-10	2.000	13	5.000	1	10.00	5	20.00	3	50.00	-3	75.00	-3	100.0	-8
Styrene			0.500	-4	2.000	10	5.000	-4	10.00	6	20.00	6	50.00	-1	75.00	-5	100.0	-7
Bromoform			0.500	-8	2.000	-6	5.000	-8	10.00	1	20.00	6	50.00	1	75.00	8	100.0	7
Isopropylbenzene			0.500	3	2.000	6	5.000	-2	10.00	6	20.00	-2	50.00	-5	75.00	2	100.0	-7
1,1,2,2-Tetrachloroethane			0.500	1	2.000	8	5.000	-1	10.00	4	20.00	-1	50.00	-7	75.00	0	100.0	-3
1,2,3-Trichloropropane			0.500	27	2.000	10	5.000	-3	10.00	-1	20.00	-4	50.00	-11	75.00	-7	100.0	-12
Propylbenzene			0.500	6	2.000	11	5.000	5	10.00	6	20.00	-3	50.00	-7	75.00	-5	100.0	-14
Bromobenzene			0.500	11	2.000	6	5.000	0	10.00	4	20.00	2	50.00	-7	75.00	-6	100.0	-9
1,3,5-Trimethylbenzene			0.500	0	2.000	12	5.000	0	10.00	6	20.00	-1	50.00	-5	75.00	-1	100.0	-11
2-Chlorotoluene			0.500	8	2.000	15	5.000	0	10.00	7	20.00	-2	50.00	-8	75.00	-5	100.0	-15
4-Chlorotoluene			0.500	6	2.000	13	5.000	-1	10.00	7	20.00	-1	50.00	-6	75.00	-6	100.0	-12
tert-Butylbenzene			0.500	4	2.000	6	5.000	-3	10.00	7	20.00	-2	50.00	-6	75.00	4	100.0	-11
1,2,4-Trimethylbenzene			0.500	0	2.000	5	5.000	0	10.00	8	20.00	-2	50.00	-5	75.00	2	100.0	-9
sec-Butylbenzene			0.500	3	2.000	0	5.000	-1	10.00	13	20.00	-4	50.00	-3	75.00	0	100.0	-10
para-Isopropyl Toluene			0.500	-1	2.000	2	5.000	-1	10.00	11	20.00	-4	50.00	-2	75.00	4	100.0	-9
1,3-Dichlorobenzene			0.500	8	2.000	6	5.000	-1	10.00	9	20.00	0	50.00	-6	75.00	-5	100.0	-11
1,4-Dichlorobenzene			0.500	12	2.000	10	5.000	0	10.00	3	20.00	1	50.00	-8	75.00	-5	100.0	-13
n-Butylbenzene			0.500	-4	2.000	-3	5.000	-4	10.00	7	20.00	-2	50.00	-2	75.00	9	100.0	-1
1,2-Dichlorobenzene			0.500	7	2.000	8	5.000	-2	10.00	6	20.00	-2	50.00	-4	75.00	-3	100.0	-9
1,2-Dibromo-3-Chloropropane			0.500	1	2.000	6	5.000	-7	10.00	-7	20.00	1	50.00	-2	75.00	7	100.0	3
1,2,4-Trichlorobenzene			0.500	-24	2.000	-10	5.000	-12	10.00	8	20.00	3	50.00	4	75.00	21	100.0	11
Hexachlorobutadiene			0.500	7	2.000	-7	5.000	-1	10.00	5	20.00	-5	50.00	-1	75.00	8	100.0	-6
Naphthalene	0.250	48	0.500	3	2.000	-17	5.000	-17	10.00	3	20.00	8	50.00	-2	75.00	0		
1,2,3-Trichlorobenzene			0.500	-23	2.000	-6	5.000	-9	10.00	8	20.00	15	50.00	15				
Dibromofluoromethane													50.00	0				
1,2-Dichloroethane-d4													50.00	0				
Toluene-d8													50.00	0				
Bromofluorobenzene													50.00	0				

BO 10/08/08 : All manual integrations were made due to fronting/tailing of peaks.

Analyst: BO Date: 10/07/08 Reviewer: ACM Date: 10/08/08

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; QUAD=Quadratic regression

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 206926 MSVOA Water
EPA 8260B

Inst : MSVOA05 Name : 826GOX5
Calnum : 448403675001 Cal Date : 06-OCT-2008 Type : WATER

ICV 448403675025 (ej625 06-OCT-2008) stds: S10345 (10000X), S10151 (5000X)
ICV 448405106009 (ej709 07-OCT-2008) stds: S10284 (10000X), S10326 (10000X), S10285 (10000X), S10151 (5000X)

Analyte	ICV Seqnum	Date	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	448403675025	06-OCT-2008	0.6480	0.5178	25.00	19.98	ug/L	-20	25	
Chloromethane	448403675025	06-OCT-2008	0.6341	0.5038	25.00	19.86	ug/L	**-21**	25	m
Vinyl Chloride	448403675025	06-OCT-2008	0.4802	0.4978	25.00	25.92	ug/L	4	25	
Bromomethane	448403675025	06-OCT-2008	0.3475	0.3337	25.00	24.01	ug/L	-4	25	
Chloroethane	448403675025	06-OCT-2008	0.2505	0.2427	25.00	24.22	ug/L	-3	25	m
Trichlorofluoromethane	448403675025	06-OCT-2008	0.6895	0.7006	25.00	25.40	ug/L	2	25	
Acetone	448405106009	07-OCT-2008	0.2381	0.2112	25.00	22.17	ug/L	-11	25	
1,1-Dichloroethene	448405106009	07-OCT-2008	0.2932	0.2810	25.00	23.96	ug/L	-4	25	
Iodomethane	448405106009	07-OCT-2008	0.4716	0.2857	25.00	15.14	ug/L	**-39**	25	v- ***
Methylene Chloride	448405106009	07-OCT-2008	0.4417	0.4034	25.00	22.83	ug/L	-9	25	
Carbon Disulfide	448405106009	07-OCT-2008	1.0729	0.9372	25.00	21.84	ug/L	-13	25	
MTBE	448405106009	07-OCT-2008	1.6884	1.5700	25.00	23.25	ug/L	-7	25	
trans-1,2-Dichloroethene	448405106009	07-OCT-2008	0.4631	0.4275	25.00	23.08	ug/L	-8	25	
Vinyl Acetate	448405106009	07-OCT-2008	1.3926	1.1872	25.00	21.31	ug/L	-15	25	
1,1-Dichloroethane	448405106009	07-OCT-2008	0.8615	0.7769	25.00	22.54	ug/L	-10	25	
2-Butanone	448405106009	07-OCT-2008	0.4085	0.3580	25.00	21.91	ug/L	-12	25	
2,2-Dichloropropane	448405106009	07-OCT-2008	0.5047	0.5485	25.00	27.17	ug/L	9	25	
cis-1,2-Dichloroethene	448405106009	07-OCT-2008	0.5382	0.5000	25.00	23.23	ug/L	-7	25	
Chloroform	448405106009	07-OCT-2008	0.9559	0.8358	25.00	21.86	ug/L	-13	25	
Bromochloromethane	448405106009	07-OCT-2008	0.2470	0.2373	25.00	24.01	ug/L	-4	25	
1,1,1-Trichloroethane	448405106009	07-OCT-2008	0.6788	0.6107	25.00	22.49	ug/L	-10	25	
1,1-Dichloropropene	448405106009	07-OCT-2008	0.3879	0.3527	25.00	22.73	ug/L	-9	25	
Carbon Tetrachloride	448405106009	07-OCT-2008	0.3681	0.3380	25.00	22.96	ug/L	-8	25	
1,2-Dichloroethane	448405106009	07-OCT-2008	0.5261	0.4691	25.00	22.29	ug/L	-11	25	
Benzene	448405106009	07-OCT-2008	1.1807	1.0499	25.00	22.23	ug/L	-11	25	
Trichloroethene	448405106009	07-OCT-2008	0.3423	0.3138	25.00	22.92	ug/L	-8	25	
1,2-Dichloropropane	448405106009	07-OCT-2008	0.3548	0.2944	25.00	20.74	ug/L	-17	25	
Bromodichloromethane	448405106009	07-OCT-2008	0.5111	0.4804	25.00	23.50	ug/L	-6	25	
Dibromomethane	448405106009	07-OCT-2008	0.3025	0.2716	25.00	22.45	ug/L	-10	25	
4-Methyl-2-Pentanone	448405106009	07-OCT-2008	0.5476	0.4772	25.00	21.79	ug/L	-13	25	
cis-1,3-Dichloropropene	448405106009	07-OCT-2008	0.5264	0.5115	25.00	24.29	ug/L	-3	25	
Toluene	448405106009	07-OCT-2008	0.6883	0.6240	25.00	22.66	ug/L	-9	25	
trans-1,3-Dichloropropene	448405106009	07-OCT-2008	0.5310	0.4518	25.00	21.27	ug/L	-15	25	
1,1,2-Trichloroethane	448405106009	07-OCT-2008	0.1922	0.1798	25.00	23.39	ug/L	-6	25	
2-Hexanone	448405106009	07-OCT-2008	0.4669	0.4249	25.00	22.75	ug/L	-9	25	
1,3-Dichloropropane	448405106009	07-OCT-2008	0.6533	0.6208	25.00	23.76	ug/L	-5	25	
Tetrachloroethene	448405106009	07-OCT-2008	0.3497	0.3371	25.00	24.10	ug/L	-4	25	
Dibromochloromethane	448405106009	07-OCT-2008	0.4541	0.4538	25.00	24.99	ug/L	0	25	
1,2-Dibromoethane	448405106009	07-OCT-2008	0.3859	0.3647	25.00	23.63	ug/L	-5	25	
Chlorobenzene	448405106009	07-OCT-2008	0.9125	0.8819	25.00	24.16	ug/L	-3	25	
1,1,1,2-Tetrachloroethane	448405106009	07-OCT-2008	0.3326	0.3263	25.00	24.53	ug/L	-2	25	
Ethylbenzene	448405106009	07-OCT-2008	1.5039	1.4569	25.00	24.22	ug/L	-3	25	
m,p-Xylenes	448405106009	07-OCT-2008	0.5181	0.4935	50.00	47.63	ug/L	-5	25	
o-Xylene	448405106009	07-OCT-2008	0.5460	0.5151	25.00	23.59	ug/L	-6	25	
Styrene	448405106009	07-OCT-2008	0.9899	0.9610	25.00	24.27	ug/L	-3	25	
Bromoform	448405106009	07-OCT-2008	0.3869	0.3940	25.00	25.46	ug/L	2	25	
Isopropylbenzene	448405106009	07-OCT-2008	2.4140	2.0055	25.00	20.77	ug/L	-17	25	

Analyte	ICV Seqnum	Date	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	448405106009	07-OCT-2008	1.1237	1.0481	25.00	23.32	ug/L	-7	25	
1,2,3-Trichloropropane	448405106009	07-OCT-2008	0.9163	0.7959	25.00	21.71	ug/L	-13	25	m
Propylbenzene	448405106009	07-OCT-2008	3.0317	2.7146	25.00	22.39	ug/L	-10	25	
Bromobenzene	448405106009	07-OCT-2008	0.8117	0.7724	25.00	23.79	ug/L	-5	25	
1,3,5-Trimethylbenzene	448405106009	07-OCT-2008	1.9381	1.8525	25.00	23.90	ug/L	-4	25	
2-Chlorotoluene	448405106009	07-OCT-2008	2.1983	2.0003	25.00	22.75	ug/L	-9	25	
4-Chlorotoluene	448405106009	07-OCT-2008	2.0945	1.8847	25.00	22.50	ug/L	-10	25	
tert-Butylbenzene	448405106009	07-OCT-2008	1.4965	1.4035	25.00	23.45	ug/L	-6	25	
1,2,4-Trimethylbenzene	448405106009	07-OCT-2008	1.9326	1.9790	25.00	25.60	ug/L	2	25	
sec-Butylbenzene	448405106009	07-OCT-2008	2.3930	2.1633	25.00	22.60	ug/L	-10	25	
para-Isopropyl Toluene	448405106009	07-OCT-2008	1.8166	1.6692	25.00	22.97	ug/L	-8	25	
1,3-Dichlorobenzene	448405106009	07-OCT-2008	1.3153	1.2087	25.00	22.97	ug/L	-8	25	
1,4-Dichlorobenzene	448405106009	07-OCT-2008	1.3594	1.2017	25.00	22.10	ug/L	-12	25	
n-Butylbenzene	448405106009	07-OCT-2008	1.6726	1.6010	25.00	23.93	ug/L	-4	25	
1,2-Dichlorobenzene	448405106009	07-OCT-2008	1.2742	1.1762	25.00	23.08	ug/L	-8	25	
1,2-Dibromo-3-Chloropropane	448405106009	07-OCT-2008	0.1912	0.1870	25.00	24.44	ug/L	-2	25	
1,2,4-Trichlorobenzene	448405106009	07-OCT-2008	0.6828	0.6962	25.00	25.49	ug/L	2	25	
Hexachlorobutadiene	448405106009	07-OCT-2008	0.2716	0.2655	25.00	24.44	ug/L	-2	25	
Naphthalene	448405106009	07-OCT-2008	1.0387	1.2685	25.00	26.77	ug/L	7	25	
1,2,3-Trichlorobenzene	448405106009	07-OCT-2008	0.6040	0.6565	25.00	27.17	ug/L	9	25	

-=low bias m=manual integration v=ICV

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 206926 MSVOA Water: EPA 8260B

Inst : MSVOA05
Calnum : 448429597001
Units : ug/L

Name : surrogates
Date : 24-OCT-2008 08:45
X Axis : R

Type : WATER

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	ejo03	448429597003	SURROGATES	24-OCT-2008 08:45	S10151 (5000X)

Analyte	L1	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Dibromofluoromethane	0.5627	AVRG		1.77715		0.5627	0	15	0.05	0.99	
1,2-Dichloroethane-d4	0.5160	AVRG		1.93792		0.5160	0	15	0.05	0.99	
Toluene-d8	1.0615	AVRG		0.94208		1.0615	0	15	0.05	0.99	
Bromofluorobenzene	1.1507	AVRG		0.86904		1.1507	0	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D
Dibromofluoromethane	50.00	0
1,2-Dichloroethane-d4	50.00	0
Toluene-d8	50.00	0
Bromofluorobenzene	50.00	0

Analyst: BO Date: 10/24/08 Reviewer: ACM Date: 10/27/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 206926 MSVOA Water: EPA 8260B

Inst : MSVOA06 Name : 826GOX6W
Calnum : 458419546001 Date : 17-OCT-2008 18:15 Type : WATER
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	fjh13	458419546013	.25/0.5PPB	17-OCT-2008 18:15	S10513 (2000000X), S10427 (2000000X), S9073 (2000000X), S10449 (1000000X), S10447 (1000X)
L2	fjh14	458419546014	0.5/1PPB	17-OCT-2008 18:49	S10513 (1000000X), S10427 (1000000X), S9073 (1000000X), S10449 (500000X), S10447 (1000X)
L3	fjh15	458419546015	2PPB	17-OCT-2008 19:23	S10513 (250000X), S10427 (250000X), S9073 (500000X), S10449 (250000X), S10447 (1000X)
L4	fjh16	458419546016	5PPB	17-OCT-2008 19:57	S10513 (100000X), S10427 (100000X), S9073 (200000X), S10449 (100000X), S10447 (1000X)
L5	fjh17	458419546017	10PPB	17-OCT-2008 20:30	S10513 (50000X), S10427 (50000X), S9073 (100000X), S10449 (50000X), S10447 (1000X)
L6	fjh18	458419546018	20PPB	17-OCT-2008 21:04	S10513 (25000X), S10427 (25000X), S9073 (50000X), S10449 (25000X), S10447 (1000X)
L7	fjh19	458419546019	50PPB	17-OCT-2008 21:38	S10513 (10000X), S10427 (10000X), S9073 (20000X), S10449 (10000X), S10447 (1000X)
L8	fjh20	458419546020	75PPB	17-OCT-2008 22:12	S10513 (6667X), S10427 (6667X), S9073 (13330X), S10449 (6667X), S10447 (1000X)
L9	fjh21	458419546021	100PPB	17-OCT-2008 22:46	S10513 (5000X), S10427 (5000X), S9073 (10000X), S10449 (5000X), S10447 (1000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.8524	0.8398	0.6745	0.5885	0.7550	0.8792	0.8862	0.7880	AVRG		1.27720		0.7830	14	15	0.05	0.99	
Chloromethane		1.2226	1.3192	1.0906	1.1405	1.1007	1.1277	1.1146	1.0995	AVRG		0.86813		1.1519	7	15	0.10	0.99	
Vinyl Chloride	0.8989	0.7760	0.8370	0.6763	0.6777	0.7710	0.8431	0.8208	0.7521	AVRG		1.27607		0.7837	10	15	0.05	0.99	
Bromomethane		0.4784	0.3923	0.3678	0.4088	0.3706	0.3975	0.3866	0.4118	AVRG		2.48916		0.4017	9	15	0.05	0.99	
Chloroethane		0.4182	0.4341	0.3957	0.4212	0.4186	0.4209	0.4020	0.3941	AVRG		2.42071		0.4131	3	15	0.05	0.99	
Trichlorofluoromethane		0.6267	0.6710	0.5290	0.4700	0.5673	0.6637	0.6275	0.5890	AVRG		1.68623		0.5930	12	15	0.05	0.99	
Acetone			0.3755	0.3594	0.3487	0.3937	0.3427	0.3586	0.3520	AVRG		2.76614		0.3615	5	15	0.05	0.99	
1,1-Dichloroethene		0.5719	0.4842	0.5092	0.5612	0.5828	0.5624	0.5537	0.5548	AVRG		1.82642		0.5475	6	15	0.05	0.99	
Iodomethane	0.6428	0.5223	0.4534m	0.4891m	0.6144	0.7199	0.8543			QUAD	0.56084	1.49877	-0.00801	0.6138	0.999	15	0.05	0.99	
Methylene Chloride			0.9536	0.8143	0.9079	0.8906	0.8323	0.8369	0.8359	AVRG		1.15292		0.8674	6	15	0.05	0.99	
Carbon Disulfide		2.3675	2.1175	2.0526	2.3034	2.3167	2.3107	2.3021	2.3374	AVRG		0.44180		2.2635	5	15	0.05	0.99	
MTBE		2.1577	2.0958	1.8456	2.0725	2.1548	1.9463	1.9843	1.9305	AVRG		0.49421		2.0234	6	15	0.05	0.99	
trans-1,2-Dichloroethene		0.7150	0.6596	0.5959	0.6368	0.6519	0.6302	0.6092	0.6253	AVRG		1.56131		0.6405	6	15	0.05	0.99	
Vinyl Acetate			1.9439	1.7762	1.8465	1.8463	1.7537	1.9466	1.7634	AVRG		0.54363		1.8395	4	15	0.05	0.99	
1,1-Dichloroethane		1.3804	1.2859	1.2152	1.3159	1.3120	1.2355	1.2190	1.2274	AVRG		0.78498		1.2739	5	15	0.10	0.99	
2-Butanone			0.4748	0.3919	0.4710	0.4883	0.4672	0.5021	0.4618	AVRG		2.14916		0.4653	8	15	0.05	0.99	
2,2-Dichloropropane		0.6944	0.6196	0.6306	0.7022	0.7216	0.6791	0.7006	0.6806	AVRG		1.47361		0.6786	5	15	0.05	0.99	
cis-1,2-Dichloroethene		0.7597	0.7377	0.6404	0.7263	0.7302	0.6937	0.7218	0.6747	AVRG		1.40733		0.7106	5	15	0.05	0.99	
Chloroform		1.2699	1.2401	1.0185	1.1499	1.1687	1.1112	1.1262	1.0943	AVRG		0.87157		1.1474	7	15	0.05	0.99	
Bromochloromethane		0.4109	0.4590	0.3820	0.4310	0.4322	0.4111	0.4224	0.4095	AVRG		2.38226		0.4198	5	15	0.05	0.99	
1,1,1-Trichloroethane		0.6366	0.6503	0.6375	0.7232	0.7075	0.7273	0.6799	0.7007	AVRG		1.46441		0.6829	5	15	0.05	0.99	
1,1-Dichloropropene		0.5125	0.4460	0.4326	0.4903	0.4989	0.5046	0.4837	0.4718	AVRG		2.08315		0.4800	6	15	0.05	0.99	
Carbon Tetrachloride		0.4104	0.3506	0.3267	0.3828	0.3996	0.3981	0.3872	0.3800	AVRG		2.63549		0.3794	7	15	0.05	0.99	
1,2-Dichloroethane		0.5628	0.5236	0.4565	0.5047	0.5373	0.4973	0.4988	0.4706	AVRG		1.97448		0.5065	7	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		1.6316	1.6332	1.4598	1.5737	1.6139	1.5173	1.4838	1.4419	AVRG		0.64751		1.5444	5	15	0.05	0.99	
Trichloroethene		0.4175	0.3967	0.3312m	0.3886	0.3831	0.3786	0.3678	0.3611	AVRG		2.64492		0.3781	7	15	0.05	0.99	
1,2-Dichloropropane		0.5063	0.4841	0.4298	0.4584	0.4836	0.4712	0.4728	0.4384	AVRG		2.13641		0.4681	5	15	0.05	0.99	
Bromodichloromethane		0.5325	0.5022	0.4511	0.5072	0.5341	0.5323	0.5296	0.4947	AVRG		1.95902		0.5105	6	15	0.05	0.99	
Dibromomethane		0.3279	0.3111	0.2922	0.3244	0.3232	0.3221	0.3271	0.3105	AVRG		3.15140		0.3173	4	15	0.05	0.99	
4-Methyl-2-Pentanone			0.6210	0.5270	0.6050	0.6005	0.5600	0.6081	0.5443	AVRG		1.72166		0.5808	6	15	0.05	0.99	
cis-1,3-Dichloropropene		0.6507	0.6449	0.5966	0.6772	0.6868	0.6584	0.6576	0.6164	AVRG		1.54186		0.6486	5	15	0.05	0.99	
Toluene		0.9988	0.8622	0.8086	0.9274	0.9091	0.8614	0.8807	0.8119	AVRG		1.13314		0.8825	7	15	0.05	0.99	
trans-1,3-Dichloropropene		0.5219	0.5861	0.5134	0.6047	0.5887	0.5996	0.5949	0.5834	AVRG		1.74190		0.5741	6	15	0.05	0.99	
1,1,2-Trichloroethane		0.2276	0.2343	0.2058	0.2416	0.2306	0.2290	0.2311	0.2152	AVRG		4.40744		0.2269	5	15	0.05	0.99	
2-Hexanone			0.4363	0.4231	0.5253	0.4648	0.4922	0.5106	0.4790	AVRG		2.10130		0.4759	8	15	0.05	0.99	
1,3-Dichloropropane		0.7652	0.8061	0.7046	0.7698	0.7556	0.7459	0.7478	0.7609	AVRG		1.32101		0.7570	4	15	0.05	0.99	
Tetrachloroethene		0.4115	0.4045	0.3669	0.4346	0.4132	0.4255	0.4354	0.4391	AVRG		2.40185		0.4163	6	15	0.05	0.99	
Dibromochloromethane		0.4607	0.5307	0.4731	0.5498	0.5588	0.5618	0.5702	0.5856	AVRG		1.86448		0.5363	9	15	0.05	0.99	
1,2-Dibromoethane		0.4392	0.4714	0.4322	0.4757	0.4821	0.4450	0.4756	0.4287	AVRG		2.19180		0.4562	5	15	0.05	0.99	
Chlorobenzene		1.2828	1.2568	1.1060	1.2308	1.2274	1.2045	1.1752	1.2137	AVRG		0.82498		1.2121	4	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.4088	0.4345	0.3687	0.4579	0.4337	0.4354	0.4185	0.4379	AVRG		2.35611		0.4244	6	15	0.05	0.99	
Ethylbenzene		1.8543	1.8765	1.6606	1.9686	1.8150	1.8096	1.7360	1.7471	AVRG		0.55296		1.8085	5	15	0.05	0.99	
m,p-Xylenes	0.7161	0.7587	0.7480	0.6417	0.7501	0.7091	0.6936	0.6819	0.6577	AVRG		1.41577		0.7063	6	15	0.05	0.99	
o-Xylene		0.7329	0.7705	0.6534	0.7504	0.7277	0.7290	0.7197	0.7160	AVRG		1.37944		0.7249	5	15	0.05	0.99	
Styrene		1.3007	1.2776	1.1306	1.3022	1.2868	1.3073	1.2574	1.2475	AVRG		0.79129		1.2638	5	15	0.05	0.99	
Bromoform		0.3655	0.3861	0.3402	0.4027	0.4008	0.4263	0.4368	0.4326	AVRG		2.50699		0.3989	9	15	0.10	0.99	
Isopropylbenzene		3.2203	3.1964	2.6951	3.1790	2.9858	3.0960	2.7754	2.8257	AVRG		0.33370		2.9967	7	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		1.5180	1.3778	1.2343	1.3467	1.3318	1.3016	1.3148	1.2260	AVRG		0.75110		1.3314	7	15	0.30	0.99	
1,2,3-Trichloropropane		1.0203	1.0603	0.8551	1.0434	0.9922	1.0018	0.9970	0.9322	AVRG		1.01237		0.9878	7	15	0.05	0.99	
Propylbenzene		4.2613	3.8554	3.1957	4.0856	3.9014	3.8250	3.5138	3.4997	AVRG		0.26545		3.7672	9	15	0.05	0.99	
Bromobenzene		1.1190	1.0913	0.9052	1.0290	1.0926	1.0569	1.0182	0.9731	AVRG		0.96555		1.0357	7	15	0.05	0.99	
1,3,5-Trimethylbenzene		2.9201	2.7437	2.2094	2.6887	2.6676	2.6105	2.4643	2.4631	AVRG		0.38522		2.5959	8	15	0.05	0.99	
2-Chlorotoluene		3.2748	2.8024	2.2047	2.6587	2.6643	2.6059	2.4634	2.4344	AVRG		0.37899		2.6386	12	15	0.05	0.99	
4-Chlorotoluene		2.9088	2.7220	2.2231	2.5796	2.5850	2.4723	2.4625	2.2953	AVRG		0.39509		2.5311	9	15	0.05	0.99	
tert-Butylbenzene		2.3569	2.2677	1.9169	2.4305	2.2123	2.2144	2.0247	2.1039	AVRG		0.45643		2.1909	8	15	0.05	0.99	
1,2,4-Trimethylbenzene		3.0765	2.8116	2.3262	2.8801	2.8315	2.7004	2.4378	2.4946	AVRG		0.37108		2.6948	9	15	0.05	0.99	
sec-Butylbenzene		3.4833	3.1680	2.8242	3.4528	3.2571	3.4095	3.0679	2.9209	AVRG		0.31270		3.1980	8	15	0.05	0.99	
para-Isopropyl Toluene		3.2787	2.7776	2.3608	2.9823	2.8900	2.9156	2.5439	2.6225	AVRG		0.35760		2.7964	10	15	0.05	0.99	
1,3-Dichlorobenzene		2.1103	1.9558	1.5116	1.8653	1.8445	1.8326	1.7498	1.7230	AVRG		0.54821		1.8241	10	15	0.05	0.99	
1,4-Dichlorobenzene		2.2634	2.0482	1.6287	1.9438	1.9476	1.8984	1.8487	1.8001	AVRG		0.52019		1.9224	10	15	0.05	0.99	
n-Butylbenzene		3.0373	2.4620	2.1279	2.6928	2.3550	2.5537	2.3396	2.4487	AVRG		0.39966		2.5021	11	15	0.05	0.99	
1,2-Dichlorobenzene		1.7458	1.9428	1.5808	1.8501	1.8400	1.8416	1.7538	1.7314	AVRG		0.55998		1.7858	6	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.1945	0.2393	0.1985	0.2187	0.2175	0.2316	0.2276	0.2282	AVRG		4.55594		0.2195	7	15	0.05	0.99	
1,2,4-Trichlorobenzene		1.1569	1.1413	0.9649	1.1258	1.1279	1.1009	1.1103	1.1328	AVRG		0.90285		1.1076	5	15	0.05	0.99	
Hexachlorobutadiene		0.5262	0.4275	0.3656	0.4522	0.4241	0.4153	0.4026	0.4150	AVRG		2.33335		0.4286	11	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene		2.7457	3.0222	2.4755	3.1141	3.1592	3.2189	3.3548	3.3527	AVRG		0.32729		3.0554	10	15	0.05	0.99	
1,2,3-Trichlorobenzene		1.2774	1.0926	0.8999	1.0672	1.0733	1.0658	1.0459	1.0835	AVRG		0.92962		1.0757	9	15	0.05	0.99	
Dibromofluoromethane							0.6235			AVRG		1.60394		0.6235	0	15	0.05	0.99	
1,2-Dichloroethane-d4							0.3334			AVRG		2.99908		0.3334	0	15	0.05	0.99	
Toluene-d8							1.0213			AVRG		0.97915		1.0213	0	15	0.05	0.99	
Bromofluorobenzene							0.9386			AVRG		1.06540		0.9386	0	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Freon 12			1.000	9	2.000	7	5.000	-14	10.00	-25	20.00	-4	50.00	12	75.00	13	100.0	1
Chloromethane			1.000	6	2.000	15	5.000	-5	10.00	-1	20.00	-4	50.00	-2	75.00	-3	100.0	-5
Vinyl Chloride	0.500	15	1.000	-1	2.000	7	5.000	-14	10.00	-14	20.00	-2	50.00	8	75.00	5	100.0	-4
Bromomethane			1.000	19	2.000	-2	5.000	-8	10.00	2	20.00	-8	50.00	-1	75.00	-4	100.0	3
Chloroethane			1.000	1	2.000	5	5.000	-4	10.00	2	20.00	1	50.00	2	75.00	-3	100.0	-5
Trichlorofluoromethane			1.000	6	2.000	13	5.000	-11	10.00	-21	20.00	-4	50.00	12	75.00	6	100.0	-1
Acetone					2.000	4	5.000	-1	10.00	-4	20.00	9	50.00	-5	75.00	-1	100.0	-3
1,1-Dichloroethene			0.500	4	2.000	-12	5.000	-7	10.00	2	20.00	6	50.00	3	75.00	1	100.0	1
Iodomethane	0.250	221	0.500	90	2.000	-4	5.000	-16	10.00	-5	20.00	2	50.00	0				
Methylene Chloride					2.000	10	5.000	-6	10.00	5	20.00	3	50.00	-4	75.00	-4	100.0	-4
Carbon Disulfide			0.500	5	2.000	-6	5.000	-9	10.00	2	20.00	2	50.00	2	75.00	2	100.0	3
MTBE			0.500	7	2.000	4	5.000	-9	10.00	2	20.00	6	50.00	-4	75.00	-2	100.0	-5
trans-1,2-Dichloroethene			0.500	12	2.000	3	5.000	-7	10.00	-1	20.00	2	50.00	-2	75.00	-5	100.0	-2
Vinyl Acetate					2.000	6	5.000	-3	10.00	0	20.00	0	50.00	-5	75.00	6	100.0	-4
1,1-Dichloroethane			0.500	8	2.000	1	5.000	-5	10.00	3	20.00	3	50.00	-3	75.00	-4	100.0	-4
2-Butanone					2.000	2	5.000	-16	10.00	1	20.00	5	50.00	0	75.00	8	100.0	-1
2,2-Dichloropropane			0.500	2	2.000	-9	5.000	-7	10.00	3	20.00	6	50.00	0	75.00	3	100.0	0
cis-1,2-Dichloroethene			0.500	7	2.000	4	5.000	-10	10.00	2	20.00	3	50.00	-2	75.00	2	100.0	-5
Chloroform			0.500	11	2.000	8	5.000	-11	10.00	0	20.00	2	50.00	-3	75.00	-2	100.0	-5
Bromochloromethane			0.500	-2	2.000	9	5.000	-9	10.00	3	20.00	3	50.00	-2	75.00	1	100.0	-2
1,1,1-Trichloroethane			0.500	-7	2.000	-5	5.000	-7	10.00	6	20.00	4	50.00	7	75.00	0	100.0	3
1,1-Dichloropropene			0.500	7	2.000	-7	5.000	-10	10.00	2	20.00	4	50.00	5	75.00	1	100.0	-2
Carbon Tetrachloride			0.500	8	2.000	-8	5.000	-14	10.00	1	20.00	5	50.00	5	75.00	2	100.0	0
1,2-Dichloroethane			0.500	11	2.000	3	5.000	-10	10.00	0	20.00	6	50.00	-2	75.00	-2	100.0	-7
Benzene			0.500	6	2.000	6	5.000	-5	10.00	2	20.00	4	50.00	-2	75.00	-4	100.0	-7
Trichloroethene			0.500	10	2.000	5	5.000	-12	10.00	3	20.00	1	50.00	0	75.00	-3	100.0	-4
1,2-Dichloropropane			0.500	8	2.000	3	5.000	-8	10.00	-2	20.00	3	50.00	1	75.00	1	100.0	-6
Bromodichloromethane			0.500	4	2.000	-2	5.000	-12	10.00	-1	20.00	5	50.00	4	75.00	4	100.0	-3
Dibromomethane			0.500	3	2.000	-2	5.000	-8	10.00	2	20.00	2	50.00	2	75.00	3	100.0	-2
4-Methyl-2-Pentanone					2.000	7	5.000	-9	10.00	4	20.00	3	50.00	-4	75.00	5	100.0	-6
cis-1,3-Dichloropropene			0.500	0	2.000	-1	5.000	-8	10.00	4	20.00	6	50.00	2	75.00	1	100.0	-5
Toluene			0.500	13	2.000	-2	5.000	-8	10.00	5	20.00	3	50.00	-2	75.00	0	100.0	-8
trans-1,3-Dichloropropene			0.500	-9	2.000	2	5.000	-11	10.00	5	20.00	3	50.00	4	75.00	4	100.0	2
1,1,2-Trichloroethane			0.500	0	2.000	3	5.000	-9	10.00	6	20.00	2	50.00	1	75.00	2	100.0	-5
2-Hexanone					2.000	-8	5.000	-11	10.00	10	20.00	-2	50.00	3	75.00	7	100.0	1
1,3-Dichloropropane			0.500	1	2.000	6	5.000	-7	10.00	2	20.00	0	50.00	-1	75.00	-1	100.0	1
Tetrachloroethene			0.500	-1	2.000	-3	5.000	-12	10.00	4	20.00	-1	50.00	2	75.00	5	100.0	5
Dibromochloromethane			0.500	-14	2.000	-1	5.000	-12	10.00	3	20.00	4	50.00	5	75.00	6	100.0	9
1,2-Dibromoethane			0.500	-4	2.000	3	5.000	-5	10.00	4	20.00	6	50.00	-2	75.00	4	100.0	-6
Chlorobenzene			0.500	6	2.000	4	5.000	-9	10.00	2	20.00	1	50.00	-1	75.00	-3	100.0	0
1,1,1,2-Tetrachloroethane			0.500	-4	2.000	2	5.000	-13	10.00	8	20.00	2	50.00	3	75.00	-1	100.0	3
Ethylbenzene			0.500	3	2.000	4	5.000	-8	10.00	9	20.00	0	50.00	0	75.00	-4	100.0	-3

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
m,p-Xylenes	0.500	1	1.000	7	4.000	6	10.00	-9	20.00	6	40.00	0	100.0	-2	150.0	-3	200.0	-7
o-Xylene			0.500	1	2.000	6	5.000	-10	10.00	4	20.00	0	50.00	1	75.00	-1	100.0	-1
Styrene			0.500	3	2.000	1	5.000	-11	10.00	3	20.00	2	50.00	3	75.00	-1	100.0	-1
Bromoform			0.500	-8	2.000	-3	5.000	-15	10.00	1	20.00	0	50.00	7	75.00	10	100.0	8
Isopropylbenzene			0.500	7	2.000	7	5.000	-10	10.00	6	20.00	0	50.00	3	75.00	-7	100.0	-6
1,1,2,2-Tetrachloroethane			0.500	14	2.000	3	5.000	-7	10.00	1	20.00	0	50.00	-2	75.00	-1	100.0	-8
1,2,3-Trichloropropane			0.500	3	2.000	7	5.000	-13	10.00	6	20.00	0	50.00	1	75.00	1	100.0	-6
Propylbenzene			0.500	13	2.000	2	5.000	-15	10.00	8	20.00	4	50.00	2	75.00	-7	100.0	-7
Bromobenzene			0.500	8	2.000	5	5.000	-13	10.00	-1	20.00	5	50.00	2	75.00	-2	100.0	-6
1,3,5-Trimethylbenzene			0.500	12	2.000	6	5.000	-15	10.00	4	20.00	3	50.00	1	75.00	-5	100.0	-5
2-Chlorotoluene			0.500	24	2.000	6	5.000	-16	10.00	1	20.00	1	50.00	-1	75.00	-7	100.0	-8
4-Chlorotoluene			0.500	15	2.000	8	5.000	-12	10.00	2	20.00	2	50.00	-2	75.00	-3	100.0	-9
tert-Butylbenzene			0.500	8	2.000	4	5.000	-13	10.00	11	20.00	1	50.00	1	75.00	-8	100.0	-4
1,2,4-Trimethylbenzene			0.500	14	2.000	4	5.000	-14	10.00	7	20.00	5	50.00	0	75.00	-10	100.0	-7
sec-Butylbenzene			0.500	9	2.000	-1	5.000	-12	10.00	8	20.00	2	50.00	7	75.00	-4	100.0	-9
para-Isopropyl Toluene			0.500	17	2.000	-1	5.000	-16	10.00	7	20.00	3	50.00	4	75.00	-9	100.0	-6
1,3-Dichlorobenzene			0.500	16	2.000	7	5.000	-17	10.00	2	20.00	1	50.00	0	75.00	-4	100.0	-6
1,4-Dichlorobenzene			0.500	18	2.000	7	5.000	-15	10.00	1	20.00	1	50.00	-1	75.00	-4	100.0	-6
n-Butylbenzene			0.500	21	2.000	-2	5.000	-15	10.00	8	20.00	-6	50.00	2	75.00	-6	100.0	-2
1,2-Dichlorobenzene			0.500	-2	2.000	9	5.000	-11	10.00	4	20.00	3	50.00	3	75.00	-2	100.0	-3
1,2-Dibromo-3-Chloropropane			0.500	-11	2.000	9	5.000	-10	10.00	0	20.00	-1	50.00	6	75.00	4	100.0	4
1,2,4-Trichlorobenzene			0.500	4	2.000	3	5.000	-13	10.00	2	20.00	2	50.00	-1	75.00	0	100.0	2
Hexachlorobutadiene			0.500	23	2.000	0	5.000	-15	10.00	6	20.00	-1	50.00	-3	75.00	-6	100.0	-3
Naphthalene			0.500	-10	2.000	-1	5.000	-19	10.00	2	20.00	3	50.00	5	75.00	10	100.0	10
1,2,3-Trichlorobenzene			0.500	19	2.000	2	5.000	-16	10.00	-1	20.00	0	50.00	-1	75.00	-3	100.0	1
Dibromofluoromethane													50.00	0				
1,2-Dichloroethane-d4													50.00	0				
Toluene-d8													50.00	0				
Bromofluorobenzene													50.00	0				

BO 10/20/08 : All manual integrations made due to peak tailing

Analyst: BO Date: 10/20/08 Reviewer: LW Date: 10/20/08

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; QUAD=Quadratic regression

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 206926 MSVOA Water EPA 8260B

Inst : MSVOA06 Name : 826GOX6W
Calnum : 458419546001 Cal Date : 17-OCT-2008 Type : WATER

ICV 458419546022 (fjh22 17-OCT-2008) stds: S10444 (10000X), S10447 (1000X)
ICV 458423841005 (fjk05 20-OCT-2008) stds: S10326 (10000X), S10285 (10000X), S10435 (10000X), S10447 (1000X)

Analyte	ICV Seqnum	Date	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	458419546022	17-OCT-2008	0.7830	0.8529	25.00	27.23	ug/L	9	25	
Chloromethane	458419546022	17-OCT-2008	1.1519	1.0011	25.00	21.73	ug/L	-13	25	
Vinyl Chloride	458419546022	17-OCT-2008	0.7837	0.8654	25.00	27.61	ug/L	10	25	
Bromomethane	458419546022	17-OCT-2008	0.4017	0.3257	25.00	20.27	ug/L	-19	25	
Chloroethane	458419546022	17-OCT-2008	0.4131	0.4089	25.00	24.75	ug/L	-1	25	
Trichlorofluoromethane	458419546022	17-OCT-2008	0.5930	0.5792	25.00	24.42	ug/L	-2	25	
Acetone	458423841005	20-OCT-2008	0.3615	0.3645	25.00	25.21	ug/L	1	25	
1,1-Dichloroethene	458423841005	20-OCT-2008	0.5475	0.5813	25.00	26.54	ug/L	6	25	
Iodomethane	458423841005	20-OCT-2008	0.6138	0.6396	25.00	22.48	ug/L	-10	25	
Methylene Chloride	458423841005	20-OCT-2008	0.8674	0.8972	25.00	25.86	ug/L	3	25	
Carbon Disulfide	458423841005	20-OCT-2008	2.2635	2.3546	25.00	26.01	ug/L	4	25	
MTBE	458423841005	20-OCT-2008	2.0234	1.9344	25.00	23.90	ug/L	-4	25	
trans-1,2-Dichloroethene	458423841005	20-OCT-2008	0.6405	0.6674	25.00	26.05	ug/L	4	25	
Vinyl Acetate	458423841005	20-OCT-2008	1.8395	1.7780	25.00	24.16	ug/L	-3	25	
1,1-Dichloroethane	458423841005	20-OCT-2008	1.2739	1.2698	25.00	24.92	ug/L	0	25	
2-Butanone	458423841005	20-OCT-2008	0.4653	0.4614	25.00	24.79	ug/L	-1	25	
2,2-Dichloropropane	458423841005	20-OCT-2008	0.6786	0.7987	25.00	29.43	ug/L	18	25	
cis-1,2-Dichloroethene	458423841005	20-OCT-2008	0.7106	0.7602	25.00	26.75	ug/L	7	25	
Chloroform	458423841005	20-OCT-2008	1.1474	1.1332	25.00	24.69	ug/L	-1	25	
Bromochloromethane	458423841005	20-OCT-2008	0.4198	0.4239	25.00	25.25	ug/L	1	25	
1,1,1-Trichloroethane	458423841005	20-OCT-2008	0.6829	0.7426	25.00	27.19	ug/L	9	25	
1,1-Dichloropropene	458423841005	20-OCT-2008	0.4800	0.5041	25.00	26.25	ug/L	5	25	
Carbon Tetrachloride	458423841005	20-OCT-2008	0.3794	0.3994	25.00	26.31	ug/L	5	25	
1,2-Dichloroethane	458423841005	20-OCT-2008	0.5065	0.5134	25.00	25.34	ug/L	1	25	
Benzene	458423841005	20-OCT-2008	1.5444	1.5935	25.00	25.80	ug/L	3	25	
Trichloroethene	458423841005	20-OCT-2008	0.3781	0.3873	25.00	25.61	ug/L	2	25	
1,2-Dichloropropane	458423841005	20-OCT-2008	0.4681	0.4556	25.00	24.33	ug/L	-3	25	
Bromodichloromethane	458423841005	20-OCT-2008	0.5105	0.5395	25.00	26.42	ug/L	6	25	
Dibromomethane	458423841005	20-OCT-2008	0.3173	0.3307	25.00	26.06	ug/L	4	25	
4-Methyl-2-Pentanone	458423841005	20-OCT-2008	0.5808	0.5535	25.00	23.82	ug/L	-5	25	
cis-1,3-Dichloropropene	458423841005	20-OCT-2008	0.6486	0.7112	25.00	27.41	ug/L	10	25	
Toluene	458423841005	20-OCT-2008	0.8825	0.9071	25.00	25.70	ug/L	3	25	
trans-1,3-Dichloropropene	458423841005	20-OCT-2008	0.5741	0.5398	25.00	23.51	ug/L	-6	25	
1,1,2-Trichloroethane	458423841005	20-OCT-2008	0.2269	0.2326	25.00	25.63	ug/L	3	25	
2-Hexanone	458423841005	20-OCT-2008	0.4759	0.4313	25.00	22.66	ug/L	-9	25	
1,3-Dichloropropane	458423841005	20-OCT-2008	0.7570	0.7495	25.00	24.75	ug/L	-1	25	
Tetrachloroethene	458423841005	20-OCT-2008	0.4163	0.4337	25.00	26.04	ug/L	4	25	
Dibromochloromethane	458423841005	20-OCT-2008	0.5363	0.5370	25.00	25.03	ug/L	0	25	
1,2-Dibromoethane	458423841005	20-OCT-2008	0.4562	0.4765	25.00	26.11	ug/L	4	25	
Chlorobenzene	458423841005	20-OCT-2008	1.2121	1.1681	25.00	24.09	ug/L	-4	25	
1,1,1,2-Tetrachloroethane	458423841005	20-OCT-2008	0.4244	0.4212	25.00	24.81	ug/L	-1	25	
Ethylbenzene	458423841005	20-OCT-2008	1.8085	1.7921	25.00	24.77	ug/L	-1	25	
m,p-Xylenes	458423841005	20-OCT-2008	0.7063	0.6918	50.00	48.97	ug/L	-2	25	
o-Xylene	458423841005	20-OCT-2008	0.7249	0.7013	25.00	24.19	ug/L	-3	25	
Styrene	458423841005	20-OCT-2008	1.2638	1.2565	25.00	24.86	ug/L	-1	25	
Bromoform	458423841005	20-OCT-2008	0.3989	0.4101	25.00	25.70	ug/L	3	25	
Isopropylbenzene	458423841005	20-OCT-2008	2.9967	2.5845	25.00	21.56	ug/L	-14	25	

Analyte	ICV Seqnum	Date	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	458423841005	20-OCT-2008	1.3314	1.2679	25.00	23.81	ug/L	-5	25	
1,2,3-Trichloropropane	458423841005	20-OCT-2008	0.9878	0.9233	25.00	23.37	ug/L	-7	25	
Propylbenzene	458423841005	20-OCT-2008	3.7672	3.6833	25.00	24.44	ug/L	-2	25	
Bromobenzene	458423841005	20-OCT-2008	1.0357	0.9999	25.00	24.14	ug/L	-3	25	
1,3,5-Trimethylbenzene	458423841005	20-OCT-2008	2.5959	2.6539	25.00	25.56	ug/L	2	25	
2-Chlorotoluene	458423841005	20-OCT-2008	2.6386	2.5524	25.00	24.18	ug/L	-3	25	
4-Chlorotoluene	458423841005	20-OCT-2008	2.5311	2.3459	25.00	23.17	ug/L	-7	25	
tert-Butylbenzene	458423841005	20-OCT-2008	2.1909	2.2012	25.00	25.12	ug/L	0	25	
1,2,4-Trimethylbenzene	458423841005	20-OCT-2008	2.6948	2.7217	25.00	25.25	ug/L	1	25	
sec-Butylbenzene	458423841005	20-OCT-2008	3.1980	3.4353	25.00	26.86	ug/L	7	25	
para-Isopropyl Toluene	458423841005	20-OCT-2008	2.7964	2.7655	25.00	24.72	ug/L	-1	25	
1,3-Dichlorobenzene	458423841005	20-OCT-2008	1.8241	1.7155	25.00	23.51	ug/L	-6	25	
1,4-Dichlorobenzene	458423841005	20-OCT-2008	1.9224	1.7651	25.00	22.95	ug/L	-8	25	
n-Butylbenzene	458423841005	20-OCT-2008	2.5021	2.5758	25.00	25.74	ug/L	3	25	
1,2-Dichlorobenzene	458423841005	20-OCT-2008	1.7858	1.7263	25.00	24.17	ug/L	-3	25	
1,2-Dibromo-3-Chloropropane	458423841005	20-OCT-2008	0.2195	0.2071	25.00	23.59	ug/L	-6	25	
1,2,4-Trichlorobenzene	458423841005	20-OCT-2008	1.1076	1.1821	25.00	26.68	ug/L	7	25	
Hexachlorobutadiene	458423841005	20-OCT-2008	0.4286	0.4833	25.00	28.19	ug/L	13	25	
Naphthalene	458423841005	20-OCT-2008	3.0554	3.3224	25.00	27.19	ug/L	9	25	
1,2,3-Trichlorobenzene	458423841005	20-OCT-2008	1.0757	1.1594	25.00	26.94	ug/L	8	25	

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 206926 MSVOA Water
EPA 8260B

Inst : MSVOA05 Run Name : 20PPB IDF : 1.0
Seqnum : 448431344003.2 File : ejp03 Time : 25-OCT-2008 13:50
Caltype : WATER
Standards: S10323 (20000X), S10449 (20000X), S9073 (40000X), S10427 (20000X), S10151 (5000X)

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	448403675001	06-OCT-2008	0.6480	0.8521	25.00	32.87	ug/L	**31**	20	0.0500	c+ m ***
Chloromethane	448403675001	06-OCT-2008	0.6341	0.6221	25.00	24.53	ug/L	-2	20	0.1000	m
Vinyl Chloride	448403675001	06-OCT-2008	0.4802	0.5633	25.00	29.33	ug/L	17	20	0.0500	m
Bromomethane	448403675001	06-OCT-2008	0.3475	0.3255	25.00	23.42	ug/L	-6	20	0.0500	m
Chloroethane	448403675001	06-OCT-2008	0.2505	0.2818	25.00	28.12	ug/L	12	20	0.0500	
Trichlorofluoromethane	448403675001	06-OCT-2008	0.6895	0.8435	25.00	30.58	ug/L	**22**	20	0.0500	c+ ***
Acetone	448403675001	06-OCT-2008	0.2381	0.2519	25.00	26.45	ug/L	6	20	0.0500	
1,1-Dichloroethene	448403675001	06-OCT-2008	0.2932	0.3507	25.00	29.90	ug/L	20	20	0.0500	
Iodomethane	448403675001	06-OCT-2008	0.4716	0.2898	25.00	15.36	ug/L	**-39**	20	0.0500	c- m ***
Methylene Chloride	448403675001	06-OCT-2008	0.4417	0.5227	25.00	29.59	ug/L	18	20	0.0500	
Carbon Disulfide	448403675001	06-OCT-2008	1.0729	1.3566	25.00	31.61	ug/L	**26**	20	0.0500	c+ ***
MTBE	448403675001	06-OCT-2008	1.6884	1.6032	25.00	23.74	ug/L	-5	20	0.0500	
trans-1,2-Dichloroethene	448403675001	06-OCT-2008	0.4631	0.4818	25.00	26.01	ug/L	4	20	0.0500	
Vinyl Acetate	448403675001	06-OCT-2008	1.3926	1.5316	25.00	27.50	ug/L	10	20	0.0500	
1,1-Dichloroethane	448403675001	06-OCT-2008	0.8615	0.8154	25.00	23.66	ug/L	-5	20	0.1000	
2-Butanone	448403675001	06-OCT-2008	0.4085	0.3961	25.00	24.24	ug/L	-3	20	0.0500	
2,2-Dichloropropane	448403675001	06-OCT-2008	0.5047	0.6258	25.00	31.00	ug/L	**24**	20	0.0500	c+ ***
cis-1,2-Dichloroethene	448403675001	06-OCT-2008	0.5382	0.5100	25.00	23.69	ug/L	-5	20	0.0500	
Chloroform	448403675001	06-OCT-2008	0.9559	0.9191	25.00	24.04	ug/L	-4	20	0.0500	
Bromochloromethane	448403675001	06-OCT-2008	0.2470	0.2423	25.00	24.52	ug/L	-2	20	0.0500	
1,1,1-Trichloroethane	448403675001	06-OCT-2008	0.6788	0.6631	25.00	24.42	ug/L	-2	20	0.0500	
1,1-Dichloropropene	448403675001	06-OCT-2008	0.3879	0.4216	25.00	27.17	ug/L	9	20	0.0500	
Carbon Tetrachloride	448403675001	06-OCT-2008	0.3681	0.4035	25.00	27.40	ug/L	10	20	0.0500	
1,2-Dichloroethane	448403675001	06-OCT-2008	0.5261	0.5276	25.00	25.07	ug/L	0	20	0.0500	
Benzene	448403675001	06-OCT-2008	1.1807	1.2146	25.00	25.72	ug/L	3	20	0.0500	
Trichloroethene	448403675001	06-OCT-2008	0.3423	0.3359	25.00	24.54	ug/L	-2	20	0.0500	
1,2-Dichloropropane	448403675001	06-OCT-2008	0.3548	0.3360	25.00	23.68	ug/L	-5	20	0.0500	
Bromodichloromethane	448403675001	06-OCT-2008	0.5111	0.5204	25.00	25.46	ug/L	2	20	0.0500	
Dibromomethane	448403675001	06-OCT-2008	0.3025	0.3034	25.00	25.07	ug/L	0	20	0.0500	
4-Methyl-2-Pentanone	448403675001	06-OCT-2008	0.5476	0.5330	25.00	24.33	ug/L	-3	20	0.0500	
cis-1,3-Dichloropropene	448403675001	06-OCT-2008	0.5264	0.5539	25.00	26.31	ug/L	5	20	0.0500	
Toluene	448403675001	06-OCT-2008	0.6883	0.7086	25.00	25.74	ug/L	3	20	0.0500	
trans-1,3-Dichloropropene	448403675001	06-OCT-2008	0.5310	0.5652	25.00	26.61	ug/L	6	20	0.0500	
1,1,2-Trichloroethane	448403675001	06-OCT-2008	0.1922	0.1982	25.00	25.78	ug/L	3	20	0.0500	
2-Hexanone	448403675001	06-OCT-2008	0.4669	0.4443	25.00	23.79	ug/L	-5	20	0.0500	
1,3-Dichloropropane	448403675001	06-OCT-2008	0.6533	0.6772	25.00	25.92	ug/L	4	20	0.0500	
Tetrachloroethene	448403675001	06-OCT-2008	0.3497	0.3811	25.00	27.24	ug/L	9	20	0.0500	
Dibromochloromethane	448403675001	06-OCT-2008	0.4541	0.5069	25.00	27.91	ug/L	12	20	0.0500	
1,2-Dibromoethane	448403675001	06-OCT-2008	0.3859	0.3874	25.00	25.10	ug/L	0	20	0.0500	
Chlorobenzene	448403675001	06-OCT-2008	0.9125	0.9616	25.00	26.35	ug/L	5	20	0.3000	
1,1,1,2-Tetrachloroethane	448403675001	06-OCT-2008	0.3326	0.3454	25.00	25.96	ug/L	4	20	0.0500	
Ethylbenzene	448403675001	06-OCT-2008	1.5039	1.6262	25.00	27.03	ug/L	8	20	0.0500	
m,p-Xylenes	448403675001	06-OCT-2008	0.5181	0.5588	50.00	53.93	ug/L	8	20	0.0500	
o-Xylene	448403675001	06-OCT-2008	0.5460	0.5459	25.00	25.00	ug/L	0	20	0.0500	
Styrene	448403675001	06-OCT-2008	0.9899	1.0449	25.00	26.39	ug/L	6	20	0.0500	
Bromoform	448403675001	06-OCT-2008	0.3869	0.4585	25.00	29.63	ug/L	19	20	0.1000	
Isopropylbenzene	448403675001	06-OCT-2008	2.4140	2.5166	25.00	26.06	ug/L	4	20	0.0500	

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	448403675001	06-OCT-2008	1.1237	1.2141	25.00	27.01	ug/L	8	20	0.3000	
1,2,3-Trichloropropane	448403675001	06-OCT-2008	0.9163	0.9241	25.00	25.21	ug/L	1	20	0.0500	m
Propylbenzene	448403675001	06-OCT-2008	3.0317	3.1387	25.00	25.88	ug/L	4	20	0.0500	
Bromobenzene	448403675001	06-OCT-2008	0.8117	0.8806	25.00	27.12	ug/L	8	20	0.0500	
1,3,5-Trimethylbenzene	448403675001	06-OCT-2008	1.9381	2.0092	25.00	25.92	ug/L	4	20	0.0500	
2-Chlorotoluene	448403675001	06-OCT-2008	2.1983	2.2345	25.00	25.41	ug/L	2	20	0.0500	
4-Chlorotoluene	448403675001	06-OCT-2008	2.0945	2.1353	25.00	25.49	ug/L	2	20	0.0500	
tert-Butylbenzene	448403675001	06-OCT-2008	1.4965	1.5299	25.00	25.56	ug/L	2	20	0.0500	
1,2,4-Trimethylbenzene	448403675001	06-OCT-2008	1.9326	2.0354	25.00	26.33	ug/L	5	20	0.0500	
sec-Butylbenzene	448403675001	06-OCT-2008	2.3930	2.2631	25.00	23.64	ug/L	-5	20	0.0500	
para-Isopropyl Toluene	448403675001	06-OCT-2008	1.8166	1.7660	25.00	24.30	ug/L	-3	20	0.0500	
1,3-Dichlorobenzene	448403675001	06-OCT-2008	1.3153	1.3746	25.00	26.13	ug/L	5	20	0.0500	
1,4-Dichlorobenzene	448403675001	06-OCT-2008	1.3594	1.4384	25.00	26.45	ug/L	6	20	0.0500	
n-Butylbenzene	448403675001	06-OCT-2008	1.6726	1.6475	25.00	24.63	ug/L	-1	20	0.0500	
1,2-Dichlorobenzene	448403675001	06-OCT-2008	1.2742	1.3917	25.00	27.31	ug/L	9	20	0.0500	
1,2-Dibromo-3-Chloropropane	448403675001	06-OCT-2008	0.1912	0.1911	25.00	24.98	ug/L	0	20	0.0500	
1,2,4-Trichlorobenzene	448403675001	06-OCT-2008	0.6828	0.6896	25.00	25.25	ug/L	1	20	0.0500	
Hexachlorobutadiene	448403675001	06-OCT-2008	0.2716	0.2531	25.00	23.29	ug/L	-7	20	0.0500	
Naphthalene	448403675001	06-OCT-2008	1.0387	1.0814	25.00	23.17	ug/L	-7	20	0.0500	
1,2,3-Trichlorobenzene	448403675001	06-OCT-2008	0.6040	0.6493	25.00	26.88	ug/L	8	20	0.0500	
Dibromofluoromethane	448429597001	24-OCT-2008	0.5627	0.5797	50.00	51.51	ug/L	3	20	0.0500	
1,2-Dichloroethane-d4	448429597001	24-OCT-2008	0.5160	0.4745	50.00	45.98	ug/L	-8	20	0.0500	
Toluene-d8	448429597001	24-OCT-2008	1.0615	1.0790	50.00	50.83	ug/L	2	20	0.0500	
Bromofluorobenzene	448429597001	24-OCT-2008	1.1507	1.1146	50.00	48.43	ug/L	-3	20	0.0500	

ISTD (ICAL ej622)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	981909	987321	0.55	9.73	9.73	0.00
1,4-Difluorobenzene	1417973	1282367	-9.56	10.85	10.85	0.00
Chlorobenzene-d5	1195383	1033724	-13.52	14.96	14.96	0.00
1,4-Dichlorobenzene-d4	671197	578813	-13.76	17.69	17.69	0.01

ISTD (ICAL ejo03)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1132917	987321	-12.85	9.73	9.73	0.00
1,4-Difluorobenzene	1426191	1282367	-10.08	10.84	10.85	0.01
1,4-Dichlorobenzene-d4	636267	578813	-9.03	17.68	17.69	0.01

BO 10/27/08 [Freon 12]: Corrected fronting or tailing peak integration . [general version]

BO 10/27/08 [Chloromethane]: Corrected fronting or tailing peak integration . [general version]

BO 10/27/08 [Vinyl Chloride]: Corrected fronting or tailing peak integration . [general version]

BO 10/27/08 [Bromomethane]: Corrected fronting or tailing peak integration . [general version]

BO 10/27/08 [Iodomethane]: Corrected fronting or tailing peak integration . [general version]

BO 10/27/08 [1,2,3-Trichloropropane]: Corrected fronting or tailing peak integration . [general version]

Analyst: BO Date: 10/27/08 Reviewer: ACM Date: 10/27/08

+=high bias -=low bias c=CCV m=manual integration

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 206926 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : 20PPB IDF : 1.0
Seqnum : 458429605003.1 File : fjo03 Time : 24-OCT-2008 09:07
Cal : 458419546001 Caldate : 17-OCT-2008 Caltype : WATER
Standards: S10513 (25000X), S10427 (25000X), S9073 (50000X), S10449 (25000X), S10447 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.7830	0.6373	20.00	16.28	ug/L	-19	20	0.0500	
Chloromethane	1.1519	1.0833	20.00	18.81	ug/L	-6	20	0.1000	
Vinyl Chloride	0.7837	0.7013	20.00	17.90	ug/L	-11	20	0.0500	
Bromomethane	0.4017	0.3566	20.00	17.75	ug/L	-11	20	0.0500	
Chloroethane	0.4131	0.4263	20.00	20.64	ug/L	3	20	0.0500	
Trichlorofluoromethane	0.5930	0.4739	20.00	15.98	ug/L	-20	20	0.0500	
Acetone	0.3615	0.3181	20.00	17.60	ug/L	-12	20	0.0500	
1,1-Dichloroethene	0.5475	0.4873	20.00	17.80	ug/L	-11	20	0.0500	
Iodomethane	0.6138	0.5120	20.00	15.07	ug/L	**-25**	20	0.0500	c- ***
Methylene Chloride	0.8674	0.8606	20.00	19.85	ug/L	-1	20	0.0500	
Carbon Disulfide	2.2635	1.8599	20.00	16.43	ug/L	-18	20	0.0500	
MTBE	2.0234	2.0655	20.00	20.42	ug/L	2	20	0.0500	
trans-1,2-Dichloroethene	0.6405	0.6423	20.00	20.06	ug/L	0	20	0.0500	
Vinyl Acetate	1.8395	2.0019	20.00	21.77	ug/L	9	20	0.0500	
1,1-Dichloroethane	1.2739	1.2933	20.00	20.30	ug/L	2	20	0.1000	
2-Butanone	0.4653	0.4923	20.00	21.16	ug/L	6	20	0.0500	
2,2-Dichloropropane	0.6786	0.8133	20.00	23.97	ug/L	20	20	0.0500	
cis-1,2-Dichloroethene	0.7106	0.7610	20.00	21.42	ug/L	7	20	0.0500	
Chloroform	1.1474	1.1988	20.00	20.90	ug/L	4	20	0.0500	
Bromochloromethane	0.4198	0.4378	20.00	20.86	ug/L	4	20	0.0500	
1,1,1-Trichloroethane	0.6829	0.7568	20.00	22.16	ug/L	11	20	0.0500	
1,1-Dichloropropene	0.4800	0.4744	20.00	19.77	ug/L	-1	20	0.0500	
Carbon Tetrachloride	0.3794	0.3973	20.00	20.94	ug/L	5	20	0.0500	
1,2-Dichloroethane	0.5065	0.5200	20.00	20.53	ug/L	3	20	0.0500	
Benzene	1.5444	1.5246	20.00	19.74	ug/L	-1	20	0.0500	
Trichloroethene	0.3781	0.3801	20.00	20.11	ug/L	1	20	0.0500	
1,2-Dichloropropane	0.4681	0.4920	20.00	21.02	ug/L	5	20	0.0500	
Bromodichloromethane	0.5105	0.5404	20.00	21.17	ug/L	6	20	0.0500	
Dibromomethane	0.3173	0.3373	20.00	21.26	ug/L	6	20	0.0500	
4-Methyl-2-Pentanone	0.5808	0.5530	20.00	19.04	ug/L	-5	20	0.0500	
cis-1,3-Dichloropropene	0.6486	0.6758	20.00	20.84	ug/L	4	20	0.0500	
Toluene	0.8825	0.8829	20.00	20.01	ug/L	0	20	0.0500	
trans-1,3-Dichloropropene	0.5741	0.6137	20.00	21.38	ug/L	7	20	0.0500	
1,1,2-Trichloroethane	0.2269	0.2388	20.00	21.05	ug/L	5	20	0.0500	
2-Hexanone	0.4759	0.4735	20.00	19.90	ug/L	-1	20	0.0500	
1,3-Dichloropropane	0.7570	0.7864	20.00	20.78	ug/L	4	20	0.0500	
Tetrachloroethene	0.4163	0.4571	20.00	21.96	ug/L	10	20	0.0500	
Dibromochloromethane	0.5363	0.5837	20.00	21.77	ug/L	9	20	0.0500	
1,2-Dibromoethane	0.4562	0.4865	20.00	21.33	ug/L	7	20	0.0500	
Chlorobenzene	1.2121	1.3090	20.00	21.60	ug/L	8	20	0.3000	
1,1,1,2-Tetrachloroethane	0.4244	0.4629	20.00	21.81	ug/L	9	20	0.0500	
Ethylbenzene	1.8085	1.9626	20.00	21.70	ug/L	9	20	0.0500	
m,p-Xylenes	0.7063	0.7677	40.00	43.48	ug/L	9	20	0.0500	
o-Xylene	0.7249	0.7835	20.00	21.61	ug/L	8	20	0.0500	
Styrene	1.2638	1.3528	20.00	21.41	ug/L	7	20	0.0500	
Bromoform	0.3989	0.4169	20.00	20.90	ug/L	5	20	0.1000	
Isopropylbenzene	2.9967	3.0740	20.00	20.52	ug/L	3	20	0.0500	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	1.3314	1.3156	20.00	19.76	ug/L	-1	20	0.3000	
1,2,3-Trichloropropane	0.9878	0.9866	20.00	19.98	ug/L	0	20	0.0500	
Propylbenzene	3.7672	4.0771	20.00	21.65	ug/L	8	20	0.0500	
Bromobenzene	1.0357	1.0552	20.00	20.38	ug/L	2	20	0.0500	
1,3,5-Trimethylbenzene	2.5959	2.7276	20.00	21.01	ug/L	5	20	0.0500	
2-Chlorotoluene	2.6386	2.6750	20.00	20.28	ug/L	1	20	0.0500	
4-Chlorotoluene	2.5311	2.5793	20.00	20.38	ug/L	2	20	0.0500	
tert-Butylbenzene	2.1909	2.2172	20.00	20.24	ug/L	1	20	0.0500	
1,2,4-Trimethylbenzene	2.6948	2.8645	20.00	21.26	ug/L	6	20	0.0500	
sec-Butylbenzene	3.1980	3.3386	20.00	20.88	ug/L	4	20	0.0500	
para-Isopropyl Toluene	2.7964	2.9069	20.00	20.79	ug/L	4	20	0.0500	
1,3-Dichlorobenzene	1.8241	1.8286	20.00	20.05	ug/L	0	20	0.0500	
1,4-Dichlorobenzene	1.9224	1.9558	20.00	20.35	ug/L	2	20	0.0500	
n-Butylbenzene	2.5021	2.6792	20.00	21.42	ug/L	7	20	0.0500	
1,2-Dichlorobenzene	1.7858	1.7684	20.00	19.81	ug/L	-1	20	0.0500	
1,2-Dibromo-3-Chloropropane	0.2195	0.2070	20.00	18.86	ug/L	-6	20	0.0500	
1,2,4-Trichlorobenzene	1.1076	1.0922	20.00	19.72	ug/L	-1	20	0.0500	
Hexachlorobutadiene	0.4286	0.4346	20.00	20.28	ug/L	1	20	0.0500	
Naphthalene	3.0554	3.0656	20.00	20.07	ug/L	0	20	0.0500	
1,2,3-Trichlorobenzene	1.0757	1.0630	20.00	19.76	ug/L	-1	20	0.0500	
Dibromofluoromethane	0.6235	0.6675	50.00	53.53	ug/L	7	20	0.0500	
1,2-Dichloroethane-d4	0.3334	0.3452	50.00	51.77	ug/L	4	20	0.0500	
Toluene-d8	1.0213	1.0321	50.00	50.53	ug/L	1	20	0.0500	
Bromofluorobenzene	0.9386	0.9490	50.00	50.55	ug/L	1	20	0.0500	

ISTD (ICAL fjh19)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	700474	801821	14.47	11.79	11.78	-0.01
1,4-Difluorobenzene	1103874	1339282	21.33	13.10	13.09	-0.01
Chlorobenzene-d5	945760	1129081	19.38	17.85	17.85	0.00
1,4-Dichlorobenzene-d4	506987	641273	26.49	20.71	20.71	0.00

Analyst: BO Date: 10/27/08 Reviewer: ACM Date: 10/27/08

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 206926 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : 20PPB IDF : 1.0
Seqnum : 458429605013.1 File : fjo13 Time : 24-OCT-2008 14:47
Cal : 458419546001 Caldate : 17-OCT-2008 Caltype : WATER
Standards: S10447 (1000X), S10513 (25000X), S10427 (25000X), S9073 (50000X), S10449 (25000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.7830	0.5606	20.00	14.32	ug/L	**-28**	20	0.0500	c- ***
Chloromethane	1.1519	0.9916	20.00	17.22	ug/L	-14	20	0.1000	
Vinyl Chloride	0.7837	0.6512	20.00	16.62	ug/L	-17	20	0.0500	
Bromomethane	0.4017	0.3312	20.00	16.49	ug/L	-18	20	0.0500	
Chloroethane	0.4131	0.3886	20.00	18.81	ug/L	-6	20	0.0500	
Trichlorofluoromethane	0.5930	0.4305	20.00	14.52	ug/L	**-27**	20	0.0500	c- ***
Acetone	0.3615	0.2638	20.00	14.59	ug/L	**-27**	20	0.0500	c- ***
1,1-Dichloroethene	0.5475	0.4556	20.00	16.64	ug/L	-17	20	0.0500	
Iodomethane	0.6138	0.5067	20.00	14.93	ug/L	**-25**	20	0.0500	c- ***
Methylene Chloride	0.8674	0.7863	20.00	18.13	ug/L	-9	20	0.0500	
Carbon Disulfide	2.2635	1.6690	20.00	14.75	ug/L	**-26**	20	0.0500	c- ***
MTBE	2.0234	1.8686	20.00	18.47	ug/L	-8	20	0.0500	
trans-1,2-Dichloroethene	0.6405	0.6119	20.00	19.11	ug/L	-4	20	0.0500	
Vinyl Acetate	1.8395	1.8671	20.00	20.30	ug/L	2	20	0.0500	
1,1-Dichloroethane	1.2739	1.1797	20.00	18.52	ug/L	-7	20	0.1000	
2-Butanone	0.4653	0.4387	20.00	18.86	ug/L	-6	20	0.0500	
2,2-Dichloropropane	0.6786	0.6804	20.00	20.05	ug/L	0	20	0.0500	
cis-1,2-Dichloroethene	0.7106	0.7195	20.00	20.25	ug/L	1	20	0.0500	
Chloroform	1.1474	1.1275	20.00	19.65	ug/L	-2	20	0.0500	
Bromochloromethane	0.4198	0.4174	20.00	19.89	ug/L	-1	20	0.0500	
1,1,1-Trichloroethane	0.6829	0.6761	20.00	19.80	ug/L	-1	20	0.0500	
1,1-Dichloropropene	0.4800	0.4508	20.00	18.78	ug/L	-6	20	0.0500	
Carbon Tetrachloride	0.3794	0.3467	20.00	18.27	ug/L	-9	20	0.0500	
1,2-Dichloroethane	0.5065	0.5164	20.00	20.39	ug/L	2	20	0.0500	
Benzene	1.5444	1.4819	20.00	19.19	ug/L	-4	20	0.0500	
Trichloroethene	0.3781	0.3552	20.00	18.79	ug/L	-6	20	0.0500	
1,2-Dichloropropane	0.4681	0.4487	20.00	19.17	ug/L	-4	20	0.0500	
Bromodichloromethane	0.5105	0.4972	20.00	19.48	ug/L	-3	20	0.0500	
Dibromomethane	0.3173	0.3040	20.00	19.16	ug/L	-4	20	0.0500	
4-Methyl-2-Pentanone	0.5808	0.5259	20.00	18.11	ug/L	-9	20	0.0500	
cis-1,3-Dichloropropene	0.6486	0.6270	20.00	19.33	ug/L	-3	20	0.0500	
Toluene	0.8825	0.8340	20.00	18.90	ug/L	-6	20	0.0500	
trans-1,3-Dichloropropene	0.5741	0.5746	20.00	20.02	ug/L	0	20	0.0500	
1,1,2-Trichloroethane	0.2269	0.2270	20.00	20.01	ug/L	0	20	0.0500	
2-Hexanone	0.4759	0.4267	20.00	17.93	ug/L	-10	20	0.0500	
1,3-Dichloropropane	0.7570	0.7610	20.00	20.11	ug/L	1	20	0.0500	
Tetrachloroethene	0.4163	0.4103	20.00	19.71	ug/L	-1	20	0.0500	
Dibromochloromethane	0.5363	0.5442	20.00	20.29	ug/L	1	20	0.0500	
1,2-Dibromoethane	0.4562	0.4721	20.00	20.70	ug/L	3	20	0.0500	
Chlorobenzene	1.2121	1.2014	20.00	19.82	ug/L	-1	20	0.3000	
1,1,1,2-Tetrachloroethane	0.4244	0.4293	20.00	20.23	ug/L	1	20	0.0500	
Ethylbenzene	1.8085	1.8219	20.00	20.15	ug/L	1	20	0.0500	
m,p-Xylenes	0.7063	0.7056	40.00	39.96	ug/L	0	20	0.0500	
o-Xylene	0.7249	0.7100	20.00	19.59	ug/L	-2	20	0.0500	
Styrene	1.2638	1.2749	20.00	20.18	ug/L	1	20	0.0500	
Bromoform	0.3989	0.3989	20.00	20.00	ug/L	0	20	0.1000	
Isopropylbenzene	2.9967	2.9942	20.00	19.98	ug/L	0	20	0.0500	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	1.3314	1.3376	20.00	20.09	ug/L	0	20	0.3000	
1,2,3-Trichloropropane	0.9878	0.9888	20.00	20.02	ug/L	0	20	0.0500	
Propylbenzene	3.7672	3.8801	20.00	20.60	ug/L	3	20	0.0500	
Bromobenzene	1.0357	1.0516	20.00	20.31	ug/L	2	20	0.0500	
1,3,5-Trimethylbenzene	2.5959	2.5208	20.00	19.42	ug/L	-3	20	0.0500	
2-Chlorotoluene	2.6386	2.4588	20.00	18.64	ug/L	-7	20	0.0500	
4-Chlorotoluene	2.5311	2.4645	20.00	19.47	ug/L	-3	20	0.0500	
tert-Butylbenzene	2.1909	2.1977	20.00	20.06	ug/L	0	20	0.0500	
1,2,4-Trimethylbenzene	2.6948	2.6302	20.00	19.52	ug/L	-2	20	0.0500	
sec-Butylbenzene	3.1980	3.2257	20.00	20.17	ug/L	1	20	0.0500	
para-Isopropyl Toluene	2.7964	2.7611	20.00	19.75	ug/L	-1	20	0.0500	
1,3-Dichlorobenzene	1.8241	1.7624	20.00	19.32	ug/L	-3	20	0.0500	
1,4-Dichlorobenzene	1.9224	1.8671	20.00	19.43	ug/L	-3	20	0.0500	
n-Butylbenzene	2.5021	2.4677	20.00	19.73	ug/L	-1	20	0.0500	
1,2-Dichlorobenzene	1.7858	1.6865	20.00	18.89	ug/L	-6	20	0.0500	
1,2-Dibromo-3-Chloropropane	0.2195	0.2021	20.00	18.41	ug/L	-8	20	0.0500	
1,2,4-Trichlorobenzene	1.1076	1.0320	20.00	18.63	ug/L	-7	20	0.0500	
Hexachlorobutadiene	0.4286	0.4123	20.00	19.24	ug/L	-4	20	0.0500	
Naphthalene	3.0554	3.0635	20.00	20.05	ug/L	0	20	0.0500	
1,2,3-Trichlorobenzene	1.0757	1.0086	20.00	18.75	ug/L	-6	20	0.0500	
Dibromofluoromethane	0.6235	0.6514	50.00	52.24	ug/L	4	20	0.0500	
1,2-Dichloroethane-d4	0.3334	0.3634	50.00	54.50	ug/L	9	20	0.0500	
Toluene-d8	1.0213	1.0425	50.00	51.04	ug/L	2	20	0.0500	
Bromofluorobenzene	0.9386	0.9931	50.00	52.90	ug/L	6	20	0.0500	

ISTD (ICAL fjh19)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	700474	816932	16.63	11.79	11.79	0.00
1,4-Difluorobenzene	1103874	1344513	21.80	13.10	13.10	0.00
Chlorobenzene-d5	945760	1138248	20.35	17.85	17.85	0.00
1,4-Dichlorobenzene-d4	506987	618372	21.97	20.71	20.71	0.00

Analyst: BO Date: 10/27/08 Reviewer: ACM Date: 10/27/08

-=low bias c=CCV

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 448431344

Date : 10/25/08 Reference : ej622
Sequence : MSVOA05 ejp Analyzed : 10/06/08 21:34

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	981909	9.73	1417973	10.85	1195383	14.96	671197	17.69
		LOWER LIMIT	490955	9.23	708987	10.35	597692	14.46	335599	17.19
		UPPER LIMIT	1963818	10.23	2835946	11.35	2390766	15.46	1342394	18.19
003	CCV	20PPB	987321	9.73	1282367	10.85	1033724	14.96	578813	17.69
004	BS	QC467123	1040330	9.73	1294331	10.84	1057006	14.95	585863	17.68
005	BSD	QC467124	1055555	9.73	1332312	10.84	1049330	14.95	598354	17.68
007	BLANK	QC467122	1014471	9.73	1310240	10.84	1054116	14.95	487183	17.68
008	SAMPLE	206946-013	1005572	9.73	1244015	10.84	1014553	14.95	520700	17.68
009	SAMPLE	206946-014	960508	9.73	1252608	10.84	1044063	14.96	496510	17.68
010	SAMPLE	206845-001	973664	9.73	1258406	10.84	1012700	14.95	513797	17.68
011	SAMPLE	206918-005	1020508	9.73	1243685	10.84	1043490	14.96	546318	17.68
012	SAMPLE	206918-008	1023137	9.73	1298324	10.85	1080112	14.96	523377	17.68
013	SAMPLE	206946-002	1056103	9.73	1296083	10.84	1051895	14.95	491603	17.68
014	SAMPLE	206946-003	1007507	9.73	1275206	10.85	979129	14.96	490943	17.68
015	SAMPLE	206946-004	1004538	9.73	1236254	10.84	1055677	14.96	486972	17.68
016	SAMPLE	206946-005	953522	9.73	1253092	10.84	1019204	14.96	493477	17.68
017	SAMPLE	206946-006	983955	9.73	1241461	10.85	991912	14.96	468015	17.68
018	SAMPLE	206946-007	948671	9.73	1207980	10.84	970327	14.95	453559	17.68
019	SAMPLE	206946-008	943717	9.73	1196656	10.84	946355	14.96	465340	17.68
020	SAMPLE	206926-002	951136	9.73	1161546	10.84	925799	14.96	507800	17.68
021	SAMPLE	206918-004	979400	9.73	1246781	10.85	1079999	14.96	584958	17.68
022	SAMPLE	206937-002	1048729	9.73	1303912	10.85	1036659	14.96	559259	17.68
023	SAMPLE	206937-001	1049026	9.73	1336528	10.84	1062990	14.95	515283	17.68
024	SAMPLE	206997-011	1034997	9.73	1303515	10.84	1064328	14.96	485857	17.68

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 448431344

Date : 10/25/08 Reference : ejo03
Sequence : MSVOA05 ejp Analyzed : 10/24/08 08:45

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	DCBZ14D4	RT
		ICAL STD	1132917	9.73	1426191	10.84	636267	17.68
		LOWER LIMIT	566459	9.23	713096	10.34	318134	17.18
		UPPER LIMIT	2265834	10.23	2852382	11.34	1272534	18.18
003	CCV	20PPB	987321	9.73	1282367	10.85	578813	17.69
004	BS	QC467123	1040330	9.73	1294331	10.84	585863	17.68
005	BSD	QC467124	1055555	9.73	1332312	10.84	598354	17.68
007	BLANK	QC467122	1014471	9.73	1310240	10.84	487183	17.68
008	SAMPLE	206946-013	1005572	9.73	1244015	10.84	520700	17.68
009	SAMPLE	206946-014	960508	9.73	1252608	10.84	496510	17.68
010	SAMPLE	206845-001	973664	9.73	1258406	10.84	513797	17.68
011	SAMPLE	206918-005	1020508	9.73	1243685	10.84	546318	17.68
012	SAMPLE	206918-008	1023137	9.73	1298324	10.85	523377	17.68
013	SAMPLE	206946-002	1056103	9.73	1296083	10.84	491603	17.68
014	SAMPLE	206946-003	1007507	9.73	1275206	10.85	490943	17.68
015	SAMPLE	206946-004	1004538	9.73	1236254	10.84	486972	17.68
016	SAMPLE	206946-005	953522	9.73	1253092	10.84	493477	17.68
017	SAMPLE	206946-006	983955	9.73	1241461	10.85	468015	17.68
018	SAMPLE	206946-007	948671	9.73	1207980	10.84	453559	17.68
019	SAMPLE	206946-008	943717	9.73	1196656	10.84	465340	17.68
020	SAMPLE	206926-002	951136	9.73	1161546	10.84	507800	17.68
021	SAMPLE	206918-004	979400	9.73	1246781	10.85	584958	17.68
022	SAMPLE	206937-002	1048729	9.73	1303912	10.85	559259	17.68
023	SAMPLE	206937-001	1049026	9.73	1336528	10.84	515283	17.68
024	SAMPLE	206997-011	1034997	9.73	1303515	10.84	485857	17.68

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 458429605

Date : 10/24/08 Reference : fjh19
Sequence : MSVOA06 fjo Analyzed : 10/17/08 21:38

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	700474	11.79	1103874	13.10	945760	17.85	506987	20.71
		LOWER LIMIT	350237	11.29	551937	12.60	472880	17.35	253494	20.21
		UPPER LIMIT	1400948	12.29	2207748	13.60	1891520	18.35	1013974	21.21
003	CCV	20PPB	801821	11.78	1339282	13.09	1129081	17.85	641273	20.71
004	LCS	QC466936	781548	11.79	1261880	13.10	1097063	17.85	555370	20.70
006	BLANK	QC466937	761461	11.79	1293342	13.10	1056787	17.85	570529	20.70
007	MSS	206918-001	739522	11.79	1229856	13.10	1061566	17.85	582752	20.70
008	SAMPLE	206918-002	754287	11.79	1283095	13.10	1114204	17.85	602493	20.70
009	MS	QC466954	781170	11.80	1271858	13.10	1100258	17.85	583372	20.71
010	MSD	QC466955	757501	11.79	1247362	13.10	1070393	17.85	592468	20.70
013	CCV	20PPB	816932	11.79	1344513	13.10	1138248	17.85	618372	20.71
015	BLANK	QC466938	764546	11.79	1247494	13.10	1059518	17.85	573671	20.71
016	SAMPLE	206940-002	760313	11.79	1262495	13.10	1063272	17.85	583980	20.71
017	SAMPLE	206926-004	772518	11.80	1262268	13.11	1143196	17.86	579640	20.71
018	SAMPLE	206926-001	765227	11.79	1261354	13.10	1091523	17.85	581456	20.71
019	SAMPLE	206926-002	780373	11.80	1326169	13.11	1135758	17.86	606807	20.71
020	SAMPLE	206926-003	792954	11.80	1351495	13.11	1140299	17.86	595834	20.72
021	SAMPLE	206940-001	847158	11.80	1339835	13.11	1153269	17.85	609292	20.71
022	SAMPLE	206940-005	823378	11.80	1359164	13.11	1182238	17.86	626476	20.71
023	SAMPLE	206918-007	791086	11.80	1326072	13.10	1127773	17.85	618895	20.70
024	SAMPLE	206918-003	765546	11.79	1251620	13.09	1049361	17.85	560269	20.71
025	SAMPLE	206918-004	758067	11.79	1239143	13.10	1104476	17.85	560024	20.71
026	SAMPLE	206918-005	796286	11.79	1314233	13.10	1112026	17.85	622065	20.70
027	SAMPLE	206918-006	763497	11.79	1299182	13.10	1101997	17.85	607814	20.70
028	SAMPLE	206918-008	764013	11.78	1266528	13.09	1097436	17.85	597897	20.71
029	SAMPLE	206918-009	765093	11.79	1221657	13.10	1108313	17.85	572553	20.70
030	SAMPLE	206918-010	766537	11.79	1200366	13.10	1072273	17.84	573598	20.71
031	SAMPLE	206940-003	777791	11.79	1271956	13.10	1085809	17.85	591460	20.70
032	SAMPLE	206940-004	749756	11.79	1272280	13.09	1073295	17.85	564232	20.71

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 448403675

Instrument : MSVOA05 Begun : 10/06/08 07:55
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	ej601	X	IB			10/06/08 07:55	1.0	1	
002	ej602	X	IB			10/06/08 08:40	1.0	1	
003	ej603	X	LOW PT			10/06/08 09:41	1.0	1	
004	ej604	X	LOW PT			10/06/08 10:13	1.0	1	
005	ej605	X	IB			10/06/08 10:52	1.0	1	
006	ej606	X	IB			10/06/08 11:25	1.0	1	
007	ej607	X	IB			10/06/08 11:57	1.0	1	
008	ej608	X	BFB			10/06/08 13:15	1.0	2	
009	ej609	X	CALIB IB			10/06/08 14:39	1.0	1	
010	ej610	X	0.25/0.5PPB			10/06/08 15:11	1.0	3 4 5 6 1	
011	ej611	TUN	BFB			10/06/08 15:43	1.0	2	
012	ej612	X	IB			10/06/08 16:13	1.0	1	
013	ej613	X	IB			10/06/08 16:45	1.0	1	
014	ej614	X	IB			10/06/08 17:18	1.0	1	
015	ej615	IB	CALIB IB			10/06/08 17:50	1.0	1	
016	ej616	ICAL	0.25/0.5PPB			10/06/08 18:22	1.0	3 4 5 6 1	
017	ej617	ICAL	0.5/1PPB			10/06/08 18:54	1.0	3 4 5 6 1	
018	ej618	ICAL	2PPB			10/06/08 19:26	1.0	3 4 5 6 1	
019	ej619	ICAL	5PPB			10/06/08 19:58	1.0	3 4 5 6 1	
020	ej620	ICAL	10PPB			10/06/08 20:30	1.0	3 4 5 6 1	
021	ej621	ICAL	20PPB			10/06/08 21:02	1.0	3 4 5 6 1	
022	ej622	ICAL	50PPB			10/06/08 21:34	1.0	3 4 5 6 1	
023	ej623	ICAL	75PPB			10/06/08 22:06	1.0	3 4 5 6 1	
024	ej624	ICAL	100PPB			10/06/08 22:39	1.0	3 4 5 6 1	
025	ej625	ICV	25PPB			10/06/08 23:11	1.0	7 1	
026	ej626	X	25PPB			10/06/08 23:43	1.0	8 9 10 1	
027	ej627	X	IB			10/07/08 00:15	1.0	1	
028	ej628	X	IB			10/07/08 00:47	1.0	1	
029	ej629	X	IB			10/07/08 01:19	1.0	1	

BO 10/07/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 29.

Analyst: BO Date: 10/07/08 Reviewer: ACM Date: 10/08/08

Standards used: 1=S10151 2=S9454 3=S10323 4=S10060 5=S9073 6=S10155 7=S10345 8=S10326 9=S10284 10=S10285

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CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 448405106

Instrument : MSVOA05 Begun : 10/07/08 07:46
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	ej701	X	IB			10/07/08 07:46	1.0	1	
002	ej702	X	BFB			10/07/08 09:01	1.0	2	
003	ej703	X	BFB			10/07/08 09:11	1.0	2	
004	ej704	X	BFB			10/07/08 09:30	1.0	2	
005	ej705	X	25PPB			10/07/08 09:58	1.0	3 4 5 6 1	
006	ej706	X				10/07/08 11:08	1.0	7 8 9 1	
007	ej707	TUN	BFB			10/07/08 11:42	1.0	2	
008	ej708	CCV	25PPB			10/07/08 12:08	1.0	3 4 5 6 1	
009	ej709	ICV				10/07/08 12:41	1.0	7 8 9 1	
010	ej710	BS	QC463906	Water	143338	10/07/08 13:13	1.0	8 9 10 1	
011	ej711	BSD	QC463907	Water	143338	10/07/08 13:45	1.0	8 9 10 1	
012	ej712	X	IB			10/07/08 14:17	1.0	1	
013	ej713	BLANK	QC463908	Water	143338	10/07/08 14:50	1.0	1	
014	ej714	SAMPLE	206530-004	Water	143338	10/07/08 15:22	1.0	1	
015	ej715	SAMPLE	206530-001	Water	143338	10/07/08 15:54	1.0	1	7:ETHANOL=10000
016	ej716	SAMPLE	206530-008	Water	143338	10/07/08 16:26	1.0	1	1:BRME=100
017	ej717	SAMPLE	206276-006	Water	143338	10/07/08 16:58	1.0	1	
018	ej718	SAMPLE	206525-003	Water	143338	10/07/08 17:31	1.0	1	1:PCE=120
019	ej719	SAMPLE	206525-008	Water	143338	10/07/08 18:03	1.0	1	
020	ej720	SAMPLE	206525-011	Water	143338	10/07/08 18:35	1.0	1	
021	ej721	SAMPLE	206511-004	Water	143338	10/07/08 19:07	1.0	1	
022	ej722	SAMPLE	206511-005	Water	143338	10/07/08 19:39	1.0	1	
023	ej723	SAMPLE	206511-006	Water	143338	10/07/08 20:11	1.0	1	
024	ej724	SAMPLE	206511-007	Water	143338	10/07/08 20:43	1.0	1	
025	ej725	SAMPLE	206511-008	Water	143338	10/07/08 21:34	1.0	1	
026	ej726	SAMPLE	206511-009	Water	143338	10/07/08 22:06	1.0	1	
027	ej727	SAMPLE	206511-010	Water	143338	10/07/08 22:38	1.0	1	
028	ej728	SAMPLE	206511-011	Water	143338	10/07/08 23:10	1.0	1	

BO 10/07/08 : ej704,ej707, adjusted tune

BO 10/08/08 : Sequence stopped due to syringe not homed error

BO 10/08/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 28.

Analyst: BO Date: 10/08/08 Reviewer: ACM Date: 10/08/08

Standards used: 1=S10151 2=S9454 3=S10323 4=S10060 5=S9073 6=S10155 7=S10284 8=S10326 9=S10285 10=S10345

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 448429597

Instrument : MSVOA05 Begun : 10/24/08 07:57
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	ejo01	X	IB			10/24/08 07:57	1.0	1	
002	ejo02	TUN	BFB			10/24/08 08:28	1.0	2	
003	ejo03	ICAL	SURROGATES			10/24/08 08:45	1.0	1	
004	ejo04	X	IB			10/24/08 09:31	1.0	1	
005	ejo05	X	IB			10/24/08 10:04	1.0	1	
006	ejo06	X	IB			10/24/08 10:36	1.0	1	
007	ejo07	TUN	BFB			10/24/08 11:23	1.0	2	
008	ejo08	CCV	20PPB			10/24/08 11:39	1.0	3 4 5 6 1	
009	ejo09	LCS	QC466975	Water	144060	10/24/08 12:11	1.0	7 8 9 10 1	
010	ejo10	X	IB			10/24/08 12:44	1.0	1	
011	ejo11	X	QC466976	Water	144060	10/24/08 13:14	1.0	1	
012	ejo12	BLANK	QC466976	Water	144060	10/24/08 13:57	1.0	1	
013	ejo13	SAMPLE	206936-005	Water	144060	10/24/08 14:29	1.0	1	
014	ejo14	MSS	206841-005	Water	144060	10/24/08 15:02	1.0	1	
015	ejo15	SAMPLE	206841-006	Water	144060	10/24/08 15:34	1.0	1	
016	ejo16	SAMPLE	206841-007	Water	144060	10/24/08 16:06	1.0	1	
017	ejo17	SAMPLE	206841-008	Water	144060	10/24/08 16:38	1.0	1	
018	ejo18	SAMPLE	206936-001	Water	144060	10/24/08 17:10	1.0	1	
019	ejo19	SAMPLE	206936-008	Water	144060	10/24/08 17:42	1.0	1	
020	ejo20	SAMPLE	206936-009	Water	144060	10/24/08 18:15	1.0	1	
021	ejo21	SAMPLE	206936-010	Water	144060	10/24/08 18:47	1.0	1	
022	ejo22	SAMPLE	206936-011	Water	144060	10/24/08 19:19	1.0	1	
023	ejo23	SAMPLE	206936-012	Water	144060	10/24/08 19:51	1.0	1	
024	ejo24	SAMPLE	206936-013	Water	144060	10/24/08 20:23	1.0	1	
025	ejo25	SAMPLE	206936-014	Water	144060	10/24/08 20:55	1.0	1	
026	ejo26	SAMPLE	206936-015	Water	144060	10/24/08 21:27	1.0	1	
027	ejo27	SAMPLE	206936-016	Water	144060	10/24/08 21:59	3.333	1	
028	ejo28	MS	QC467015	Water	144060	10/24/08 22:31	1.0	1 7 8 9 10	
029	ejo29	MSD	QC467016	Water	144060	10/24/08 23:04	1.0	1 7 8 9 10	
030	ejo30	X	IB			10/24/08 23:36	1.0	1	
031	ejo31	X	IB			10/25/08 00:08	1.0	1	
032	ejo32	X	IB			10/25/08 00:40	1.0	1	

BO 10/24/08 : ejo11, accidentally pressed cancel on chemstation, while blank was running

BO 10/24/08 : ejo07, adjusted tune

BO 10/27/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 32.

Analyst: BO Date: 10/27/08 Reviewer: ACM Date: 10/27/08

Standards used: 1=S10151 2=S9454 3=S10323 4=S10449 5=S9073 6=S10427 7=S10326 8=S10285 9=S10444 10=S10435

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CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 448431344

Instrument : MSVOA05 Begun : 10/25/08 13:04
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	ejp01	X	IB			10/25/08 13:04	1.0	1	
002	ejp02	TUN	BFB			10/25/08 13:33	1.0	2	
003	ejp03	CCV	20PPB			10/25/08 13:50	1.0	3 4 5 6 1	
004	ejp04	BS	QC467123	Water	144094	10/25/08 14:22	1.0	7 8 9 10 1	
005	ejp05	BSD	QC467124	Water	144094	10/25/08 14:54	1.0	7 8 9 10 1	
006	ejp06	X	IB			10/25/08 15:26	1.0	1	
007	ejp07	BLANK	QC467122	Water	144094	10/25/08 15:58	1.0	1	
008	ejp08	SAMPLE	206946-013	Water	144094	10/25/08 16:30	1.0	1	
009	ejp09	SAMPLE	206946-014	Water	144094	10/25/08 17:02	1.0	1	
010	ejp10	SAMPLE	206845-001	Water	144094	10/25/08 17:34	1.0	1	
011	ejp11	SAMPLE	206918-005	Water	144094	10/25/08 18:07	1.0	1	
012	ejp12	SAMPLE	206918-008	Water	144094	10/25/08 18:39	1.0	1	
013	ejp13	SAMPLE	206946-002	Water	144094	10/25/08 19:11	1.0	1	
014	ejp14	SAMPLE	206946-003	Water	144094	10/25/08 19:43	1.0	1	
015	ejp15	SAMPLE	206946-004	Water	144094	10/25/08 20:15	1.0	1	
016	ejp16	SAMPLE	206946-005	Water	144094	10/25/08 20:47	1.0	1	
017	ejp17	SAMPLE	206946-006	Water	144094	10/25/08 21:19	1.0	1	
018	ejp18	SAMPLE	206946-007	Water	144094	10/25/08 21:51	1.0	1	
019	ejp19	SAMPLE	206946-008	Water	144094	10/25/08 22:23	1.0	1	
020	ejp20	SAMPLE	206926-002	Water	144094	10/25/08 22:55	5.0	1	
021	ejp21	SAMPLE	206918-004	Water	144094	10/25/08 23:27	2.500	1	
022	ejp22	SAMPLE	206937-002	Water	144094	10/26/08 00:00	400.0	1	headspace <= 1 mL
023	ejp23	SAMPLE	206937-001	Water	144094	10/26/08 00:32	166.7	1	headspace > 1 mL
024	ejp24	SAMPLE	206997-011	Water	144094	10/26/08 01:04	3.333	1	
025	ejp25	X	IB			10/26/08 01:36	1.0	1	
026	ejp26	X	IB			10/26/08 02:08	1.0	1	
027	ejp27	X	IB			10/26/08 02:40	1.0	1	

BO 10/27/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 27.

Analyst: BO Date: 10/27/08 Reviewer: ACM Date: 10/27/08

Standards used: 1=S10151 2=S9454 3=S10323 4=S10449 5=S9073 6=S10427 7=S10326 8=S10285 9=S10444 10=S10435

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CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 458419546

Instrument : MSVOA06 Begun : 10/17/08 08:26
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	fjh01	X	IB			10/17/08 08:26	1.0	1	
002	fjh02	X	IB			10/17/08 09:00	1.0	1	
003	fjh03	X	IB			10/17/08 10:08	1.0	1	
004	fjh04	X	IB			10/17/08 10:42	1.0	1	
005	fjh05	X	IB			10/17/08 11:16	1.0	1	
006	fjh06	X	LOW PT			10/17/08 11:53	1.0	1	
007	fjh07	X	IB			10/17/08 13:32	1.0	1	
008	fjh08	X	IB			10/17/08 14:06	1.0	1	
009	fjh09	X	IB			10/17/08 14:41	1.0	1	
010	fjh10	TUN	BFB			10/17/08 15:50	1.0	2	
011	fjh11	X	IB			10/17/08 17:07	1.0	1	
012	fjh12	IB	CALIB IB			10/17/08 17:41	1.0	1	
013	fjh13	ICAL	.25/0.5PPB			10/17/08 18:15	1.0	3 4 5 6 1	
014	fjh14	ICAL	0.5/1PPB			10/17/08 18:49	1.0	3 4 5 6 1	
015	fjh15	ICAL	2PPB			10/17/08 19:23	1.0	3 4 5 6 1	
016	fjh16	ICAL	5PPB			10/17/08 19:57	1.0	3 4 5 6 1	
017	fjh17	ICAL	10PPB			10/17/08 20:30	1.0	3 4 5 6 1	
018	fjh18	ICAL	20PPB			10/17/08 21:04	1.0	3 4 5 6 1	
019	fjh19	ICAL	50PPB			10/17/08 21:38	1.0	3 4 5 6 1	
020	fjh20	ICAL	75PPB			10/17/08 22:12	1.0	3 4 5 6 1	
021	fjh21	ICAL	100PPB			10/17/08 22:46	1.0	3 4 5 6 1	
022	fjh22	ICV	25PPB			10/17/08 23:20	1.0	7 1	
023	fjh23	ICV	25PPB			10/17/08 23:54	1.0	8 9 10 1	
024	fjh24	X	IB			10/18/08 00:28	1.0	1	
025	fjh25	X	IB			10/18/08 01:01	1.0	1	
026	fjh26	X	IB			10/18/08 01:35	1.0	1	

BO 10/20/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 26.

Analyst: BO Date: 10/20/08 Reviewer: LW Date: 10/20/08

Standards used: 1=S10447 2=S9454 3=S10513 4=S10427 5=S9073 6=S10449 7=S10444 8=S10326 9=S10435 10=S10285

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CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 458423841

Instrument : MSVOA06 Begun : 10/20/08 08:01
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	fjk01	X	IB			10/20/08 08:01	1.0	1	
002	fjk02	TUN	BFB			10/20/08 08:45	1.0	2	
003	fjk03	CCV	20PPB			10/20/08 09:02	1.0	3 4 5 6 1	
004	fjk04	X				10/20/08 09:51	1.0	7 8 9 1	
005	fjk05	ICV	25PPB			10/20/08 10:44	1.0	7 8 9 1	
006	fjk06	X	QC466176	Water	143870	10/20/08 11:39	1.0	7 10 9 8 1	
007	fjk07	BS	QC466176	Water	143870	10/20/08 12:14	1.0	7 10 9 8 1	
008	fjk08	BSD	QC466177	Water	143870	10/20/08 13:06	1.0	7 10 9 8 1	
009	fjk09	X	BFB			10/20/08 13:41	1.0	2	
010	fjk10	TUN	BFB			10/20/08 13:54	1.0	2	
011	fjk11	CCV	20PPB			10/20/08 14:10	1.0	1 3 4 5 6	
012	fjk12	X	IB			10/20/08 15:07	1.0	1	
013	fjk13	BLANK	QC466178	Water	143870	10/20/08 15:41	1.0	1	
014	fjk14	SAMPLE	206732-005	Water	143870	10/20/08 16:15	1.0	1	
015	fjk15	SAMPLE	206735-015	Water	143870	10/20/08 16:48	1.0	1	
016	fjk16	SAMPLE	206735-008	Water	143870	10/20/08 17:22	1.0	1	
017	fjk17	SAMPLE	206735-009	Water	143870	10/20/08 17:56	1.0	1	
018	fjk18	SAMPLE	206735-010	Water	143870	10/20/08 18:30	1.0	1	
019	fjk19	SAMPLE	206735-011	Water	143870	10/20/08 19:05	1.0	1	
020	fjk20	SAMPLE	206735-012	Water	143870	10/20/08 19:39	1.0	1	
021	fjk21	SAMPLE	206735-013	Water	143870	10/20/08 20:13	1.0	1	
022	fjk22	SAMPLE	206735-014	Water	143870	10/20/08 20:47	1.0	1	
023	fjk23	SAMPLE	206836-001	Water	143870	10/20/08 21:22	1.0	1	pH > 2
024	fjk24	SAMPLE	206878-001	Water	143870	10/20/08 21:56	1.0	1	pH > 2, 1:ACE=190
025	fjk25	SAMPLE	206734-001	Water	143870	10/20/08 22:30	1.0	1	
026	fjk26	SAMPLE	206986-001	Water	143870	10/20/08 23:04	1.0	1	pH > 2
027	fjk27	SAMPLE	206986-003	Water	143870	10/20/08 23:38	1.0	1	pH > 2
028	fjk28	SAMPLE	206986-004	Water	143870	10/21/08 00:12	1.0	1	pH > 2
029	fjk29	SAMPLE	206986-005	Water	143870	10/21/08 00:46	1.0	1	pH > 2
030	fjk30	SAMPLE	206986-002	Water	143870	10/21/08 01:20	10.0	1	pH > 2, 1:DCE12C=180
031	fjk31	X	IB			10/21/08 01:54	1.0	1	
032	fjk32	X	IB			10/21/08 02:29	1.0	1	
033	fjk33	X	IB			10/21/08 03:02	1.0	1	

BO 10/21/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 33.

BO 10/21/08 : fjk10, scanned middle of peak, cannot run AZ samples

Analyst: BO Date: 10/21/08 Reviewer: LW Date: 10/21/08

Standards used: 1=S10447 2=S9454 3=S10513 4=S10427 5=S9073 6=S10449 7=S10326 8=S10285 9=S10435 10=S10444

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CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 458429605

Instrument : MSVOA06 Begun : 10/24/08 08:05
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	fjo01	X	IB			10/24/08 08:05	1.0	1	
002	fjo02	TUN	BFB			10/24/08 08:51	1.0	2	
003	fjo03	CCV	20PPB			10/24/08 09:07	1.0	3 4 5 6 1	
004	fjo04	LCS	QC466936	Water	144051	10/24/08 09:47	1.0	7 8 9 10 1	
005	fjo05	X	IB			10/24/08 10:21	1.0	1	
006	fjo06	BLANK	QC466937	Water	144051	10/24/08 10:55	1.0	1	
007	fjo07	MSS	206918-001	Water	144051	10/24/08 11:29	1.0	1	
008	fjo08	SAMPLE	206918-002	Water	144051	10/24/08 12:03	1.0	1	headspace <= 1 mL
009	fjo09	MS	QC466954	Water	144051	10/24/08 12:37	1.0	1 7 8 9 10	
010	fjo10	MSD	QC466955	Water	144051	10/24/08 13:34	1.0	1 7 8 9 10	
011	fjo11	X	BFB			10/24/08 14:13	1.0	2	
012	fjo12	TUN	BFB			10/24/08 14:30	1.0	2	
013	fjo13	CCV	20PPB			10/24/08 14:47	1.0	1 3 4 5 6	
014	fjo14	X	IB			10/24/08 15:21	1.0	1	
015	fjo15	BLANK	QC466938	Water	144051	10/24/08 15:55	1.0	1	
016	fjo16	SAMPLE	206940-002	Water	144051	10/24/08 16:29	1.0	1	
017	fjo17	SAMPLE	206926-004	Water	144051	10/24/08 17:03	1.0	1	
018	fjo18	SAMPLE	206926-001	Water	144051	10/24/08 17:37	1.0	1	
019	fjo19	SAMPLE	206926-002	Water	144051	10/24/08 18:11	1.0	1	2:MTBE=250
020	fjo20	SAMPLE	206926-003	Water	144051	10/24/08 18:45	1.0	1	
021	fjo21	SAMPLE	206940-001	Water	144051	10/24/08 19:19	1.0	1	
022	fjo22	SAMPLE	206940-005	Water	144051	10/24/08 19:53	1.0	1	
023	fjo23	SAMPLE	206918-007	Water	144051	10/24/08 20:27	1.0	1	
024	fjo24	SAMPLE	206918-003	Water	144051	10/24/08 21:01	1.0	1	
025	fjo25	SAMPLE	206918-004	Water	144051	10/24/08 21:34	1.0	1	headspace <= 1 mL, 1:XYLMP=200
026	fjo26	SAMPLE	206918-005	Water	144051	10/24/08 22:09	1.0	1	
027	fjo27	SAMPLE	206918-006	Water	144051	10/24/08 22:43	5.0	1	headspace <= 1 mL
028	fjo28	SAMPLE	206918-008	Water	144051	10/24/08 23:17	2.500	1	
029	fjo29	SAMPLE	206918-009	Water	144051	10/24/08 23:52	2.0	1	
030	fjo30	SAMPLE	206918-010	Water	144051	10/25/08 00:26	2.0	1	
031	fjo31	SAMPLE	206940-003	Water	144051	10/25/08 00:59	7.143	1	1:DCE12C=140
032	fjo32	SAMPLE	206940-004	Water	144051	10/25/08 01:33	25.0	1	1:TCE=150
033	fjo33	X	IB			10/25/08 02:07	1.0	1	
034	fjo34	X	IB			10/25/08 02:41	1.0	1	
035	fjo35	X	IB			10/25/08 03:15	1.0	1	

BO 10/27/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 35.

Analyst: BO Date: 10/27/08 Reviewer: ACM Date: 10/27/08

Standards used: 1=S10447 2=S9454 3=S10513 4=S10427 5=S9073 6=S10449 7=S10326 8=S10444 9=S10435 10=S10285

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GC/MS VOLATILE ORGANICS

Batch #: 144051

Water Sample Prep Sheet

	Sample Number	Sample Vial	pH	Head space?	Shelf	Dil'n Flask	MS#	Comments	Initials & Date
1	206918-1	A	<2				6	1x MSS	Per 10/24/08
2	-1	BCE	<2					1x MS/MSD	
3	-2	C	↓	Bubble				1x	
4	-3	↓	<2					1x load near end	
5	-4	D		Bubble					
6	-5	C							
7	-6	↓	<2	Bubble		1		5x	
8	-7	C	<2					1x	
9	-8		<2			2		2.5x	
10	-9					3		2x	
11	-10	↓	↓			4		2x	
12	~~-11~~							~~1x~~ PUT OFF	
13	~~-14~~							~~3.3x~~	
14	206940-1	B	<2					1x	
15	-2	A						TB	
16	-3	B	<2			5		7.14x	
17	-4		↓			6		25x	
18	-5	↓	<2					1x	
19	206926-1	B							
20	-2	C							
21	-3	A							
22	-4	↓		LV				TB	
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									

GC/MS VOLATILE ORGANICS

Batch #: 144094

Water Sample Prep Sheet

	Sample Number	Sample Vial	pH	Head space?	Shelf	Dil'n Flask	MS#	Comments	Initials & Date
1	206926 - 2	A	<2		7	15	5	MR 5x MTBE/bz >LR	Acm 10/25
2	206918 - 4	A				16		MR 2.5x m,p xyl >LR	
3	5	D	<2					MR 1x m,p xyl cov	
4	8							MR 1x ok	
5	206940 - 3							1 inst/batch! Must run on MS6	
6	4								
7	206937 - 1	D	<2	Small		17		MR 167x Tol >LR	
8	2	C		Lrg		18		MR 400x MTBE >LR Tol cov	
9	206845 - 1	C	<2		5			MR 1x CCC failure	
10	~~206967 - 3~~	~~B~~							
11	~~4~~								
12	206946 - 2	B	<2		8			1x	
13	3								
14	4								
15	5								
16	6								
17	7								
18	8								
19	13	A			LV			TB	
20	14							EB	
21	206997 - 11	C	<2					3.3x	
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									

Laboratory Job Number 206926

ANALYTICAL REPORT

Semivolatile Organics by GC/MS SIM

Matrix: Water

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	206926	Location:	MONTHLY
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	370176SH.60.61.QS	Analysis:	EPA 8270C-SIM
Field ID:	ASE-129A-8C2	Batch#:	143896
Lab ID:	206926-001	Sampled:	10/15/08
Matrix:	Water	Received:	10/16/08
Units:	ug/L	Prepared:	10/20/08
Diln Fac:	1.000	Analyzed:	10/22/08

Analyte	Result	RL	ADEQ Flags
1,4-Dioxane	ND	0.9	
Naphthalene	ND	0.09	
Acenaphthylene	ND	0.09	
Acenaphthene	ND	0.09	
Fluorene	ND	0.09	
Phenanthrene	ND	0.09	
Anthracene	ND	0.09	
Fluoranthene	ND	0.09	
Pyrene	ND	0.09	
Benzo(a)anthracene	ND	0.09	
Chrysene	ND	0.09	
Benzo(b)fluoranthene	ND	0.09	
Benzo(k)fluoranthene	ND	0.09	
Benzo(a)pyrene	ND	0.09	
Indeno(1,2,3-cd)pyrene	ND	0.09	
Dibenz(a,h)anthracene	ND	0.09	
Benzo(g,h,i)perylene	ND	0.09	

Surrogate	%REC	Limits	ADEQ Flags
Nitrobenzene-d5	65	43-120	
2-Fluorobiphenyl	72	42-120	
Terphenyl-d14	86	47-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	206926	Location:	MONTHLY
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	370176SH.60.61.QS	Analysis:	EPA 8270C-SIM
Field ID:	ASE-130A-8C2	Sampled:	10/15/08
Lab ID:	206926-002	Received:	10/16/08
Matrix:	Water	Prepared:	10/20/08
Units:	ug/L	Analyzed:	10/22/08
Batch#:	143896		

Analyte	Result	RL	Diln Fac	ADEQ Flags
1,4-Dioxane	1.1	0.9	1.000	
Naphthalene	55	0.9	10.00	D2
Acenaphthylene	ND	0.09	1.000	
Acenaphthene	0.2	0.09	1.000	
Fluorene	0.4	0.09	1.000	
Phenanthrene	0.1	0.09	1.000	
Anthracene	ND	0.09	1.000	
Fluoranthene	ND	0.09	1.000	
Pyrene	ND	0.09	1.000	
Benzo(a)anthracene	ND	0.09	1.000	
Chrysene	ND	0.09	1.000	
Benzo(b)fluoranthene	ND	0.09	1.000	
Benzo(k)fluoranthene	ND	0.09	1.000	
Benzo(a)pyrene	ND	0.09	1.000	
Indeno(1,2,3-cd)pyrene	ND	0.09	1.000	
Dibenz(a,h)anthracene	ND	0.09	1.000	
Benzo(g,h,i)perylene	ND	0.09	1.000	

Surrogate	%REC	Limits	Diln Fac	ADEQ Flags
Nitrobenzene-d5	195 *	43-120	1.000	S1
2-Fluorobiphenyl	67	42-120	1.000	
Terphenyl-d14	94	47-120	1.000	

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	206926	Location:	MONTHLY
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	370176SH.60.61.QS	Analysis:	EPA 8270C-SIM
Field ID:	PL-501-8C2	Batch#:	143896
Lab ID:	206926-003	Sampled:	10/15/08
Matrix:	Water	Received:	10/16/08
Units:	ug/L	Prepared:	10/20/08
Diln Fac:	1.000	Analyzed:	10/22/08

Analyte	Result	RL	ADEQ Flags
1,4-Dioxane	ND	0.9	
Naphthalene	ND	0.09	
Acenaphthylene	ND	0.09	
Acenaphthene	ND	0.09	
Fluorene	ND	0.09	
Phenanthrene	ND	0.09	
Anthracene	ND	0.09	
Fluoranthene	ND	0.09	
Pyrene	ND	0.09	
Benzo(a)anthracene	ND	0.09	
Chrysene	ND	0.09	
Benzo(b)fluoranthene	ND	0.09	
Benzo(k)fluoranthene	ND	0.09	
Benzo(a)pyrene	ND	0.09	
Indeno(1,2,3-cd)pyrene	ND	0.09	
Dibenz(a,h)anthracene	ND	0.09	
Benzo(g,h,i)perylene	ND	0.09	

Surrogate	%REC	Limits	ADEQ Flags
Nitrobenzene-d5	82	43-120	
2-Fluorobiphenyl	79	42-120	
Terphenyl-d14	101	47-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	206926	Location:	MONTHLY
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	370176SH.60.61.QS	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC466294	Batch#:	143896
Matrix:	Water	Prepared:	10/20/08
Units:	ug/L	Analyzed:	10/21/08

Analyte	Result	RL	ADEQ Flags
1,4-Dioxane	ND	1.0	
Naphthalene	ND	0.1	
Acenaphthylene	ND	0.1	
Acenaphthene	ND	0.1	
Fluorene	ND	0.1	
Phenanthrene	ND	0.1	
Anthracene	ND	0.1	
Fluoranthene	ND	0.1	
Pyrene	ND	0.1	
Benzo(a)anthracene	ND	0.1	
Chrysene	ND	0.1	
Benzo(b)fluoranthene	ND	0.1	
Benzo(k)fluoranthene	ND	0.1	
Benzo(a)pyrene	ND	0.1	
Indeno(1,2,3-cd)pyrene	ND	0.1	
Dibenz(a,h)anthracene	ND	0.1	
Benzo(g,h,i)perylene	ND	0.1	

Surrogate	%REC	Limits	ADEQ Flags
Nitrobenzene-d5	63	43-120	
2-Fluorobiphenyl	79	42-120	
Terphenyl-d14	99	47-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	206926	Location:	MONTHLY
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	370176SH.60.61.QS	Analysis:	EPA 8270C-SIM
Matrix:	Water	Batch#:	143896
Units:	ug/L	Prepared:	10/20/08
Diln Fac:	1.000	Analyzed:	10/21/08

Type: BS Lab ID: QC466295

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
1,4-Dioxane	3.000	2.157	72	59-120	
Naphthalene	1.000	0.7492	75	37-120	
Acenaphthylene	1.000	0.6195	62	39-120	
Acenaphthene	1.000	0.7191	72	47-120	
Fluorene	1.000	0.7792	78	49-120	
Phenanthrene	1.000	0.8280	83	46-120	
Anthracene	1.000	0.7876	79	28-120	
Fluoranthene	1.000	0.6761	68	46-120	
Pyrene	1.000	0.8250	83	49-120	
Benzo(a)anthracene	1.000	0.7618	76	42-120	
Chrysene	1.000	0.8209	82	35-120	
Benzo(b)fluoranthene	1.000	0.8362	84	44-120	
Benzo(k)fluoranthene	1.000	0.9292	93	43-120	
Benzo(a)pyrene	1.000	0.7255	73	46-120	
Indeno(1,2,3-cd)pyrene	1.000	0.8958	90	38-120	
Dibenz(a,h)anthracene	1.000	0.9588	96	27-126	
Benzo(g,h,i)perylene	1.000	0.8442	84	39-120	

Surrogate	%REC	Limits	ADEQ Flags
Nitrobenzene-d5	55	43-120	
2-Fluorobiphenyl	65	42-120	
Terphenyl-d14	82	47-120	

Type: BSD Lab ID: QC466296

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
1,4-Dioxane	3.000	2.456	82	59-120	13	30	
Naphthalene	1.000	0.8160	82	37-120	9	50	
Acenaphthylene	1.000	0.6765	68	39-120	9	50	
Acenaphthene	1.000	0.7814	78	47-120	8	50	
Fluorene	1.000	0.8289	83	49-120	6	50	
Phenanthrene	1.000	0.8570	86	46-120	3	42	
Anthracene	1.000	0.8274	83	28-120	5	50	
Fluoranthene	1.000	0.6733	67	46-120	0	24	
Pyrene	1.000	0.8416	84	49-120	2	22	
Benzo(a)anthracene	1.000	0.7478	75	42-120	2	40	
Chrysene	1.000	0.8178	82	35-120	0	41	
Benzo(b)fluoranthene	1.000	0.8541	85	44-120	2	28	
Benzo(k)fluoranthene	1.000	0.9218	92	43-120	1	23	
Benzo(a)pyrene	1.000	0.7156	72	46-120	1	28	
Indeno(1,2,3-cd)pyrene	1.000	0.8712	87	38-120	3	25	
Dibenz(a,h)anthracene	1.000	0.9205	92	27-126	4	25	
Benzo(g,h,i)perylene	1.000	0.8234	82	39-120	2	21	

Surrogate	%REC	Limits	ADEQ Flags
Nitrobenzene-d5	63	43-120	
2-Fluorobiphenyl	71	42-120	
Terphenyl-d14	82	47-120	

RPD= Relative Percent Difference

CURTIS & TOMPKINS DFTPP TUNE FOR 206926 MSSIM Water
EPA 8270C

Inst : MSBNA03 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 528385532003 File : vin03 Time : 23-SEP-2008 18:22

Standards: S10033

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	217463	56.73	
68	< 2% of mass 69	3098	1.41	
69		219356		
70	< 2% of mass 69	1278	0.58	
127	40% - 60% of mass 198	186496	48.65	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	25800	6.73	
275	10% - 30% of mass 198	80770	21.07	
365	> 1% of mass 198	11420	2.98	
441	Present, < mass 443	45333	80.24	
442	> 40% and < 100% of mass 198	282474	73.69	
443	17% - 23% of mass 442	56498	20.00	

Analyst: SHD Date: 09/24/08 Reviewer: AD Date: 09/24/08

CURTIS & TOMPKINS DFTPP TUNE FOR 206926 MSSIM Water
EPA 8270C

Inst : MSBNA03 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 528425863002 File : vjl02 Time : 21-OCT-2008 17:57

Standards: S10033

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	257440	52.97	
68	< 2% of mass 69	0	0.00	
69		278080		
70	< 2% of mass 69	729	0.26	
127	40% - 60% of mass 198	284768	58.60	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	34008	7.00	
275	10% - 30% of mass 198	127644	26.27	
365	> 1% of mass 198	16138	3.32	
441	Present, < mass 443	78280	85.16	
442	> 40% and < 100% of mass 198	462240	95.11	
443	17% - 23% of mass 442	91916	19.88	

Analyst: LLH Date: 10/22/08 Reviewer: SHD Date: 10/22/08

CURTIS & TOMPKINS DFTPP TUNE FOR 206926 MSSIM Water
EPA 8270C

Inst : MSBNA03 Run Name : DFTPP/PEM 50UG/ML IDF : 1.0
Seqnum : 528426856001 File : vjm01 Time : 22-OCT-2008 10:16

Standards: S10033

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
51	30% - 60% of mass 198	428310	45.59	
68	< 2% of mass 69	0	0.00	
69		474380		
70	< 2% of mass 69	2691	0.57	
127	40% - 60% of mass 198	516160	54.94	
197	< 1% of mass 198	0	0.00	
199	5% - 9% of mass 198	65909	7.02	
275	10% - 30% of mass 198	260518	27.73	
365	> 1% of mass 198	32157	3.42	
441	Present, < mass 443	153856	84.80	
442	> 40% and < 100% of mass 198	931584	99.16	
443	17% - 23% of mass 442	181440	19.48	

Analyst: SHD Date: 10/22/08 Reviewer: LLH Date: 10/22/08

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 206926 MSSIM Water: EPA 8270C-SIM

Inst : MSBNA03
Calnum : 528385532001
Units : ug/mL

Name : 3PAHSIM
Date : 23-SEP-2008 18:43
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	vin04	528385532004	0.10/0.50UG/ML	23-SEP-2008 18:43	S10144
L2	vin05	528385532005	0.20/1.0UG/ML	23-SEP-2008 19:17	S10145
L3	vin06	528385532006	0.50/2.5UG/ML	23-SEP-2008 19:51	S10146
L4	vin07	528385532007	1.0/5.0UG/ML	23-SEP-2008 20:26	S10147
L5	vin08	528385532008	2.0/10UG/ML	23-SEP-2008 21:00	S10148
L6	vin09	528385532009	5.0/25UG/ML	23-SEP-2008 21:35	S10149
L7	vin10	528385532010	10/50UG/ML	23-SEP-2008 22:12	S10150

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
1,4-Dioxane	0.4012m	0.4481m	0.4788m	0.5056	0.5265	0.5061	0.4955	AVRG		2.08215		0.4803	9	15	0.05	0.99	
Naphthalene	1.0697	1.0799	1.0938	1.1180	1.1224	1.0941	1.1723	AVRG		0.90321		1.1072	3	15	0.05	0.99	
Acenaphthylene	1.7735	1.8316	1.9771	2.0036	2.0788	2.0829	2.2526	AVRG		0.49999		2.0000	8	15	0.05	0.99	
Acenaphthene	1.0721	1.1060	1.1797	1.1733	1.2056	1.2061	1.2777	AVRG		0.85151		1.1744	6	15	0.05	0.99	
Fluorene	1.2272	1.2559	1.3355	1.3263	1.3660	1.3633	1.4726	AVRG		0.74892		1.3353	6	15	0.05	0.99	
Phenanthrene	1.1277	1.1755	1.2327	1.2506	1.3054	1.2768	1.3840	AVRG		0.79975		1.2504	7	15	0.05	0.99	
Anthracene	0.9345	0.9783	1.0670	1.1030	1.1879	1.1773	1.2877	AVRG		0.90490		1.1051	11	15	0.05	0.99	
Fluoranthene	1.2638	1.3132	1.4024	1.4362	1.4664	1.4616	1.5887	AVRG		0.70478		1.4189	8	15	0.05	0.99	
Pyrene	1.2157	1.2997	1.3628	1.3539	1.3494	1.3487	1.3574	AVRG		0.75369		1.3268	4	15	0.05	0.99	
Benzo(a)anthracene	1.0675	1.0628	1.1140	1.1312	1.1330	1.1492	1.1719	AVRG		0.89404		1.1185	4	15	0.05	0.99	
Chrysene	1.0468	1.0640	1.1147	1.1095	1.1212	1.1475	1.1711	AVRG		0.90035		1.1107	4	15	0.05	0.99	
Benzo(b)fluoranthene	1.0405	1.0944	1.1371	1.1727	1.2903	1.2439	1.2743	AVRG		0.84816		1.1790	8	15	0.05	0.99	
Benzo(k)fluoranthene	1.0607	1.0973	1.1360	1.1777	1.2671	1.2853	1.3100	AVRG		0.83992		1.1906	8	15	0.05	0.99	
Benzo(a)pyrene	0.9382	0.9698	1.0117	1.0588	1.1960	1.2147	1.2667	AVRG		0.91433		1.0937	12	15	0.05	0.99	
Indeno(1,2,3-cd)pyrene	1.0033	1.0150	1.0449	1.1236	1.3038	1.3897		AVRG		0.87206		1.1467	14	15	0.05	0.99	
Dibenz(a,h)anthracene	0.7775	0.7978	0.8388	0.8929	1.0381	1.1144		AVRG		1.09901		0.9099	15	15	0.05	0.99	
Benzo(g,h,i)perylene	0.9619	0.9384	0.9694	1.0037	1.1074	1.1246	1.2733	AVRG		0.94867		1.0541	11	15	0.05	0.99	
Nitrobenzene-d5	0.3500	0.3357	0.3565	0.3795	0.3934	0.4054	0.4225	AVRG		2.64856		0.3776	8	15	0.05	0.99	
2-Fluorobiphenyl	1.4360	1.5099	1.6284	1.6711	1.6798	1.6641	1.7505	AVRG		0.61729		1.6200	7	15	0.05	0.99	
Terphenyl-d14	0.7557	0.7717	0.7877	0.7750	0.7670	0.7903	0.8458	AVRG		1.27432		0.7847	4	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D
1,4-Dioxane	0.500	-16	1.000	-7	2.500	0	5.000	5	10.00	10	25.00	5	50.00	3
Naphthalene	0.100	-3	0.200	-2	0.500	-1	1.000	1	2.000	1	5.000	-1	10.00	6
Acenaphthylene	0.100	-11	0.200	-8	0.500	-1	1.000	0	2.000	4	5.000	4	10.00	13
Acenaphthene	0.100	-9	0.200	-6	0.500	0	1.000	0	2.000	3	5.000	3	10.00	9
Fluorene	0.100	-8	0.200	-6	0.500	0	1.000	-1	2.000	2	5.000	2	10.00	10
Phenanthrene	0.100	-10	0.200	-6	0.500	-1	1.000	0	2.000	4	5.000	2	10.00	11
Anthracene	0.100	-15	0.200	-11	0.500	-3	1.000	0	2.000	7	5.000	7	10.00	17
Fluoranthene	0.100	-11	0.200	-7	0.500	-1	1.000	1	2.000	3	5.000	3	10.00	12
Pyrene	0.100	-8	0.200	-2	0.500	3	1.000	2	2.000	2	5.000	2	10.00	2
Benzo(a)anthracene	0.100	-5	0.200	-5	0.500	0	1.000	1	2.000	1	5.000	3	10.00	5
Chrysene	0.100	-6	0.200	-4	0.500	0	1.000	0	2.000	1	5.000	3	10.00	5
Benzo(b)fluoranthene	0.100	-12	0.200	-7	0.500	-4	1.000	-1	2.000	9	5.000	6	10.00	8
Benzo(k)fluoranthene	0.100	-11	0.200	-8	0.500	-5	1.000	-1	2.000	6	5.000	8	10.00	10
Benzo(a)pyrene	0.100	-14	0.200	-11	0.500	-8	1.000	-3	2.000	9	5.000	11	10.00	16
Indeno(1,2,3-cd)pyrene	0.100	-13	0.200	-11	0.500	-9	1.000	-2	2.000	14	5.000	21		
Dibenz(a,h)anthracene	0.100	-15	0.200	-12	0.500	-8	1.000	-2	2.000	14	5.000	22		
Benzo(g,h,i)perylene	0.100	-9	0.200	-11	0.500	-8	1.000	-5	2.000	5	5.000	7	10.00	21
Nitrobenzene-d5	0.100	-7	0.200	-11	0.500	-6	1.000	1	2.000	4	5.000	7	10.00	12
2-Fluorobiphenyl	0.100	-11	0.200	-7	0.500	1	1.000	3	2.000	4	5.000	3	10.00	8
Terphenyl-d14	0.100	-4	0.200	-2	0.500	0	1.000	-1	2.000	-2	5.000	1	10.00	8

SHD 09/24/08 : All manual integrations to correct automatically drawn baselines.

Analyst: SHD Date: 09/24/08 Reviewer: AD Date: 09/24/08

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 206926 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA03 Name : 3PAHSIM
Calnum : 528385532001 Cal Date : 23-SEP-2008

ICV 528385532011 (vin11 23-SEP-2008) stds: S8881

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
1,4-Dioxane	0.4803	0.5012	2.500	2.609	ug/mL	4	20	m
Naphthalene	1.1072	1.0437	0.5000	0.4714	ug/mL	-6	20	
Acenaphthylene	2.0000	1.8551	0.5000	0.4638	ug/mL	-7	20	
Acenaphthene	1.1744	1.1078	0.5000	0.4717	ug/mL	-6	20	
Fluorene	1.3353	1.1857	0.5000	0.4440	ug/mL	-11	20	
Phenanthrene	1.2504	1.1444	0.5000	0.4576	ug/mL	-8	20	
Anthracene	1.1051	1.0921	0.5000	0.4941	ug/mL	-1	20	
Fluoranthene	1.4189	1.3116	0.5000	0.4622	ug/mL	-8	20	
Pyrene	1.3268	1.5761	0.5000	0.5940	ug/mL	19	20	
Benzo(a)anthracene	1.1185	1.2241	0.5000	0.5472	ug/mL	9	20	
Chrysene	1.1107	1.2541	0.5000	0.5646	ug/mL	13	20	
Benzo(b)fluoranthene	1.1790	1.1167	0.5000	0.4736	ug/mL	-5	20	
Benzo(k)fluoranthene	1.1906	1.0628	0.5000	0.4463	ug/mL	-11	20	
Benzo(a)pyrene	1.0937	0.9810	0.5000	0.4485	ug/mL	-10	20	
Indeno(1,2,3-cd)pyrene	1.1467	0.9884	0.5000	0.4310	ug/mL	-14	20	
Dibenz(a,h)anthracene	0.9099	0.8125	0.5000	0.4465	ug/mL	-11	20	
Benzo(g,h,i)perylene	1.0541	0.9145	0.5000	0.4338	ug/mL	-13	20	

m=manual integration

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 206926 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA03 Run Name : #4 IDF : 1.0
Seqnum : 528425863003.2 File : vjl03 Time : 21-OCT-2008 18:17
Cal : 528385532001 Caldate : 23-SEP-2008
Standards: S10147

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,4-Dioxane	0.4803	0.5064	5.000	5.272	ug/mL	5	20	0.0500	
Naphthalene	1.1072	1.1563	1.000	1.044	ug/mL	4	20	0.0500	
Acenaphthylene	2.0000	1.7381	1.000	0.8691	ug/mL	-13	20	0.0500	
Acenaphthene	1.1744	1.1438	1.000	0.9739	ug/mL	-3	20	0.0500	
Fluorene	1.3353	1.3684	1.000	1.025	ug/mL	2	20	0.0500	
Phenanthrene	1.2504	1.3213	1.000	1.057	ug/mL	6	20	0.0500	
Anthracene	1.1051	1.0623	1.000	0.9613	ug/mL	-4	20	0.0500	
Fluoranthene	1.4189	1.2232	1.000	0.8621	ug/mL	-14	20	0.0500	
Pyrene	1.3268	1.3121	1.000	0.9889	ug/mL	-1	20	0.0500	
Benzo(a)anthracene	1.1185	1.0062	1.000	0.8996	ug/mL	-10	20	0.0500	
Chrysene	1.1107	1.0958	1.000	0.9866	ug/mL	-1	20	0.0500	
Benzo(b)fluoranthene	1.1790	1.2497	1.000	1.060	ug/mL	6	20	0.0500	
Benzo(k)fluoranthene	1.1906	1.2398	1.000	1.041	ug/mL	4	20	0.0500	
Benzo(a)pyrene	1.0937	1.0500	1.000	0.9601	ug/mL	-4	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.1467	1.3034	1.000	1.137	ug/mL	14	20	0.0500	
Dibenz(a,h)anthracene	0.9099	1.0886	1.000	1.196	ug/mL	20	20	0.0500	
Benzo(g,h,i)perylene	1.0541	1.0692	1.000	1.014	ug/mL	1	20	0.0500	
Nitrobenzene-d5	0.3776	0.2951	1.000	0.7817	ug/mL	**-22**	20	0.0500	c-
2-Fluorobiphenyl	1.6200	1.4478	1.000	0.8937	ug/mL	-11	20	0.0500	
Terphenyl-d14	0.7847	0.8796	1.000	1.121	ug/mL	12	20	0.0500	

Analyst: SHD Date: 10/22/08 Reviewer: LLH Date: 10/22/08

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 206926 MSSIM Water
EPA 8270C-SIM

Inst : MSBNA03 Run Name : #4 IDF : 1.0
Seqnum : 528426856002.1 File : vjm02 Time : 22-OCT-2008 10:38
Cal : 528385532001 Caldate : 23-SEP-2008
Standards: S10147

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,4-Dioxane	0.4803	0.4428	5.000	4.610	ug/mL	-8	20	0.0500	
Naphthalene	1.1072	1.1167	1.000	1.009	ug/mL	1	20	0.0500	
Acenaphthylene	2.0000	1.8896	1.000	0.9448	ug/mL	-6	20	0.0500	
Acenaphthene	1.1744	1.1451	1.000	0.9750	ug/mL	-2	20	0.0500	
Fluorene	1.3353	1.4156	1.000	1.060	ug/mL	6	20	0.0500	
Phenanthrene	1.2504	1.3010	1.000	1.041	ug/mL	4	20	0.0500	
Anthracene	1.1051	1.1603	1.000	1.050	ug/mL	5	20	0.0500	
Fluoranthene	1.4189	1.2560	1.000	0.8852	ug/mL	-11	20	0.0500	
Pyrene	1.3268	1.3578	1.000	1.023	ug/mL	2	20	0.0500	
Benzo(a)anthracene	1.1185	1.1337	1.000	1.014	ug/mL	1	20	0.0500	
Chrysene	1.1107	1.1012	1.000	0.9915	ug/mL	-1	20	0.0500	
Benzo(b)fluoranthene	1.1790	1.3010	1.000	1.104	ug/mL	10	20	0.0500	
Benzo(k)fluoranthene	1.1906	1.2337	1.000	1.036	ug/mL	4	20	0.0500	
Benzo(a)pyrene	1.0937	1.1367	1.000	1.039	ug/mL	4	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.1467	1.1028	1.000	0.9617	ug/mL	-4	20	0.0500	
Dibenz(a,h)anthracene	0.9099	0.9167	1.000	1.008	ug/mL	1	20	0.0500	
Benzo(g,h,i)perylene	1.0541	0.9223	1.000	0.8750	ug/mL	-12	20	0.0500	
Nitrobenzene-d5	0.3776	0.3357	1.000	0.8892	ug/mL	-11	20	0.0500	
2-Fluorobiphenyl	1.6200	1.4734	1.000	0.9095	ug/mL	-9	20	0.0500	
Terphenyl-d14	0.7847	0.9106	1.000	1.160	ug/mL	16	20	0.0500	

Analyst: SHD Date: 10/22/08 Reviewer: LLH Date: 10/22/08

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 528425863

Date : 10/21/08 Reference : vjl03
Sequence : MSBNA03 vjl Analyzed : 10/21/08 18:17

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	92132	7.32	306457	8.94	220907	11.24	338036	13.18	316562	16.63	283875	18.35
		LOWER LIMIT	46066	6.82	153229	8.44	110454	10.74	169018	12.68	158281	16.13	141938	17.85
		UPPER LIMIT	184264	7.82	612914	9.44	441814	11.74	676072	13.68	633124	17.13	567750	18.85
003	CCV	#4	92132	7.32	306457	8.94	220907	11.24	338036	13.18	316562	16.63	283875	18.35
004	BLANK	QC466294	76342	7.32	246571	8.94	170678	11.25	258320	13.19	220074	16.63	189638	18.35
005	BS	QC466295	72249	7.32	230630	8.94	161097	11.24	241002	13.19	219427	16.63	181705	18.35
006	BSD	QC466296	69525	7.32	225564	8.94	157833	11.24	237364	13.19	209733	16.63	166901	18.36
007	SAMPLE	206983-001	70059	7.32	225444	8.94	160438	11.25	244269	13.19	176150	16.63	157583	18.36
008	SAMPLE	206946-004	67070	7.32	218157	8.94	158319	11.24	248979	13.19	208284	16.63	192328	18.35
009	SAMPLE	206946-005	70299	7.32	228391	8.94	162332	11.25	251310	13.19	212074	16.63	182197	18.35
010	SAMPLE	206946-006	71319	7.32	227969	8.94	160344	11.24	249592	13.18	204175	16.63	178390	18.35
011	SAMPLE	206946-007	71110	7.32	228062	8.94	159114	11.25	245456	13.19	201981	16.63	178087	18.35
012	SAMPLE	206946-008	71311	7.32	227949	8.94	158080	11.24	243772	13.19	206905	16.63	173393	18.35
013	SAMPLE	207020-001	69335	7.32	228486	8.94	158893	11.25	237616	13.19	189892	16.63	153886	18.35
014	SAMPLE	207019-001	72316	7.32	230138	8.94	159955	11.25	241133	13.19	204279	16.63	163277	18.35
015	SAMPLE	207019-003	68632	7.32	224272	8.94	152370	11.24	232928	13.19	199192	16.63	158145	18.35
016	SAMPLE	206926-001	70655	7.32	232446	8.95	159644	11.25	239807	13.19	203676	16.63	159395	18.35
017	SAMPLE	206926-002	59161	7.32	188782	8.95	138286	11.25	215843	13.19	186919	16.63	165684	18.35
018	SAMPLE	206926-003	74141	7.32	248170	8.94	169599	11.25	257396	13.19	215512	16.63	185769	18.35
019	SAMPLE	206984-001	73204	7.32	225604	8.95	146049	11.26	270702	13.21	248638	16.65	232059	18.37
020	SAMPLE	206923-007	73110	7.32	265123	8.95	146520	11.25	233707	13.19	215123	16.69	210666	18.39
021	SAMPLE	206923-008	72823	7.31	321813	8.97	141916	11.27	280232	13.23	243684	16.69	98725 *	18.41
022	SAMPLE	206923-012	87522	7.32	299665	8.95	181289	11.25	262129	13.19	224878	16.65	190402	18.37
023	SAMPLE	206923-013	88597	7.32	301428	8.95	188278	11.25	290138	13.19	243692	16.63	205099	18.36
024	SAMPLE	206923-015	73713	7.31	312498	8.97	137917	11.27	310418	13.22	261987	16.69	114581 *	18.41
025	SAMPLE	206923-017	92565	7.32	305949	8.95	186829	11.25	291377	13.19	236829	16.64	198721	18.36

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 528426856

Date : 10/22/08 Reference : vjm02
Sequence : MSBNA03 vjm Analyzed : 10/22/08 10:38

#	Type	Sample ID	DCBZ14D4	RT	NAPHD8	RT	ACEND10	RT	PHEND10	RT	CHYD12	RT	PERYD12	RT
		CCV+ICV+ICV/CCV STD	138743	7.33	466561	8.95	298071	11.25	470852	13.19	441235	16.64	379526	18.36
		LOWER LIMIT	69372	6.83	233281	8.45	149036	10.75	235426	12.69	220618	16.14	189763	17.86
		UPPER LIMIT	277486	7.83	933122	9.45	596142	11.75	941704	13.69	882470	17.14	759052	18.86
002	CCV	#4	138743	7.33	466561	8.95	298071	11.25	470852	13.19	441235	16.64	379526	18.36
003	SAMPLE	206926-002	113144	7.33	371991	8.95	244584	11.25	402912	13.19	384952	16.63	333645	18.36
004	SAMPLE	206984-001	109174	7.33	358026	8.95	223903	11.25	357165	13.20	362526	16.64	343842	18.37
005	SAMPLE	206923-013	108986	7.33	356299	8.95	218837	11.25	383902	13.19	365456	16.63	327320	18.36
006	SAMPLE	206923-017	106729	7.33	355754	8.95	223331	11.25	389784	13.19	359403	16.63	323221	18.36
007	SAMPLE	206923-012	104623	7.33	355714	8.95	227903	11.25	357753	13.19	337623	16.64	288426	18.37
008	SAMPLE	206923-007	98746	7.33	311904	8.95	203419	11.25	340510	13.19	333415	16.65	292112	18.37
009	SAMPLE	206923-008	100274	7.33	323193	8.95	225933	11.25	353758	13.19	340736	16.64	304999	18.37
010	SAMPLE	206923-015	98160	7.33	319961	8.95	224979	11.25	350973	13.19	338495	16.64	298597	18.36

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 528385532

Instrument : MSBNA03 Begun : 09/23/08 17:32
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	vin01	TUN	DFTPP/PEM 50UG/ML			09/23/08 17:32	1.0	1	
002	vin02	CCV	10/50UG/ML RT CHECK			09/23/08 17:56	1.0	2	
003	vin03	TUN	DFTPP/PEM 50UG/ML			09/23/08 18:22	1.0	1	
004	vin04	ICAL	0.10/0.50UG/ML			09/23/08 18:43	1.0	3	
005	vin05	ICAL	0.20/1.0UG/ML			09/23/08 19:17	1.0	4	
006	vin06	ICAL	0.50/2.5UG/ML			09/23/08 19:51	1.0	5	
007	vin07	ICAL	1.0/5.0UG/ML			09/23/08 20:26	1.0	6	
008	vin08	ICAL	2.0/10UG/ML			09/23/08 21:00	1.0	7	
009	vin09	ICAL	5.0/25UG/ML			09/23/08 21:35	1.0	8	
010	vin10	ICAL	10/50UG/ML			09/23/08 22:12	1.0	2	
011	vin11	ICV	0.5/2.5UG/ML			09/23/08 22:46	1.0	9	

SHD 09/24/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 11.

Analyst: SHD Date: 09/24/08 Reviewer: AD Date: 09/24/08

Standards used: 1=S10033 2=S10150 3=S10144 4=S10145 5=S10146 6=S10147 7=S10148 8=S10149 9=S8881

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 528425863

Instrument : MSBNA03 Begun : 10/21/08 17:43
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	vjl01	TUN	DFTPP/PEM 50UG/ML			10/21/08 17:43	1.0	1	
002	vjl02	TUN	DFTPP/PEM 50UG/ML			10/21/08 17:57	1.0	1	
003	vjl03	CCV	#4			10/21/08 18:17	1.0	2	
004	vjl04	BLANK	QC466294	Water	143896	10/21/08 19:03	1.0	3	
005	vjl05	BS	QC466295	Water	143896	10/21/08 19:39	1.0	3	
006	vjl06	BSD	QC466296	Water	143896	10/21/08 20:16	1.0	3	
007	vjl07	SAMPLE	206983-001	Water	143896	10/21/08 20:53	1.0	3	
008	vjl08	SAMPLE	206946-004	Water	143896	10/21/08 21:30	1.0	3	
009	vjl09	SAMPLE	206946-005	Water	143896	10/21/08 22:07	1.0	3	
010	vjl10	SAMPLE	206946-006	Water	143896	10/21/08 22:44	1.0	3	
011	vjl11	SAMPLE	206946-007	Water	143896	10/21/08 23:20	1.0	3	
012	vjl12	SAMPLE	206946-008	Water	143896	10/21/08 23:56	1.0	3	
013	vjl13	SAMPLE	207020-001	Water	143896	10/22/08 00:35	1.0	3	
014	vjl14	SAMPLE	207019-001	Water	143896	10/22/08 01:12	1.0	3	
015	vjl15	SAMPLE	207019-003	Water	143896	10/22/08 01:48	1.0	3	
016	vjl16	SAMPLE	206926-001	Water	143896	10/22/08 02:27	1.0	3	
017	vjl17	SAMPLE	206926-002	Water	143896	10/22/08 03:04	1.0	3	3:NAPH=53
018	vjl18	SAMPLE	206926-003	Water	143896	10/22/08 03:40	1.0	3	
019	vjl19	SAMPLE	206984-001	Water	143896	10/22/08 04:20	3.0	3	2:DIOXANE14=53
020	vjl20	SAMPLE	206923-007	Water	143896	10/22/08 04:57	20.0	3	1:ACNPY=15
021	vjl21	SAMPLE	206923-008	Water	143896	10/22/08 05:34	1.0	3	
022	vjl22	SAMPLE	206923-012	Water	143896	10/22/08 06:13	1.0	3	
023	vjl23	SAMPLE	206923-013	Water	143896	10/22/08 06:49	1.0	3	
024	vjl24	SAMPLE	206923-015	Water	143896	10/22/08 07:26	1.0	3	
025	vjl25	SAMPLE	206923-017	Water	143896	10/22/08 08:05	1.0	3	

SHD 10/22/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 25.

Standards used: 1=S10033 2=S10147 3=S10541

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 528426856

Instrument : MSBNA03 Begun : 10/22/08 10:16
Method : EPA 8270C, EPA 8270C-SIM SOP Version : 8270-SIM_rv0, bna_rv.9

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	vjm01	TUN	DFTPP/PEM 50UG/ML			10/22/08 10:16	1.0	1	
002	vjm02	CCV	#4			10/22/08 10:38	1.0	2	
003	vjm03	SAMPLE	206926-002	Water	143896	10/22/08 11:14	10.0	3	
004	vjm04	SAMPLE	206984-001	Water	143896	10/22/08 11:51	10.0	3	
005	vjm05	SAMPLE	206923-013	Water	143896	10/22/08 12:29	1.0	3	
006	vjm06	SAMPLE	206923-017	Water	143896	10/22/08 13:05	1.0	3	
007	vjm07	SAMPLE	206923-012	Water	143896	10/22/08 13:40	1.0	3	
008	vjm08	SAMPLE	206923-007	Water	143896	10/22/08 14:18	100.0	3	
009	vjm09	SAMPLE	206923-008	Water	143896	10/22/08 14:54	20.0	3	
010	vjm10	SAMPLE	206923-015	Water	143896	10/22/08 15:30	20.0	3	

SHD 10/22/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 4.

LLH 10/23/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 005 through 010.

Standards used: 1=S10033 2=S10147 3=S10541

SAMPLE PREPARATION SUMMARY

Batch # : 143896
Started By : DJT
Method : 3520C
Spike #1 ID : S10521

Prep Date : 20-OCT-2008 21:15
Spike #2 ID : S10255

Analysis : 14DIOXANE
Finished By : SFL
Units : mL

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
206923-007		Water	1020	1	1	0.0009804	7	1				8270-SIM	
206923-008		Water	1040	1	1	0.0009615	7	1				8270-SIM	
206923-012		Water	1050	1	1	0.0009524	7	1				8270-SIM	
206923-013		Water	1020	1	1	0.0009804	5	1				8270-SIM	
206923-015		Water	1040	1	1	0.0009615	7	1				8270-SIM	
206923-017		Water	1060	1	1	0.0009434	7	1				8270-SIM	
206926-001		Water	1060	1	1	0.0009434	7	1				8270-SIM	
206926-002		Water	1060	1	1	0.0009434	7	1				8270-SIM	
206926-003		Water	1060	1	1	0.0009434	5	1				8270-SIM	
206946-004		Water	1060	1	1	0.0009434	7	1				14DIOXANE	
206946-005		Water	1060	1	1	0.0009434	7	1				14DIOXANE	
206946-006		Water	1060	1	1	0.0009434	7	1				14DIOXANE	
206946-007		Water	1060	1	1	0.0009434	7	1				14DIOXANE	
206946-008		Water	1060	1	1	0.0009434	7	1				14DIOXANE	
206983-001		Water	1010	1	1	0.0009901	7	1				8270-SIM	
206984-001		Water	975	1	1	0.001026	7	1				8270-SIM	
207019-001		Water	1000	1	1	0.001	7	1				14DIOXANE	
207019-003		Water	1060	1	1	0.0009434	7	1				14DIOXANE	
207020-001		Water	1000	1	1	0.001	7	1				14DIOXANE	
QC466294	BLANK	Water	1000	1	1	0.001		1				8270-SIM	
QC466295	BS	Water	1000	1	1	0.001		1	1			8270-SIM	
QC466296	BSD	Water	1000	1	1	0.001		1	1			8270-SIM	

Analyst: LLH Date: 10/22/08 Reviewer: SHD Date: 10/22/08

BNA (8270 & 625) Water Prep Log **Curtis & Tompkins, Ltd.**

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LIMS Analysis: 8270-SIM/14D10 Extraction Method: Cleanup Method (if needed):

LIMS Batch No: 143896 ☒ mod.EPA 3520c cont.L/L ☐ EPA 3640a GPC

Date Extracted: 10/20/08 ☐ _____ ☐ _____

Sample #	Container ID	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
206923-007	F	1020	7	1.0		
008		1040				
012		1050				
013		1020	5			
015	E	1040	7			
017	F	1060				
206926-001	D					
002						
003			5			
206946-004	F		7			
005	H					
006						
007						
008	N					
206983-001	E	1010				
206984-001	F	975				
207019-001	E	1000				
003	D	1060				
207020-001	E	1000				
MB QC466294			NA			
BS 5						
BSD 6						

SFL 10/21/08

	Lot# / LIMS # / Time	Date/ Initials
1.0 mL of surrogate solution was added to all samples	S10521A	10/20/08
1.0 mL of matrix spiking solution was added to all spikes	S10255B	
pH of all samples adjusted to pH ≤ 2 with H_2SO_4	FS075640	
Cont. L/L extracted with 450mL of CH_2Cl_2	EM48203	
Extraction Start Time:	2115	
Extraction End Time:	1520	RSW 10/21/08
pH of all samples adjusted to pH ≥ 11 with 10 N NaOH	N/A	SFL 10/21/08
Extraction Start Time:		
Extraction End Time:		
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EM48175836	
Concentrated to final volume at temperature (degrees C)	70°	
Relinquished to BNA department	✓	

10/20/08

Extraction Chemist **Date**

Contined from Page ___/___

Continued on Page ___/___

SFL 10/21/08

Reviewed by **Date**

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 208575
ANALYTICAL REPORT

CH2M Hill 2625 South Plaza Drive Tempe, AZ 85282-3397	Project : 371016.SH.60.61.QS Location : Quarterly UST Level : III

Sample ID	Lab ID
TB-120908	208575-001
ASE-100A-8D1	208575-002
ASE-103A-8D1	208575-003
ASE-129A-8D1	208575-004
PL-503-8D1	208575-005
ASE-106A-8D1	208575-006
ASE-123A-8D1	208575-007
ASE-109A-8D1	208575-008
ASE-110A-8D1	208575-009
ASE-101A-8D1	208575-010
ASE-124A-8D1	208575-011
PL-504-8D1	208575-012
ASE-122A-8D1	208575-013
ASE-98A-8D1	208575-014

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 12/29/2008
Project Manager

Signature: _____ Date: 12/29/2008
Senior Program Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**208575**
Client:	**CH2M Hill**
Project:	**371016.SH.60.61.QS**
Location:	**Quarterly UST**
Request Date:	**12/12/08**
Samples Received:	**12/12/08**

This data package contains sample and QC results for fourteen water samples, requested for the above referenced project on 12/12/08. See attached cooler receipt form for any sample receipt problems or discrepancies.

TPH-Extractables by GC (EPA 8015B):

The chromatographic baseline has been redrawn for all samples and standards to accurately quantitate all target hydrocarbons.

Diesel C10-C22 was detected between the MDL and the RL in the method blank for batch 146033.

Sample ASE-122A-8D1 was not analyzed as per the chain of custody. All containers for this analysis were received broken.

No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

Low responses were observed for iodomethane and vinyl acetate in the ICV analyzed 11/21/08 00:36; these analytes were not detected at or above the RL in the associated samples, and affected data was qualified with "b".

Low responses were observed for chloromethane, Freon 12, and vinyl acetate in the CCV analyzed 12/22/08 14:35; these analytes met minimum response criteria.

Low response was observed for vinyl acetate in the CCV analyzed 12/23/08 08:43; this analyte met minimum response criteria, and affected data was qualified with "b". High response was observed for hexachlorobutadiene; this analyte was not detected at or above the RL in the associated samples, and affected data was qualified with "b".

Low response was observed for bromomethane in the CCV analyzed 12/22/08 08:15; this analyte met minimum response criteria, and affected data was qualified with "b".

High recoveries were observed for carbon tetrachloride and vinyl chloride in the MS of ASE-127A-8D1 (lab # 208752-002); the LCS was within limits, the associated RPDs were within limits, and these analytes were not detected at or above the RL in the associated samples. High RPD was observed for iodomethane in the MS/MSD of ASE-127A-8D1 (lab # 208752-002); this analyte was not detected at or above the RL in the associated samples.

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**208575**
Client:	**CH2M Hill**
Project:	**371016.SH.60.61.QS**
Location:	**Quarterly UST**
Request Date:	**12/12/08**
Samples Received:	**12/12/08**

Volatile Organics by GC/MS (EPA 8260B):

High recovery was observed for hexachlorobutadiene in the LCS for batch 146372; this analyte was not detected at or above the RL in the associated samples.

High recovery was observed for sec-butylbenzene in the MS of ASE-125A-8D1 (lab # 208578-008); the LCS was within limits, the associated RPD was within limits, and this analyte was not detected at or above the RL in the associated samples.

No other analytical problems were encountered.

208575 1 of 2

Curtis & Tompkins Laboratories
2323 5th St.
Berkeley, CA 94710
510-204-2221

Honeywell — Chain Of Custody / Analysis Request

AESI Ref:	39784.54128
COC#	37380_
Lab Proj # (SDG):	
Lab ID	CTBERK
Site ID	SKYHARBOR
Lab Job #	
Authorized User:	Honeywell
Text & Excel File Drive	Excel & Text File Order

Privileged & Confidential

Site Name: Sky Harbor
Phase:
Location of Site: Phoenix, AZ
Sampling Program: Quarterly UST

Sampling Co.: H+A
EDD To: Jennifer Peterson, jennifer.Peterson@ch2m.com
Sampler: ~~M. Weise~~ - M. Hall J Yentes
PO # 4990342
Analysis Turnaround Time (TAT): 7
Consultant
Full Report TAT: 7

Client Contact: (name, co., address)
CH2M HILL
2625 South Plaza Drive, Suite 300
Tempe, AZ 85282

Preliminary Data To: Jennifer Peterson, CH2M HILL
Sample Receipt Acknowledgement To: Jennifer Peterson, CH2M HILL
Hard Copy To: Jennifer Peterson, CH2M HILL
Invoice To: Honeywell/Copy J Peterson

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	Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite/Grab	Field Filtered Sample ?	Total VOCs (SW8260)	TRPH DRO C10-C22 - ORO C22-C32 (8015B)						MS/MSD					Sampling Method (code)	Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Units															
1	TB	--	--	TB-120908	12/9/8	0705	BLKWATER	WATER	TB	1	G	N	X													
2	ASE-100A	124	--	ASE-100A-8D1	12/9/8	0750	GW	WATER	REG	5	G	N	X	X												
3	ASE-103A	123	--	ASE-103A-8D1	12/9/8	0832	GW	WATER	REG	5	G	N	X	X												
4	ASE-129A	108	--	ASE-129A-8D1	12/9/8	0905	GW	WATER	REG	5	G	N	X	X												
5		--	--	PL-503-8D1	12/9/8	0915	GW	WATER	REG	5	G	N	X	X												
6	ASE-106A	122	--	ASE-106A-8D1	12/9/8	0952	GW	WATER	REG	5	G	N	X	X												
7	ASE-123A	~~124~~ 108	--	ASE-123A-8D1	12/9/8	1147	GW	WATER	REG	15	G	N	X	X						X						
8	ASE-109A	123	--	ASE-109A-8D1	12/9/8	1231	GW	WATER	REG	5	G	N	X	X												
9	ASE-110A	124	--	ASE-110A-8D1	12/9/8	1317	GW	WATER	REG	5	G	N	X	X												
10	ASE-101A	125		ASE-101A-8D1	12/9/8	1408	GW	WATER	REG	5	G	N	X	X												
11	ASE-124A	118	--	ASE-124A-8D1	12/9/8	1512	GW	WATER	REG	5	G	N	X	X												
12	ERB	--	--	PL-504-8D1	12/9/8	1528		WATER		5	G	N	X	X												

Relinquished by	Company	H+A	Received by	FEDEX	Company	Condition	Custody Seals Intact
	Date/Time	12/11/08 14:30		12/11/08 14:30	Date/Time	Cooler Temp.	
Relinquished by	Company		Received by		Company	Condition	Custody Seals Intact
	Date/Time				Date/Time 12/12/08 1000	Cooler Temp.	

Preservatives: (Other; Specify):

0 (none); 1 (4 Deg C); 2 (HCl pH<2); 3 (HNO3 pH<2); 4 (H2SO4 pH<2); 5 (NaOH pH>12); 6 (NaOH, Zn Acetate); 7 (H2SO4 (pH<2), 4 Deg C)); 8 (HCl pH<2); 9 (HCl 4 Deg C); 10 (HNO3 (pH<2), 4Deg C); 11 (4C NaOH (pH>12) & Ascorbic Acid); 12 (4C H2SO4 (pH<2) & Na2S2O3); 13 (Zn Acetate); sp (special instructions)

204575 2 of 2

Curtis & Tompkins Laboratories
2323 5th St.
Berkeley, CA 94710
510-204-2221

Honeywell — Chain Of Custody / Analysis Request

AESI Ref:	39784.54128
COC#	37380
Lab Proj # (SDG):	
Lab ID	CTBERK
Site ID	SKYHARBOR
Lab Job #	
Authorized User:	Honeywell
Text & Excel File Drive	Excel & Text File Order

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Privileged & Confidential		Site Name:	Sky Harbor
		Location of Site:	Phoenix, AZ
Phase:		Sampling Program	Quarterly UST

Sampling Co.:	H+A
Client Contact: (name, co., address)	
CH2M HILL	
2625 South Plaza Drive, Suite 300	
Tempe, AZ 85282	
Preliminary Data To	Jennifer Peterson, CH2M HILL
Sample Receipt Acknowledgement To	Jennifer Peterson, CH2M HILL
Hard Copy To	Jennifer Peterson, CH2M HILL
Invoice To:	Honeywell/Copy J Peterson

EDD To:	Jennifer Peterson jennifer.Peterson@ch2m.com
Sampler:	~~M. Weise~~ - M. Hall J. Yentes
PO #	4990342
Analysis Turnaround Time (TAT):	7
Consultant	
Full Report TAT:	7

Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite/Grab	Field Filtered Sample ?	Total VOCs (SW8260)	TRPH DRO C10-C22 - ORO C22-C32 (8015B)	MS/MSD	Sampling Method (code)	Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID						Units						
1	ASE-122A	101	--	ASE-122A-8D1	12/9/8	1551	GW	WATER	REG	5	G	N	X	X		
2	ASE-98A	123	--	ASE-98A-8D1	12/9/8	1634	GW	WATER	REG	5	G	N	X	X		
3																
4																
5																
6																
7																
8																
9																
10																
11																
12									76							

Relinquished by	Company	Received by	Company	Condition	Custody Seals Intact
	H+A		FedEx		
	Date/Time 12/11/08 14:30		Date/Time 12/11/08 14:30	Cooler Temp.	
Relinquished by	Company	Received by	Company	Condition	Custody Seals Intact
	Date/Time		Date/Time 12/12/8 1000	Cooler Temp. CT	

Preservatives: (Other; Specify):

0 (none); 1 (4 Deg C); 2 (HCl pH<2); 3 (HNO3 pH<2); 4 (H2SO4 pH<2); 5 (NaOH pH>12); 6 (NaOH, Zn Acetate); 7 (H2SO4 (pH<2), 4 Deg C)); 8 (HCl pH<2); 9 (HCl 4 Deg C); 10 (HNO3 (pH<2), 4Deg C); 11 (4C NaOH (pH>12) & Ascorbic Acid); 12 (4C H2SO4 (pH<2) & Na2S2O3); 13 (Zn Acetate); sp (special instructions)

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 208575 Date Received 12-12-08 Number of coolers 2
Client Honeywell Project Sky Harbour

Date Opened 12-12-08 By (print) J. Rasmussen (sign)
Date Logged in By (print) S. Ewan (sign)

1. Did cooler come with a shipping slip (airbill, etc) FedEx YES NO
   Shipping info 7955 2325 2978, 7955 2325 2990

2A. Were custody seals present? ... ☒ YES (circle) on cooler on samples ☐ NO
   How many 2 Name Unreadable Date 12-11-08
2B. Were custody seals intact upon arrival? YES NO N/A
3. Were custody papers dry and intact when received? YES NO
4. Were custody papers filled out properly (ink, signed, etc)? YES NO
5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO
6. Indicate the packing in cooler: (if other, describe)

   ☒ Bubble Wrap ☐ Foam blocks ☒ Bags ☐ None
   ☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation:

   Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) 4.1, 4.4

   ☐ Samples Received on ice & cold without a temperature blank

   ☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES NO
   If YES, what time were they transferred to freezer?
9. Did all bottles arrive unbroken/unopened? YES NO
10. Are samples in the appropriate containers for indicated tests? YES NO
11. Are sample labels present, in good condition and complete? YES NO
12. Do the sample labels agree with custody papers? YES NO
13. Was sufficient amount of sample sent for tests requested? YES NO
14. Are the samples appropriately preserved? YES NO N/A
15. Are bubbles > 6mm absent in VOA samples? YES NO N/A
16. Was the client contacted concerning this sample delivery? YES NO
    If YES, Who was called? By Date:

COMMENTS

Sample No 7: 3/9 Vials Broken
" 10: 1/2 Ambers Broken
" 13: 2/2 Ambers Broken

Chain of Custody

Laboratory Job Number 208575

ANALYTICAL REPORT

TPH-Extractables by GC

Matrix: Water

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	12/09/08
Units:	ug/L	Received:	12/12/08
Diln Fac:	1.000	Prepared:	12/15/08
Batch#:	146033		

Field ID:	ASE-100A-8D1	Lab ID:	208575-002
Type:	SAMPLE	Analyzed:	12/16/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	16 J	50	15	E4
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	97	50-120	
Hexacosane	101	58-127	

Field ID:	ASE-103A-8D1	Lab ID:	208575-003
Type:	SAMPLE	Analyzed:	12/16/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	ND	50	15	
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	108	50-120	
Hexacosane	118	58-127	

Field ID:	ASE-129A-8D1	Lab ID:	208575-004
Type:	SAMPLE	Analyzed:	12/16/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	ND	50	15	
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	98	50-120	
Hexacosane	106	58-127	

Field ID:	PL-503-8D1	Lab ID:	208575-005
Type:	SAMPLE	Analyzed:	12/16/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	ND	50	15	
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	109	50-120	
Hexacosane	116	58-127	

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	12/09/08
Units:	ug/L	Received:	12/12/08
Diln Fac:	1.000	Prepared:	12/15/08
Batch#:	146033		

Field ID: ASE-106A-8D1 Lab ID: 208575-006
Type: SAMPLE Analyzed: 12/17/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	ND	50	15	
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	99	50-120	
Hexacosane	106	58-127	

Field ID: ASE-123A-8D1 Lab ID: 208575-007
Type: SAMPLE Analyzed: 12/16/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	ND	50	15	
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	100	50-120	
Hexacosane	105	58-127	

Field ID: ASE-109A-8D1 Lab ID: 208575-008
Type: SAMPLE Analyzed: 12/17/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	ND	50	15	
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	106	50-120	
Hexacosane	113	58-127	

Field ID: ASE-110A-8D1 Lab ID: 208575-009
Type: SAMPLE Analyzed: 12/17/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	ND	50	15	
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	99	50-120	
Hexacosane	106	58-127	

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	12/09/08
Units:	ug/L	Received:	12/12/08
Diln Fac:	1.000	Prepared:	12/15/08
Batch#:	146033		

Field ID: ASE-101A-8D1 Lab ID: 208575-010
Type: SAMPLE Analyzed: 12/17/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	120 Y	50	15	
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	100	50-120	
Hexacosane	103	58-127	

Field ID: ASE-124A-8D1 Lab ID: 208575-011
Type: SAMPLE Analyzed: 12/17/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	20 J	50	15	E4
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	100	50-120	
Hexacosane	103	58-127	

Field ID: PL-504-8D1 Lab ID: 208575-012
Type: SAMPLE Analyzed: 12/17/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	ND	50	15	
Motor Oil C22-C32	58 J	300	40	E4

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	102	50-120	
Hexacosane	106	58-127	

Field ID: ASE-98A-8D1 Lab ID: 208575-014
Type: SAMPLE Analyzed: 12/17/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	ND	50	15	
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	65	50-120	
Hexacosane	67	58-127	

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	12/09/08
Units:	ug/L	Received:	12/12/08
Diln Fac:	1.000	Prepared:	12/15/08
Batch#:	146033		

Type:	BLANK	Analyzed:	12/16/08
Lab ID:	QC475532		

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	19 J	50	15	E4
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	95	50-120	
Hexacosane	100	58-127	

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC475533	Batch#:	146033
Matrix:	Water	Prepared:	12/15/08
Units:	ug/L	Analyzed:	12/16/08

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Diesel C10-C22	2,500	2,291	92	54-120	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	92	50-120	
Hexacosane	95	58-127	

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Field ID:	ASE-123A-8D1	Batch#:	146033
MSS Lab ID:	208575-007	Sampled:	12/09/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Prepared:	12/15/08
Diln Fac:	1.000	Analyzed:	12/16/08

Type: MS Lab ID: QC475534

Analyte	MSS Result	Spiked	Result	%REC	Limits	ADEQ Flags
Diesel C10-C22	<14.94	2,551	2,431	95	54-120	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	96	50-120	
Hexacosane	102	58-127	

Type: MSD Lab ID: QC475535

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
Diesel C10-C22	2,551	2,466	97	54-120	1	31	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	96	50-120	
Hexacosane	98	58-127	

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

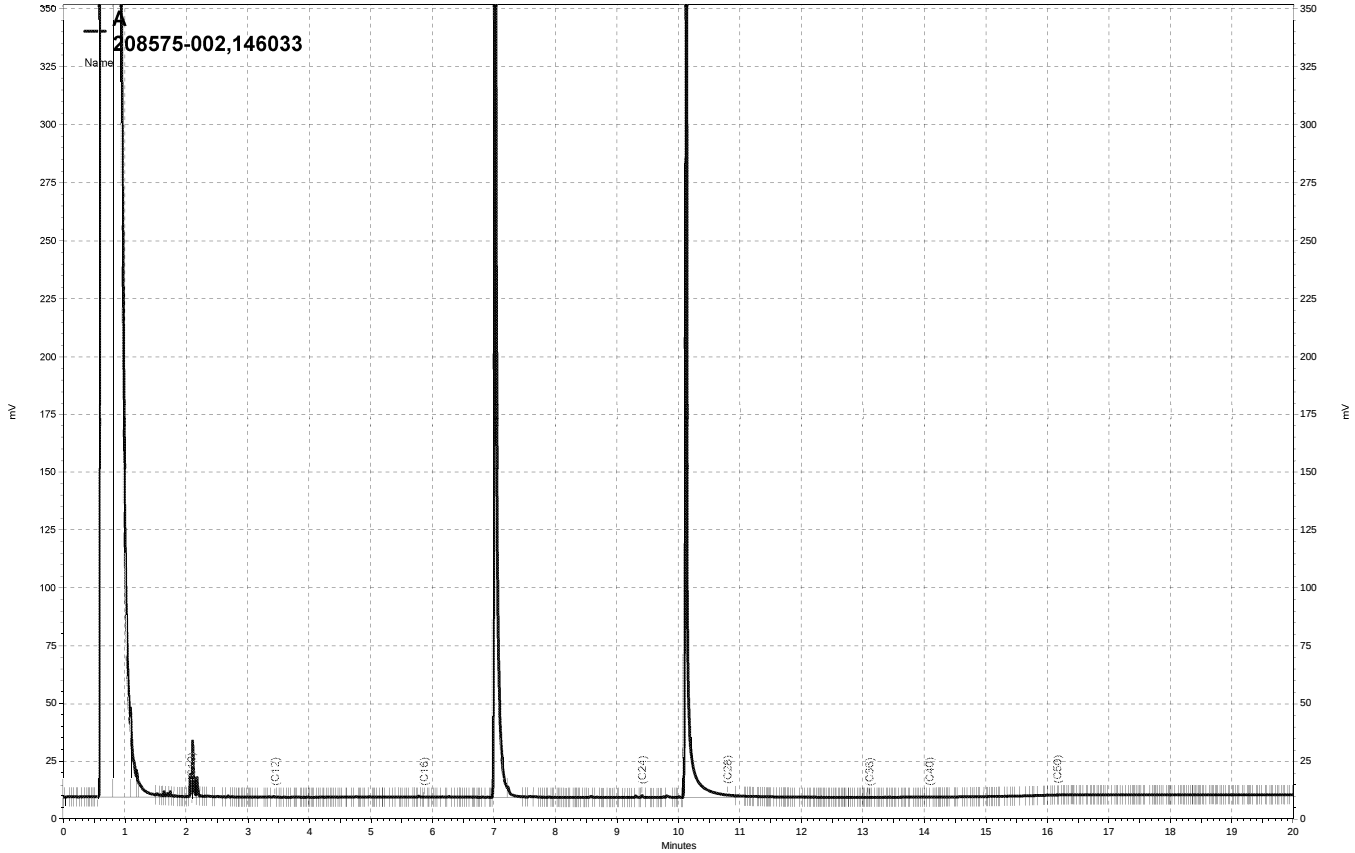
Batch QC Report

Total Extractable Hydrocarbons

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC475536	Batch#:	146033
Matrix:	Water	Prepared:	12/15/08
Units:	ug/L	Analyzed:	12/16/08

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Motor Oil C22-C32	2,500	2,627	105	60-140	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	94	50-120	
Hexacosane	82	58-127	



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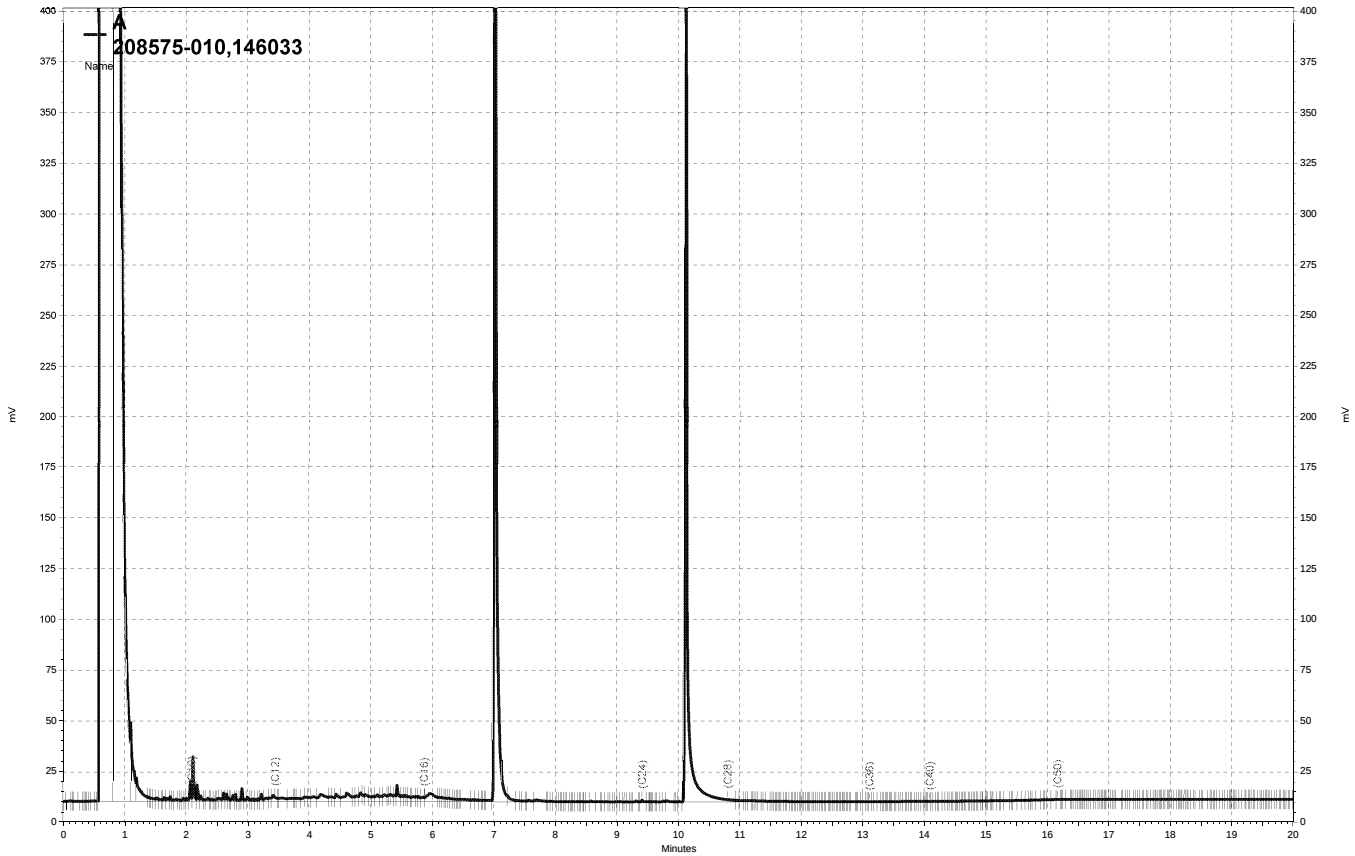

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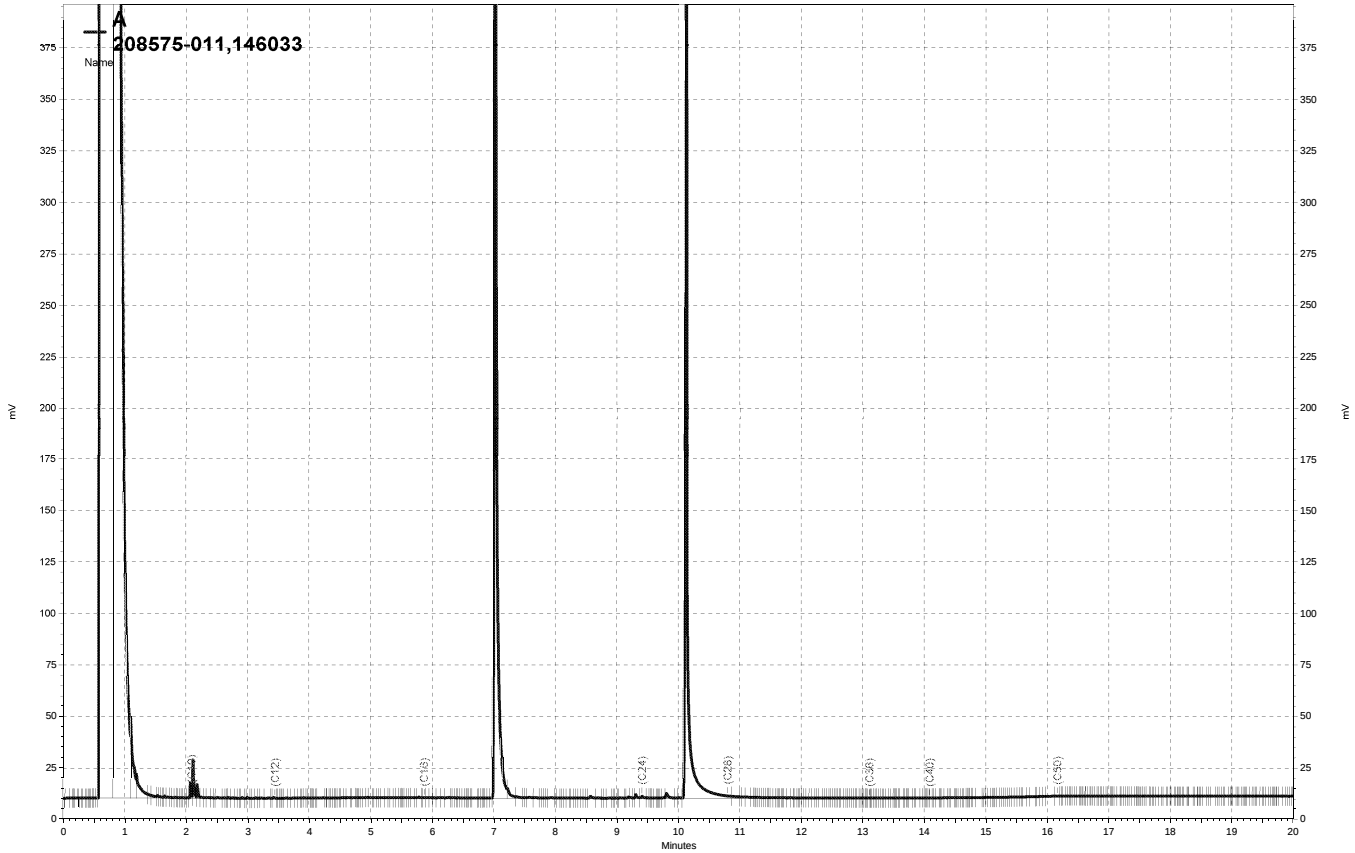

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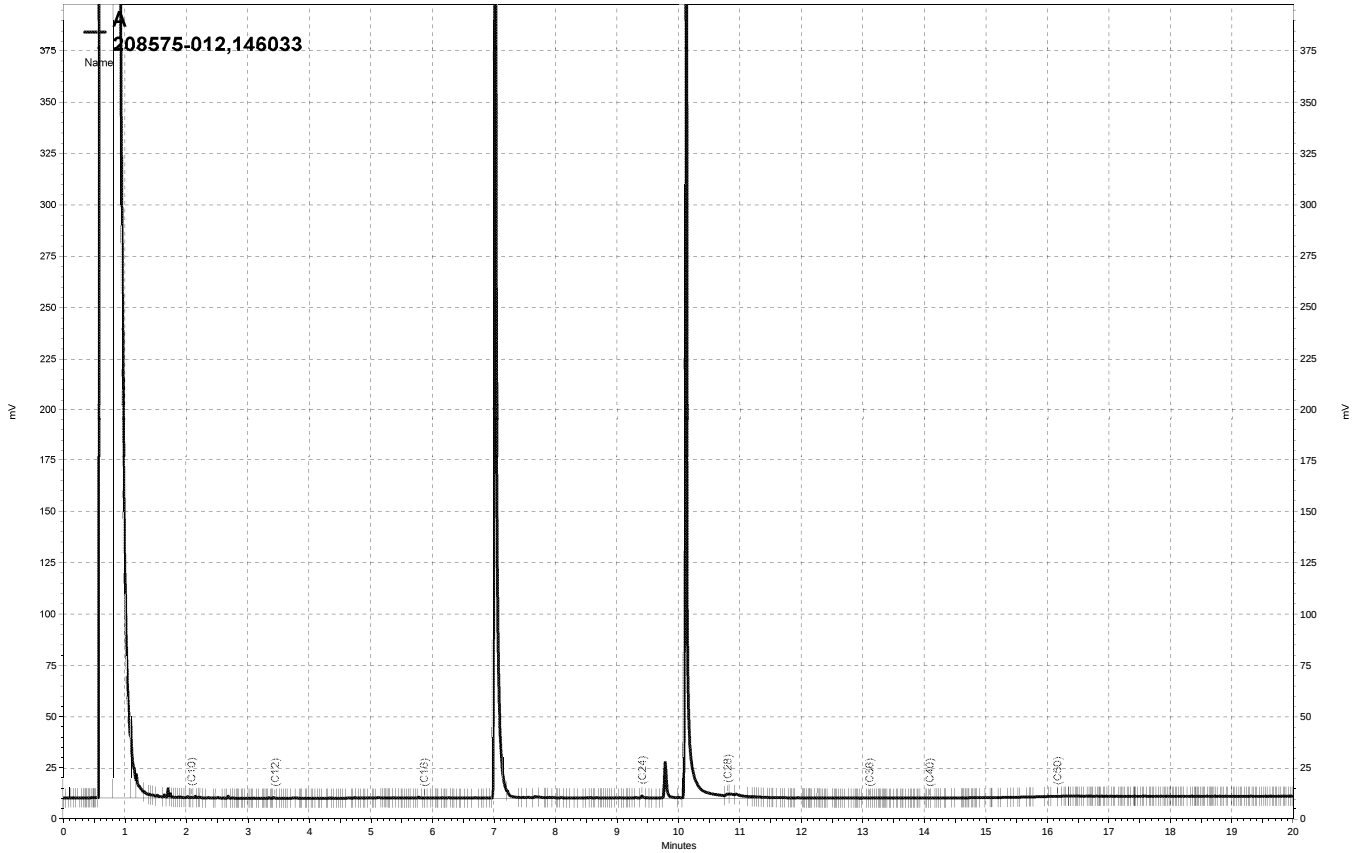

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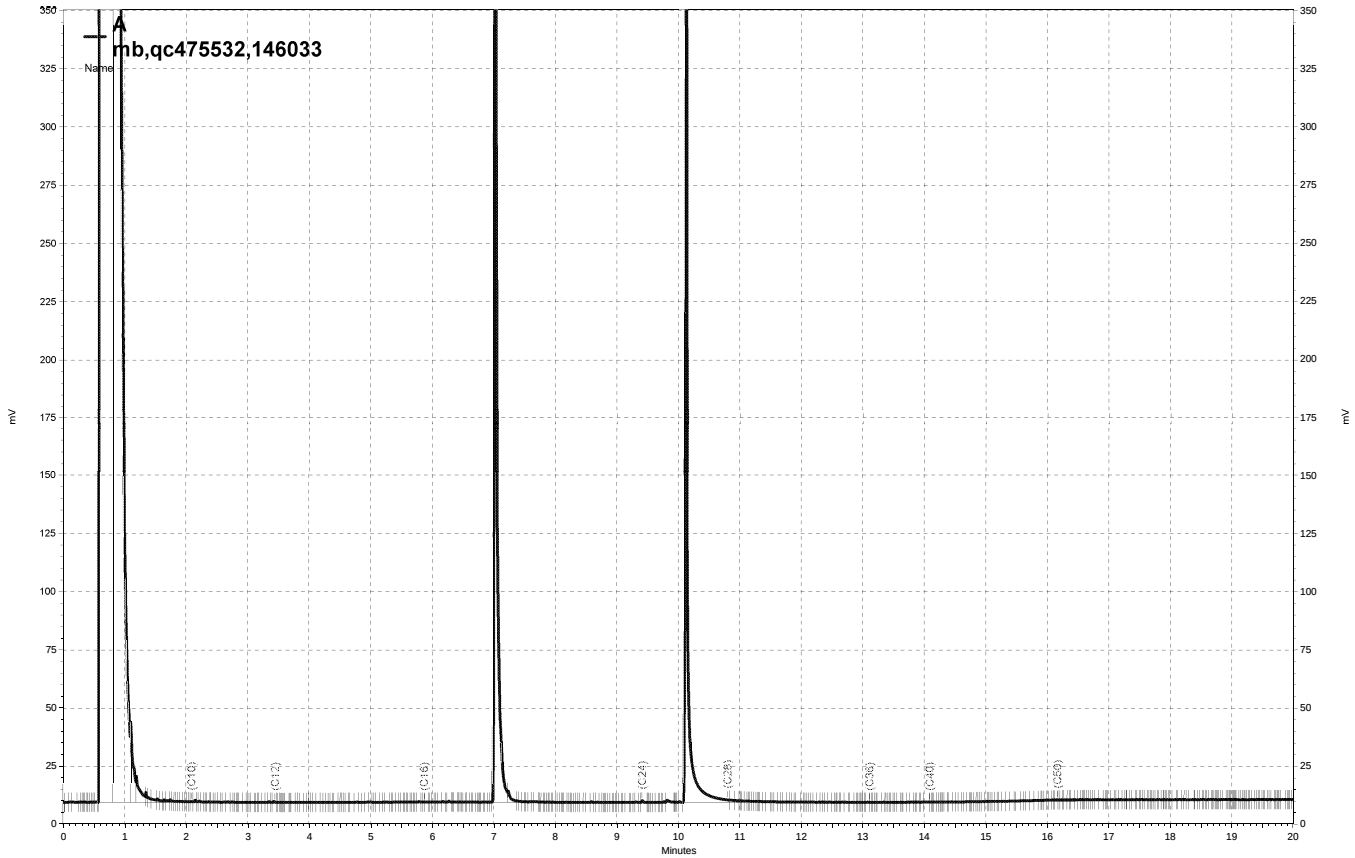

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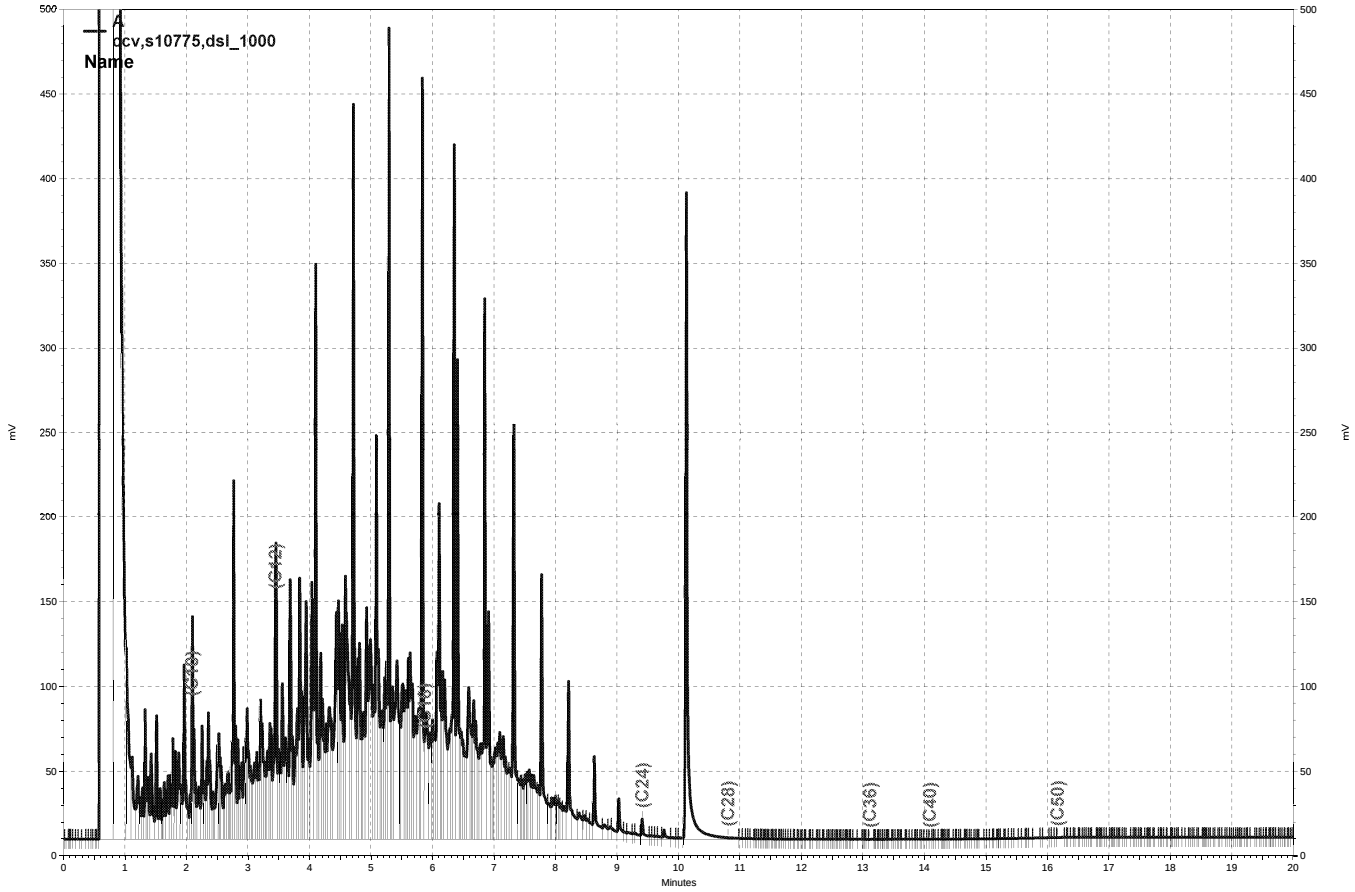

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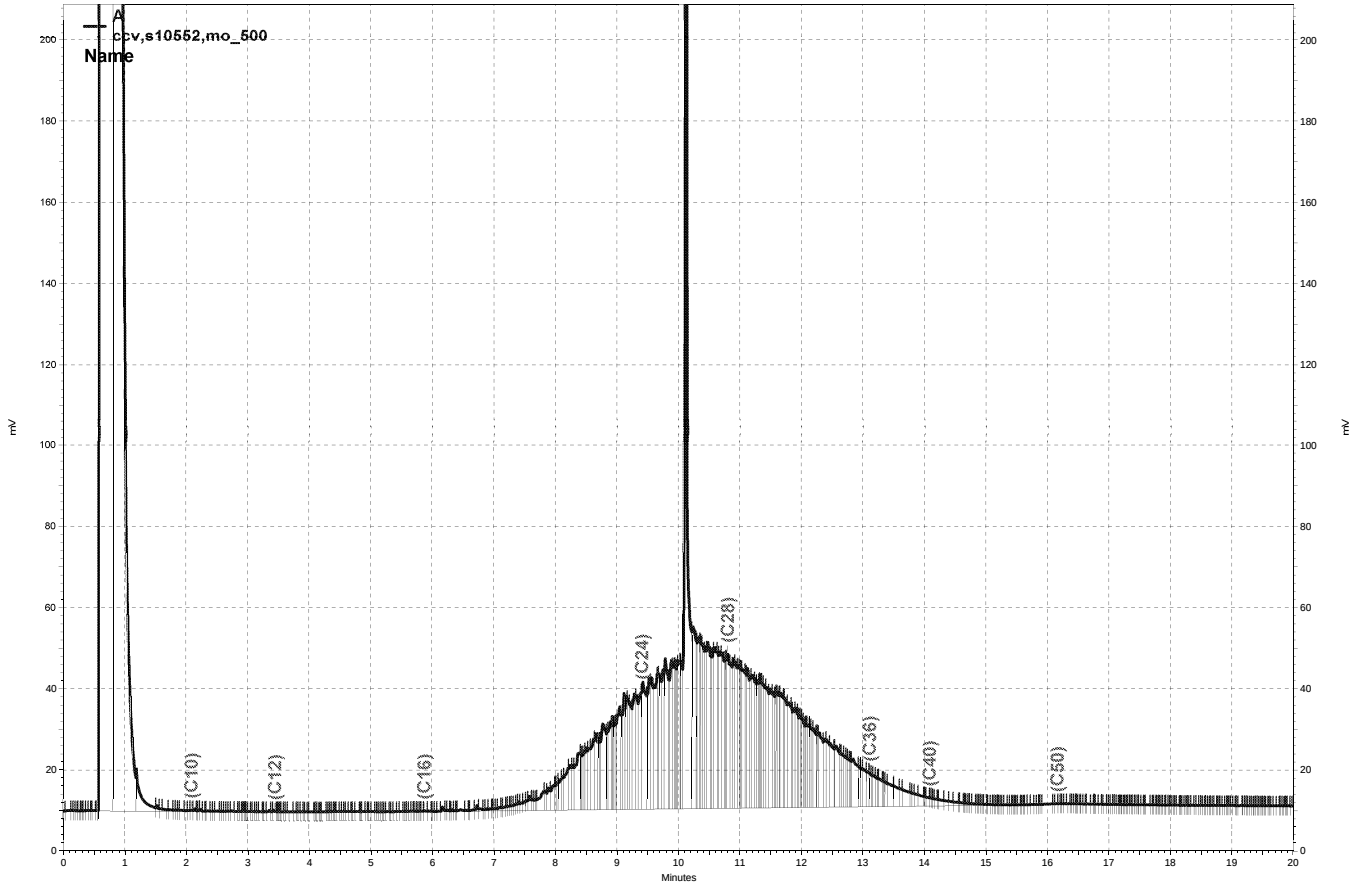

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CURTIS & TOMPKINS INITIAL CALIBRATION FOR 208575 GCSV Water: SW8015AZR1

Inst : GC26A
Calnum : 868466089004
Units : mg/L

Name : 26A diesel_323
Date : 18-NOV-2008 19:38
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	323a008	868466089008	DSL_10	18-NOV-2008 19:38	S9527
L2	323a009	868466089009	DSL_100	18-NOV-2008 20:06	S9528
L3	323a010	868466089010	DSL_500	18-NOV-2008 20:35	S9529
L4	323a011	868466089011	DSL_1000	18-NOV-2008 21:04	S9530
L5	323a012	868466089012	DSL_5000	18-NOV-2008 21:33	S9526
L6	323a013	868466089013	DSL_7500	18-NOV-2008 22:01	S9531

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C22	27669	29864	28006	25990	26629	23471	AVRG		3.71E-5		26938	8	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C10-C22	10.00	3	100.0	11	500.0	4	1000	-4	5000	-1	7500	-13

Analyst: ATL Date: 11/24/08 Reviewer: CW Date: 11/24/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 208575 GCSV Water
SW8015AZR1

Inst : GC26A Name : 26A diesel_323
Calnum : 868466089004 Cal Date : 18-NOV-2008

ICV 868466089015 (323a015 18-NOV-2008) stds: S10153

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C10-C22	26938	28040	500.0	520.5	mg/L	4	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 208575 GCSV Water: SW8015AZR1

Inst : GC26A
Calnum : 868466089003
Units : mg/L

Name : OTP(26A)_323
Date : 19-NOV-2008 09:23
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	323a039	868466089039	OTP_5	19-NOV-2008 09:23	S9739
L2	323a040	868466089040	OTP_10	19-NOV-2008 09:52	S9740
L3	323a041	868466089041	OTP_25	19-NOV-2008 10:20	S9741
L4	323a042	868466089042	OTP_50	19-NOV-2008 10:49	S9742
L5	323a043	868466089043	OTP_100	19-NOV-2008 11:18	S9745
L6	323a044	868466089044	OTP_200	19-NOV-2008 11:47	S9744

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	29916	32641	30352	26603	29783	29496	AVRG		3.36E-5		29798	6	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	5.000	0	10.00	10	25.00	2	50.00	-11	100.0	0	200.0	-1

ATL 11/21/08 : OTP_25 point was used to update RT for asurotp323.met.

Analyst: ATL Date: 11/21/08 Reviewer: CW Date: 11/24/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 208575 GCSV Water: SW8015AZR1

Inst : GC26A
Calnum : 868470899001
Units : mg/L

Name : HEX(26a)_326
Date : 21-NOV-2008 14:16
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	326a009	868470899009	HEX_5	21-NOV-2008 14:16	S10602
L2	326a010	868470899010	HEX_10	21-NOV-2008 14:45	S10603
L3	326a011	868470899011	HEX_25	21-NOV-2008 15:14	S10604
L4	326a012	868470899012	HEX_50	21-NOV-2008 15:42	S10605
L5	326a013	868470899013	HEX_100	21-NOV-2008 16:10	S10606
L6	326a014	868470899014	HEX_200	21-NOV-2008 16:39	S10607

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Hexacosane	19927	19232	21749	21319	21276	20862	AVRG		4.82E-5		20727	5	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Hexacosane	5.000	-4	10.00	-7	25.00	5	50.00	3	100.0	3	200.0	1

DNT 11/23/08 : Levels 3-6 peaks were manually integrated.

Analyst: DNT Date: 11/23/08 Reviewer: CW Date: 11/24/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 208575 GCSV Water: SW8015AZR1

Inst : GC26A
Calnum : 868487360001
Units : mg/L

Name : MO(26a)_338
Date : 03-DEC-2008 18:28
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	338a013	868487360013	MO_50	03-DEC-2008 18:28	S10563
L2	338a015	868487360015	MO_500	03-DEC-2008 19:26	S10564
L3	338a016	868487360016	MO_1000	03-DEC-2008 19:55	S10566
L4	338a017	868487360017	MO_5000	03-DEC-2008 20:23	S10567
L5	338a018	868487360018	MO_7500	03-DEC-2008 20:52	S10568
L6	338a030	868487360030	MO_250	04-DEC-2008 13:02	S10565

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C22-C32	11273	12715	12308	12247	11468	11999	AVRG		8.33E-5		12002	5	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C22-C32	50.00	-6	500.0	6	1000	3	5000	2	7500	-4	250.0	0

ATL 12/04/08 : Manually integrated all motor oil points except MO_250 for fuel hump. MO_250 pt. was re-run to confirm misinject run #14.

Analyst: ATL Date: 12/04/08 Reviewer: CP Date: 12/04/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208575 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : DSL_1000 IDF : 1.0
Seqnum : 868505713014 File : 351a014 Time : 16-DEC-2008 13:24
Standards: S10775

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C22	868466089004	18-NOV-2008	26938	25419	1000	943.6	mg/L	-6	15	
Hexacosane	868470899001	21-NOV-2008	20727	17825	50.00	43.00	mg/L	-14	15	

Analyst: JDG Date: 12/16/08 Reviewer: CP Date: 12/16/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208575 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : MO_500 IDF : 1.0
Seqnum : 868505713015 File : 351a015 Time : 16-DEC-2008 13:53
Standards: S10552

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C22-C32	868487360001	03-DEC-2008	12002	12530	500.0	522.0	mg/L	4	15	
Hexacosane	868470899001	21-NOV-2008	20727	17413	50.00	42.01	mg/L	**-16**	15	c-

Analyst: ATL Date: 12/23/08 Reviewer: JDG Date: 12/23/08

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208575 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : OTP_50 IDF : 1.0
Seqnum : 868505713017 File : 351a017 Time : 16-DEC-2008 17:23
Cal : 868466089003 Caldate : 19-NOV-2008
Standards: S10089

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
o-Terphenyl	29798	27410	50.00	45.99	mg/L	-8	15	

Analyst: ATL Date: 12/23/08 Reviewer: JDG Date: 12/23/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208575 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : OTP_50 IDF : 1.0
Seqnum : 868505713031 File : 351a031 Time : 17-DEC-2008 00:20
Cal : 868466089003 Caldate : 19-NOV-2008
Standards: S10089

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
o-Terphenyl	29798	28937	50.00	48.55	mg/L	-3	15	

Analyst: ATL Date: 12/17/08 Reviewer: JDG Date: 12/23/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208575 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : DSL_500 IDF : 1.0
Seqnum : 868505713032 File : 351a032 Time : 17-DEC-2008 00:48
Standards: S10774

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C22	868466089004	18-NOV-2008	26938	27027	500.0	501.7	mg/L	0	15	
Hexacosane	868470899001	21-NOV-2008	20727	20776	50.00	50.12	mg/L	0	15	

Analyst: ATL Date: 12/17/08 Reviewer: JDG Date: 12/23/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208575 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : MO_500 IDF : 1.0
Seqnum : 868505713033 File : 351a033 Time : 17-DEC-2008 01:16
Standards: S10552

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C22-C32	868487360001	03-DEC-2008	12002	13164	500.0	548.4	mg/L	10	15	
Hexacosane	868470899001	21-NOV-2008	20727	17747	50.00	42.81	mg/L	-14	15	

ATL 12/17/08 : Manually integrated fuel hump.

Analyst: ATL Date: 12/17/08 Reviewer: JDG Date: 12/23/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208575 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : DSL_250 IDF : 1.0
Seqnum : 868505713045 File : 351a045 Time : 17-DEC-2008 06:54
Standards: S10773

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C22	868466089004	18-NOV-2008	26938	27085	250.0	251.4	mg/L	1	15	
Hexacosane	868470899001	21-NOV-2008	20727	20311	50.00	49.00	mg/L	-2	15	

ATL 12/17/08 : Manually integrated fuel hump.

Analyst: ATL Date: 12/17/08 Reviewer: EAH Date: 12/23/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208575 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : OTP_50 IDF : 1.0
Seqnum : 868505713047 File : 351a047 Time : 17-DEC-2008 07:50
Cal : 868466089003 Caldate : 19-NOV-2008
Standards: S10089

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
o-Terphenyl	29798	29522	50.00	49.54	mg/L	-1	15	

Analyst: ATL Date: 12/17/08 Reviewer: EAH Date: 12/23/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208575 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : MO_500 IDF : 1.0
Seqnum : 868505713049 File : 351a049 Time : 17-DEC-2008 08:46
Standards: S10552

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C22-C32	868487360001	03-DEC-2008	12002	13437	500.0	559.8	mg/L	12	15	
Hexacosane	868470899001	21-NOV-2008	20727	18287	50.00	44.11	mg/L	-12	15	

ATL 12/17/08 : Manually integrated fuel hump.

Analyst: ATL Date: 12/17/08 Reviewer: EAH Date: 12/23/08

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868466089

Instrument : GC26A Begun : 11/18/08 16:09
Method : SW8015AZR1 SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	323a001	X	PRIMER			11/18/08 16:09	1.0		
002	323a002	X	IB			11/18/08 16:38	1.0		
003	323a003	X	IB			11/18/08 17:06	1.0		
007	323a007	IB	CALIB			11/18/08 19:09	1.0		
008	323a008	ICAL	DSL_10			11/18/08 19:38	1.0	1	
009	323a009	ICAL	DSL_100			11/18/08 20:06	1.0	2	
010	323a010	ICAL	DSL_500			11/18/08 20:35	1.0	3	
011	323a011	ICAL	DSL_1000			11/18/08 21:04	1.0	4	
012	323a012	ICAL	DSL_5000			11/18/08 21:33	1.0	5	
013	323a013	ICAL	DSL_7500			11/18/08 22:01	1.0	6	
015	323a015	ICV	DSL_500			11/18/08 22:59	1.0	7	
017	323a017	IB	CALIB			11/18/08 23:56	1.0		
032	323a032	ICAL	JP5_10			11/19/08 06:03	1.0	8	
033	323a033	ICAL	JP5_100			11/19/08 06:31	1.0	9	
034	323a034	ICAL	JP5_500			11/19/08 07:00	1.0	10	
035	323a035	ICAL	JP5_1500			11/19/08 07:28	1.0	11	
036	323a036	ICAL	JP5_2500			11/19/08 07:57	1.0	12	
037	323a037	ICAL	JP5_5000			11/19/08 08:26	1.0	13	
038	323a038	IB	CALIB			11/19/08 08:54	1.0		
039	323a039	ICAL	OTP_5			11/19/08 09:23	1.0	14	
040	323a040	ICAL	OTP_10			11/19/08 09:52	1.0	15	
041	323a041	ICAL	OTP_25			11/19/08 10:20	1.0	16	
042	323a042	ICAL	OTP_50			11/19/08 10:49	1.0	17	
043	323a043	ICAL	OTP_100			11/19/08 11:18	1.0	18	
044	323a044	ICAL	OTP_200			11/19/08 11:47	1.0	19	
045	323a045	IB	CALIB			11/19/08 12:16	1.0		
046	323a046	CMARKER	C8-C50			11/19/08 12:44	1.0	20	

ATL 11/21/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 46.

Analyst: ATL Date: 11/21/08 Reviewer: CW Date: 11/24/08

Standards used: 1=S9527 2=S9528 3=S9529 4=S9530 5=S9526 6=S9531 7=S10153 8=S10506 9=S10507 10=S10508 11=S10509 12=S10510 13=S10505 14=S9739 15=S9740 16=S9741 17=S9742 18=S9745 19=S9744 20=S10268

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CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868470899

Instrument : GC26A Begun : 11/21/08 13:47
Method : SW8015AZR1 SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
008	326a008	IB	CALIB			11/21/08 13:47	1.0		
009	326a009	ICAL	HEX_5			11/21/08 14:16	1.0	1	
010	326a010	ICAL	HEX_10			11/21/08 14:45	1.0	2	
011	326a011	ICAL	HEX_25			11/21/08 15:14	1.0	3	
012	326a012	ICAL	HEX_50			11/21/08 15:42	1.0	4	
013	326a013	ICAL	HEX_100			11/21/08 16:10	1.0	5	
014	326a014	ICAL	HEX_200			11/21/08 16:39	1.0	6	
015	326a015	IB	CALIB			11/21/08 17:07	1.0		
016	326a016	ICAL	MO_50			11/21/08 17:36	1.0	7	
017	326a017	ICAL	MO_250			11/21/08 18:05	1.0	8	
018	326a018	ICAL	MO_500			11/21/08 18:34	1.0	9	
019	326a019	ICAL	MO_1000			11/21/08 19:03	1.0	10	
020	326a020	ICAL	MO_5000			11/21/08 19:31	1.0	11	
021	326a021	ICAL	MO_7500			11/21/08 20:00	1.0	12	
022	326a022	IB	CALIB			11/21/08 20:29	1.0		
023	326a023	ICAL	JP8_10			11/21/08 20:58	1.0	13	
024	326a024	ICAL	JP8_100			11/21/08 21:27	1.0	14	
025	326a025	ICAL	JP8_500			11/21/08 21:55	1.0	15	
026	326a026	ICAL	JP8_1500			11/21/08 22:24	1.0	16	
027	326a027	ICAL	JP8_2500			11/21/08 22:53	1.0	17	
028	326a028	ICAL	JP8_5000			11/21/08 23:21	1.0	18	
029	326a029	IB	CALIB			11/21/08 23:50	1.0		
030	326a030	CMARKER	C8-C50			11/22/08 00:19	1.0	19	

DNT 11/24/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 8 through 30.

Analyst: DNT Date: 11/23/08 Reviewer: CW Date: 11/24/08

Standards used: 1=S10602 2=S10603 3=S10604 4=S10605 5=S10606 6=S10607 7=S10563 8=S10565 9=S10564 10=S10566 11=S10567 12=S10568 13=S10822 14=S10823 15=S10824 16=S10825 17=S10826 18=S10821 19=S10268

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CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868487360

Instrument : GC26A Begun : 12/03/08 10:40
Method : SW8015AZR1 SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	338a001	X	IB			12/03/08 10:40	1.0		
002	338a002	X	IB			12/03/08 11:09	1.0		
003	338a003	X	CMARKER			12/03/08 11:37	1.0	1	
004	338a004	CCV	JP5_250			12/03/08 12:06	1.0	2	
005	338a005	CCV	OTP_50			12/03/08 12:36	1.0	3	
006	338a006	CCV	DSL_250			12/03/08 13:05	1.0	4	
007	338a007	CCV	MO_500			12/03/08 14:34	1.0	5	
009	338a009	CCV	DSL_250			12/03/08 15:32	1.0	6	
010	338a010	CCV	DSL_500			12/03/08 16:01	1.0	7	
011	338a011	CCV	DSL_1000			12/03/08 16:31	1.0	8	
012	338a012	IB	CALIB			12/03/08 17:54	1.0		
013	338a013	ICAL	MO_50			12/03/08 18:28	1.0	9	
014	338a014	X	ICAL			12/03/08 18:57	1.0	10	
015	338a015	ICAL	MO_500			12/03/08 19:26	1.0	11	
016	338a016	ICAL	MO_1000			12/03/08 19:55	1.0	12	
017	338a017	ICAL	MO_5000			12/03/08 20:23	1.0	13	
018	338a018	ICAL	MO_7500			12/03/08 20:52	1.0	14	
019	338a019	IB	CALIB			12/03/08 21:21	1.0		
020	338a020	ICAL	BUNK_50			12/03/08 21:50	1.0	15	
021	338a021	ICAL	BUNK_500			12/03/08 22:19	1.0	16	
022	338a022	ICAL	BUNK_1250			12/03/08 22:48	1.0	17	
023	338a023	ICAL	BUNK_2500			12/03/08 23:16	1.0	18	
024	338a024	ICAL	BUNK_5000			12/03/08 23:45	1.0	19	
025	338a025	IB	CALIB			12/04/08 00:14	1.0		
026	338a026	CMARKER	C8-C50			12/04/08 00:43	1.0	1	
027	338a027	IB	CALIB			12/04/08 01:12	1.0		
028	338a028	X	TANKCHECK			12/04/08 01:40	1.0		
029	338a029	IB	CALIB			12/04/08 12:34	1.0		
030	338a030	ICAL	MO_250			12/04/08 13:02	1.0	10	

ATL 12/04/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 30.

Analyst: ATL Date: 12/04/08 Reviewer: CP Date: 12/04/08

Standards used: 1=S10268 2=S10245 3=S10089 4=S10218 5=S10552 6=S10773 7=S10774 8=S10775 9=S10563 10=S10565 11=S10564 12=S10566 13=S10567 14=S10568 15=S10515 16=S10516 17=S10517 18=S10518 19=S10514

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CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868505713

Instrument : GC26A Begun : 12/16/08 04:33
Method : SW8015AZR1 SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	351a001	X	IB				12/16/08 04:33	1.0	
002	351a002	X	IB				12/16/08 05:01	1.0	
003	351a003	X	IB				12/16/08 05:29	1.0	
004	351a004	X	CMARKER				12/16/08 05:58	1.0	1
005	351a005	CCV	DSL_250				12/16/08 06:26	1.0	2
006	351a006	CCV	MO_500				12/16/08 06:55	1.0	3
007	351a007	CCV	JP5_250				12/16/08 07:44	1.0	4
008	351a008	X	IB				12/16/08 08:44	1.0	
009	351a009	X	IB				12/16/08 10:56	1.0	
010	351a010	BS	QC475317		Water	145987	12/16/08 11:24	1.0	
011	351a011	BSD	QC475318		Water	145987	12/16/08 11:53	1.0	
012	351a012	SAMPLE	208416-005		WET Leachate	145987	12/16/08 12:21	1.0	
013	351a013	SAMPLE	208416-005	S	WET Leachate	145987	12/16/08 12:50	1.0	
014	351a014	CCV	DSL_1000				12/16/08 13:24	1.0	5
015	351a015	CCV	MO_500				12/16/08 13:53	1.0	3
016	351a016	X	IB				12/16/08 16:55	1.0	
017	351a017	CCV	OTP_50				12/16/08 17:23	1.0	6
018	351a018	BLANK	QC475532		Water	146033	12/16/08 18:13	1.0	
019	351a019	LCS	QC475533		Water	146033	12/16/08 18:42	1.0	
020	351a020	LCS	QC475536		Water	146033	12/16/08 19:10	1.0	
021	351a021	MSS	208575-007		Water	146033	12/16/08 19:39	1.0	
022	351a022	MS	QC475534		Water	146033	12/16/08 20:07	1.0	
023	351a023	MSD	QC475535		Water	146033	12/16/08 20:35	1.0	
024	351a024	SAMPLE	208575-002		Water	146033	12/16/08 21:03	1.0	
025	351a025	SAMPLE	208575-003		Water	146033	12/16/08 21:31	1.0	
026	351a026	SAMPLE	208575-004		Water	146033	12/16/08 21:59	1.0	
027	351a027	SAMPLE	208575-005		Water	146033	12/16/08 22:27	1.0	
028	351a028	X	CMARKER				12/16/08 22:56	1.0	1
029	351a029	X	CCV				12/16/08 23:24	1.0	7
030	351a030	X	CCV				12/16/08 23:52	1.0	3
031	351a031	CCV	OTP_50				12/17/08 00:20	1.0	6
032	351a032	CCV	DSL_500				12/17/08 00:48	1.0	7
033	351a033	CCV	MO_500				12/17/08 01:16	1.0	3
034	351a034	X	CCV				12/17/08 01:44	1.0	6
035	351a035	SAMPLE	208575-006		Water	146033	12/17/08 02:12	1.0	
036	351a036	SAMPLE	208575-008		Water	146033	12/17/08 02:41	1.0	
037	351a037	SAMPLE	208575-009		Water	146033	12/17/08 03:09	1.0	
038	351a038	SAMPLE	208575-010		Water	146033	12/17/08 03:37	1.0	
039	351a039	SAMPLE	208575-011		Water	146033	12/17/08 04:05	1.0	
040	351a040	SAMPLE	208575-012		Water	146033	12/17/08 04:33	1.0	
041	351a041	SAMPLE	208575-014		Water	146033	12/17/08 05:02	1.0	
042	351a042	SAMPLE	208576-002		Water	146033	12/17/08 05:30	1.0	
043	351a043	SAMPLE	208576-003		Water	146033	12/17/08 05:58	1.0	
044	351a044	SAMPLE	208576-004		Water	146033	12/17/08 06:26	1.0	
045	351a045	CCV	DSL_250				12/17/08 06:54	1.0	2
046	351a046	X	CCV				12/17/08 07:22	1.0	3
047	351a047	CCV	OTP_50				12/17/08 07:50	1.0	6
048	351a048	X	CCV				12/17/08 08:18	1.0	2
049	351a049	CCV	MO_500				12/17/08 08:46	1.0	3
050	351a050	X	CCV				12/17/08 09:15	1.0	6
051	351a051	SAMPLE	208576-005		Water	146033	12/17/08 09:43	1.0	
052	351a052	SAMPLE	208576-006		Water	146033	12/17/08 10:11	1.0	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868505713

Instrument : GC26A Begun : 12/16/08 04:33
Method : SW8015AZR1 SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
053	351a053	SAMPLE	208576-007		Water	146033	12/17/08 10:39	1.0		
054	351a054	SAMPLE	208576-008		Water	146033	12/17/08 11:07	1.0		
055	351a055	SAMPLE	208576-009		Water	146033	12/17/08 11:36	1.0		
056	351a056	X	CMARKER				12/17/08 12:05	1.0	1	
057	351a057	CCV	DSL_1000				12/17/08 12:33	1.0	5	
058	351a058	CCV	MO_500				12/17/08 13:01	1.0	3	
059	351a059	CCV	OTP_50				12/17/08 13:30	1.0	6	
060	351a060	X	CCV				12/17/08 13:58	1.0	5	
061	351a061	X	CCV				12/17/08 14:27	1.0	3	
062	351a062	X	CCV				12/17/08 14:56	1.0	6	
063	351a063	IDOC	QC467042				12/17/08 15:44	1.0		
064	351a064	IDOC	QC467043				12/17/08 16:12	1.0		
065	351a065	X	TANK CHECK				12/17/08 16:41	1.0		
066	351a066	X	TANK CHECK				12/17/08 17:09	1.0		

JDG 12/16/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 15.

DNT 12/16/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 16 through 26.

ATL 12/17/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 27 through 41.

DNT 12/17/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 42 through 66.

Standards used: 1=S10268 2=S10773 3=S10552 4=S10245 5=S10775 6=S10089 7=S10774

SAMPLE PREPARATION SUMMARY

Batch # : 146033
Started By : DJT
Method : 3520C
Spike #1 ID : S10879

Prep Date : 15-DEC-2008 17:45
Spike #2 ID : S10905

Analysis : 8015AZ
Finished By : TWY
Units : mL
Spike #3 ID : S10955

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
208575-002		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208575-003		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208575-004		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208575-005		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208575-006		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208575-007		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	mss
208575-008		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208575-009		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208575-010		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208575-011		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208575-012		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208575-014		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208576-002		Water	490	2.5	1	0.005102	7	.5		.5		8015AZ	
208576-003		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208576-004		Water	490	2.5	1	0.005102	7	.5		.5		8015AZ	
208576-005		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208576-006		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208576-007		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208576-008		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208576-009		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
QC475532	BLANK	Water	500	2.5	1	0.005		.5		.5		8015AZ	
QC475533	LCS	Water	500	2.5	1	0.005		.5	.5	.5		8015AZ	
QC475534	MS	Water	490	2.5	1	0.005102	7	.5	.5	.5		8015AZ	
QC475535	MSD	Water	490	2.5	1	0.005102	7	.5	.5	.5		8015AZ	
QC475536	LCS	Water	500	2.5	1	0.005		.5		.5		8015AZ	+.5 mL S10787C

ATL 12/23/08 : None of the samples in this batch need silica gel. No silica gel log needed.

Analyst: JDG Date: 12/23/08 Reviewer: ATL Date: 12/23/08

TEH (8015) Water Prep Log

Curtis & Tompkins, Ltd.

LIMS Batch No: 146033
LIMS Analysis: 8015AZ
Date Extracted: 12/15/08

Extraction Method:
☐ mod. EPA 3510c sep. funnel
☒ mod. EPA 3520c cont. L/L

Cleanup Method (if needed):
☐ EPA 3630c Silica Gel

Sample #	Container ID	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
20X575-002	D	500	7	2.5		
003	E					
004	↓					
005	D					
006	↓					
007	I					MSS
008	E					
009	↓					
010	D					
011						
012	↓					
014	E					
20X576-002	D	490				
003	E	500				
004	D	490				
005		500				
006						
007						POSS 2x SURR
008	↓					
009	E		↓			
MB QC475532	NA		NA			
LCS 3	↓	↓	↓			
MS 4	G	490	7			
MSD 5	H	↓	↓			
★LCS 6	NA	500	NA	↓		

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.5/0.5 mL of TEH_SURR was added to all samples	510879c / 510955B	DJS 12/15/08
★0.5/0.5 mL of TEH_SP was added to all spikes	510905A / 510787c★	↓
pH of all samples adjusted to pH ≤ 2 with H_2SO_4	FS075690	
☒ 3520c: Samples were continually extracted about 450 mL of CH_2Cl_2	EM48289	
Extraction Start Time:	1745	↓
Extraction End Time:	1145	DDC 12/16/08
☐ 3510c: Samples were extracted 3 times with 60 mL of CH_2Cl_2	N/A	12/16/08 / TWX
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EM48315847	↓
Concentrated to final volume at temperature (degrees C)	100°	
Relinquished to TEH Department	✓	↓

12/15/08
Extraction Chemist **Date**

Contined from Page ___/___
Continued on Page ___/___

12/23/08
Reviewed by **Date**

Laboratory Job Number 208575

ANALYTICAL REPORT

Volatile Organics by GC/MS

Matrix: Water

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	TB-120908	Batch#:	146322
Lab ID:	208575-001	Sampled:	12/09/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/22/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	V9
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	TB-120908	Batch#:	146322
Lab ID:	208575-001	Sampled:	12/09/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/22/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	102	77-120	
1,2-Dichloroethane-d4	101	70-127	
Toluene-d8	104	83-125	
Bromofluorobenzene	102	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-100A-8D1	Batch#:	146322
Lab ID:	208575-002	Sampled:	12/09/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/22/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	V9
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-100A-8D1	Batch#:	146322
Lab ID:	208575-002	Sampled:	12/09/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/22/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	102	77-120	
1,2-Dichloroethane-d4	105	70-127	
Toluene-d8	103	83-125	
Bromofluorobenzene	106	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-103A-8D1	Batch#:	146322
Lab ID:	208575-003	Sampled:	12/09/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/22/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	V9
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-103A-8D1	Batch#:	146322
Lab ID:	208575-003	Sampled:	12/09/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/22/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	101	77-120	
1,2-Dichloroethane-d4	99	70-127	
Toluene-d8	98	83-125	
Bromofluorobenzene	102	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-129A-8D1	Batch#:	146322
Lab ID:	208575-004	Sampled:	12/09/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/22/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	V9
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-129A-8D1	Batch#:	146322
Lab ID:	208575-004	Sampled:	12/09/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/22/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	102	77-120	
1,2-Dichloroethane-d4	101	70-127	
Toluene-d8	101	83-125	
Bromofluorobenzene	101	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	PL-503-8D1	Batch#:	146322
Lab ID:	208575-005	Sampled:	12/09/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/22/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	V9
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	PL-503-8D1	Batch#:	146322
Lab ID:	208575-005	Sampled:	12/09/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/22/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	103	77-120	
1,2-Dichloroethane-d4	102	70-127	
Toluene-d8	103	83-125	
Bromofluorobenzene	105	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-106A-8D1	Batch#:	146322
Lab ID:	208575-006	Sampled:	12/09/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/22/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	V9
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	0.7	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-106A-8D1	Batch#:	146322
Lab ID:	208575-006	Sampled:	12/09/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/22/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	103	77-120	
1,2-Dichloroethane-d4	96	70-127	
Toluene-d8	97	83-125	
Bromofluorobenzene	99	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-123A-8D1	Batch#:	146322
Lab ID:	208575-007	Sampled:	12/09/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/22/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	V9
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-123A-8D1	Batch#:	146322
Lab ID:	208575-007	Sampled:	12/09/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/22/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	102	77-120	
1,2-Dichloroethane-d4	107	70-127	
Toluene-d8	102	83-125	
Bromofluorobenzene	99	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-109A-8D1	Batch#:	146322
Lab ID:	208575-008	Sampled:	12/09/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/22/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	V9
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-109A-8D1	Batch#:	146322
Lab ID:	208575-008	Sampled:	12/09/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/22/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	101	77-120	
1,2-Dichloroethane-d4	103	70-127	
Toluene-d8	98	83-125	
Bromofluorobenzene	101	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-110A-8D1	Batch#:	146322
Lab ID:	208575-009	Sampled:	12/09/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/22/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	V9
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-110A-8D1	Batch#:	146322
Lab ID:	208575-009	Sampled:	12/09/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/22/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	104	77-120	
1,2-Dichloroethane-d4	106	70-127	
Toluene-d8	103	83-125	
Bromofluorobenzene	102	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-101A-8D1	Batch#:	146322
Lab ID:	208575-010	Sampled:	12/09/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/22/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	V9
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	2.5	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-101A-8D1	Batch#:	146322
Lab ID:	208575-010	Sampled:	12/09/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/22/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	102	77-120	
1,2-Dichloroethane-d4	108	70-127	
Toluene-d8	103	83-125	
Bromofluorobenzene	101	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-124A-8D1	Batch#:	146322
Lab ID:	208575-011	Sampled:	12/09/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/22/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	V9
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	3.3	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-124A-8D1	Batch#:	146322
Lab ID:	208575-011	Sampled:	12/09/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/22/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	103	77-120	
1,2-Dichloroethane-d4	105	70-127	
Toluene-d8	102	83-125	
Bromofluorobenzene	102	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	PL-504-8D1	Batch#:	146372
Lab ID:	208575-012	Sampled:	12/09/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	0.9	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	PL-504-8D1	Batch#:	146372
Lab ID:	208575-012	Sampled:	12/09/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1 V1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	101	77-120	
1,2-Dichloroethane-d4	103	70-127	
Toluene-d8	105	83-125	
Bromofluorobenzene	97	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-122A-8D1	Batch#:	146372
Lab ID:	208575-013	Sampled:	12/09/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-122A-8D1	Batch#:	146372
Lab ID:	208575-013	Sampled:	12/09/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1 V1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	103	77-120	
1,2-Dichloroethane-d4	107	70-127	
Toluene-d8	101	83-125	
Bromofluorobenzene	105	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-98A-8D1	Batch#:	146372
Lab ID:	208575-014	Sampled:	12/09/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-98A-8D1	Batch#:	146372
Lab ID:	208575-014	Sampled:	12/09/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1 V1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	102	77-120	
1,2-Dichloroethane-d4	108	70-127	
Toluene-d8	100	83-125	
Bromofluorobenzene	101	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC476776	Batch#:	146322
Matrix:	Water	Analyzed:	12/22/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	V9
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC476776	Batch#:	146322
Matrix:	Water	Analyzed:	12/22/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	100	77-120	
1,2-Dichloroethane-d4	106	70-127	
Toluene-d8	101	83-125	
Bromofluorobenzene	98	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC476777	Batch#:	146322
Matrix:	Water	Analyzed:	12/22/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	V9
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC476777	Batch#:	146322
Matrix:	Water	Analyzed:	12/22/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	102	77-120	
1,2-Dichloroethane-d4	101	70-127	
Toluene-d8	103	83-125	
Bromofluorobenzene	96	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC476974	Batch#:	146372
Matrix:	Water	Analyzed:	12/23/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC476974	Batch#:	146372
Matrix:	Water	Analyzed:	12/23/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1 V1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	102	77-120	
1,2-Dichloroethane-d4	103	70-127	
Toluene-d8	102	83-125	
Bromofluorobenzene	101	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC476775	Batch#:	146322
Matrix:	Water	Analyzed:	12/22/08
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Freon 12	25.00	21.41	86	56-140	
Chloromethane	25.00	22.01	88	46-142	
Vinyl Chloride	25.00	27.72	111	49-136	
Bromomethane	25.00	18.88 b	76	42-154	V9
Chloroethane	25.00	25.21	101	51-133	
Trichlorofluoromethane	25.00	26.04	104	63-135	
Iodomethane	25.00	22.94 b	92	70-130	
Acetone	25.00	26.96	108	48-130	
1,1-Dichloroethene	25.00	26.39	106	68-133	
Methylene Chloride	25.00	26.63	107	71-120	
Carbon Disulfide	25.00	25.87	103	56-120	
MTBE	25.00	23.24	93	58-120	
trans-1,2-Dichloroethene	25.00	26.40	106	80-120	
Vinyl Acetate	25.00	20.31 b	81	63-124	
1,1-Dichloroethane	25.00	25.34	101	77-120	
2-Butanone	25.00	24.85	99	57-120	
cis-1,2-Dichloroethene	25.00	26.31	105	75-120	
2,2-Dichloropropane	25.00	29.22	117	72-128	
Chloroform	25.00	24.26	97	78-120	
Bromochloromethane	25.00	24.81	99	78-120	
1,1,1-Trichloroethane	25.00	27.38	110	78-120	
1,1-Dichloropropene	25.00	25.32	101	75-120	
Carbon Tetrachloride	25.00	26.49	106	80-120	
1,2-Dichloroethane	25.00	24.84	99	74-120	
Benzene	25.00	23.32	93	77-120	
Trichloroethene	25.00	24.61	98	78-122	
1,2-Dichloropropane	25.00	23.52	94	76-120	
Bromodichloromethane	25.00	25.11	100	78-120	
Dibromomethane	25.00	26.36	105	77-120	
4-Methyl-2-Pentanone	25.00	21.66	87	65-120	
cis-1,3-Dichloropropene	25.00	24.35	97	76-120	
Toluene	25.00	25.65	103	73-120	
trans-1,3-Dichloropropene	25.00	22.29	89	72-120	
1,1,2-Trichloroethane	25.00	25.41	102	76-120	
2-Hexanone	25.00	23.49	94	57-121	
1,3-Dichloropropane	25.00	25.38	102	75-120	
Tetrachloroethene	25.00	25.95	104	77-120	
Dibromochloromethane	25.00	23.93	96	76-120	

b= See narrative

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC476775	Batch#:	146322
Matrix:	Water	Analyzed:	12/22/08
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
1,2-Dibromoethane	25.00	25.37	101	77-120	
Chlorobenzene	25.00	23.98	96	78-120	
1,1,1,2-Tetrachloroethane	25.00	25.08	100	77-120	
Ethylbenzene	25.00	25.82	103	78-120	
m,p-Xylenes	50.00	52.87	106	77-120	
o-Xylene	25.00	25.65	103	77-120	
Styrene	25.00	25.58	102	77-120	
Bromoform	25.00	25.08	100	74-121	
Isopropylbenzene	25.00	23.31	93	71-120	
1,1,2,2-Tetrachloroethane	25.00	25.40	102	73-120	
1,2,3-Trichloropropane	25.00	25.07	100	72-120	
Propylbenzene	25.00	26.97	108	76-120	
Bromobenzene	25.00	25.29	101	75-120	
1,3,5-Trimethylbenzene	25.00	26.80	107	77-120	
2-Chlorotoluene	25.00	25.70	103	76-120	
4-Chlorotoluene	25.00	25.36	101	78-120	
tert-Butylbenzene	25.00	25.76	103	76-120	
1,2,4-Trimethylbenzene	25.00	27.47	110	77-120	
sec-Butylbenzene	25.00	29.50	118	80-120	
para-Isopropyl Toluene	25.00	27.25	109	76-120	
1,3-Dichlorobenzene	25.00	24.26	97	75-120	
1,4-Dichlorobenzene	25.00	24.18	97	77-120	
n-Butylbenzene	25.00	27.69	111	76-120	
1,2-Dichlorobenzene	25.00	25.71	103	76-120	
1,2-Dibromo-3-Chloropropane	25.00	24.26	97	65-120	
1,2,4-Trichlorobenzene	25.00	25.92	104	73-121	
Hexachlorobutadiene	25.00	30.00	120	73-123	
Naphthalene	25.00	24.21	97	62-121	
1,2,3-Trichlorobenzene	25.00	25.84	103	66-123	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	103	77-120	
1,2-Dichloroethane-d4	97	70-127	
Toluene-d8	102	83-125	
Bromofluorobenzene	94	78-120	

b= See narrative

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-127A-8D1	Batch#:	146322
MSS Lab ID:	208752-002	Sampled:	12/12/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/22/08
Diln Fac:	1.000		

Type: MS Lab ID: QC476797

Analyte	MSS Result	Spiked	Result	%REC	Limits	ADEQ Flags
Freon 12	<0.2000	25.00	31.41	126	56-140	
Chloromethane	<0.2000	25.00	27.02	108	46-142	
Vinyl Chloride	<0.1394	25.00	36.84	147 *	49-136	M1
Bromomethane	<0.2000	25.00	29.10 b	116	42-154	V9
Chloroethane	<0.2153	25.00	29.95	120	51-133	
Trichlorofluoromethane	<0.2000	25.00	31.82	127	63-135	
Iodomethane	<2.000	25.00	15.99 b	64	60-140	
Acetone	<1.000	25.00	18.01	72	48-130	
1,1-Dichloroethene	<0.1391	25.00	28.18	113	68-133	
Methylene Chloride	<1.000	25.00	27.26	109	71-120	
Carbon Disulfide	<0.1000	25.00	26.81	107	56-120	
MTBE	0.4598	25.00	23.20	91	58-120	
trans-1,2-Dichloroethene	<0.1082	25.00	27.88	112	80-120	
Vinyl Acetate	<2.000	25.00	19.90 b	80	63-124	
1,1-Dichloroethane	<0.1000	25.00	25.85	103	77-120	
2-Butanone	<2.000	25.00	21.98	88	57-120	
cis-1,2-Dichloroethene	<0.1267	25.00	27.91	112	75-120	
2,2-Dichloropropane	<0.1021	25.00	32.10	128	72-128	
Chloroform	<0.1048	25.00	25.64	103	78-120	
Bromochloromethane	<0.1195	25.00	25.85	103	78-120	
1,1,1-Trichloroethane	<0.1358	25.00	30.00	120	78-120	
1,1-Dichloropropene	<0.1367	25.00	29.02	116	75-120	
Carbon Tetrachloride	<0.1295	25.00	30.70	123 *	80-120	M1
1,2-Dichloroethane	<0.1080	25.00	26.42	106	74-120	
Benzene	<0.1000	25.00	26.55	106	77-120	
Trichloroethene	0.1842	25.00	27.64	110	78-122	
1,2-Dichloropropane	<0.1143	25.00	26.14	105	76-120	
Bromodichloromethane	<0.1539	25.00	27.52	110	78-120	
Dibromomethane	<0.1298	25.00	26.59	106	77-120	
4-Methyl-2-Pentanone	<2.000	25.00	21.44	86	65-120	
cis-1,3-Dichloropropene	<0.1420	25.00	25.30	101	76-120	
Toluene	<0.1116	25.00	28.21	113	73-120	
trans-1,3-Dichloropropene	<0.1000	25.00	23.27	93	72-120	
1,1,2-Trichloroethane	<0.1347	25.00	27.01	108	76-120	
2-Hexanone	<2.000	25.00	20.61	82	57-121	
1,3-Dichloropropane	<0.1000	25.00	23.82	95	75-120	
Tetrachloroethene	0.2546	25.00	27.67	110	77-120	
Dibromochloromethane	<0.1230	25.00	23.38	94	76-120	
1,2-Dibromoethane	<0.1000	25.00	26.47	106	77-120	
Chlorobenzene	<0.1000	25.00	24.21	97	78-120	
1,1,1,2-Tetrachloroethane	<0.1000	25.00	24.66	99	77-120	
Ethylbenzene	<0.1000	25.00	25.35	101	78-120	
m,p-Xylenes	<0.1581	50.00	54.04	108	77-120	
o-Xylene	<0.1000	25.00	26.44	106	77-120	
Styrene	<0.1000	25.00	25.12	100	77-120	
Bromoform	<0.2000	25.00	24.30	97	74-121	
Isopropylbenzene	<0.1000	25.00	24.48	98	71-120	
1,1,2,2-Tetrachloroethane	<0.1281	25.00	25.23	101	73-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-127A-8D1	Batch#:	146322
MSS Lab ID:	208752-002	Sampled:	12/12/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/22/08
Diln Fac:	1.000		

Analyte	MSS Result	Spiked	Result	%REC	Limits	ADEQ Flags
1,2,3-Trichloropropane	<0.1000	25.00	23.98	96	72-120	
Propylbenzene	<0.1000	25.00	27.06	108	76-120	
Bromobenzene	<0.1006	25.00	24.83	99	75-120	
1,3,5-Trimethylbenzene	<0.1000	25.00	27.80	111	77-120	
2-Chlorotoluene	<0.1000	25.00	26.21	105	76-120	
4-Chlorotoluene	<0.1000	25.00	24.92	100	78-120	
tert-Butylbenzene	<0.1000	25.00	27.24	109	76-120	
1,2,4-Trimethylbenzene	<0.1000	25.00	26.85	107	77-120	
sec-Butylbenzene	0.2501	25.00	28.70	114	80-120	
para-Isopropyl Toluene	<0.1256	25.00	26.91	108	76-120	
1,3-Dichlorobenzene	<0.1000	25.00	24.35	97	75-120	
1,4-Dichlorobenzene	<0.1000	25.00	24.67	99	77-120	
n-Butylbenzene	<0.1458	25.00	28.27	113	76-120	
1,2-Dichlorobenzene	<0.1000	25.00	25.64	103	76-120	
1,2-Dibromo-3-Chloropropane	<0.5389	25.00	22.29	89	65-120	
1,2,4-Trichlorobenzene	<0.1114	25.00	23.53	94	73-121	
Hexachlorobutadiene	<0.4000	25.00	28.14	113	73-123	
Naphthalene	<0.4000	25.00	23.67	95	62-121	
1,2,3-Trichlorobenzene	<0.1000	25.00	23.05	92	66-123	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	102	77-120	
1,2-Dichloroethane-d4	105	70-127	
Toluene-d8	102	83-125	
Bromofluorobenzene	97	78-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-127A-8D1	Batch#:	146322
MSS Lab ID:	208752-002	Sampled:	12/12/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/22/08
Diln Fac:	1.000		

Type: MSD Lab ID: QC476798

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
Freon 12	25.00	28.96	116	56-140	8	24	
Chloromethane	25.00	26.03	104	46-142	4	24	
Vinyl Chloride	25.00	33.57	134	49-136	9	24	
Bromomethane	25.00	29.89 b	120	42-154	3	24	V9
Chloroethane	25.00	27.24	109	51-133	9	25	
Trichlorofluoromethane	25.00	28.67	115	63-135	10	20	
Iodomethane	25.00	21.78 b	87	60-140	31 *	30	R5
Acetone	25.00	18.01	72	48-130	0	41	
1,1-Dichloroethene	25.00	27.82	111	68-133	1	20	
Methylene Chloride	25.00	25.48	102	71-120	7	20	
Carbon Disulfide	25.00	24.53	98	56-120	9	20	
MTBE	25.00	22.76	89	58-120	2	21	
trans-1,2-Dichloroethene	25.00	25.77	103	80-120	8	24	
Vinyl Acetate	25.00	22.09 b	88	63-124	10	24	
1,1-Dichloroethane	25.00	25.82	103	77-120	0	20	
2-Butanone	25.00	21.95	88	57-120	0	32	
cis-1,2-Dichloroethene	25.00	26.62	106	75-120	5	20	
2,2-Dichloropropane	25.00	29.70	119	72-128	8	24	
Chloroform	25.00	24.71	99	78-120	4	20	
Bromochloromethane	25.00	24.64	99	78-120	5	20	
1,1,1-Trichloroethane	25.00	28.22	113	78-120	6	20	
1,1-Dichloropropene	25.00	27.12	108	75-120	7	21	
Carbon Tetrachloride	25.00	28.20	113	80-120	8	21	
1,2-Dichloroethane	25.00	24.43	98	74-120	8	20	
Benzene	25.00	25.19	101	77-120	5	20	
Trichloroethene	25.00	25.54	101	78-122	8	20	
1,2-Dichloropropane	25.00	24.52	98	76-120	6	20	
Bromodichloromethane	25.00	25.75	103	78-120	7	20	
Dibromomethane	25.00	26.23	105	77-120	1	20	
4-Methyl-2-Pentanone	25.00	22.15	89	65-120	3	22	
cis-1,3-Dichloropropene	25.00	24.14	97	76-120	5	20	
Toluene	25.00	26.13	105	73-120	8	20	
trans-1,3-Dichloropropene	25.00	22.64	91	72-120	3	20	
1,1,2-Trichloroethane	25.00	25.82	103	76-120	5	20	
2-Hexanone	25.00	21.05	84	57-121	2	25	
1,3-Dichloropropane	25.00	24.40	98	75-120	2	20	
Tetrachloroethene	25.00	26.22	104	77-120	5	20	
Dibromochloromethane	25.00	23.70	95	76-120	1	20	
1,2-Dibromoethane	25.00	25.13	101	77-120	5	20	
Chlorobenzene	25.00	23.60	94	78-120	3	20	
1,1,1,2-Tetrachloroethane	25.00	23.96	96	77-120	3	20	
Ethylbenzene	25.00	25.83	103	78-120	2	26	
m,p-Xylenes	50.00	52.03	104	77-120	4	20	
o-Xylene	25.00	23.96	96	77-120	10	20	
Styrene	25.00	24.78	99	77-120	1	20	
Bromoform	25.00	24.67	99	74-121	1	21	
Isopropylbenzene	25.00	23.72	95	71-120	3	20	
1,1,2,2-Tetrachloroethane	25.00	25.55	102	73-120	1	20	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-127A-8D1	Batch#:	146322
MSS Lab ID:	208752-002	Sampled:	12/12/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/22/08
Diln Fac:	1.000		

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
1,2,3-Trichloropropane	25.00	24.93	100	72-120	4	20	
Propylbenzene	25.00	25.83	103	76-120	5	20	
Bromobenzene	25.00	23.83	95	75-120	4	20	
1,3,5-Trimethylbenzene	25.00	26.59	106	77-120	4	20	
2-Chlorotoluene	25.00	25.24	101	76-120	4	20	
4-Chlorotoluene	25.00	23.07	92	78-120	8	20	
tert-Butylbenzene	25.00	26.51	106	76-120	3	21	
1,2,4-Trimethylbenzene	25.00	26.81	107	77-120	0	20	
sec-Butylbenzene	25.00	28.12	111	80-120	2	21	
para-Isopropyl Toluene	25.00	26.39	106	76-120	2	20	
1,3-Dichlorobenzene	25.00	22.85	91	75-120	6	20	
1,4-Dichlorobenzene	25.00	23.23	93	77-120	6	23	
n-Butylbenzene	25.00	27.88	112	76-120	1	21	
1,2-Dichlorobenzene	25.00	24.62	98	76-120	4	20	
1,2-Dibromo-3-Chloropropane	25.00	21.20	85	65-120	5	22	
1,2,4-Trichlorobenzene	25.00	23.24	93	73-121	1	20	
Hexachlorobutadiene	25.00	26.51	106	73-123	6	25	
Naphthalene	25.00	23.91	96	62-121	1	32	
1,2,3-Trichlorobenzene	25.00	23.35	93	66-123	1	29	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	102	77-120	
1,2-Dichloroethane-d4	101	70-127	
Toluene-d8	102	83-125	
Bromofluorobenzene	99	78-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC476973	Batch#:	146372
Matrix:	Water	Analyzed:	12/23/08
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Freon 12	20.00	19.00	95	56-140	
Chloromethane	20.00	18.05	90	46-142	
Vinyl Chloride	20.00	21.93	110	49-136	
Bromomethane	20.00	16.26	81	42-154	
Chloroethane	20.00	21.66	108	51-133	
Trichlorofluoromethane	20.00	23.07	115	63-135	
Iodomethane	20.00	17.26 b	86	70-130	
Acetone	20.00	16.15	81	48-130	
1,1-Dichloroethene	20.00	21.30	106	68-133	
Methylene Chloride	20.00	20.65	103	71-120	
Carbon Disulfide	20.00	20.15	101	56-120	
MTBE	20.00	17.91	90	58-120	
trans-1,2-Dichloroethene	20.00	20.85	104	80-120	
Vinyl Acetate	20.00	15.84 b	79	63-124	V9
1,1-Dichloroethane	20.00	19.91	100	77-120	
2-Butanone	20.00	17.11	86	57-120	
cis-1,2-Dichloroethene	20.00	20.49	102	75-120	
2,2-Dichloropropane	20.00	22.54	113	72-128	
Chloroform	20.00	19.50	98	78-120	
Bromochloromethane	20.00	19.85	99	78-120	
1,1,1-Trichloroethane	20.00	21.90	109	78-120	
1,1-Dichloropropene	20.00	19.80	99	75-120	
Carbon Tetrachloride	20.00	20.74	104	80-120	
1,2-Dichloroethane	20.00	18.77	94	74-120	
Benzene	20.00	18.62	93	77-120	
Trichloroethene	20.00	19.62	98	78-122	
1,2-Dichloropropane	20.00	19.01	95	76-120	
Bromodichloromethane	20.00	19.18	96	78-120	
Dibromomethane	20.00	20.47	102	77-120	
4-Methyl-2-Pentanone	20.00	17.62	88	65-120	
cis-1,3-Dichloropropene	20.00	18.83	94	76-120	
Toluene	20.00	20.26	101	73-120	
trans-1,3-Dichloropropene	20.00	17.49	87	72-120	
1,1,2-Trichloroethane	20.00	20.22	101	76-120	
2-Hexanone	20.00	16.99	85	57-121	
1,3-Dichloropropane	20.00	19.42	97	75-120	
Tetrachloroethene	20.00	20.93	105	77-120	

*= Value outside of QC limits; see narrative
b= See narrative

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC476973	Batch#:	146372
Matrix:	Water	Analyzed:	12/23/08
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Dibromochloromethane	20.00	18.85	94	76-120	
1,2-Dibromoethane	20.00	20.30	101	77-120	
Chlorobenzene	20.00	19.50	97	78-120	
1,1,1,2-Tetrachloroethane	20.00	19.00	95	77-120	
Ethylbenzene	20.00	20.47	102	78-120	
m,p-Xylenes	40.00	41.99	105	77-120	
o-Xylene	20.00	20.02	100	77-120	
Styrene	20.00	20.05	100	77-120	
Bromoform	20.00	19.92	100	74-121	
Isopropylbenzene	20.00	18.36	92	71-120	
1,1,2,2-Tetrachloroethane	20.00	20.69	103	73-120	
1,2,3-Trichloropropane	20.00	19.65	98	72-120	
Propylbenzene	20.00	22.88	114	76-120	
Bromobenzene	20.00	21.18	106	75-120	
1,3,5-Trimethylbenzene	20.00	21.98	110	77-120	
2-Chlorotoluene	20.00	21.37	107	76-120	
4-Chlorotoluene	20.00	20.16	101	78-120	
tert-Butylbenzene	20.00	21.37	107	76-120	
1,2,4-Trimethylbenzene	20.00	21.42	107	77-120	
sec-Butylbenzene	20.00	22.84	114	80-120	
para-Isopropyl Toluene	20.00	22.22	111	76-120	
1,3-Dichlorobenzene	20.00	19.11	96	75-120	
1,4-Dichlorobenzene	20.00	19.06	95	77-120	
n-Butylbenzene	20.00	23.15	116	76-120	
1,2-Dichlorobenzene	20.00	20.29	101	76-120	
1,2-Dibromo-3-Chloropropane	20.00	18.49	92	65-120	
1,2,4-Trichlorobenzene	20.00	19.97	100	73-121	
Hexachlorobutadiene	20.00	25.85 b	129 *	73-123	L1 V3
Naphthalene	20.00	20.18	101	62-121	
1,2,3-Trichlorobenzene	20.00	20.65	103	66-123	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	102	77-120	
1,2-Dichloroethane-d4	94	70-127	
Toluene-d8	97	83-125	
Bromofluorobenzene	103	78-120	

*= Value outside of QC limits; see narrative
b= See narrative

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-125A-8D1	Batch#:	146372
MSS Lab ID:	208578-008	Sampled:	12/10/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Type: MS Lab ID: QC476988

Analyte	MSS Result	Spiked	Result	%REC	Limits	ADEQ Flags
Freon 12	<0.2000	20.00	17.40	87	56-140	
Chloromethane	<0.2000	20.00	17.99	90	46-142	
Vinyl Chloride	<0.1394	20.00	23.99	120	49-136	
Bromomethane	<0.2000	20.00	20.15	101	42-154	
Chloroethane	<0.2153	20.00	22.24	111	51-133	
Trichlorofluoromethane	<0.2000	20.00	22.98	115	63-135	
Iodomethane	<2.000	20.00	18.27 b	91	60-140	
Acetone	<1.000	20.00	15.62	78	48-130	
1,1-Dichloroethene	<0.1391	20.00	22.33	112	68-133	
Methylene Chloride	<1.000	20.00	22.39	112	71-120	
Carbon Disulfide	<0.1000	20.00	21.45	107	56-120	
MTBE	<0.1000	20.00	18.82	94	58-120	
trans-1,2-Dichloroethene	<0.1082	20.00	22.94	115	80-120	
Vinyl Acetate	<2.000	20.00	13.76 b	69	63-124	V9
1,1-Dichloroethane	<0.1000	20.00	22.17	111	77-120	
2-Butanone	<2.000	20.00	18.23	91	57-120	
cis-1,2-Dichloroethene	<0.1267	20.00	22.08	110	75-120	
2,2-Dichloropropane	<0.1021	20.00	22.59	113	72-128	
Chloroform	<0.1048	20.00	21.09	105	78-120	
Bromochloromethane	<0.1195	20.00	20.61	103	78-120	
1,1,1-Trichloroethane	<0.1358	20.00	24.04	120	78-120	
1,1-Dichloropropene	<0.1367	20.00	21.23	106	75-120	
Carbon Tetrachloride	<0.1295	20.00	23.78	119	80-120	
1,2-Dichloroethane	<0.1080	20.00	20.77	104	74-120	
Benzene	<0.1000	20.00	20.43	102	77-120	
Trichloroethene	<0.1252	20.00	20.71	104	78-122	
1,2-Dichloropropane	<0.1143	20.00	20.55	103	76-120	
Bromodichloromethane	<0.1539	20.00	21.02	105	78-120	
Dibromomethane	<0.1298	20.00	21.59	108	77-120	
4-Methyl-2-Pentanone	<2.000	20.00	17.28	86	65-120	
cis-1,3-Dichloropropene	<0.1420	20.00	19.54	98	76-120	
Toluene	<0.1116	20.00	20.99	105	73-120	
trans-1,3-Dichloropropene	<0.1000	20.00	16.96	85	72-120	
1,1,2-Trichloroethane	<0.1347	20.00	22.05	110	76-120	
2-Hexanone	<2.000	20.00	17.31	87	57-121	
1,3-Dichloropropane	<0.1000	20.00	20.33	102	75-120	
Tetrachloroethene	<0.1217	20.00	22.12	111	77-120	
Dibromochloromethane	<0.1230	20.00	20.09	100	76-120	
1,2-Dibromoethane	<0.1000	20.00	21.15	106	77-120	
Chlorobenzene	<0.1000	20.00	21.34	107	78-120	
1,1,1,2-Tetrachloroethane	<0.1000	20.00	20.93	105	77-120	
Ethylbenzene	<0.1000	20.00	22.20	111	78-120	
m,p-Xylenes	<0.1581	40.00	44.53	111	77-120	
o-Xylene	<0.1000	20.00	21.03	105	77-120	
Styrene	<0.1000	20.00	19.79	99	77-120	
Bromoform	<0.2000	20.00	20.25	101	74-121	
Isopropylbenzene	<0.1000	20.00	21.27	106	71-120	
1,1,2,2-Tetrachloroethane	<0.1281	20.00	21.69	108	73-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-125A-8D1	Batch#:	146372
MSS Lab ID:	208578-008	Sampled:	12/10/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Analyte	MSS Result	Spiked	Result	%REC	Limits	ADEQ Flags
1,2,3-Trichloropropane	<0.1000	20.00	21.53	108	72-120	
Propylbenzene	<0.1000	20.00	22.57	113	76-120	
Bromobenzene	<0.1006	20.00	20.86	104	75-120	
1,3,5-Trimethylbenzene	<0.1000	20.00	22.79	114	77-120	
2-Chlorotoluene	<0.1000	20.00	21.91	110	76-120	
4-Chlorotoluene	<0.1000	20.00	21.16	106	78-120	
tert-Butylbenzene	<0.1000	20.00	21.74	109	76-120	
1,2,4-Trimethylbenzene	<0.1000	20.00	24.04	120	77-120	
sec-Butylbenzene	<0.1000	20.00	25.01	125 *	80-120	M1
para-Isopropyl Toluene	<0.1256	20.00	20.95	105	76-120	
1,3-Dichlorobenzene	<0.1000	20.00	18.94	95	75-120	
1,4-Dichlorobenzene	<0.1000	20.00	19.69	98	77-120	
n-Butylbenzene	<0.1458	20.00	22.53	113	76-120	
1,2-Dichlorobenzene	<0.1000	20.00	21.07	105	76-120	
1,2-Dibromo-3-Chloropropane	<0.5389	20.00	18.64	93	65-120	
1,2,4-Trichlorobenzene	<0.1114	20.00	18.30	91	73-121	
Hexachlorobutadiene	<0.4000	20.00	21.44 b	107	73-123	V3
Naphthalene	<0.4000	20.00	18.72	94	62-121	
1,2,3-Trichlorobenzene	<0.1000	20.00	18.92	95	66-123	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	104	77-120	
1,2-Dichloroethane-d4	104	70-127	
Toluene-d8	104	83-125	
Bromofluorobenzene	102	78-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-125A-8D1	Batch#:	146372
MSS Lab ID:	208578-008	Sampled:	12/10/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Type: MSD Lab ID: QC476989

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
Freon 12	20.00	15.34	77	56-140	13	24	
Chloromethane	20.00	16.24	81	46-142	10	24	
Vinyl Chloride	20.00	21.85	109	49-136	9	24	
Bromomethane	20.00	21.59	108	42-154	7	24	
Chloroethane	20.00	19.04	95	51-133	16	25	
Trichlorofluoromethane	20.00	19.96	100	63-135	14	20	
Iodomethane	20.00	20.43 b	102	60-140	11	30	
Acetone	20.00	15.07	75	48-130	4	41	
1,1-Dichloroethene	20.00	22.12	111	68-133	1	20	
Methylene Chloride	20.00	20.82	104	71-120	7	20	
Carbon Disulfide	20.00	19.38	97	56-120	10	20	
MTBE	20.00	18.27	91	58-120	3	21	
trans-1,2-Dichloroethene	20.00	20.96	105	80-120	9	24	
Vinyl Acetate	20.00	14.86 b	74	63-124	8	24	V9
1,1-Dichloroethane	20.00	20.45	102	77-120	8	20	
2-Butanone	20.00	17.22	86	57-120	6	32	
cis-1,2-Dichloroethene	20.00	21.75	109	75-120	1	20	
2,2-Dichloropropane	20.00	20.57	103	72-128	9	24	
Chloroform	20.00	19.55	98	78-120	8	20	
Bromochloromethane	20.00	19.25	96	78-120	7	20	
1,1,1-Trichloroethane	20.00	22.40	112	78-120	7	20	
1,1-Dichloropropene	20.00	20.50	102	75-120	3	21	
Carbon Tetrachloride	20.00	22.32	112	80-120	6	21	
1,2-Dichloroethane	20.00	19.97	100	74-120	4	20	
Benzene	20.00	19.67	98	77-120	4	20	
Trichloroethene	20.00	19.62	98	78-122	5	20	
1,2-Dichloropropane	20.00	20.16	101	76-120	2	20	
Bromodichloromethane	20.00	20.93	105	78-120	0	20	
Dibromomethane	20.00	21.24	106	77-120	2	20	
4-Methyl-2-Pentanone	20.00	17.42	87	65-120	1	22	
cis-1,3-Dichloropropene	20.00	19.20	96	76-120	2	20	
Toluene	20.00	20.10	101	73-120	4	20	
trans-1,3-Dichloropropene	20.00	17.51	88	72-120	3	20	
1,1,2-Trichloroethane	20.00	21.05	105	76-120	5	20	
2-Hexanone	20.00	17.21	86	57-121	1	25	
1,3-Dichloropropane	20.00	19.91	100	75-120	2	20	
Tetrachloroethene	20.00	20.15	101	77-120	9	20	
Dibromochloromethane	20.00	18.58	93	76-120	8	20	
1,2-Dibromoethane	20.00	20.55	103	77-120	3	20	
Chlorobenzene	20.00	18.76	94	78-120	13	20	
1,1,1,2-Tetrachloroethane	20.00	18.81	94	77-120	11	20	
Ethylbenzene	20.00	19.87	99	78-120	11	26	
m,p-Xylenes	40.00	42.25	106	77-120	5	20	
o-Xylene	20.00	19.87	99	77-120	6	20	
Styrene	20.00	17.80	89	77-120	11	20	
Bromoform	20.00	19.44	97	74-121	4	21	
Isopropylbenzene	20.00	19.28	96	71-120	10	20	
1,1,2,2-Tetrachloroethane	20.00	20.39	102	73-120	6	20	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208575	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-125A-8D1	Batch#:	146372
MSS Lab ID:	208578-008	Sampled:	12/10/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
1,2,3-Trichloropropane	20.00	20.11	101	72-120	7	20	
Propylbenzene	20.00	22.42	112	76-120	1	20	
Bromobenzene	20.00	20.93	105	75-120	0	20	
1,3,5-Trimethylbenzene	20.00	22.97	115	77-120	1	20	
2-Chlorotoluene	20.00	21.87	109	76-120	0	20	
4-Chlorotoluene	20.00	20.33	102	78-120	4	20	
tert-Butylbenzene	20.00	21.30	107	76-120	2	21	
1,2,4-Trimethylbenzene	20.00	21.52	108	77-120	11	20	
sec-Butylbenzene	20.00	22.17	111	80-120	12	21	
para-Isopropyl Toluene	20.00	21.32	107	76-120	2	20	
1,3-Dichlorobenzene	20.00	19.21	96	75-120	1	20	
1,4-Dichlorobenzene	20.00	19.38	97	77-120	2	23	
n-Butylbenzene	20.00	21.78	109	76-120	3	21	
1,2-Dichlorobenzene	20.00	20.39	102	76-120	3	20	
1,2-Dibromo-3-Chloropropane	20.00	19.62	98	65-120	5	22	
1,2,4-Trichlorobenzene	20.00	18.06	90	73-121	1	20	
Hexachlorobutadiene	20.00	20.84 b	104	73-123	3	25	V3
Naphthalene	20.00	19.18	96	62-121	2	32	
1,2,3-Trichlorobenzene	20.00	19.12	96	66-123	1	29	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	101	77-120	
1,2-Dichloroethane-d4	99	70-127	
Toluene-d8	96	83-125	
Bromofluorobenzene	96	78-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

CURTIS & TOMPKINS BFB TUNE FOR 208575 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 458468482014 File : fkk14 Time : 20-NOV-2008 16:09

Standards: S9454

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	13627	15.43	
75	30% - 60% of mass 95	34213	38.75	
95		88293		
96	5% - 9% of mass 95	5645	6.39	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	77104	87.33	
175	5% - 9% of mass 174	5993	7.77	
176	> 95% and < 101% of mass 174	76701	99.48	
177	5% - 9% of mass 176	5145	6.71	

Analyst: BO Date: 11/21/08 Reviewer: ACM Date: 11/21/08

CURTIS & TOMPKINS BFB TUNE FOR 208575 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 458514527002 File : flm02 Time : 22-DEC-2008 07:58

Standards: S10902

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	58796	15.53	
75	30% - 60% of mass 95	140821	37.20	
95		378560		
96	5% - 9% of mass 95	23780	6.28	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	342826	90.56	
175	5% - 9% of mass 174	26328	7.68	
176	> 95% and < 101% of mass 174	333056	97.15	
177	5% - 9% of mass 176	22173	6.66	

Analyst: BO Date: 12/23/08 Reviewer: LW Date: 12/23/08

CURTIS & TOMPKINS BFB TUNE FOR 208575 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 458514527013 File : flm13 Time : 22-DEC-2008 14:16

Standards: S10902

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	28846	15.41	
75	30% - 60% of mass 95	69781	37.29	
95		187136		
96	5% - 9% of mass 95	12200	6.52	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	162026	86.58	
175	5% - 9% of mass 174	11054	6.82	
176	> 95% and < 101% of mass 174	162432	100.25	
177	5% - 9% of mass 176	10862	6.69	

Analyst: BO Date: 12/23/08 Reviewer: LW Date: 12/23/08

CURTIS & TOMPKINS BFB TUNE FOR 208575 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 458515995002 File : fln02 Time : 23-DEC-2008 08:26

Standards: S10902

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	32269	15.26	
75	30% - 60% of mass 95	80490	38.05	
95		211518		
96	5% - 9% of mass 95	15144	7.16	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	182656	86.35	
175	5% - 9% of mass 174	14574	7.98	
176	> 95% and < 101% of mass 174	175360	96.01	
177	5% - 9% of mass 176	12590	7.18	

Analyst: BO Date: 12/23/08 Reviewer: LW Date: 12/24/08

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 208575 MSVOA Water: EPA 8260B

Inst : MSVOA06 Name : 826GOX6W
Calnum : 458468482002 Date : 20-NOV-2008 18:54 Type : WATER
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	fkk19	458468482019	0.25PPB	20-NOV-2008 18:54	S10756 (2000000X), S10619 (2000000X), S10653 (1000000X), S9073 (2000000X), S10447 (1000X)
L2	fkk20	458468482020	0.5PPB	20-NOV-2008 19:28	S10756 (1000000X), S10619 (1000000X), S10653 (500000X), S9073 (1000000X), S10447 (1000X)
L3	fkk21	458468482021	2PPB	20-NOV-2008 20:02	S10756 (250000X), S10619 (250000X), S10653 (250000X), S9073 (500000X), S10447 (1000X)
L4	fkk22	458468482022	5PPB	20-NOV-2008 20:36	S10756 (100000X), S10619 (100000X), S10653 (100000X), S9073 (200000X), S10447 (1000X)
L5	fkk23	458468482023	10PPB	20-NOV-2008 21:11	S10756 (50000X), S10619 (50000X), S10653 (50000X), S9073 (100000X), S10447 (1000X)
L6	fkk24	458468482024	20PPB	20-NOV-2008 21:45	S10756 (25000X), S10619 (25000X), S10653 (25000X), S9073 (50000X), S10447 (1000X)
L7	fkk25	458468482025	50PPB	20-NOV-2008 22:19	S10756 (10000X), S10619 (10000X), S10653 (10000X), S9073 (20000X), S10447 (1000X)
L8	fkk26	458468482026	75PPB	20-NOV-2008 22:53	S10756 (6667X), S10619 (6667X), S10653 (6667X), S9073 (13330X), S10447 (1000X)
L9	fkk27	458468482027	100PPB	20-NOV-2008 23:28	S10756 (5000X), S10619 (5000X), S10653 (5000X), S9073 (10000X), S10447 (1000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12	0.6477m	0.5656m	0.8454m	0.5532	0.5981	0.5029	0.6945	0.8107		QUAD	0.07610	1.80204	-0.00946	0.6523	0.998	15	0.05	0.99	
Chloromethane		0.9120	1.0398m	0.8574m	0.9261	0.7973	0.8813	0.8769	0.9183	AVRG		1.10970		0.9011	8	15	0.10	0.99	
Vinyl Chloride	0.6186	0.5959m	0.7893m	0.5598m	0.6264	0.5569	0.6827	0.7578	0.7322	AVRG		1.52036		0.6577	13	15	0.05	0.99	
Bromomethane		0.1930m	0.2567m	0.2550m	0.3034	0.2679	0.3026	0.3182	0.3165	AVRG		3.61455		0.2767	15	15	0.05	0.99	
Chloroethane		0.2923	0.4104m	0.3212m	0.3726	0.3217	0.3698	0.3835	0.3545	AVRG		2.83075		0.3533	11	15	0.05	0.99	
Trichlorofluoromethane	0.8273	0.6040	0.8892	0.5834	0.6697	0.5610	0.7684	0.8422		QUAD	0.22995	1.57748	-0.00635	0.7181	0.998	15	0.05	0.99	
Acetone			0.3710	0.3072	0.3329	0.3066	0.3294	0.3094	0.3034	AVRG		3.09739		0.3229	8	15	0.05	0.99	
1,1-Dichloroethene		0.5390	0.5372	0.4875	0.5458	0.5394	0.5632	0.5255	0.5359	AVRG		1.87202		0.5342	4	15	0.05	0.99	
Iodomethane	0.2512m	0.2547	0.1985	0.2369	0.4263	0.5013	0.6536			QUAD	0.98411	2.12895	-0.01928	0.3604	0.998	15	0.05	0.99	
Methylene Chloride			0.7555	0.7020	0.7777	0.7282	0.7274	0.7409	0.6984	AVRG		1.36448		0.7329	4	15	0.05	0.99	
Carbon Disulfide		1.9732	2.0441	1.9382	2.1352	2.1460	2.1501	2.1023	2.0997	AVRG		0.48225		2.0736	4	15	0.05	0.99	
MTBE		1.8448	1.9060	1.8521	2.0989	1.9539	1.9188	1.8955	1.8013	AVRG		0.52386		1.9089	5	15	0.05	0.99	
trans-1,2-Dichloroethene		0.5724	0.6436	0.5699	0.6624	0.6271	0.6206	0.6152	0.6125	AVRG		1.62478		0.6155	5	15	0.05	0.99	
Vinyl Acetate			1.4646	1.3551	1.4651	1.4441	1.3282	1.1582	1.2586	AVRG		0.73887		1.3534	9	15	0.05	0.99	
1,1-Dichloroethane		1.1776	1.3258	1.1169	1.2878	1.2281	1.2081	1.1790	1.1551	AVRG		0.82659		1.2098	6	15	0.10	0.99	
2-Butanone			0.4453	0.3964	0.4502	0.4328	0.4482	0.3979	0.4069	AVRG		2.35082		0.4254	6	15	0.05	0.99	
2,2-Dichloropropane		0.6786	0.6640	0.6592	0.7122	0.6598	0.7015	0.6263	0.6552	AVRG		1.49344		0.6696	4	15	0.05	0.99	
cis-1,2-Dichloroethene		0.7223	0.7479	0.6878	0.7508	0.7135	0.7124	0.6781	0.6675	AVRG		1.40840		0.7100	4	15	0.05	0.99	
Chloroform		1.1011	1.1817	0.9979	1.1557	1.1104	1.1029	1.0849	1.0483	AVRG		0.91087		1.0978	5	15	0.05	0.99	
Bromochloromethane		0.4453	0.4569	0.4219	0.4393	0.4106	0.4205	0.4021	0.3778	AVRG		2.37086		0.4218	6	15	0.05	0.99	
1,1,1-Trichloroethane		0.6786	0.6238	0.6419	0.6958	0.6787	0.7016	0.6478	0.6849	AVRG		1.49443		0.6692	4	15	0.05	0.99	
1,1-Dichloropropene		0.4729	0.4341	0.4096	0.4634	0.4519	0.4448	0.4139	0.4414	AVRG		2.26500		0.4415	5	15	0.05	0.99	
Carbon Tetrachloride		0.3579	0.3097	0.3470	0.3746	0.3690	0.4029	0.3392	0.3707	AVRG		2.78631		0.3589	8	15	0.05	0.99	
1,2-Dichloroethane		0.4235	0.4701	0.4850	0.5038	0.4928	0.4932	0.4776	0.4512	AVRG		2.10680		0.4747	6	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		1.4164	1.5484	1.4447	1.5657	1.5800	1.5338	1.4807	1.4213	AVRG		0.66716		1.4989	4	15	0.05	0.99	
Trichloroethene		0.3697	0.3608	0.3472	0.3727	0.3785	0.3762	0.3664	0.3544	AVRG		2.73401		0.3658	3	15	0.05	0.99	
1,2-Dichloropropane		0.4435	0.4550	0.4382	0.4770	0.4693	0.4468	0.4365	0.3983	AVRG		2.24433		0.4456	5	15	0.05	0.99	
Bromodichloromethane		0.4415	0.4802	0.4840	0.5273	0.5310	0.5354	0.5045	0.4853	AVRG		2.00542		0.4986	6	15	0.05	0.99	
Dibromomethane		0.2300	0.2969	0.2910	0.3043	0.3130	0.3027	0.2996	0.2881	AVRG		3.44004		0.2907	9	15	0.05	0.99	
4-Methyl-2-Pentanone			0.4959	0.4811	0.5008	0.5289	0.5033	0.4753	0.4843	AVRG		2.01743		0.4957	4	15	0.05	0.99	
cis-1,3-Dichloropropene		0.6246	0.6565	0.6505	0.6813	0.6704	0.6664	0.6453	0.6113	AVRG		1.53661		0.6508	4	15	0.05	0.99	
Toluene		0.8146	0.8853	0.8122	0.9430	0.8216	0.8864	0.8331	0.7821	AVRG		1.18022		0.8473	6	15	0.05	0.99	
trans-1,3-Dichloropropene		0.5134	0.5798	0.5280	0.6186	0.5837	0.6048	0.5817	0.5529	AVRG		1.75321		0.5704	6	15	0.05	0.99	
1,1,2-Trichloroethane		0.1829	0.1999	0.2064	0.2296	0.2242	0.2147	0.2110	0.2022	AVRG		4.78775		0.2089	7	15	0.05	0.99	
2-Hexanone			0.4174	0.3862	0.4263	0.4429	0.4268	0.4108	0.3985	AVRG		2.40632		0.4156	5	15	0.05	0.99	
1,3-Dichloropropane		0.7309	0.7680	0.7370	0.8303	0.7496	0.7260	0.7478	0.7151	AVRG		1.33229		0.7506	5	15	0.05	0.99	
Tetrachloroethene		0.4671	0.3880	0.3940	0.4274	0.4027	0.4365	0.3896	0.4448	AVRG		2.38796		0.4188	7	15	0.05	0.99	
Dibromochloromethane		0.5128	0.5363	0.5575	0.6187	0.5950	0.5587	0.5842	0.5715	AVRG		1.76417		0.5668	6	15	0.05	0.99	
1,2-Dibromoethane		0.3918	0.4380	0.4352	0.4647	0.4605	0.4395	0.4345	0.4239	AVRG		2.29346		0.4360	5	15	0.05	0.99	
Chlorobenzene		1.2018	1.3036	1.2462	1.3654	1.2216	1.2035	1.1940	1.1691	AVRG		0.80766		1.2382	5	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.4243	0.4402	0.4451	0.4881	0.4392	0.4457	0.4558	0.4371	AVRG		2.23746		0.4469	4	15	0.05	0.99	
Ethylbenzene		1.8818	1.8141	1.7404	1.8654	1.7387	1.7386	1.6694	1.7063	AVRG		0.56518		1.7693	4	15	0.05	0.99	
m,p-Xylenes	0.6758	0.7117	0.7093	0.6555	0.7591	0.6902	0.6493	0.6463	0.6219	AVRG		1.47082		0.6799	6	15	0.05	0.99	
o-Xylene		0.7474	0.7130	0.7380	0.8050	0.7101	0.7081	0.6705	0.6743	AVRG		1.38732		0.7208	6	15	0.05	0.99	
Styrene		1.1668	1.2083	1.2783	1.3591	1.2751	1.2064	1.2359	1.1947	AVRG		0.80609		1.2406	5	15	0.05	0.99	
Bromoform		0.3384	0.4010	0.3872	0.4298	0.4176	0.4104	0.4216	0.4280	AVRG		2.47363		0.4043	7	15	0.10	0.99	
Isopropylbenzene		3.0309	3.1358	2.8764	3.1730	3.2802	3.1139	2.6768	3.0122	AVRG		0.32923		3.0374	6	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		1.2187	1.3367	1.2470	1.3233	1.3741	1.2816	1.1398	1.1738	AVRG		0.79248		1.2619	7	15	0.30	0.99	
1,2,3-Trichloropropane		0.9947	1.0412	0.9590	1.0409	1.0688	0.9486	0.8885	0.9096	AVRG		1.01894		0.9814	7	15	0.05	0.99	
Propylbenzene		3.6590	3.6765	3.6088	3.8859	3.6238	3.5999	2.9929	3.2114	AVRG		0.28310		3.5323	8	15	0.05	0.99	
Bromobenzene		1.0963	1.1176	1.1603	1.1995	1.1560	1.0828	1.0219	0.9894	AVRG		0.90664		1.1030	6	15	0.05	0.99	
1,3,5-Trimethylbenzene		2.7137	2.5669	2.3754	2.5792	2.5702	2.4624	2.0936	2.1615	AVRG		0.40977		2.4404	9	15	0.05	0.99	
2-Chlorotoluene		2.6839	2.7820	2.5064	2.7425	2.6461	2.4760	2.2110	2.1634	AVRG		0.39582		2.5264	9	15	0.05	0.99	
4-Chlorotoluene		2.5391	2.6318	2.3726	2.6948	2.5134	2.4123	2.2333	2.2632	AVRG		0.40691		2.4576	7	15	0.05	0.99	
tert-Butylbenzene		2.0682	2.1355	2.0728	2.3030	2.1681	2.1491	1.7917	2.0084	AVRG		0.47913		2.0871	7	15	0.05	0.99	
1,2,4-Trimethylbenzene		2.4841	2.6946	2.4595	2.8300	2.7523	2.4361	2.3412	2.3804	AVRG		0.39258		2.5473	7	15	0.05	0.99	
sec-Butylbenzene		2.6941	2.9373	2.8182	3.2195	3.0012	2.9793	2.5388	2.8537	AVRG		0.34719		2.8803	7	15	0.05	0.99	
para-Isopropyl Toluene		2.3222	2.4065	2.4900	2.8276	2.5056	2.4662	2.2356	2.4075	AVRG		0.40689		2.4577	7	15	0.05	0.99	
1,3-Dichlorobenzene		1.8624	1.9265	1.8008	2.0384	2.0149	1.7742	1.7265	1.7346	AVRG		0.53770		1.8598	7	15	0.05	0.99	
1,4-Dichlorobenzene		1.9640	1.9539	1.7998	2.0434	2.0272	1.8866	1.8327	1.7681	AVRG		0.52371		1.9095	5	15	0.05	0.99	
n-Butylbenzene		2.0336	2.0045	1.9628	2.3176	2.0874	2.1481	1.9081	2.0601	AVRG		0.48420		2.0653	6	15	0.05	0.99	
1,2-Dichlorobenzene		1.6521	1.8060	1.8047	1.9114	1.8783	1.7213	1.7061	1.6942	AVRG		0.56441		1.7718	5	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.2027	0.2132	0.1812	0.1817	0.2018	0.1917	0.1875	0.1815	AVRG		5.19028		0.1927	6	15	0.05	0.99	
1,2,4-Trichlorobenzene		0.9808	1.0314	0.9145	1.0720	0.9912	0.9648	0.9062	0.9141	AVRG		1.02892		0.9719	6	15	0.05	0.99	
Hexachlorobutadiene		0.3912	0.3325	0.3555	0.3981	0.3490	0.3611	0.2936	0.3587	AVRG		2.81722		0.3550	9	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene		2.4957	2.6121	2.5931	2.9375	3.0324	2.8585	2.8640	2.8128	AVRG		0.36026		2.7758	7	15	0.05	0.99	
1,2,3-Trichlorobenzene		0.9184	0.8977	0.8231	0.9863	1.0044	0.8833	0.8869	0.9203	AVRG		1.09283		0.9151	6	15	0.05	0.99	
Dibromofluoromethane	0.6058	0.6022	0.6119	0.6105	0.5974	0.6059	0.5972	0.5918	0.5932	AVRG		1.66175		0.6018	1	15	0.05	0.99	
1,2-Dichloroethane-d4	0.3077	0.3168	0.3283	0.3237	0.3184	0.3303	0.3215	0.3005	0.3060	AVRG		3.15437		0.3170	3	15	0.05	0.99	
Toluene-d8	1.0044	0.9486	1.0031	1.0163	0.9886	1.0385	0.9811	1.0217	1.0037	AVRG		0.99934		1.0007	3	15	0.05	0.99	
Bromofluorobenzene	1.0593	0.9793	1.0003	1.0272	1.0410	1.0415	0.9604	0.8944	0.9258	AVRG		1.00794		0.9921	6	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Freon 12	0.500	32	1.000	9	2.000	55	5.000	0	10.00	5	20.00	-14	50.00	2	75.00	0		
Chloromethane			1.000	1	2.000	15	5.000	-5	10.00	3	20.00	-12	50.00	-2	75.00	-3	100.0	2
Vinyl Chloride	0.500	-6	1.000	-9	2.000	20	5.000	-15	10.00	-5	20.00	-15	50.00	4	75.00	15	100.0	11
Bromomethane			1.000	-30	2.000	-7	5.000	-8	10.00	10	20.00	-3	50.00	9	75.00	15	100.0	14
Chloroethane			1.000	-17	2.000	16	5.000	-9	10.00	5	20.00	-9	50.00	5	75.00	9	100.0	0
Trichlorofluoromethane	0.500	76	1.000	18	2.000	51	5.000	-4	10.00	5	20.00	-14	50.00	3	75.00	-1		
Acetone					2.000	15	5.000	-5	10.00	3	20.00	-5	50.00	2	75.00	-4	100.0	-6
1,1-Dichloroethene			0.500	1	2.000	1	5.000	-9	10.00	2	20.00	1	50.00	5	75.00	-2	100.0	0
Iodomethane	0.250	347	0.500	151	2.000	-9	5.000	-30	10.00	-3	20.00	2	50.00	0				
Methylene Chloride					2.000	3	5.000	-4	10.00	6	20.00	-1	50.00	-1	75.00	1	100.0	-5
Carbon Disulfide			0.500	-5	2.000	-1	5.000	-7	10.00	3	20.00	3	50.00	4	75.00	1	100.0	1
MTBE			0.500	-3	2.000	0	5.000	-3	10.00	10	20.00	2	50.00	1	75.00	-1	100.0	-6
trans-1,2-Dichloroethene			0.500	-7	2.000	5	5.000	-7	10.00	8	20.00	2	50.00	1	75.00	0	100.0	0
Vinyl Acetate					2.000	8	5.000	0	10.00	8	20.00	7	50.00	-2	75.00	-14	100.0	-7
1,1-Dichloroethane			0.500	-3	2.000	10	5.000	-8	10.00	6	20.00	2	50.00	0	75.00	-3	100.0	-5
2-Butanone					2.000	5	5.000	-7	10.00	6	20.00	2	50.00	5	75.00	-6	100.0	-4
2,2-Dichloropropane			0.500	1	2.000	-1	5.000	-2	10.00	6	20.00	-1	50.00	5	75.00	-6	100.0	-2
cis-1,2-Dichloroethene			0.500	2	2.000	5	5.000	-3	10.00	6	20.00	0	50.00	0	75.00	-5	100.0	-6
Chloroform			0.500	0	2.000	8	5.000	-9	10.00	5	20.00	1	50.00	0	75.00	-1	100.0	-5
Bromochloromethane			0.500	6	2.000	8	5.000	0	10.00	4	20.00	-3	50.00	0	75.00	-5	100.0	-10
1,1,1-Trichloroethane			0.500	1	2.000	-7	5.000	-4	10.00	4	20.00	1	50.00	5	75.00	-3	100.0	2
1,1-Dichloropropene			0.500	7	2.000	-2	5.000	-7	10.00	5	20.00	2	50.00	1	75.00	-6	100.0	0
Carbon Tetrachloride			0.500	0	2.000	-14	5.000	-3	10.00	4	20.00	3	50.00	12	75.00	-5	100.0	3
1,2-Dichloroethane			0.500	-11	2.000	-1	5.000	2	10.00	6	20.00	4	50.00	4	75.00	1	100.0	-5
Benzene			0.500	-6	2.000	3	5.000	-4	10.00	4	20.00	5	50.00	2	75.00	-1	100.0	-5
Trichloroethene			0.500	1	2.000	-1	5.000	-5	10.00	2	20.00	3	50.00	3	75.00	0	100.0	-3
1,2-Dichloropropane			0.500	0	2.000	2	5.000	-2	10.00	7	20.00	5	50.00	0	75.00	-2	100.0	-11
Bromodichloromethane			0.500	-11	2.000	-4	5.000	-3	10.00	6	20.00	6	50.00	7	75.00	1	100.0	-3
Dibromomethane			0.500	-21	2.000	2	5.000	0	10.00	5	20.00	8	50.00	4	75.00	3	100.0	-1
4-Methyl-2-Pentanone					2.000	0	5.000	-3	10.00	1	20.00	7	50.00	2	75.00	-4	100.0	-2
cis-1,3-Dichloropropene			0.500	-4	2.000	1	5.000	0	10.00	5	20.00	3	50.00	2	75.00	-1	100.0	-6
Toluene			0.500	-4	2.000	4	5.000	-4	10.00	11	20.00	-3	50.00	5	75.00	-2	100.0	-8
trans-1,3-Dichloropropene			0.500	-10	2.000	2	5.000	-7	10.00	8	20.00	2	50.00	6	75.00	2	100.0	-3
1,1,2-Trichloroethane			0.500	-12	2.000	-4	5.000	-1	10.00	10	20.00	7	50.00	3	75.00	1	100.0	-3
2-Hexanone					2.000	0	5.000	-7	10.00	3	20.00	7	50.00	3	75.00	-1	100.0	-4
1,3-Dichloropropane			0.500	-3	2.000	2	5.000	-2	10.00	11	20.00	0	50.00	-3	75.00	0	100.0	-5
Tetrachloroethene			0.500	12	2.000	-7	5.000	-6	10.00	2	20.00	-4	50.00	4	75.00	-7	100.0	6
Dibromochloromethane			0.500	-10	2.000	-5	5.000	-2	10.00	9	20.00	5	50.00	-1	75.00	3	100.0	1
1,2-Dibromoethane			0.500	-10	2.000	0	5.000	0	10.00	7	20.00	6	50.00	1	75.00	0	100.0	-3
Chlorobenzene			0.500	-3	2.000	5	5.000	1	10.00	10	20.00	-1	50.00	-3	75.00	-4	100.0	-6
1,1,1,2-Tetrachloroethane			0.500	-5	2.000	-2	5.000	0	10.00	9	20.00	-2	50.00	0	75.00	2	100.0	-2
Ethylbenzene			0.500	6	2.000	3	5.000	-2	10.00	5	20.00	-2	50.00	-2	75.00	-6	100.0	-4

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
m,p-Xylenes	0.500	-1	1.000	5	4.000	4	10.00	-4	20.00	12	40.00	2	100.0	-4	150.0	-5	200.0	-9
o-Xylene			0.500	4	2.000	-1	5.000	2	10.00	12	20.00	-1	50.00	-2	75.00	-7	100.0	-6
Styrene			0.500	-6	2.000	-3	5.000	3	10.00	10	20.00	3	50.00	-3	75.00	0	100.0	-4
Bromoform			0.500	-16	2.000	-1	5.000	-4	10.00	6	20.00	3	50.00	2	75.00	4	100.0	6
Isopropylbenzene			0.500	0	2.000	3	5.000	-5	10.00	4	20.00	8	50.00	3	75.00	-12	100.0	-1
1,1,2,2-Tetrachloroethane			0.500	-3	2.000	6	5.000	-1	10.00	5	20.00	9	50.00	2	75.00	-10	100.0	-7
1,2,3-Trichloropropane			0.500	1	2.000	6	5.000	-2	10.00	6	20.00	9	50.00	-3	75.00	-9	100.0	-7
Propylbenzene			0.500	4	2.000	4	5.000	2	10.00	10	20.00	3	50.00	2	75.00	-15	100.0	-9
Bromobenzene			0.500	-1	2.000	1	5.000	5	10.00	9	20.00	5	50.00	-2	75.00	-7	100.0	-10
1,3,5-Trimethylbenzene			0.500	11	2.000	5	5.000	-3	10.00	6	20.00	5	50.00	1	75.00	-14	100.0	-11
2-Chlorotoluene			0.500	6	2.000	10	5.000	-1	10.00	9	20.00	5	50.00	-2	75.00	-12	100.0	-14
4-Chlorotoluene			0.500	3	2.000	7	5.000	-3	10.00	10	20.00	2	50.00	-2	75.00	-9	100.0	-8
tert-Butylbenzene			0.500	-1	2.000	2	5.000	-1	10.00	10	20.00	4	50.00	3	75.00	-14	100.0	-4
1,2,4-Trimethylbenzene			0.500	-2	2.000	6	5.000	-3	10.00	11	20.00	8	50.00	-4	75.00	-8	100.0	-7
sec-Butylbenzene			0.500	-6	2.000	2	5.000	-2	10.00	12	20.00	4	50.00	3	75.00	-12	100.0	-1
para-Isopropyl Toluene			0.500	-6	2.000	-2	5.000	1	10.00	15	20.00	2	50.00	0	75.00	-9	100.0	-2
1,3-Dichlorobenzene			0.500	0	2.000	4	5.000	-3	10.00	10	20.00	8	50.00	-5	75.00	-7	100.0	-7
1,4-Dichlorobenzene			0.500	3	2.000	2	5.000	-6	10.00	7	20.00	6	50.00	-1	75.00	-4	100.0	-7
n-Butylbenzene			0.500	-2	2.000	-3	5.000	-5	10.00	12	20.00	1	50.00	4	75.00	-8	100.0	0
1,2-Dichlorobenzene			0.500	-7	2.000	2	5.000	2	10.00	8	20.00	6	50.00	-3	75.00	-4	100.0	-4
1,2-Dibromo-3-Chloropropane			0.500	5	2.000	11	5.000	-6	10.00	-6	20.00	5	50.00	-1	75.00	-3	100.0	-6
1,2,4-Trichlorobenzene			0.500	1	2.000	6	5.000	-6	10.00	10	20.00	2	50.00	-1	75.00	-7	100.0	-6
Hexachlorobutadiene			0.500	10	2.000	-6	5.000	0	10.00	12	20.00	-2	50.00	2	75.00	-17	100.0	1
Naphthalene			0.500	-10	2.000	-6	5.000	-7	10.00	6	20.00	9	50.00	3	75.00	3	100.0	1
1,2,3-Trichlorobenzene			0.500	0	2.000	-2	5.000	-10	10.00	8	20.00	10	50.00	-3	75.00	-3	100.0	1
Dibromofluoromethane	50.00	1	50.00	0	50.00	2	50.00	1	50.00	-1	50.00	1	50.00	-1	50.00	-2	50.00	-1
1,2-Dichloroethane-d4	50.00	-3	50.00	0	50.00	4	50.00	2	50.00	0	50.00	4	50.00	1	50.00	-5	50.00	-3
Toluene-d8	50.00	0	50.00	-5	50.00	0	50.00	2	50.00	-1	50.00	4	50.00	-2	50.00	2	50.00	0
Bromofluorobenzene	50.00	7	50.00	-1	50.00	1	50.00	4	50.00	5	50.00	5	50.00	-3	50.00	-10	50.00	-7

BO 11/21/08 : Manual integrations were made due to fronting/tailing of peaks, except for Bromomethane which was integrated to raise the baseline due to noise

Analyst: BO Date: 11/21/08 Reviewer: ACM Date: 11/21/08

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; QUAD=Quadratic regression

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 208575 MSVOA Water
EPA 8260B

Inst : MSVOA06 Name : 826GOX6W
Calnum : 458468482002 Cal Date : 20-NOV-2008 Type : WATER

ICV 458468482028 (fkk28 21-NOV-2008) stds: S10631 (10000X), S10447 (1000X)
ICV 458468482029 (fkk29 21-NOV-2008) stds: S10654 (10000X), S10798 (10000X), S10788 (10000X), S10447 (1000X)

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	458468482028	0.6523	0.6183	25.00	25.67	ug/L	3	25	
Chloromethane	458468482028	0.9011	0.7419	25.00	20.58	ug/L	-18	25	
Vinyl Chloride	458468482028	0.6577	0.7466	25.00	28.38	ug/L	14	25	
Bromomethane	458468482028	0.2767	0.2219	25.00	20.05	ug/L	-20	25	
Chloroethane	458468482028	0.3533	0.3134	25.00	22.18	ug/L	-11	25	
Trichlorofluoromethane	458468482028	0.7181	0.7269	25.00	26.80	ug/L	7	25	
Acetone	458468482029	0.3229	0.2969	25.00	22.99	ug/L	-8	25	
1,1-Dichloroethene	458468482029	0.5342	0.5779	25.00	27.05	ug/L	8	25	
Iodomethane	458468482029	0.3604	0.2156	25.00	11.90	ug/L	**-52**	25	v- ***
Methylene Chloride	458468482029	0.7329	0.7315	25.00	24.95	ug/L	0	25	
Carbon Disulfide	458468482029	2.0736	2.0503	25.00	24.72	ug/L	-1	25	
MTBE	458468482029	1.9089	1.6999	25.00	22.26	ug/L	-11	25	
trans-1,2-Dichloroethene	458468482029	0.6155	0.6477	25.00	26.31	ug/L	5	25	
Vinyl Acetate	458468482029	1.3534	0.9237	25.00	17.06	ug/L	**-32**	25	v- ***
1,1-Dichloroethane	458468482029	1.2098	1.1919	25.00	24.63	ug/L	-1	25	
2-Butanone	458468482029	0.4254	0.3758	25.00	22.09	ug/L	-12	25	
2,2-Dichloropropane	458468482029	0.6696	0.6737	25.00	25.15	ug/L	1	25	
cis-1,2-Dichloroethene	458468482029	0.7100	0.7126	25.00	25.09	ug/L	0	25	
Chloroform	458468482029	1.0978	1.0713	25.00	24.40	ug/L	-2	25	
Bromochloromethane	458468482029	0.4218	0.3950	25.00	23.41	ug/L	-6	25	
1,1,1-Trichloroethane	458468482029	0.6692	0.7239	25.00	27.04	ug/L	8	25	
1,1-Dichloropropene	458468482029	0.4415	0.4956	25.00	28.06	ug/L	12	25	
Carbon Tetrachloride	458468482029	0.3589	0.4153	25.00	28.93	ug/L	16	25	
1,2-Dichloroethane	458468482029	0.4747	0.4647	25.00	24.47	ug/L	-2	25	
Benzene	458468482029	1.4989	1.5405	25.00	25.69	ug/L	3	25	
Trichloroethene	458468482029	0.3658	0.3974	25.00	27.16	ug/L	9	25	
1,2-Dichloropropane	458468482029	0.4456	0.4417	25.00	24.78	ug/L	-1	25	
Bromodichloromethane	458468482029	0.4986	0.5145	25.00	25.79	ug/L	3	25	
Dibromomethane	458468482029	0.2907	0.2992	25.00	25.73	ug/L	3	25	
4-Methyl-2-Pentanone	458468482029	0.4957	0.4561	25.00	23.01	ug/L	-8	25	
cis-1,3-Dichloropropene	458468482029	0.6508	0.6214	25.00	23.87	ug/L	-5	25	
Toluene	458468482029	0.8473	0.9101	25.00	26.85	ug/L	7	25	
trans-1,3-Dichloropropene	458468482029	0.5704	0.5250	25.00	23.01	ug/L	-8	25	
1,1,2-Trichloroethane	458468482029	0.2089	0.2147	25.00	25.70	ug/L	3	25	
2-Hexanone	458468482029	0.4156	0.3925	25.00	23.61	ug/L	-6	25	
1,3-Dichloropropane	458468482029	0.7506	0.7684	25.00	25.59	ug/L	2	25	
Tetrachloroethene	458468482029	0.4188	0.4715	25.00	28.15	ug/L	13	25	
Dibromochloromethane	458468482029	0.5668	0.5681	25.00	25.06	ug/L	0	25	
1,2-Dibromoethane	458468482029	0.4360	0.4362	25.00	25.01	ug/L	0	25	
Chlorobenzene	458468482029	1.2382	1.2117	25.00	24.47	ug/L	-2	25	
1,1,1,2-Tetrachloroethane	458468482029	0.4469	0.4543	25.00	25.41	ug/L	2	25	
Ethylbenzene	458468482029	1.7693	1.8355	25.00	25.94	ug/L	4	25	
m,p-Xylenes	458468482029	0.6799	0.7220	50.00	53.10	ug/L	6	25	
o-Xylene	458468482029	0.7208	0.7255	25.00	25.16	ug/L	1	25	
Styrene	458468482029	1.2406	1.2565	25.00	25.32	ug/L	1	25	
Bromoform	458468482029	0.4043	0.4197	25.00	25.96	ug/L	4	25	
Isopropylbenzene	458468482029	3.0374	2.8809	25.00	23.71	ug/L	-5	25	

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	458468482029	1.2619	1.1922	25.00	23.62	ug/L	-6	25	
1,2,3-Trichloropropane	458468482029	0.9814	0.9500	25.00	24.20	ug/L	-3	25	
Propylbenzene	458468482029	3.5323	3.8946	25.00	27.56	ug/L	10	25	
Bromobenzene	458468482029	1.1030	1.1645	25.00	26.39	ug/L	6	25	
1,3,5-Trimethylbenzene	458468482029	2.4404	2.5856	25.00	26.49	ug/L	6	25	
2-Chlorotoluene	458468482029	2.5264	2.6010	25.00	25.74	ug/L	3	25	
4-Chlorotoluene	458468482029	2.4576	2.4107	25.00	24.52	ug/L	-2	25	
tert-Butylbenzene	458468482029	2.0871	2.3029	25.00	27.59	ug/L	10	25	
1,2,4-Trimethylbenzene	458468482029	2.5473	2.7542	25.00	27.03	ug/L	8	25	
sec-Butylbenzene	458468482029	2.8803	3.2369	25.00	28.10	ug/L	12	25	
para-Isopropyl Toluene	458468482029	2.4577	2.5805	25.00	26.25	ug/L	5	25	
1,3-Dichlorobenzene	458468482029	1.8598	1.8497	25.00	24.86	ug/L	-1	25	
1,4-Dichlorobenzene	458468482029	1.9095	1.8322	25.00	23.99	ug/L	-4	25	
n-Butylbenzene	458468482029	2.0653	2.3800	25.00	28.81	ug/L	15	25	
1,2-Dichlorobenzene	458468482029	1.7718	1.7633	25.00	24.88	ug/L	0	25	
1,2-Dibromo-3-Chloropropane	458468482029	0.1927	0.1836	25.00	23.82	ug/L	-5	25	
1,2,4-Trichlorobenzene	458468482029	0.9719	0.9695	25.00	24.94	ug/L	0	25	
Hexachlorobutadiene	458468482029	0.3550	0.4023	25.00	28.33	ug/L	13	25	
Naphthalene	458468482029	2.7758	2.9697	25.00	26.75	ug/L	7	25	
1,2,3-Trichlorobenzene	458468482029	0.9151	0.9388	25.00	25.65	ug/L	3	25	

-=low bias v=ICV

CURTIS & TOMPKINS SPIKE USER REPORT FOR 208575 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : QC476775 IDF : 1.0
Seqnum : 458514527003.2 File : flm03 Time : 22-DEC-2008 08:15
Cal : 458468482002 Caldate : 20-NOV-2008 Caltype : WATER
Standards: S10935 (10000X), S10844 (10000X), S10798 (10000X), S10985 (10000X), S10715 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.6523	0.5075	25.00	21.41	ug/L	-14	20	0.0500	u
Chloromethane	0.9011	0.7935	25.00	22.01	ug/L	-12	20	0.1000	u
Vinyl Chloride	0.6577	0.7293	25.00	27.72	ug/L	11	20	0.0500	u
Bromomethane	0.2767	0.2089	25.00	18.88	ug/L	**-24**	20	0.0500	c- u ***
Chloroethane	0.3533	0.3562	25.00	25.21	ug/L	1	20	0.0500	u
Trichlorofluoromethane	0.7181	0.7044	25.00	26.04	ug/L	4	20	0.0500	u
Iodomethane	0.3604	0.4605	25.00	22.94	ug/L	-8	20	0.0500	u v- ***
Acetone	0.3229	0.3482	25.00	26.96	ug/L	8	20	0.0500	u
1,1-Dichloroethene	0.5342	0.5638	25.00	26.39	ug/L	6	20	0.0500	u
Methylene Chloride	0.7329	0.7808	25.00	26.63	ug/L	7	20	0.0500	u
Carbon Disulfide	2.0736	2.1457	25.00	25.87	ug/L	3	20	0.0500	u
MTBE	1.9089	1.7742	25.00	23.24	ug/L	-7	20	0.0500	u
trans-1,2-Dichloroethene	0.6155	0.6499	25.00	26.40	ug/L	6	20	0.0500	u
Vinyl Acetate	1.3534	1.0996	25.00	20.31	ug/L	-19	20	0.0500	u v- ***
1,1-Dichloroethane	1.2098	1.2262	25.00	25.34	ug/L	1	20	0.1000	u
2-Butanone	0.4254	0.4229	25.00	24.85	ug/L	-1	20	0.0500	u
cis-1,2-Dichloroethene	0.7100	0.7472	25.00	26.31	ug/L	5	20	0.0500	u
2,2-Dichloropropane	0.6696	0.7827	25.00	29.22	ug/L	17	20	0.0500	u
Chloroform	1.0978	1.0654	25.00	24.26	ug/L	-3	20	0.0500	u
Bromochloromethane	0.4218	0.4185	25.00	24.81	ug/L	-1	20	0.0500	u
1,1,1-Trichloroethane	0.6692	0.7329	25.00	27.38	ug/L	10	20	0.0500	u
1,1-Dichloropropene	0.4415	0.4471	25.00	25.32	ug/L	1	20	0.0500	u
Carbon Tetrachloride	0.3589	0.3803	25.00	26.49	ug/L	6	20	0.0500	u
1,2-Dichloroethane	0.4747	0.4716	25.00	24.84	ug/L	-1	20	0.0500	u
Benzene	1.4989	1.3979	25.00	23.32	ug/L	-7	20	0.0500	u
Trichloroethene	0.3658	0.3600	25.00	24.61	ug/L	-2	20	0.0500	u
1,2-Dichloropropane	0.4456	0.4192	25.00	23.52	ug/L	-6	20	0.0500	u
Bromodichloromethane	0.4986	0.5007	25.00	25.11	ug/L	0	20	0.0500	u
Dibromomethane	0.2907	0.3065	25.00	26.36	ug/L	5	20	0.0500	u
4-Methyl-2-Pentanone	0.4957	0.4294	25.00	21.66	ug/L	-13	20	0.0500	u
cis-1,3-Dichloropropene	0.6508	0.6338	25.00	24.35	ug/L	-3	20	0.0500	u
Toluene	0.8473	0.8693	25.00	25.65	ug/L	3	20	0.0500	u
trans-1,3-Dichloropropene	0.5704	0.5085	25.00	22.29	ug/L	-11	20	0.0500	u
1,1,2-Trichloroethane	0.2089	0.2123	25.00	25.41	ug/L	2	20	0.0500	u
2-Hexanone	0.4156	0.3905	25.00	23.49	ug/L	-6	20	0.0500	u
1,3-Dichloropropane	0.7506	0.7618	25.00	25.38	ug/L	2	20	0.0500	u
Tetrachloroethene	0.4188	0.4346	25.00	25.95	ug/L	4	20	0.0500	u
Dibromochloromethane	0.5668	0.5427	25.00	23.93	ug/L	-4	20	0.0500	u
1,2-Dibromoethane	0.4360	0.4424	25.00	25.37	ug/L	1	20	0.0500	u
Chlorobenzene	1.2382	1.1878	25.00	23.98	ug/L	-4	20	0.3000	u
1,1,1,2-Tetrachloroethane	0.4469	0.4484	25.00	25.08	ug/L	0	20	0.0500	u
Ethylbenzene	1.7693	1.8275	25.00	25.82	ug/L	3	20	0.0500	u
m,p-Xylenes	0.6799	0.7190	50.00	52.87	ug/L	6	20	0.0500	u
o-Xylene	0.7208	0.7394	25.00	25.65	ug/L	3	20	0.0500	u
Styrene	1.2406	1.2692	25.00	25.58	ug/L	2	20	0.0500	u
Bromoform	0.4043	0.4056	25.00	25.08	ug/L	0	20	0.1000	u
Isopropylbenzene	3.0374	2.8320	25.00	23.31	ug/L	-7	20	0.0500	u

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	1.2619	1.2818	25.00	25.40	ug/L	2	20	0.3000	u
1,2,3-Trichloropropane	0.9814	0.9840	25.00	25.07	ug/L	0	20	0.0500	u
Propylbenzene	3.5323	3.8108	25.00	26.97	ug/L	8	20	0.0500	u
Bromobenzene	1.1030	1.1157	25.00	25.29	ug/L	1	20	0.0500	u
1,3,5-Trimethylbenzene	2.4404	2.6164	25.00	26.80	ug/L	7	20	0.0500	u
2-Chlorotoluene	2.5264	2.5972	25.00	25.70	ug/L	3	20	0.0500	u
4-Chlorotoluene	2.4576	2.4931	25.00	25.36	ug/L	1	20	0.0500	u
tert-Butylbenzene	2.0871	2.1506	25.00	25.76	ug/L	3	20	0.0500	u
1,2,4-Trimethylbenzene	2.5473	2.7994	25.00	27.47	ug/L	10	20	0.0500	u
sec-Butylbenzene	2.8803	3.3988	25.00	29.50	ug/L	18	20	0.0500	u
para-Isopropyl Toluene	2.4577	2.6787	25.00	27.25	ug/L	9	20	0.0500	u
1,3-Dichlorobenzene	1.8598	1.8051	25.00	24.26	ug/L	-3	20	0.0500	u
1,4-Dichlorobenzene	1.9095	1.8470	25.00	24.18	ug/L	-3	20	0.0500	u
n-Butylbenzene	2.0653	2.2876	25.00	27.69	ug/L	11	20	0.0500	u
1,2-Dichlorobenzene	1.7718	1.8221	25.00	25.71	ug/L	3	20	0.0500	u
1,2-Dibromo-3-Chloropropane	0.1927	0.1869	25.00	24.26	ug/L	-3	20	0.0500	u
1,2,4-Trichlorobenzene	0.9719	1.0078	25.00	25.92	ug/L	4	20	0.0500	u
Hexachlorobutadiene	0.3550	0.4259	25.00	30.00	ug/L	20	20	0.0500	u
Naphthalene	2.7758	2.6876	25.00	24.21	ug/L	-3	20	0.0500	u
1,2,3-Trichlorobenzene	0.9151	0.9459	25.00	25.84	ug/L	3	20	0.0500	u
Dibromofluoromethane	0.6018	0.6201	50.00	51.52	ug/L	3	20	0.0500	u
1,2-Dichloroethane-d4	0.3170	0.3082	50.00	48.61	ug/L	-3	20	0.0500	u
Toluene-d8	1.0007	1.0182	50.00	50.88	ug/L	2	20	0.0500	u
Bromofluorobenzene	0.9921	0.9284	50.00	46.79	ug/L	-6	20	0.0500	u

ISTD (ICAL fkk25)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	811980	904692	11.42	12.82	12.84	0.02
1,4-Difluorobenzene	1320025	1569749	18.92	14.16	14.19	0.03
Chlorobenzene-d5	1182141	1312793	11.05	18.69	18.70	0.02
1,4-Dichlorobenzene-d4	596162	664952	11.54	21.48	21.50	0.02

Analyst: BO Date: 12/24/08 Reviewer: ACM Date: 12/29/08

-=low bias c=CCV u=use v=ICV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208575 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : 25PPB IDF : 1.0
Seqnum : 458514527014.1 File : flm14 Time : 22-DEC-2008 14:35
Cal : 458468482002 Caldate : 20-NOV-2008 Caltype : WATER
Standards: S10715 (1000X), S10935 (10000X), S10844 (10000X), S10798 (10000X), S10985 (10000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.6523	0.3288	25.00	14.25	ug/L	**-43**	20	0.0500	c- ***
Chloromethane	0.9011	0.6799	25.00	18.86	ug/L	**-25**	20	0.1000	c- ***
Vinyl Chloride	0.6577	0.6136	25.00	23.32	ug/L	-7	20	0.0500	
Bromomethane	0.2767	0.3029	25.00	27.37	ug/L	9	20	0.0500	
Chloroethane	0.3533	0.3446	25.00	24.39	ug/L	-2	20	0.0500	
Trichlorofluoromethane	0.7181	0.6878	25.00	25.48	ug/L	2	20	0.0500	
Acetone	0.3229	0.2846	25.00	22.04	ug/L	-12	20	0.0500	
1,1-Dichloroethene	0.5342	0.5408	25.00	25.31	ug/L	1	20	0.0500	
Iodomethane	0.3604	0.5138	25.00	25.15	ug/L	1	20	0.0500	
Methylene Chloride	0.7329	0.7412	25.00	25.28	ug/L	1	20	0.0500	
Carbon Disulfide	2.0736	1.9619	25.00	23.65	ug/L	-5	20	0.0500	
MTBE	1.9089	1.6277	25.00	21.32	ug/L	-15	20	0.0500	
trans-1,2-Dichloroethene	0.6155	0.5952	25.00	24.18	ug/L	-3	20	0.0500	
Vinyl Acetate	1.3534	1.0292	25.00	19.01	ug/L	**-24**	20	0.0500	c- ***
1,1-Dichloroethane	1.2098	1.1524	25.00	23.81	ug/L	-5	20	0.1000	
2-Butanone	0.4254	0.4115	25.00	24.19	ug/L	-3	20	0.0500	
2,2-Dichloropropane	0.6696	0.7042	25.00	26.29	ug/L	5	20	0.0500	
cis-1,2-Dichloroethene	0.7100	0.7205	25.00	25.37	ug/L	1	20	0.0500	
Chloroform	1.0978	1.0229	25.00	23.29	ug/L	-7	20	0.0500	
Bromochloromethane	0.4218	0.4049	25.00	24.00	ug/L	-4	20	0.0500	
1,1,1-Trichloroethane	0.6692	0.6741	25.00	25.19	ug/L	1	20	0.0500	
1,1-Dichloropropene	0.4415	0.4508	25.00	25.53	ug/L	2	20	0.0500	
Carbon Tetrachloride	0.3589	0.3711	25.00	25.85	ug/L	3	20	0.0500	
1,2-Dichloroethane	0.4747	0.4542	25.00	23.92	ug/L	-4	20	0.0500	
Benzene	1.4989	1.4467	25.00	24.13	ug/L	-3	20	0.0500	
Trichloroethene	0.3658	0.3625	25.00	24.77	ug/L	-1	20	0.0500	
1,2-Dichloropropane	0.4456	0.4369	25.00	24.51	ug/L	-2	20	0.0500	
Bromodichloromethane	0.4986	0.4892	25.00	24.53	ug/L	-2	20	0.0500	
Dibromomethane	0.2907	0.2953	25.00	25.40	ug/L	2	20	0.0500	
4-Methyl-2-Pentanone	0.4957	0.4384	25.00	22.11	ug/L	-12	20	0.0500	
cis-1,3-Dichloropropene	0.6508	0.6293	25.00	24.17	ug/L	-3	20	0.0500	
Toluene	0.8473	0.8937	25.00	26.37	ug/L	5	20	0.0500	
trans-1,3-Dichloropropene	0.5704	0.5211	25.00	22.84	ug/L	-9	20	0.0500	
1,1,2-Trichloroethane	0.2089	0.2189	25.00	26.20	ug/L	5	20	0.0500	
2-Hexanone	0.4156	0.3882	25.00	23.35	ug/L	-7	20	0.0500	
1,3-Dichloropropane	0.7506	0.7588	25.00	25.27	ug/L	1	20	0.0500	
Tetrachloroethene	0.4188	0.4054	25.00	24.20	ug/L	-3	20	0.0500	
Dibromochloromethane	0.5668	0.5632	25.00	24.84	ug/L	-1	20	0.0500	
1,2-Dibromoethane	0.4360	0.4385	25.00	25.14	ug/L	1	20	0.0500	
Chlorobenzene	1.2382	1.1964	25.00	24.16	ug/L	-3	20	0.3000	
1,1,1,2-Tetrachloroethane	0.4469	0.4550	25.00	25.45	ug/L	2	20	0.0500	
Ethylbenzene	1.7693	1.7886	25.00	25.27	ug/L	1	20	0.0500	
m,p-Xylenes	0.6799	0.7492	50.00	55.10	ug/L	10	20	0.0500	
o-Xylene	0.7208	0.7718	25.00	26.77	ug/L	7	20	0.0500	
Styrene	1.2406	1.3039	25.00	26.28	ug/L	5	20	0.0500	
Bromoform	0.4043	0.3993	25.00	24.70	ug/L	-1	20	0.1000	
Isopropylbenzene	3.0374	2.7524	25.00	22.65	ug/L	-9	20	0.0500	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	1.2619	1.2672	25.00	25.10	ug/L	0	20	0.3000	
1,2,3-Trichloropropane	0.9814	0.9703	25.00	24.72	ug/L	-1	20	0.0500	
Propylbenzene	3.5323	3.6434	25.00	25.79	ug/L	3	20	0.0500	
Bromobenzene	1.1030	1.1138	25.00	25.25	ug/L	1	20	0.0500	
1,3,5-Trimethylbenzene	2.4404	2.5628	25.00	26.25	ug/L	5	20	0.0500	
2-Chlorotoluene	2.5264	2.5628	25.00	25.36	ug/L	1	20	0.0500	
4-Chlorotoluene	2.4576	2.4642	25.00	25.07	ug/L	0	20	0.0500	
tert-Butylbenzene	2.0871	2.1519	25.00	25.78	ug/L	3	20	0.0500	
1,2,4-Trimethylbenzene	2.5473	2.9228	25.00	28.69	ug/L	15	20	0.0500	
sec-Butylbenzene	2.8803	3.1871	25.00	27.66	ug/L	11	20	0.0500	
para-Isopropyl Toluene	2.4577	2.5577	25.00	26.02	ug/L	4	20	0.0500	
1,3-Dichlorobenzene	1.8598	1.7778	25.00	23.90	ug/L	-4	20	0.0500	
1,4-Dichlorobenzene	1.9095	1.8524	25.00	24.25	ug/L	-3	20	0.0500	
n-Butylbenzene	2.0653	2.3781	25.00	28.79	ug/L	15	20	0.0500	
1,2-Dichlorobenzene	1.7718	1.7787	25.00	25.10	ug/L	0	20	0.0500	
1,2-Dibromo-3-Chloropropane	0.1927	0.1830	25.00	23.75	ug/L	-5	20	0.0500	
1,2,4-Trichlorobenzene	0.9719	1.0267	25.00	26.41	ug/L	6	20	0.0500	
Hexachlorobutadiene	0.3550	0.4170	25.00	29.37	ug/L	17	20	0.0500	
Naphthalene	2.7758	2.7560	25.00	24.82	ug/L	-1	20	0.0500	
1,2,3-Trichlorobenzene	0.9151	0.9525	25.00	26.02	ug/L	4	20	0.0500	
Dibromofluoromethane	0.6018	0.5965	50.00	49.56	ug/L	-1	20	0.0500	
1,2-Dichloroethane-d4	0.3170	0.3121	50.00	49.22	ug/L	-2	20	0.0500	
Toluene-d8	1.0007	1.0511	50.00	52.52	ug/L	5	20	0.0500	
Bromofluorobenzene	0.9921	1.0289	50.00	51.85	ug/L	4	20	0.0500	

ISTD (ICAL fkk25)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	811980	1056975	30.17	12.82	12.84	0.02
1,4-Difluorobenzene	1320025	1710400	29.57	14.16	14.18	0.02
Chlorobenzene-d5	1182141	1415619	19.75	18.69	18.70	0.02
1,4-Dichlorobenzene-d4	596162	710792	19.23	21.48	21.50	0.02

Analyst: BO Date: 12/24/08 Reviewer: ACM Date: 12/29/08

-=low bias c=CCV

CURTIS & TOMPKINS SPIKE USER REPORT FOR 208575 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : QC476973 IDF : 1.0
Seqnum : 458515995003.3 File : fln03 Time : 23-DEC-2008 08:43
Cal : 458468482002 Caldate : 20-NOV-2008 Caltype : WATER
Standards: S10935 (12500X), S10844 (12500X), S10798 (12500X), S10985 (12500X), S10715 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.6523	0.5577	20.00	19.00	ug/L	-5	20	0.0500	u
Chloromethane	0.9011	0.8131	20.00	18.05	ug/L	-10	20	0.1000	u
Vinyl Chloride	0.6577	0.7212	20.00	21.93	ug/L	10	20	0.0500	u
Bromomethane	0.2767	0.2249	20.00	16.26	ug/L	-19	20	0.0500	u
Chloroethane	0.3533	0.3825	20.00	21.66	ug/L	8	20	0.0500	u
Trichlorofluoromethane	0.7181	0.7719	20.00	23.07	ug/L	15	20	0.0500	u
Iodomethane	0.3604	0.4131	20.00	17.26	ug/L	-14	20	0.0500	u v- ***
Acetone	0.3229	0.2607	20.00	16.15	ug/L	-19	20	0.0500	u
1,1-Dichloroethene	0.5342	0.5688	20.00	21.30	ug/L	6	20	0.0500	u
Methylene Chloride	0.7329	0.7566	20.00	20.65	ug/L	3	20	0.0500	u
Carbon Disulfide	2.0736	2.0891	20.00	20.15	ug/L	1	20	0.0500	u
MTBE	1.9089	1.7092	20.00	17.91	ug/L	-10	20	0.0500	u
trans-1,2-Dichloroethene	0.6155	0.6417	20.00	20.85	ug/L	4	20	0.0500	u
Vinyl Acetate	1.3534	1.0722	20.00	15.84	ug/L	**-21**	20	0.0500	c- u v- ***
1,1-Dichloroethane	1.2098	1.2041	20.00	19.91	ug/L	0	20	0.1000	u
2-Butanone	0.4254	0.3640	20.00	17.11	ug/L	-14	20	0.0500	u
cis-1,2-Dichloroethene	0.7100	0.7273	20.00	20.49	ug/L	2	20	0.0500	u
2,2-Dichloropropane	0.6696	0.7547	20.00	22.54	ug/L	13	20	0.0500	u
Chloroform	1.0978	1.0705	20.00	19.50	ug/L	-2	20	0.0500	u
Bromochloromethane	0.4218	0.4187	20.00	19.85	ug/L	-1	20	0.0500	u
1,1,1-Trichloroethane	0.6692	0.7327	20.00	21.90	ug/L	9	20	0.0500	u
1,1-Dichloropropene	0.4415	0.4371	20.00	19.80	ug/L	-1	20	0.0500	u
Carbon Tetrachloride	0.3589	0.3722	20.00	20.74	ug/L	4	20	0.0500	u
1,2-Dichloroethane	0.4747	0.4454	20.00	18.77	ug/L	-6	20	0.0500	u
Benzene	1.4989	1.3956	20.00	18.62	ug/L	-7	20	0.0500	u
Trichloroethene	0.3658	0.3589	20.00	19.62	ug/L	-2	20	0.0500	u
1,2-Dichloropropane	0.4456	0.4235	20.00	19.01	ug/L	-5	20	0.0500	u
Bromodichloromethane	0.4986	0.4782	20.00	19.18	ug/L	-4	20	0.0500	u
Dibromomethane	0.2907	0.2975	20.00	20.47	ug/L	2	20	0.0500	u
4-Methyl-2-Pentanone	0.4957	0.4366	20.00	17.62	ug/L	-12	20	0.0500	u
cis-1,3-Dichloropropene	0.6508	0.6127	20.00	18.83	ug/L	-6	20	0.0500	u
Toluene	0.8473	0.8583	20.00	20.26	ug/L	1	20	0.0500	u
trans-1,3-Dichloropropene	0.5704	0.4989	20.00	17.49	ug/L	-13	20	0.0500	u
1,1,2-Trichloroethane	0.2089	0.2112	20.00	20.22	ug/L	1	20	0.0500	u
2-Hexanone	0.4156	0.3531	20.00	16.99	ug/L	-15	20	0.0500	u
1,3-Dichloropropane	0.7506	0.7289	20.00	19.42	ug/L	-3	20	0.0500	u
Tetrachloroethene	0.4188	0.4383	20.00	20.93	ug/L	5	20	0.0500	u
Dibromochloromethane	0.5668	0.5342	20.00	18.85	ug/L	-6	20	0.0500	u
1,2-Dibromoethane	0.4360	0.4425	20.00	20.30	ug/L	1	20	0.0500	u
Chlorobenzene	1.2382	1.2071	20.00	19.50	ug/L	-3	20	0.3000	u
1,1,1,2-Tetrachloroethane	0.4469	0.4245	20.00	19.00	ug/L	-5	20	0.0500	u
Ethylbenzene	1.7693	1.8109	20.00	20.47	ug/L	2	20	0.0500	u
m,p-Xylenes	0.6799	0.7136	40.00	41.99	ug/L	5	20	0.0500	u
o-Xylene	0.7208	0.7215	20.00	20.02	ug/L	0	20	0.0500	u
Styrene	1.2406	1.2439	20.00	20.05	ug/L	0	20	0.0500	u
Bromoform	0.4043	0.4026	20.00	19.92	ug/L	0	20	0.1000	u
Isopropylbenzene	3.0374	2.7881	20.00	18.36	ug/L	-8	20	0.0500	u

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	1.2619	1.3055	20.00	20.69	ug/L	3	20	0.3000	u
1,2,3-Trichloropropane	0.9814	0.9644	20.00	19.65	ug/L	-2	20	0.0500	u
Propylbenzene	3.5323	4.0416	20.00	22.88	ug/L	14	20	0.0500	u
Bromobenzene	1.1030	1.1679	20.00	21.18	ug/L	6	20	0.0500	u
1,3,5-Trimethylbenzene	2.4404	2.6822	20.00	21.98	ug/L	10	20	0.0500	u
2-Chlorotoluene	2.5264	2.6989	20.00	21.37	ug/L	7	20	0.0500	u
4-Chlorotoluene	2.4576	2.4774	20.00	20.16	ug/L	1	20	0.0500	u
tert-Butylbenzene	2.0871	2.2301	20.00	21.37	ug/L	7	20	0.0500	u
1,2,4-Trimethylbenzene	2.5473	2.7281	20.00	21.42	ug/L	7	20	0.0500	u
sec-Butylbenzene	2.8803	3.2895	20.00	22.84	ug/L	14	20	0.0500	u
para-Isopropyl Toluene	2.4577	2.7303	20.00	22.22	ug/L	11	20	0.0500	u
1,3-Dichlorobenzene	1.8598	1.7767	20.00	19.11	ug/L	-4	20	0.0500	u
1,4-Dichlorobenzene	1.9095	1.8193	20.00	19.06	ug/L	-5	20	0.0500	u
n-Butylbenzene	2.0653	2.3901	20.00	23.15	ug/L	16	20	0.0500	u
1,2-Dichlorobenzene	1.7718	1.7978	20.00	20.29	ug/L	1	20	0.0500	u
1,2-Dibromo-3-Chloropropane	0.1927	0.1782	20.00	18.49	ug/L	-8	20	0.0500	u
1,2,4-Trichlorobenzene	0.9719	0.9703	20.00	19.97	ug/L	0	20	0.0500	u
Hexachlorobutadiene	0.3550	0.4588	20.00	25.85	ug/L	**29**	20	0.0500	c+ u ***
Naphthalene	2.7758	2.8005	20.00	20.18	ug/L	1	20	0.0500	u
1,2,3-Trichlorobenzene	0.9151	0.9446	20.00	20.65	ug/L	3	20	0.0500	u
Dibromofluoromethane	0.6018	0.6146	50.00	51.06	ug/L	2	20	0.0500	u
1,2-Dichloroethane-d4	0.3170	0.2995	50.00	47.24	ug/L	-6	20	0.0500	u
Toluene-d8	1.0007	0.9670	50.00	48.32	ug/L	-3	20	0.0500	u
Bromofluorobenzene	0.9921	1.0266	50.00	51.74	ug/L	3	20	0.0500	u

ISTD (ICAL fkk25)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	811980	989880	21.91	12.82	12.84	0.02
1,4-Difluorobenzene	1320025	1725240	30.70	14.16	14.18	0.02
Chlorobenzene-d5	1182141	1416224	19.80	18.69	18.70	0.02
1,4-Dichlorobenzene-d4	596162	695274	16.63	21.48	21.49	0.01

BO 12/23/08 : QC# batch# fixed in LIMS [general version]

Analyst: BO Date: 12/24/08 Reviewer: ACM Date: 12/29/08

+=high bias -=low bias c=CCV u=use v=ICV

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 458514527

Date : 12/22/08 Reference : fkk25
Sequence : MSVOA06 flm Analyzed : 11/20/08 22:19

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	811980	12.82	1320025	14.16	1182141	18.69	596162	21.48
		LOWER LIMIT	405990	12.32	660013	13.66	591071	18.19	298081	20.98
		UPPER LIMIT	1623960	13.32	2640050	14.66	2364282	19.19	1192324	21.98
003	CCV/LCS	QC476775	904692	12.84	1569749	14.19	1312793	18.70	664952	21.50
005	BLANK	QC476776	923227	12.84	1541739	14.18	1288757	18.70	641649	21.49
006	SAMPLE	208752-001	944945	12.84	1588073	14.19	1332857	18.70	660547	21.49
007	MSS	208752-002	925807	12.84	1617096	14.18	1371862	18.70	649808	21.49
008	MS	QC476797	917769	12.84	1528109	14.19	1365937	18.70	688768	21.50
009	MSD	QC476798	946517	12.84	1591538	14.18	1378908	18.70	707620	21.49
014	CCV	25PPB	1056975	12.84	1710400	14.18	1415619	18.70	710792	21.50
016	BLANK	QC476777	978907	12.84	1658475	14.18	1386193	18.70	713009	21.50
017	SAMPLE	208450-001	1007667	12.84	1689572	14.18	1395452	18.70	689821	21.49
018	SAMPLE	208575-001	955962	12.84	1641923	14.18	1432395	18.71	684716	21.49
019	SAMPLE	208575-002	964330	12.84	1577317	14.18	1413202	18.70	679455	21.49
020	SAMPLE	208575-003	962576	12.85	1640433	14.19	1369750	18.70	685354	21.50
021	SAMPLE	208575-004	951640	12.84	1585108	14.18	1326177	18.71	684507	21.49
022	SAMPLE	208575-005	936228	12.85	1604688	14.19	1401098	18.70	637178	21.50
023	SAMPLE	208575-006	938456	12.84	1683349	14.18	1388343	18.70	692935	21.49
024	SAMPLE	208575-007	920268	12.84	1586888	14.18	1360715	18.70	681766	21.49
025	SAMPLE	208575-008	961650	12.84	1639983	14.18	1315005	18.70	655134	21.49
026	SAMPLE	208575-009	920185	12.84	1561647	14.18	1334319	18.70	655883	21.49
027	SAMPLE	208575-010	921444	12.84	1533483	14.18	1358514	18.70	660416	21.49
028	SAMPLE	208575-011	880382	12.83	1496028	14.18	1215963	18.70	622331	21.49
029	SAMPLE	208752-003	913648	12.84	1540965	14.18	1267026	18.70	646482	21.49
030	SAMPLE	208752-004	877256	12.84	1518219	14.18	1261983	18.70	634204	21.49
031	SAMPLE	208752-005	947217	12.84	1625501	14.18	1368528	18.70	674918	21.50
032	SAMPLE	208752-007	1005049	12.84	1659909	14.18	1367677	18.70	704508	21.50
033	SAMPLE	208752-006	975825	12.83	1599041	14.18	1364254	18.70	683020	21.49
034	SAMPLE	208752-008	955045	12.84	1634856	14.18	1366206	18.70	687227	21.49
038	SAMPLE	208663-001	939817	12.84	1640238	14.18	1340213	18.70	674248	21.50
039	SAMPLE	208663-002	934235	12.84	1629674	14.18	1376064	18.70	653872	21.49
040	SAMPLE	208663-003	930516	12.84	1585088	14.18	1308924	18.70	631484	21.49

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 458515995

Date : 12/23/08 Reference : fkk25
Sequence : MSVOA06 fln Analyzed : 11/20/08 22:19

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	811980	12.82	1320025	14.16	1182141	18.69	596162	21.48
		LOWER LIMIT	405990	12.32	660013	13.66	591071	18.19	298081	20.98
		UPPER LIMIT	1623960	13.32	2640050	14.66	2364282	19.19	1192324	21.98
003	CCV/LCS	QC476973	989880	12.84	1725240	14.18	1416224	18.70	695274	21.49
005	BLANK	QC476974	986554	12.84	1650374	14.18	1413562	18.70	691849	21.49
006	SAMPLE	208575-012	933323	12.84	1567806	14.18	1383385	18.69	667214	21.49
007	SAMPLE	208575-013	915137	12.84	1610450	14.18	1369383	18.70	664410	21.49
008	SAMPLE	208575-014	976346	12.84	1572909	14.18	1353628	18.70	662183	21.49
009	SAMPLE	208578-001	942932	12.84	1666873	14.18	1362428	18.70	661212	21.49
010	SAMPLE	208578-002	993940	12.84	1686022	14.18	1362564	18.70	665260	21.49
011	SAMPLE	208578-003	952404	12.84	1601384	14.18	1366133	18.70	658064	21.49
012	SAMPLE	208578-004	919858	12.84	1625875	14.19	1334766	18.70	663427	21.50
013	MSS	208578-008	951136	12.85	1568329	14.19	1375407	18.70	654977	21.50
014	SAMPLE	208599-010	941382	12.85	1626115	14.19	1345044	18.70	640865	21.50
015	SAMPLE	208599-025	930384	12.85	1556668	14.19	1291661	18.70	661758	21.50
016	SAMPLE	208752-004	899086	12.84	1542969	14.18	1288225	18.70	663213	21.50
017	SAMPLE	208752-005	940243	12.84	1576550	14.18	1352249	18.71	675904	21.49
018	SAMPLE	208752-006	978665	12.84	1674057	14.18	1388617	18.70	664647	21.49
019	SAMPLE	208752-008	927053	12.85	1608983	14.18	1399467	18.70	664884	21.50
020	MS	QC476988	928011	12.85	1629524	14.19	1347756	18.70	693865	21.50
021	MSD	QC476989	977331	12.84	1660039	14.18	1413207	18.71	693721	21.49

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 458468482

Instrument : MSVOA06 Begun : 11/20/08 08:02
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	fkk01	X	IB			11/20/08 08:02	1.0	1	
002	fkk02	X	BFB			11/20/08 08:57	1.0	2	
003	fkk03	X	20PPB			11/20/08 09:14	1.0	3 4 5 6 1	
004	fkk04	X	BFB			11/20/08 10:48	1.0	2	
005	fkk05	X	20PPB			11/20/08 11:04	1.0	3 4 5 6 1	
006	fkk06	X	BFB			11/20/08 11:44	1.0	2	
007	fkk07	X	BFB			11/20/08 11:56	1.0	2	
008	fkk08	X	20PPB			11/20/08 12:13	1.0	3 4 5 6 1	
009	fkk09	X	BFB			11/20/08 13:19	1.0	2	
010	fkk10	X	20PPB			11/20/08 13:36	1.0	3 4 5 6 1	
011	fkk11	X	IB			11/20/08 14:29	1.0	1	
012	fkk12	X	IB			11/20/08 15:03	1.0	1	
013	fkk13	X	LOW PT			11/20/08 15:37	1.0	1	
014	fkk14	TUN	BFB			11/20/08 16:09	1.0	2	
015	fkk15	X	IB			11/20/08 16:38	1.0	1	
016	fkk16	X	IB			11/20/08 17:12	1.0	1	
017	fkk17	X	IB			11/20/08 17:46	1.0	1	
018	fkk18	IB	CALIB			11/20/08 18:20	1.0	1	
019	fkk19	ICAL	0.25PPB			11/20/08 18:54	1.0	3 4 7 6 1	
020	fkk20	ICAL	0.5PPB			11/20/08 19:28	1.0	3 4 7 6 1	
021	fkk21	ICAL	2PPB			11/20/08 20:02	1.0	3 4 7 6 1	
022	fkk22	ICAL	5PPB			11/20/08 20:36	1.0	3 4 7 6 1	
023	fkk23	ICAL	10PPB			11/20/08 21:11	1.0	3 4 7 6 1	
024	fkk24	ICAL	20PPB			11/20/08 21:45	1.0	3 4 7 6 1	
025	fkk25	ICAL	50PPB			11/20/08 22:19	1.0	3 4 7 6 1	
026	fkk26	ICAL	75PPB			11/20/08 22:53	1.0	3 4 7 6 1	
027	fkk27	ICAL	100PPB			11/20/08 23:28	1.0	3 4 7 6 1	
028	fkk28	ICV	ICVGAS25PPB			11/21/08 00:02	1.0	8 1	
029	fkk29	ICV	ICV25PPB			11/21/08 00:36	1.0	9 10 11 1	
030	fkk30	X	IB			11/21/08 01:10	1.0	1	
031	fkk31	X	IB			11/21/08 01:45	1.0	1	
032	fkk32	X	IB			11/21/08 02:19	1.0	1	

BO 11/21/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 32.

BO 11/21/08 : fkk14, maximum sensitivity autotune

Analyst: BO Date: 11/21/08 Reviewer: ACM Date: 11/21/08

Standards used: 1=S10447 2=S9454 3=S10756 4=S10619 5=S10355 6=S9073 7=S10653 8=S10631 9=S10654 10=S10798 11=S10788

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CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 458514527

Instrument : MSVOA06 Begun : 12/22/08 07:27
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	flm01	X	IB			12/22/08 07:27	1.0	1	
002	flm02	TUN	BFB			12/22/08 07:58	1.0	2	
003	flm03	CCV/LCS	QC476775	Water	146322	12/22/08 08:15	1.0	3 4 5 6 1	
004	flm04	X	IB			12/22/08 09:02	1.0	1	
005	flm05	BLANK	QC476776	Water	146322	12/22/08 09:36	1.0	1	
006	flm06	SAMPLE	208752-001	Water	146322	12/22/08 10:10	1.0	1	
007	flm07	MSS	208752-002	Water	146322	12/22/08 10:44	1.0	1	
008	flm08	MS	QC476797	Water	146322	12/22/08 11:18	1.0	1 3 4 5 6	
009	flm09	MSD	QC476798	Water	146322	12/22/08 11:52	1.0	1 3 4 5 6	
010	flm10	X	IB			12/22/08 12:26	1.0	1	
011	flm11	X	BFB			12/22/08 13:16	1.0	2	
012	flm12	X	25PPB			12/22/08 13:33	1.0	1 3 4 5 6	
013	flm13	TUN	BFB			12/22/08 14:16	1.0	2	
014	flm14	CCV	25PPB			12/22/08 14:35	1.0	1 3 4 5 6	
015	flm15	X	IB			12/22/08 15:09	1.0	1	
016	flm16	BLANK	QC476777	Water	146322	12/22/08 15:43	1.0	1	
017	flm17	SAMPLE	208450-001	Water	146322	12/22/08 16:17	1.0	1	pH > 2
018	flm18	SAMPLE	208575-001	Water	146322	12/22/08 16:51	1.0	1	
019	flm19	SAMPLE	208575-002	Water	146322	12/22/08 17:26	1.0	1	
020	flm20	SAMPLE	208575-003	Water	146322	12/22/08 18:00	1.0	1	
021	flm21	SAMPLE	208575-004	Water	146322	12/22/08 18:34	1.0	1	
022	flm22	SAMPLE	208575-005	Water	146322	12/22/08 19:08	1.0	1	
023	flm23	SAMPLE	208575-006	Water	146322	12/22/08 19:42	1.0	1	
024	flm24	SAMPLE	208575-007	Water	146322	12/22/08 20:17	1.0	1	
025	flm25	SAMPLE	208575-008	Water	146322	12/22/08 20:51	1.0	1	
026	flm26	SAMPLE	208575-009	Water	146322	12/22/08 21:26	1.0	1	
027	flm27	SAMPLE	208575-010	Water	146322	12/22/08 22:00	1.0	1	
028	flm28	SAMPLE	208575-011	Water	146322	12/22/08 22:34	1.0	1	
029	flm29	SAMPLE	208752-003	Water	146322	12/22/08 23:09	1.0	1	
030	flm30	SAMPLE	208752-004	Water	146322	12/22/08 23:43	1.0	1	1:BZ=150
031	flm31	SAMPLE	208752-005	Water	146322	12/23/08 00:18	1.0	1	1:BZ=160
032	flm32	SAMPLE	208752-007	Water	146322	12/23/08 00:53	1.0	1	
033	flm33	SAMPLE	208752-006	Water	146322	12/23/08 01:27	3.333	1	1:BZ=180
034	flm34	SAMPLE	208752-008	Water	146322	12/23/08 02:02	10.0	1	1:BZ=190
035	flm35	X	IB			12/23/08 02:36	1.0	1	
036	flm36	X	IB			12/23/08 03:10	1.0	1	
037	flm37	X	IB			12/23/08 03:45	1.0	1	
038	flm38	SAMPLE	208663-001	Water	146354	12/23/08 04:20	1.0	1	
039	flm39	SAMPLE	208663-002	Water	146354	12/23/08 04:54	1.0	1	
040	flm40	SAMPLE	208663-003	Water	146354	12/23/08 05:29	1.0	1	

BO 12/23/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 40.

Analyst: BO Date: 12/23/08 Reviewer: LW Date: 12/23/08

Standards used: 1=S10715 2=S10902 3=S10935 4=S10844 5=S10798 6=S10985

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CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 458515995

Instrument : MSVOA06 Begun : 12/23/08 07:55
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	fln01	X	IB			12/23/08 07:55	1.0	1	
002	fln02	TUN	BFB			12/23/08 08:26	1.0	2	
003	fln03	CCV/LCS	QC476973	Water	146372	12/23/08 08:43	1.0	3 4 5 6 1	
004	fln04	X	IB			12/23/08 09:29	1.0	1	
005	fln05	BLANK	QC476974	Water	146372	12/23/08 10:03	1.0	1	
006	fln06	SAMPLE	208575-012	Water	146372	12/23/08 10:37	1.0	1	
007	fln07	SAMPLE	208575-013	Water	146372	12/23/08 11:12	1.0	1	
008	fln08	SAMPLE	208575-014	Water	146372	12/23/08 11:46	1.0	1	
009	fln09	SAMPLE	208578-001	Water	146372	12/23/08 12:20	1.0	1	headspace > 1 mL
010	fln10	SAMPLE	208578-002	Water	146372	12/23/08 12:53	1.0	1	
011	fln11	SAMPLE	208578-003	Water	146372	12/23/08 13:27	1.0	1	
012	fln12	SAMPLE	208578-004	Water	146372	12/23/08 14:01	1.0	1	headspace > 1 mL
013	fln13	MSS	208578-008	Water	146372	12/23/08 14:35	1.0	1	
014	fln14	SAMPLE	208599-010	Water	146372	12/23/08 15:09	1.0	1	
015	fln15	SAMPLE	208599-025	Water	146372	12/23/08 15:43	14.29	1	headspace <= 1 mL
016	fln16	SAMPLE	208752-004	Water	146372	12/23/08 16:17	4.0	1	
017	fln17	SAMPLE	208752-005	Water	146372	12/23/08 16:51	4.0	1	
018	fln18	SAMPLE	208752-006	Water	146372	12/23/08 17:26	14.29	1	
019	fln19	SAMPLE	208752-008	Water	146372	12/23/08 18:00	50.0	1	
020	fln20	MS	QC476988	Water	146372	12/23/08 18:34	1.0	1 3 4 5 6	
021	fln21	MSD	QC476989	Water	146372	12/23/08 19:08	1.0	1 3 4 5 6	
022	fln22	X	IB			12/23/08 19:43	1.0	1	
023	fln23	X	IB			12/23/08 20:17	1.0	1	
024	fln24	X	IB			12/23/08 20:51	1.0	1	

BO 12/24/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 24.

Analyst: BO Date: 12/24/08 Reviewer: LW Date: 12/24/08

Standards used: 1=S10715 2=S10902 3=S10935 4=S10844 5=S10798 6=S10985

Page 1 of 1

GC/MS VOLATILE ORGANICS

Batch #: 146322

Water Sample Prep Sheet

	Sample Number	Sample Vial	pH	Head space?	Shelf	Dil'n Flask	MS#	Comments	Initials & Date
1	208752-1	A	<2				6	TB	12/22/08
2	-2	B						1x MSS	
3	-2	COE	<2					MS/MSD	
4	-3	B							
5	-4								
6	-5								
7	-6					10		3.3x	
8	208575-8	C						1x	
9	-9								
10	-10								
11	-11								
12	-1	A							
13	-2	C							
14	-3								
15	-4								
16	-5								
17	-6								
18	-7	E							
19	208450-9 *	A	6					TB hold 12/22	
20	208752-7	B	<2					1x	
21	-8		<2			11		10x	
22									
23	208663-1	A	<2					Storage Blank	
24	-2								
25	-3								
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									

GC/MS VOLATILE ORGANICS

Batch #: 146372

Water Sample Prep Sheet

	Sample Number	Sample Vial	pH	Head space?	Shelf	Dil'n Flask	MS#	Comments	Initials & Date
1	208752-4	C	<2			1	6	mu 4x, Bzm > vu	RE 12/23/08
2	-5					2		mu 4x, Bzm > vu	
3	-6					3		mu 14.2x, Bzm > vu	
4	-8					~~5~~ 4		mu 50x, Bzm > vu	
5	208599-10		<2					mu 1x, Fo113 curve + VC 95	
6	-25	A	<2	12mL		5		mu 14.2x cis 60	
7	208575-12	C						1X	
8	-13								
9	-14								
10	208578-8	F						MSS	
11	-8	GHI	<2					MS/MSD	
12	-1	A		12mL				TB	
13	-2	C							
14	-3								
15	-4	A		12mL					
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 208576
ANALYTICAL REPORT

CH2M Hill 2625 South Plaza Drive Tempe, AZ 85282-3397	Project : 371016.SH.60.61.QS Location : Quarterly UST Level : III

Sample ID	Lab ID
TB-120808	208576-001
PL-501-8D1	208576-002
ASE-58A-8D1	208576-003
PL-201A-8D1	208576-004
PL-502-8D1	208576-005
ASE-28A-8D1	208576-006
ASE-54A-8D1	208576-007
PL-2101-8D1	208576-008
PL-2102-8D1	208576-009

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 12/23/2008
Project Manager

Signature: _____ Date: 12/24/2008
Senior Program Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**208576**
Client:	**CH2M Hill**
Project:	**371016.SH.60.61.QS**
Location:	**Quarterly UST**
Request Date:	**12/12/08**
Samples Received:	**12/12/08**

This data package contains sample and QC results for nine water samples, requested for the above referenced project on 12/12/08. See attached cooler receipt form for any sample receipt problems or discrepancies.

TPH-Extractables by GC (EPA 8015B):
The chromatographic baseline has been redrawn for all samples and standards to accurately quantitate all target hydrocarbons.

Diesel C10-C22 was detected between the MDL and the RL in the method blank for batch 146033.

No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
Low response was observed for vinyl acetate in the ICV analyzed 11/18/08 22:57; this analyte was not detected at or above the RL in the associated samples, and affected data was qualified with "b". High response was observed for hexachlorobutadiene; this analyte was not detected at or above the RL in the associated samples, and affected data was qualified with "b".

Low responses were observed for Freon 12, 2-hexanone, and vinyl acetate in the CCV analyzed 12/19/08 10:47; these analytes met minimum response criteria, and affected data was qualified with "b". High responses were observed for a number of analytes; these analytes were not detected at or above the RL in the associated samples, and affected data was qualified with "b".

Low responses were observed for a number of analytes in the CCV analyzed 12/20/08 17:35; these analytes met minimum response criteria, and affected data was qualified with "b". High responses were also observed for a number of analytes; these analytes were not detected at or above the RL in the associated samples, and affected data was qualified with "b".

High recoveries were observed for a number of analytes in the LCS for batch 146257; these analytes were not detected at or above the RL in the associated samples.

High recoveries were observed for many analytes in the MS/MSD of ASE-123A-8D1 (lab # 208575-007); the associated RPDs were within limits.

High recoveries were observed for carbon tetrachloride, hexachlorobutadiene,

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**208576**
Client:	**CH2M Hill**
Project:	**371016.SH.60.61.QS**
Location:	**Quarterly UST**
Request Date:	**12/12/08**
Samples Received:	**12/12/08**

Volatile Organics by GC/MS (EPA 8260B):

and 1,1,1-trichloroethane in the LCS for batch 146298; these analytes were not detected at or above the RL in the associated sample.

High recoveries were observed for many analytes in the MS/MSD for batch 146298; the parent sample was not a project sample, and the associated RPDs were within limits.

No other analytical problems were encountered.

Chain of Custody

208576

Curtis & Tompkins Laboratories
2323 5th St.
Berkeley, CA 94710
510-204-2221

Honeywell — Chain Of Custody / Analysis Request

AESI Ref:	39784.54128
COC#	37380_
Lab Proj # (SDG):	
Lab ID	CTBERK
Site ID	SKYHARBOR
Lab Job #	
Authorized User:	Honeywell
Text & Excel File Drive	Excel & Text File Order

Privileged & Confidential

Site Name: Sky Harbor
Phase:
Location of Site: Phoenix, AZ
Sampling Program: Quarterly UST

Sampling Co.: H+A
EDD To: Jennifer Peterson, jennifer.Peterson@ch2m.com
Sampler: ~~M. Weise~~ - M. Hall J Yontes
PO #: 4990342
Analysis Turnaround Time (TAT): 7
Consultant
Full Report TAT: 7

Client Contact: (name, co., address)
CH2M HILL
2625 South Plaza Drive, Suite 300
Tempe, AZ 85282
Preliminary Data To: Jennifer Peterson, CH2M HILL
Sample Receipt Acknowledgement To: Jennifer Peterson, CH2M HILL
Hard Copy To: Jennifer Peterson, CH2M HILL
Invoice To: Honeywell/Copy J Peterson

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	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite/Grab	Field Filtered Sample ?	Total VOCs (SW8260)	TRPH DRO C10-C22 - ORO C22-C32 (8015B)	MS/MSD	Sampling Method (code)	Lab Sample Numbers
										Units							
1	T/B	--	--	TB-120808	12/8/8	0555	BLKWATER	WATER	TB	1	G	N	X				
2	ERB	--	--	PL-501-8D1	12/8/8	0601	BLKWATER	WATER	ERB	5	G	N	X	X			
3	ASE-58A	90	--	ASE-58A-8D1	12/8/8	0700	GW	WATER	REG	5	G	N	X	X			
4	PL-201A	78	--	PL-201A-8D1	12/8/8	0721	GW	WATER	REG	5	G	N	X	X			
5	PL-502	--	--	PL-502-8D1	12/8/8	0731	GW	WATER	REG	5	G	N	X	X			
6	ASE-28A	88	--	ASE-28A-8D1	12/8/8	0801	GW	WATER	REG	5	G	N	X	X			
7	~~ASE-31A~~	~~88~~	~~--~~	~~ASE-31A-8D1~~	~~12/8/8~~		~~GW~~	~~WATER~~	~~REG~~	~~5~~	~~G~~	~~N~~	~~X~~	~~X~~			
8	ASE-54A	79	--	ASE-54A-8D1	12/8/8	1054	GW	WATER	REG	5	G	N	X	X			
9	PL-2101	79	--	PL-2101-8D1	12/8/8	1127	GW	WATER	REG	5	G	N	X	X			
10	PL-2102	73	--	PL-2102-8D1	12/8/8	1211	GW	WATER	REG	5	G	N	X	X			
11																	
12										41							

Relinquished by	Company	Received by	Company	Condition	Custody Seals Intact
	H+A		FedEx		
	Date/Time 12/11/08 14:30		Date/Time 12/11/08 14:30	Cooler Temp.	
Relinquished by	Company	Received by	Company	Condition	Custody Seals Intact
	Date/Time		Date/Time 12/12/08	Cooler Temp.	

Preservatives: (Other; Specify):

0 (none); 1 (4 Deg C); 2 (HCl pH<2); 3 (HNO3 pH<2); 4 (H2SO4 pH<2); 5 (NaOH pH>12); 6 (NaOH, Zn Acetate); 7 (H2SO4 (pH<2), 4 Deg C)); 8 (HCl pH<2); 9 (HCl 4 Deg C); 10 (HNO3 (pH<2), 4Deg C); 11 (4C NaOH (pH>12) & Ascorbic Acid); 12 (4C H2SO4 (pH<2) & Na2S2O3); 13 (Zn Acetate); sp (special instructions)

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 208574 Date Received 12-12-08 Number of coolers 1
Client HONEYWELL Project SKY HARBOR

Date Opened 12-12-08 By (print) J. [illegible] (sign) [illegible]
Date Logged in ↓ By (print) M. VILLANUEVA (sign) [illegible]

1. Did cooler come with a shipping slip (airbill, etc) FEDEX YES NO
   Shipping info 7955 2325 2989

2A. Were custody seals present? ... ☒ YES (circle) on cooler on samples ☐ NO
   How many 2 Name UNREADABLE Date 12-11-08
2B. Were custody seals intact upon arrival? YES NO N/A
3. Were custody papers dry and intact when received? YES NO
4. Were custody papers filled out properly (ink, signed, etc)? YES NO
5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO
6. Indicate the packing in cooler: (if other, describe)

☒ Bubble Wrap ☐ Foam blocks ☒ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation:

Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) 3.5

☐ Samples Received on ice & cold without a temperature blank

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES NO
   If YES, what time were they transferred to freezer?
9. Did all bottles arrive unbroken/unopened? YES NO
10. Are samples in the appropriate containers for indicated tests? YES NO
11. Are sample labels present, in good condition and complete? YES NO
12. Do the sample labels agree with custody papers? YES NO
13. Was sufficient amount of sample sent for tests requested? YES NO
14. Are the samples appropriately preserved? YES NO N/A
15. Are bubbles > 6mm absent in VOA samples? YES NO N/A
16. Was the client contacted concerning this sample delivery? YES NO
   If YES, Who was called? By Date:

COMMENTS
SAMPLE No. 7 1/2 AMBERS BROKEN
8: 1/2 AMBERS BROKEN

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	208576	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	12/08/08
Units:	ug/L	Received:	12/12/08
Diln Fac:	1.000	Prepared:	12/15/08
Batch#:	146033		

Field ID: PL-501-8D1 Lab ID: 208576-002
Type: SAMPLE Analyzed: 12/17/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	ND	51	15	
Motor Oil C22-C32	ND	310	41	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	100	50-120	
Hexacosane	109	58-127	

Field ID: ASE-58A-8D1 Lab ID: 208576-003
Type: SAMPLE Analyzed: 12/17/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	80 Y	50	15	
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	103	50-120	
Hexacosane	110	58-127	

Field ID: PL-201A-8D1 Lab ID: 208576-004
Type: SAMPLE Analyzed: 12/17/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	2,300 Y	51	15	
Motor Oil C22-C32	1,700	310	41	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	116	50-120	
Hexacosane	118	58-127	

Field ID: PL-502-8D1 Lab ID: 208576-005
Type: SAMPLE Analyzed: 12/17/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	1,700 Y	50	15	
Motor Oil C22-C32	1,200	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	90	50-120	
Hexacosane	95	58-127	

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	208576	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	12/08/08
Units:	ug/L	Received:	12/12/08
Diln Fac:	1.000	Prepared:	12/15/08
Batch#:	146033		

Field ID: ASE-28A-8D1 Lab ID: 208576-006
Type: SAMPLE Analyzed: 12/17/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	ND	50	15	
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	100	50-120	
Hexacosane	111	58-127	

Field ID: ASE-54A-8D1 Lab ID: 208576-007
Type: SAMPLE Analyzed: 12/17/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	18 J	50	15	E4
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	92	50-120	
Hexacosane	100	58-127	

Field ID: PL-2101-8D1 Lab ID: 208576-008
Type: SAMPLE Analyzed: 12/17/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	48 J	50	15	E4
Motor Oil C22-C32	48 J	300	40	E4

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	96	50-120	
Hexacosane	104	58-127	

Field ID: PL-2102-8D1 Lab ID: 208576-009
Type: SAMPLE Analyzed: 12/17/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	18 J	50	15	E4
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	95	50-120	
Hexacosane	104	58-127	

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	208576	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	12/08/08
Units:	ug/L	Received:	12/12/08
Diln Fac:	1.000	Prepared:	12/15/08
Batch#:	146033		

Type:	BLANK	Analyzed:	12/16/08
Lab ID:	QC475532		

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	19 J	50	15	E4
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	95	50-120	
Hexacosane	100	58-127	

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	208576	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC475533	Batch#:	146033
Matrix:	Water	Prepared:	12/15/08
Units:	ug/L	Analyzed:	12/16/08

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Diesel C10-C22	2,500	2,291	92	54-120	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	92	50-120	
Hexacosane	95	58-127	

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	208576	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Field ID:	ASE-123A-8D1	Batch#:	146033
MSS Lab ID:	208575-007	Sampled:	12/09/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Prepared:	12/15/08
Diln Fac:	1.000	Analyzed:	12/16/08

Type: MS Lab ID: QC475534

Analyte	MSS Result	Spiked	Result	%REC	Limits	ADEQ Flags
Diesel C10-C22	<14.94	2,551	2,431	95	54-120	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	96	50-120	
Hexacosane	102	58-127	

Type: MSD Lab ID: QC475535

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
Diesel C10-C22	2,551	2,466	97	54-120	1	31	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	96	50-120	
Hexacosane	98	58-127	

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

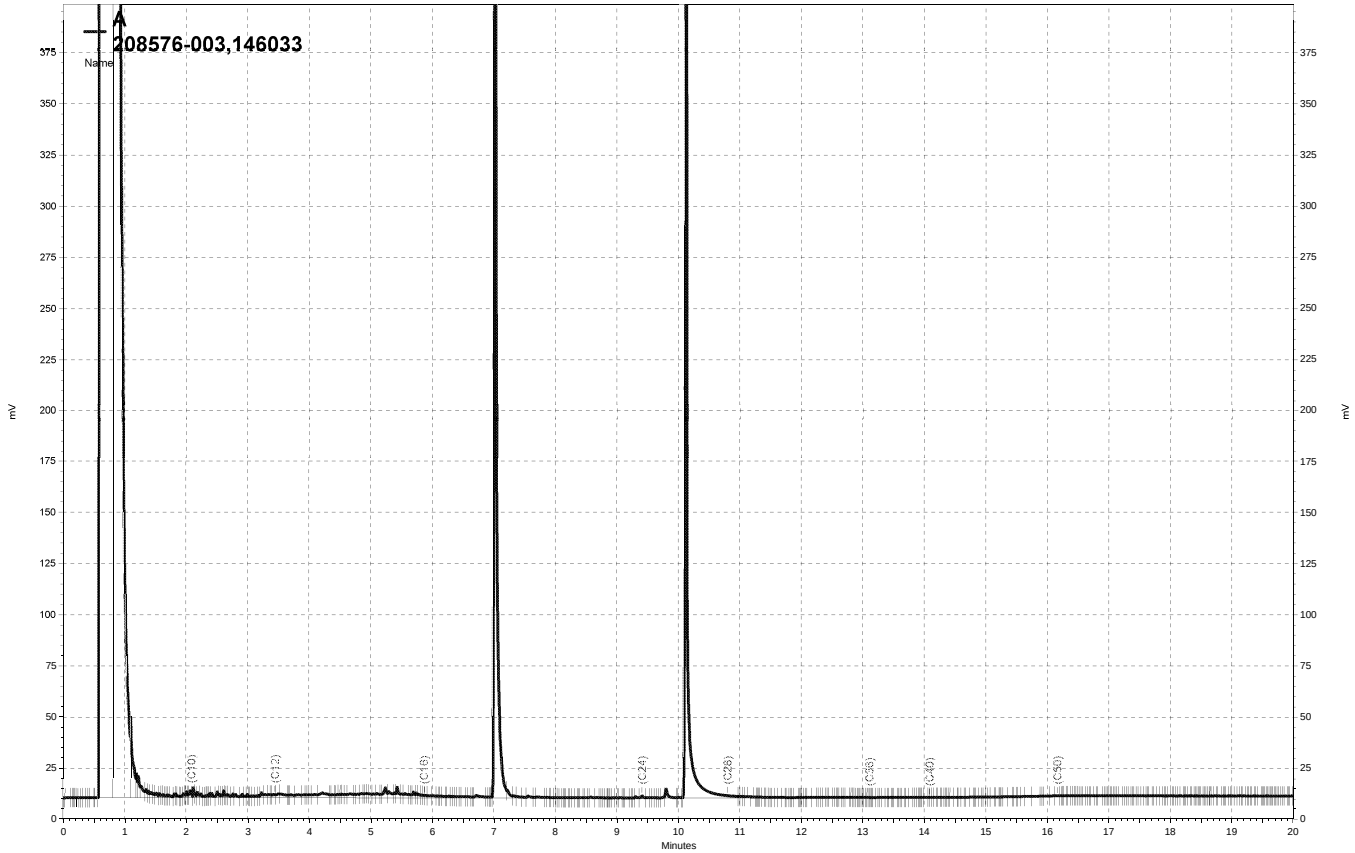
Batch QC Report

Total Extractable Hydrocarbons

Lab #:	208576	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC475536	Batch#:	146033
Matrix:	Water	Prepared:	12/15/08
Units:	ug/L	Analyzed:	12/16/08

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Motor Oil C22-C32	2,500	2,627	105	60-140	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	94	50-120	
Hexacosane	82	58-127	



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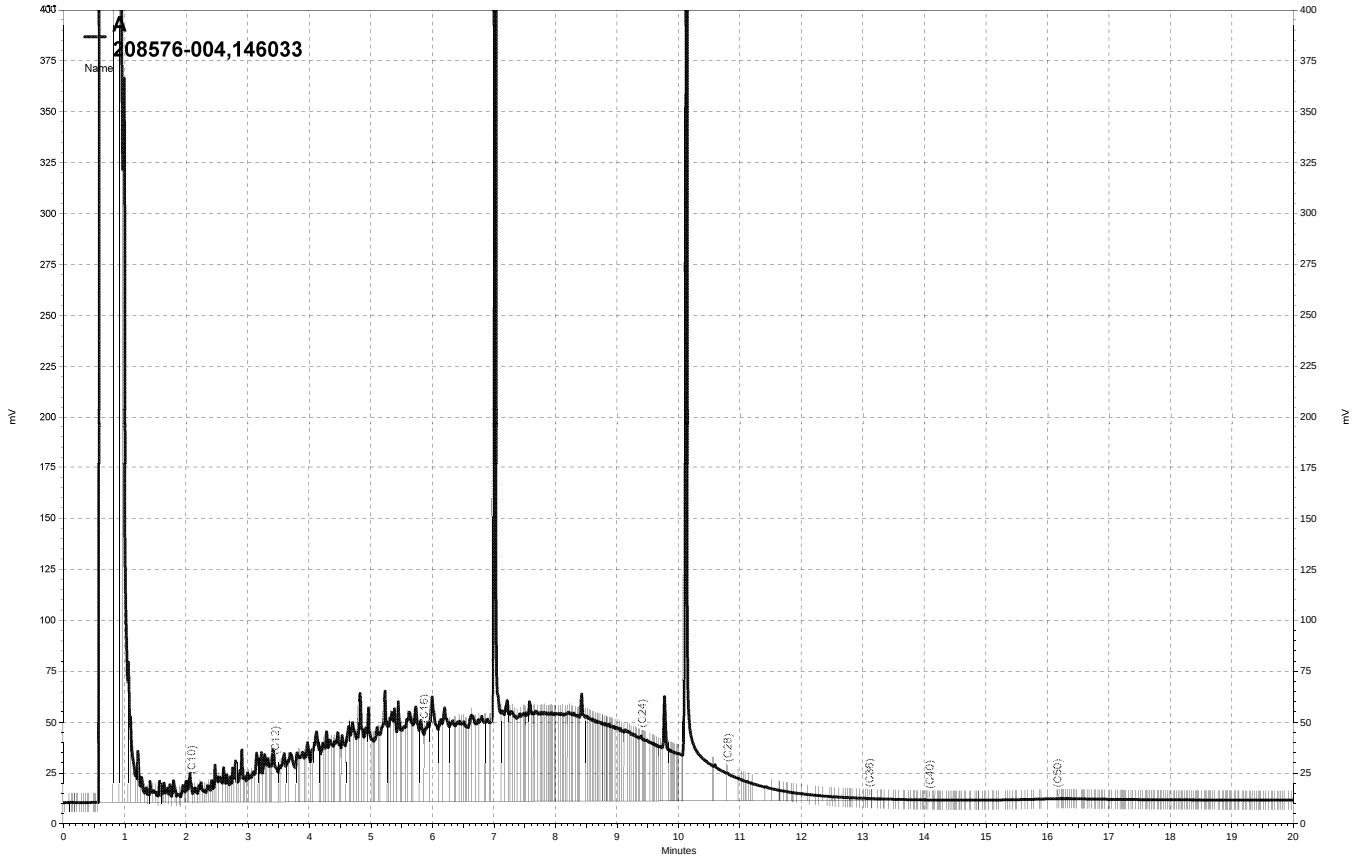

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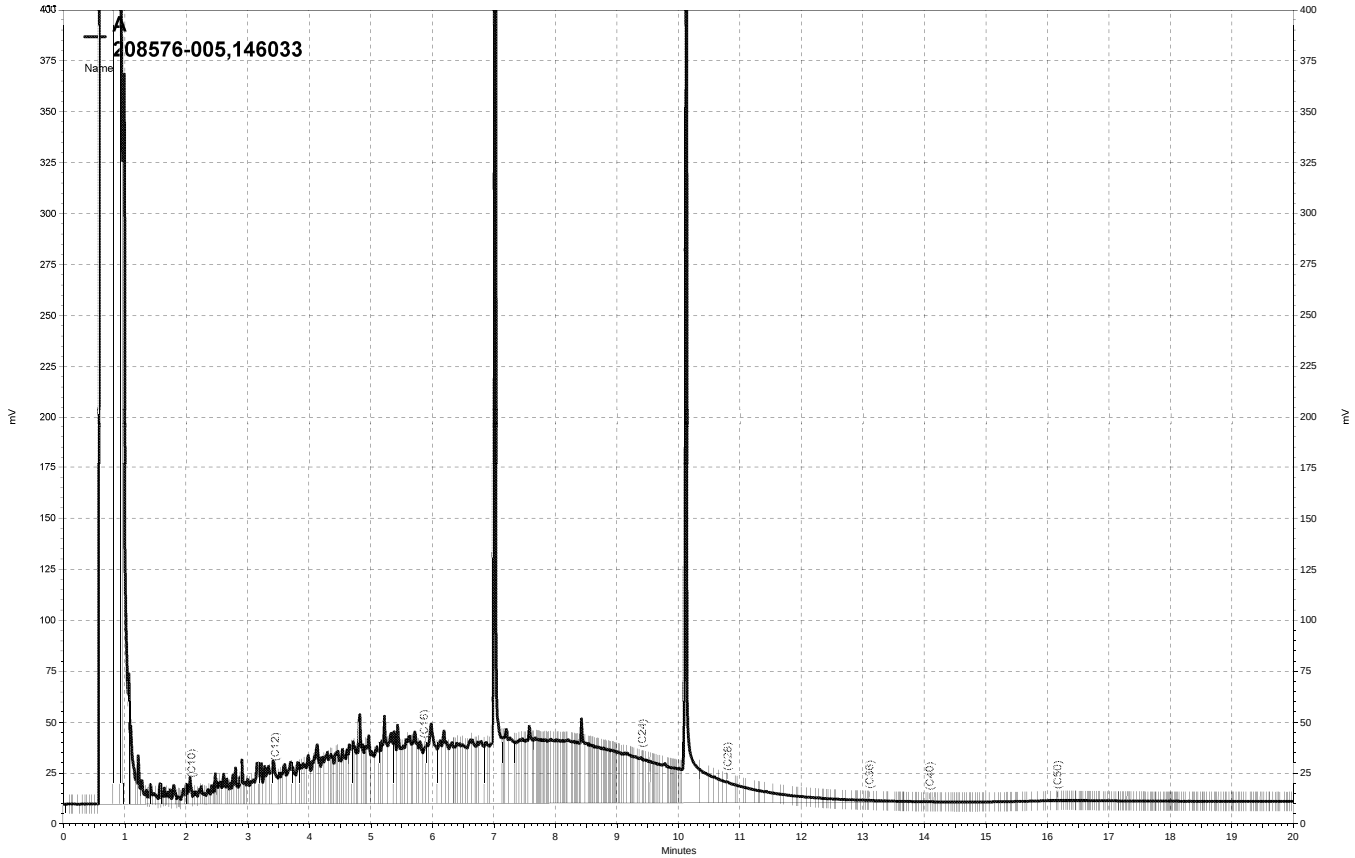

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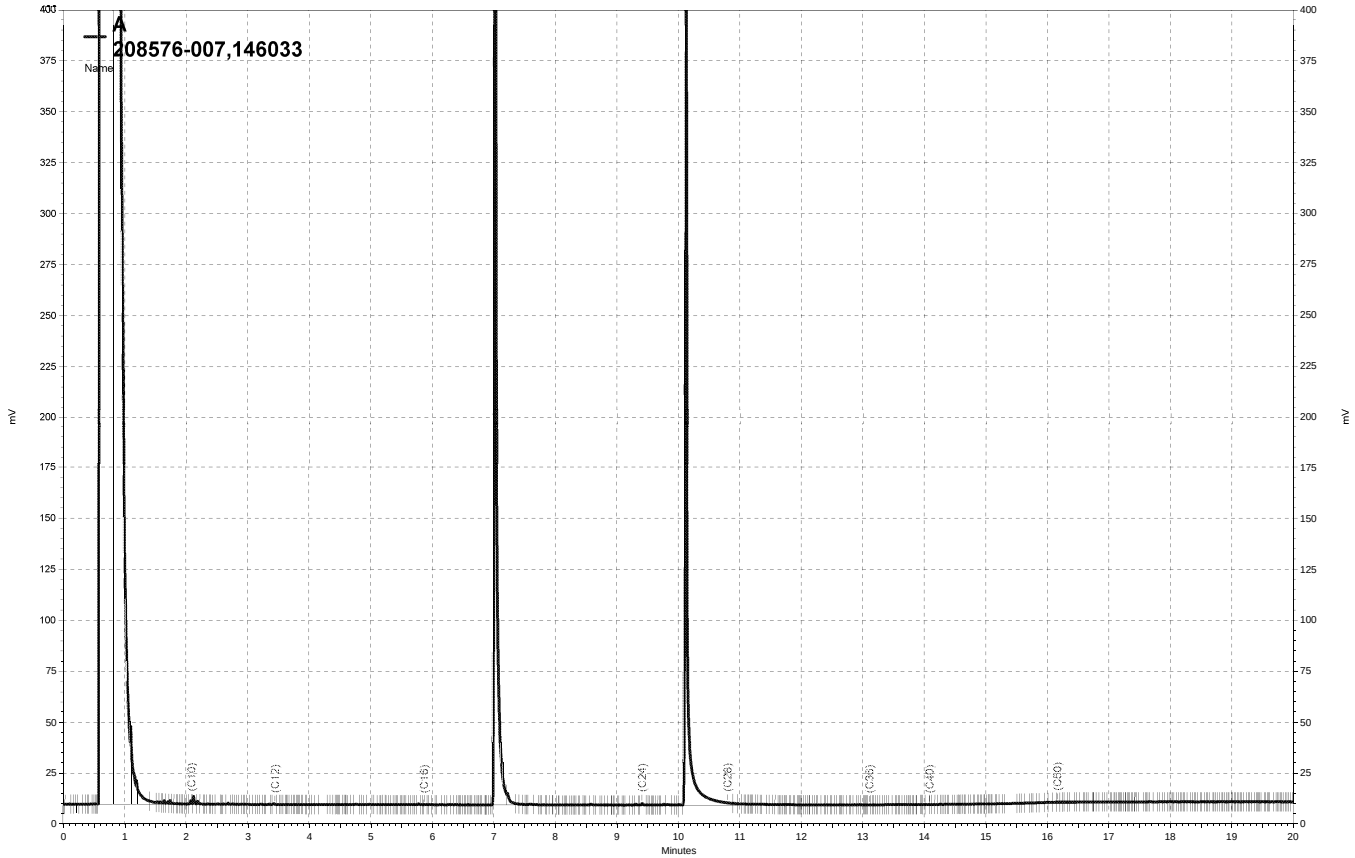

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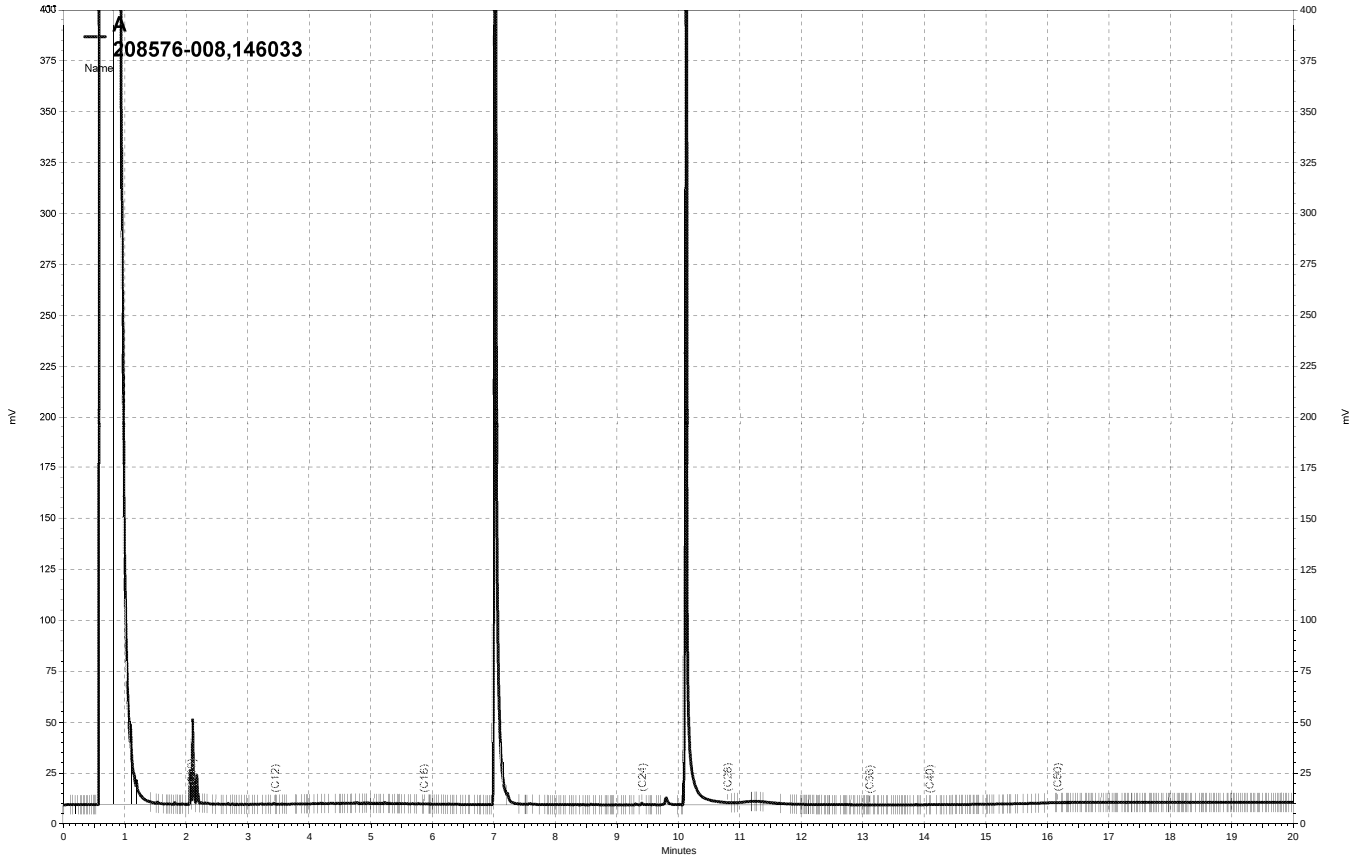

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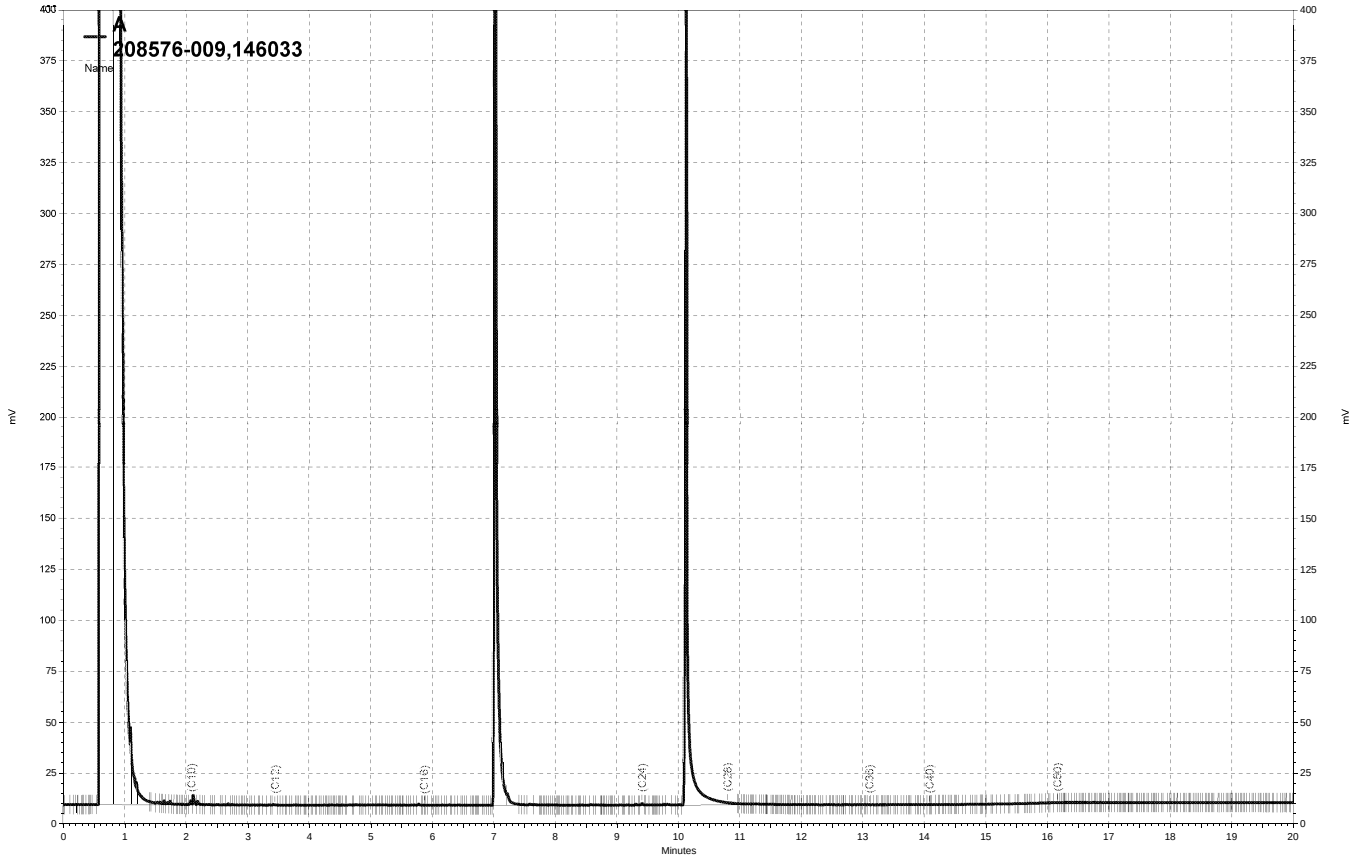

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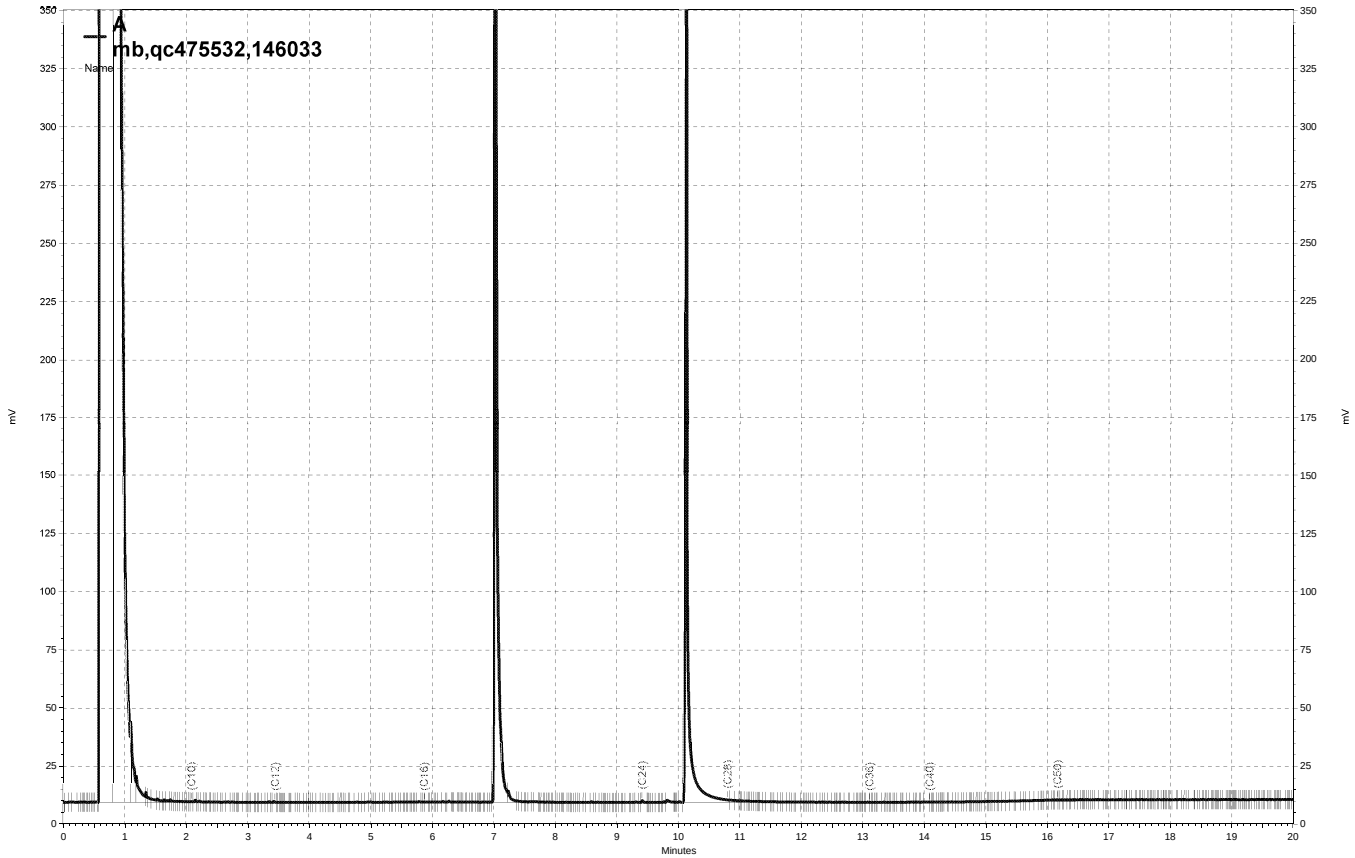

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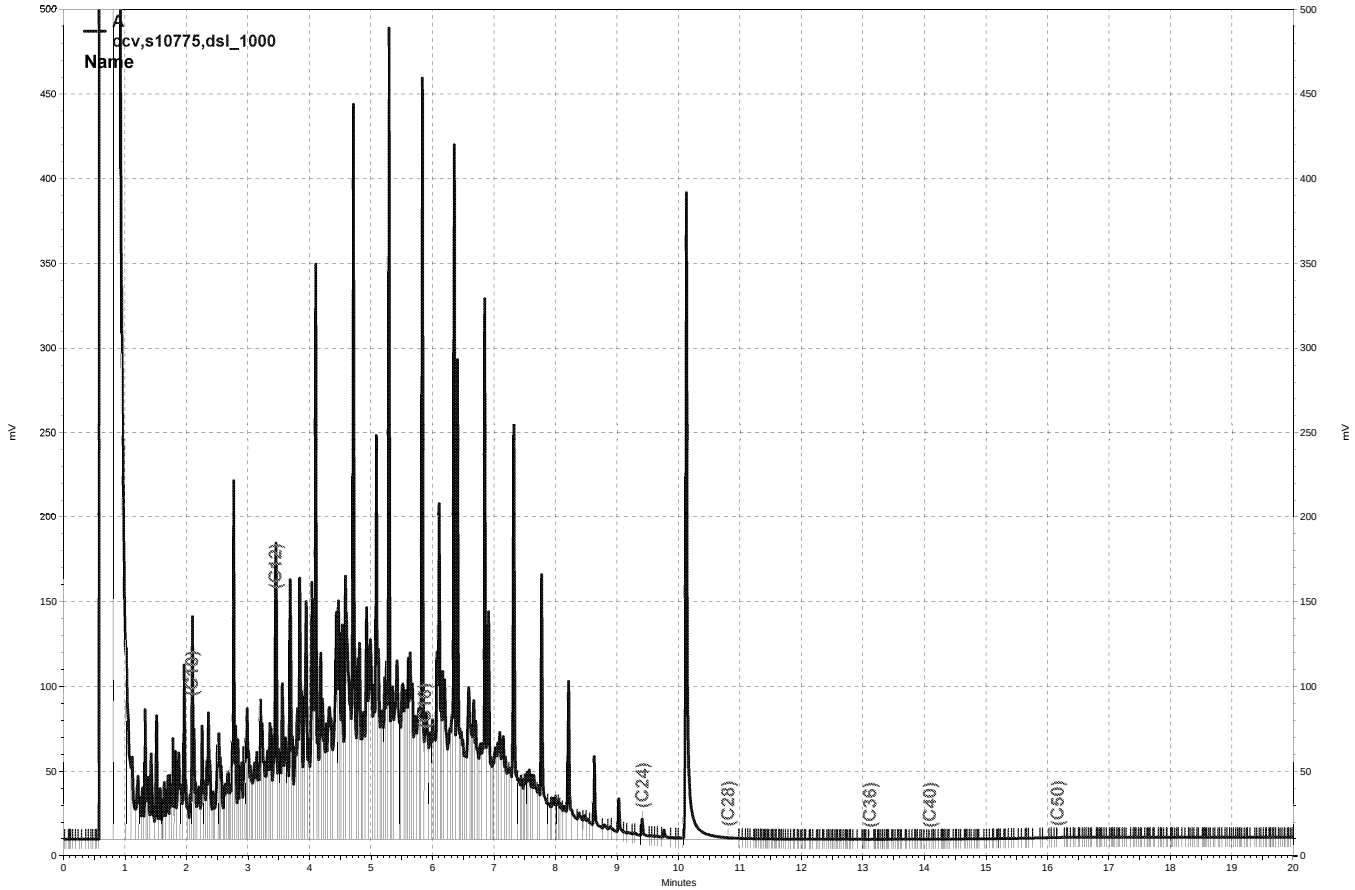

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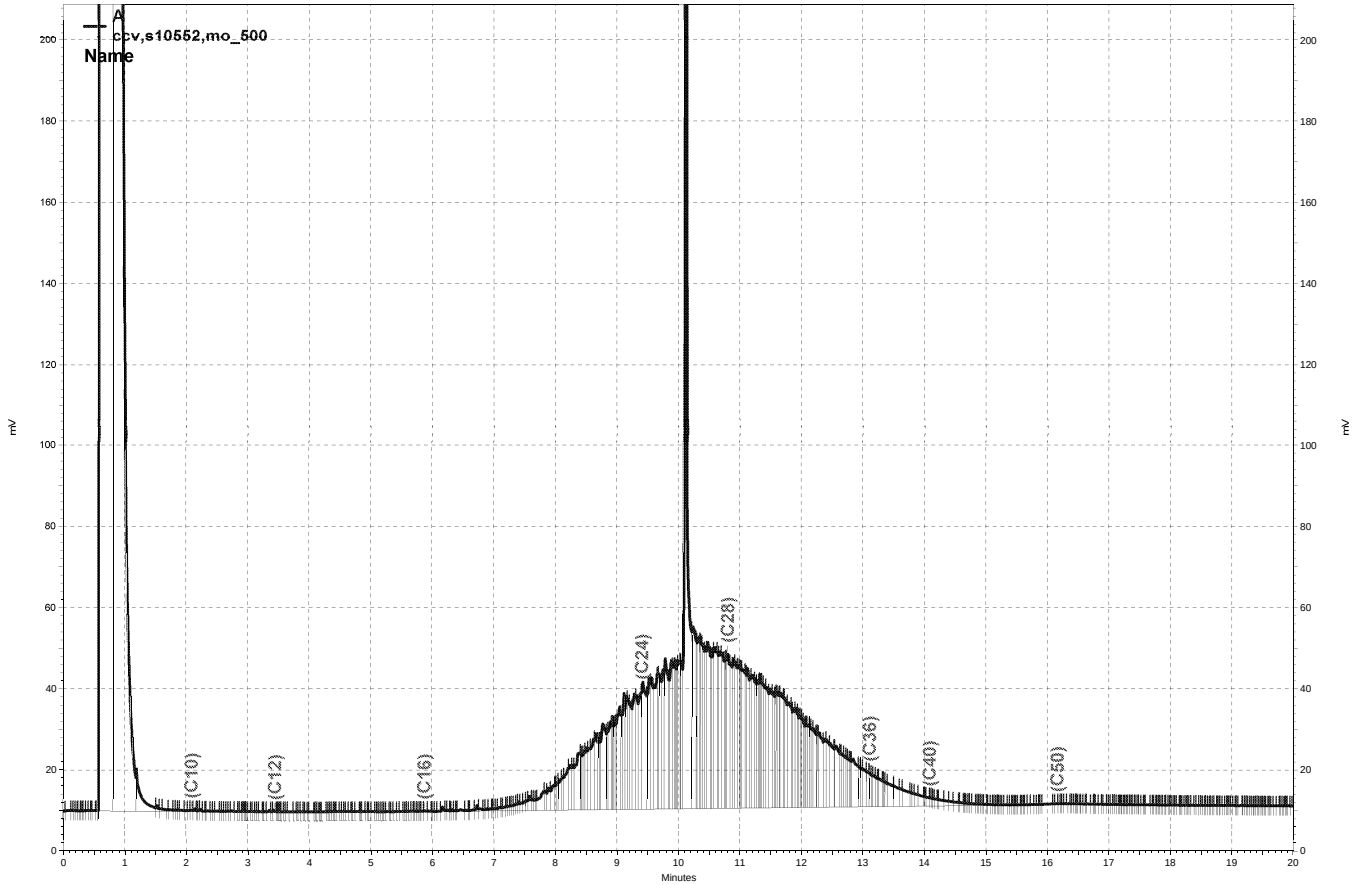

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CURTIS & TOMPKINS INITIAL CALIBRATION FOR 208576 GCSV Water: SW8015AZR1

Inst : GC26A
Calnum : 868466089004
Units : mg/L

Name : 26A diesel_323
Date : 18-NOV-2008 19:38
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	323a008	868466089008	DSL_10	18-NOV-2008 19:38	S9527
L2	323a009	868466089009	DSL_100	18-NOV-2008 20:06	S9528
L3	323a010	868466089010	DSL_500	18-NOV-2008 20:35	S9529
L4	323a011	868466089011	DSL_1000	18-NOV-2008 21:04	S9530
L5	323a012	868466089012	DSL_5000	18-NOV-2008 21:33	S9526
L6	323a013	868466089013	DSL_7500	18-NOV-2008 22:01	S9531

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C22	27669	29864	28006	25990	26629	23471	AVRG		3.71E-5		26938	8	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C10-C22	10.00	3	100.0	11	500.0	4	1000	-4	5000	-1	7500	-13

Analyst: ATL Date: 11/24/08 Reviewer: CW Date: 11/24/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 208576 GCSV Water
SW8015AZR1

Inst : GC26A Name : 26A diesel_323
Calnum : 868466089004 Cal Date : 18-NOV-2008

ICV 868466089015 (323a015 18-NOV-2008) stds: S10153

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C10-C22	26938	28040	500.0	520.5	mg/L	4	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 208576 GCSV Water: SW8015AZR1

Inst : GC26A
Calnum : 868466089003
Units : mg/L

Name : OTP(26A)_323
Date : 19-NOV-2008 09:23
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	323a039	868466089039	OTP_5	19-NOV-2008 09:23	S9739
L2	323a040	868466089040	OTP_10	19-NOV-2008 09:52	S9740
L3	323a041	868466089041	OTP_25	19-NOV-2008 10:20	S9741
L4	323a042	868466089042	OTP_50	19-NOV-2008 10:49	S9742
L5	323a043	868466089043	OTP_100	19-NOV-2008 11:18	S9745
L6	323a044	868466089044	OTP_200	19-NOV-2008 11:47	S9744

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	29916	32641	30352	26603	29783	29496	AVRG		3.36E-5		29798	6	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	5.000	0	10.00	10	25.00	2	50.00	-11	100.0	0	200.0	-1

ATL 11/21/08 : OTP_25 point was used to update RT for asurotp323.met.

Analyst: ATL Date: 11/21/08 Reviewer: CW Date: 11/24/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 208576 GCSV Water: SW8015AZR1

Inst : GC26A
Calnum : 868487360001
Units : mg/L

Name : MO(26a)_338
Date : 03-DEC-2008 18:28
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	338a013	868487360013	MO_50	03-DEC-2008 18:28	S10563
L2	338a015	868487360015	MO_500	03-DEC-2008 19:26	S10564
L3	338a016	868487360016	MO_1000	03-DEC-2008 19:55	S10566
L4	338a017	868487360017	MO_5000	03-DEC-2008 20:23	S10567
L5	338a018	868487360018	MO_7500	03-DEC-2008 20:52	S10568
L6	338a030	868487360030	MO_250	04-DEC-2008 13:02	S10565

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C22-C32	11273	12715	12308	12247	11468	11999	AVRG		8.33E-5		12002	5	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C22-C32	50.00	-6	500.0	6	1000	3	5000	2	7500	-4	250.0	0

ATL 12/04/08 : Manually integrated all motor oil points except MO_250 for fuel hump. MO_250 pt. was re-run to confirm misinject run #14.

Analyst: ATL Date: 12/04/08 Reviewer: CP Date: 12/04/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208576 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : DSL_1000 IDF : 1.0
Seqnum : 868505713014 File : 351a014 Time : 16-DEC-2008 13:24
Standards: S10775

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C22	868466089004	18-NOV-2008	26938	25419	1000	943.6	mg/L	-6	15	
Hexacosane	868470899001	21-NOV-2008	20727	17825	50.00	43.00	mg/L	-14	15	

Analyst: JDG Date: 12/16/08 Reviewer: CP Date: 12/16/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208576 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : MO_500 IDF : 1.0
Seqnum : 868505713015 File : 351a015 Time : 16-DEC-2008 13:53
Standards: S10552

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C22-C32	868487360001	03-DEC-2008	12002	12530	500.0	522.0	mg/L	4	15	
Hexacosane	868470899001	21-NOV-2008	20727	17413	50.00	42.01	mg/L	**-16**	15	c-

Analyst: ATL Date: 12/23/08 Reviewer: JDG Date: 12/23/08

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208576 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : OTP_50 IDF : 1.0
Seqnum : 868505713017 File : 351a017 Time : 16-DEC-2008 17:23
Cal : 868466089003 Caldate : 19-NOV-2008
Standards: S10089

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
o-Terphenyl	29798	27410	50.00	45.99	mg/L	-8	15	

Analyst: ATL Date: 12/23/08 Reviewer: JDG Date: 12/23/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208576 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : OTP_50 IDF : 1.0
Seqnum : 868505713031 File : 351a031 Time : 17-DEC-2008 00:20
Cal : 868466089003 Caldate : 19-NOV-2008
Standards: S10089

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
o-Terphenyl	29798	28937	50.00	48.55	mg/L	-3	15	

Analyst: ATL Date: 12/17/08 Reviewer: JDG Date: 12/23/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208576 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : DSL_500 IDF : 1.0
Seqnum : 868505713032 File : 351a032 Time : 17-DEC-2008 00:48
Standards: S10774

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C22	868466089004	18-NOV-2008	26938	27027	500.0	501.7	mg/L	0	15	
Hexacosane	868470899001	21-NOV-2008	20727	20776	50.00	50.12	mg/L	0	15	

Analyst: ATL Date: 12/17/08 Reviewer: JDG Date: 12/23/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208576 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : MO_500 IDF : 1.0
Seqnum : 868505713033 File : 351a033 Time : 17-DEC-2008 01:16
Standards: S10552

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C22-C32	868487360001	03-DEC-2008	12002	13164	500.0	548.4	mg/L	10	15	
Hexacosane	868470899001	21-NOV-2008	20727	17747	50.00	42.81	mg/L	-14	15	

ATL 12/17/08 : Manually integrated fuel hump.

Analyst: ATL Date: 12/17/08 Reviewer: JDG Date: 12/23/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208576 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : DSL_250 IDF : 1.0
Seqnum : 868505713045 File : 351a045 Time : 17-DEC-2008 06:54
Standards: S10773

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C22	868466089004	18-NOV-2008	26938	27085	250.0	251.4	mg/L	1	15	
Hexacosane	868470899001	21-NOV-2008	20727	20311	50.00	49.00	mg/L	-2	15	

ATL 12/17/08 : Manually integrated fuel hump.

Analyst: ATL Date: 12/17/08 Reviewer: EAH Date: 12/23/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208576 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : OTP_50 IDF : 1.0
Seqnum : 868505713047 File : 351a047 Time : 17-DEC-2008 07:50
Cal : 868466089003 Caldate : 19-NOV-2008
Standards: S10089

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
o-Terphenyl	29798	29522	50.00	49.54	mg/L	-1	15	

Analyst: ATL Date: 12/17/08 Reviewer: EAH Date: 12/23/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208576 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : MO_500 IDF : 1.0
Seqnum : 868505713049 File : 351a049 Time : 17-DEC-2008 08:46
Standards: S10552

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C22-C32	868487360001	03-DEC-2008	12002	13437	500.0	559.8	mg/L	12	15	
Hexacosane	868470899001	21-NOV-2008	20727	18287	50.00	44.11	mg/L	-12	15	

ATL 12/17/08 : Manually integrated fuel hump.

Analyst: ATL Date: 12/17/08 Reviewer: EAH Date: 12/23/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208576 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : DSL_1000 IDF : 1.0
Seqnum : 868505713057 File : 351a057 Time : 17-DEC-2008 12:33
Standards: S10775

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C22	868466089004	18-NOV-2008	26938	25994	1000	965.0	mg/L	-4	15	
Hexacosane	868470899001	21-NOV-2008	20727	18402	50.00	44.39	mg/L	-11	15	

Analyst: ATL Date: 12/23/08 Reviewer: EAH Date: 12/23/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208576 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : MO_500 IDF : 1.0
Seqnum : 868505713058 File : 351a058 Time : 17-DEC-2008 13:01
Standards: S10552

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C22-C32	868487360001	03-DEC-2008	12002	13059	500.0	544.1	mg/L	9	15	
Hexacosane	868470899001	21-NOV-2008	20727	18012	50.00	43.45	mg/L	-13	15	

Analyst: ATL Date: 12/23/08 Reviewer: EAH Date: 12/23/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208576 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : OTP_50 IDF : 1.0
Seqnum : 868505713059 File : 351a059 Time : 17-DEC-2008 13:30
Cal : 868466089003 Caldate : 19-NOV-2008
Standards: S10089

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
o-Terphenyl	29798	28217	50.00	47.35	mg/L	-5	15	

Analyst: ATL Date: 12/23/08 Reviewer: EAH Date: 12/23/08

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868466089

Instrument : GC26A Begun : 11/18/08 16:09
Method : SW8015AZR1 SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	323a001	X	PRIMER			11/18/08 16:09	1.0		
002	323a002	X	IB			11/18/08 16:38	1.0		
003	323a003	X	IB			11/18/08 17:06	1.0		
007	323a007	IB	CALIB			11/18/08 19:09	1.0		
008	323a008	ICAL	DSL_10			11/18/08 19:38	1.0	1	
009	323a009	ICAL	DSL_100			11/18/08 20:06	1.0	2	
010	323a010	ICAL	DSL_500			11/18/08 20:35	1.0	3	
011	323a011	ICAL	DSL_1000			11/18/08 21:04	1.0	4	
012	323a012	ICAL	DSL_5000			11/18/08 21:33	1.0	5	
013	323a013	ICAL	DSL_7500			11/18/08 22:01	1.0	6	
015	323a015	ICV	DSL_500			11/18/08 22:59	1.0	7	
017	323a017	IB	CALIB			11/18/08 23:56	1.0		
032	323a032	ICAL	JP5_10			11/19/08 06:03	1.0	8	
033	323a033	ICAL	JP5_100			11/19/08 06:31	1.0	9	
034	323a034	ICAL	JP5_500			11/19/08 07:00	1.0	10	
035	323a035	ICAL	JP5_1500			11/19/08 07:28	1.0	11	
036	323a036	ICAL	JP5_2500			11/19/08 07:57	1.0	12	
037	323a037	ICAL	JP5_5000			11/19/08 08:26	1.0	13	
038	323a038	IB	CALIB			11/19/08 08:54	1.0		
039	323a039	ICAL	OTP_5			11/19/08 09:23	1.0	14	
040	323a040	ICAL	OTP_10			11/19/08 09:52	1.0	15	
041	323a041	ICAL	OTP_25			11/19/08 10:20	1.0	16	
042	323a042	ICAL	OTP_50			11/19/08 10:49	1.0	17	
043	323a043	ICAL	OTP_100			11/19/08 11:18	1.0	18	
044	323a044	ICAL	OTP_200			11/19/08 11:47	1.0	19	
045	323a045	IB	CALIB			11/19/08 12:16	1.0		
046	323a046	CMARKER	C8-C50			11/19/08 12:44	1.0	20	

ATL 11/21/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 46.

Analyst: ATL Date: 11/21/08 Reviewer: CW Date: 11/24/08

Standards used: 1=S9527 2=S9528 3=S9529 4=S9530 5=S9526 6=S9531 7=S10153 8=S10506 9=S10507 10=S10508 11=S10509 12=S10510 13=S10505 14=S9739 15=S9740 16=S9741 17=S9742 18=S9745 19=S9744 20=S10268

Page 1 of 1

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868487360

Instrument : GC26A Begun : 12/03/08 10:40
Method : SW8015AZR1 SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	338a001	X	IB			12/03/08 10:40	1.0		
002	338a002	X	IB			12/03/08 11:09	1.0		
003	338a003	X	CMARKER			12/03/08 11:37	1.0	1	
004	338a004	CCV	JP5_250			12/03/08 12:06	1.0	2	
005	338a005	CCV	OTP_50			12/03/08 12:36	1.0	3	
006	338a006	CCV	DSL_250			12/03/08 13:05	1.0	4	
007	338a007	CCV	MO_500			12/03/08 14:34	1.0	5	
009	338a009	CCV	DSL_250			12/03/08 15:32	1.0	6	
010	338a010	CCV	DSL_500			12/03/08 16:01	1.0	7	
011	338a011	CCV	DSL_1000			12/03/08 16:31	1.0	8	
012	338a012	IB	CALIB			12/03/08 17:54	1.0		
013	338a013	ICAL	MO_50			12/03/08 18:28	1.0	9	
014	338a014	X	ICAL			12/03/08 18:57	1.0	10	
015	338a015	ICAL	MO_500			12/03/08 19:26	1.0	11	
016	338a016	ICAL	MO_1000			12/03/08 19:55	1.0	12	
017	338a017	ICAL	MO_5000			12/03/08 20:23	1.0	13	
018	338a018	ICAL	MO_7500			12/03/08 20:52	1.0	14	
019	338a019	IB	CALIB			12/03/08 21:21	1.0		
020	338a020	ICAL	BUNK_50			12/03/08 21:50	1.0	15	
021	338a021	ICAL	BUNK_500			12/03/08 22:19	1.0	16	
022	338a022	ICAL	BUNK_1250			12/03/08 22:48	1.0	17	
023	338a023	ICAL	BUNK_2500			12/03/08 23:16	1.0	18	
024	338a024	ICAL	BUNK_5000			12/03/08 23:45	1.0	19	
025	338a025	IB	CALIB			12/04/08 00:14	1.0		
026	338a026	CMARKER	C8-C50			12/04/08 00:43	1.0	1	
027	338a027	IB	CALIB			12/04/08 01:12	1.0		
028	338a028	X	TANKCHECK			12/04/08 01:40	1.0		
029	338a029	IB	CALIB			12/04/08 12:34	1.0		
030	338a030	ICAL	MO_250			12/04/08 13:02	1.0	10	

ATL 12/04/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 30.

Analyst: ATL Date: 12/04/08 Reviewer: CP Date: 12/04/08

Standards used: 1=S10268 2=S10245 3=S10089 4=S10218 5=S10552 6=S10773 7=S10774 8=S10775 9=S10563 10=S10565 11=S10564 12=S10566 13=S10567 14=S10568 15=S10515 16=S10516 17=S10517 18=S10518 19=S10514

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868505713

Instrument : GC26A Begun : 12/16/08 04:33
Method : SW8015AZR1 SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	351a001	X	IB				12/16/08 04:33	1.0	
002	351a002	X	IB				12/16/08 05:01	1.0	
003	351a003	X	IB				12/16/08 05:29	1.0	
004	351a004	X	CMARKER				12/16/08 05:58	1.0	1
005	351a005	CCV	DSL_250				12/16/08 06:26	1.0	2
006	351a006	CCV	MO_500				12/16/08 06:55	1.0	3
007	351a007	CCV	JP5_250				12/16/08 07:44	1.0	4
008	351a008	X	IB				12/16/08 08:44	1.0	
009	351a009	X	IB				12/16/08 10:56	1.0	
010	351a010	BS	QC475317		Water	145987	12/16/08 11:24	1.0	
011	351a011	BSD	QC475318		Water	145987	12/16/08 11:53	1.0	
012	351a012	SAMPLE	208416-005		WET Leachate	145987	12/16/08 12:21	1.0	
013	351a013	SAMPLE	208416-005	S	WET Leachate	145987	12/16/08 12:50	1.0	
014	351a014	CCV	DSL_1000				12/16/08 13:24	1.0	5
015	351a015	CCV	MO_500				12/16/08 13:53	1.0	3
016	351a016	X	IB				12/16/08 16:55	1.0	
017	351a017	CCV	OTP_50				12/16/08 17:23	1.0	6
018	351a018	BLANK	QC475532		Water	146033	12/16/08 18:13	1.0	
019	351a019	LCS	QC475533		Water	146033	12/16/08 18:42	1.0	
020	351a020	LCS	QC475536		Water	146033	12/16/08 19:10	1.0	
021	351a021	MSS	208575-007		Water	146033	12/16/08 19:39	1.0	
022	351a022	MS	QC475534		Water	146033	12/16/08 20:07	1.0	
023	351a023	MSD	QC475535		Water	146033	12/16/08 20:35	1.0	
024	351a024	SAMPLE	208575-002		Water	146033	12/16/08 21:03	1.0	
025	351a025	SAMPLE	208575-003		Water	146033	12/16/08 21:31	1.0	
026	351a026	SAMPLE	208575-004		Water	146033	12/16/08 21:59	1.0	
027	351a027	SAMPLE	208575-005		Water	146033	12/16/08 22:27	1.0	
028	351a028	X	CMARKER				12/16/08 22:56	1.0	1
029	351a029	X	CCV				12/16/08 23:24	1.0	7
030	351a030	X	CCV				12/16/08 23:52	1.0	3
031	351a031	CCV	OTP_50				12/17/08 00:20	1.0	6
032	351a032	CCV	DSL_500				12/17/08 00:48	1.0	7
033	351a033	CCV	MO_500				12/17/08 01:16	1.0	3
034	351a034	X	CCV				12/17/08 01:44	1.0	6
035	351a035	SAMPLE	208575-006		Water	146033	12/17/08 02:12	1.0	
036	351a036	SAMPLE	208575-008		Water	146033	12/17/08 02:41	1.0	
037	351a037	SAMPLE	208575-009		Water	146033	12/17/08 03:09	1.0	
038	351a038	SAMPLE	208575-010		Water	146033	12/17/08 03:37	1.0	
039	351a039	SAMPLE	208575-011		Water	146033	12/17/08 04:05	1.0	
040	351a040	SAMPLE	208575-012		Water	146033	12/17/08 04:33	1.0	
041	351a041	SAMPLE	208575-014		Water	146033	12/17/08 05:02	1.0	
042	351a042	SAMPLE	208576-002		Water	146033	12/17/08 05:30	1.0	
043	351a043	SAMPLE	208576-003		Water	146033	12/17/08 05:58	1.0	
044	351a044	SAMPLE	208576-004		Water	146033	12/17/08 06:26	1.0	
045	351a045	CCV	DSL_250				12/17/08 06:54	1.0	2
046	351a046	X	CCV				12/17/08 07:22	1.0	3
047	351a047	CCV	OTP_50				12/17/08 07:50	1.0	6
048	351a048	X	CCV				12/17/08 08:18	1.0	2
049	351a049	CCV	MO_500				12/17/08 08:46	1.0	3
050	351a050	X	CCV				12/17/08 09:15	1.0	6
051	351a051	SAMPLE	208576-005		Water	146033	12/17/08 09:43	1.0	
052	351a052	SAMPLE	208576-006		Water	146033	12/17/08 10:11	1.0	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868505713

Instrument : GC26A Begun : 12/16/08 04:33
Method : SW8015AZR1 SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
053	351a053	SAMPLE	208576-007		Water	146033	12/17/08 10:39	1.0	
054	351a054	SAMPLE	208576-008		Water	146033	12/17/08 11:07	1.0	
055	351a055	SAMPLE	208576-009		Water	146033	12/17/08 11:36	1.0	
056	351a056	X	CMARKER				12/17/08 12:05	1.0	1
057	351a057	CCV	DSL_1000				12/17/08 12:33	1.0	5
058	351a058	CCV	MO_500				12/17/08 13:01	1.0	3
059	351a059	CCV	OTP_50				12/17/08 13:30	1.0	6
060	351a060	X	CCV				12/17/08 13:58	1.0	5
061	351a061	X	CCV				12/17/08 14:27	1.0	3
062	351a062	X	CCV				12/17/08 14:56	1.0	6
063	351a063	IDOC	QC467042				12/17/08 15:44	1.0	
064	351a064	IDOC	QC467043				12/17/08 16:12	1.0	
065	351a065	X	TANK CHECK				12/17/08 16:41	1.0	
066	351a066	X	TANK CHECK				12/17/08 17:09	1.0	

JDG 12/16/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 15.

DNT 12/16/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 16 through 26.

ATL 12/17/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 27 through 41.

DNT 12/17/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 42 through 66.

Standards used: 1=S10268 2=S10773 3=S10552 4=S10245 5=S10775 6=S10089 7=S10774

SAMPLE PREPARATION SUMMARY

Batch # : 146033
Started By : DJT
Method : 3520C
Spike #1 ID : S10879

Prep Date : 15-DEC-2008 17:45
Spike #2 ID : S10905

Analysis : 8015AZ
Finished By : TWY
Units : mL
Spike #3 ID : S10955

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
208575-002		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208575-003		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208575-004		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208575-005		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208575-006		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208575-007		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	mss
208575-008		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208575-009		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208575-010		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208575-011		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208575-012		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208575-014		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208576-002		Water	490	2.5	1	0.005102	7	.5		.5		8015AZ	
208576-003		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208576-004		Water	490	2.5	1	0.005102	7	.5		.5		8015AZ	
208576-005		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208576-006		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208576-007		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208576-008		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208576-009		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
QC475532	BLANK	Water	500	2.5	1	0.005		.5		.5		8015AZ	
QC475533	LCS	Water	500	2.5	1	0.005		.5	.5	.5		8015AZ	
QC475534	MS	Water	490	2.5	1	0.005102	7	.5	.5	.5		8015AZ	
QC475535	MSD	Water	490	2.5	1	0.005102	7	.5	.5	.5		8015AZ	
QC475536	LCS	Water	500	2.5	1	0.005		.5		.5		8015AZ	+.5 mL S10787C

ATL 12/23/08 : None of the samples in this batch need silica gel. No silica gel log needed.

Analyst: JDG Date: 12/23/08 Reviewer: ATL Date: 12/23/08

TEH (8015) Water Prep Log

Curtis & Tompkins, Ltd.

 BK 2820

LIMS Batch No: 146033
LIMS Analysis: 8015AZ
Date Extracted: 12/15/08

Extraction Method:
☐ mod. EPA 3510c sep. funnel
☒ mod. EPA 3520c cont. L/L

Cleanup Method (if needed):
☐ EPA 3630c Silica Gel

Sample #	Container ID	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
20X575-002	D	500	7	2.5		
003	E					
004	↓					
005	D					
006	↓					
007	I					MSS
008	E					
009	↓					
010	D					
011						
012	↓					
014	E					
20X576-002	D	490				
003	E	500				
004	D	490				
005		500				
006						
007						POSS 2x SURR
008	↓					
009	E		↓			
MB QC475532	NA		NA			
LCS 3	↓	↓	↓			
MS 4	G	490	7			
MSD 5	H	↓	↓			
★LCS 6	NA	500	NA	↓		

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.5/0.5 mL of TEH_SURR was added to all samples	510879c / 510955B	DJS 12/15/08
★0.5/0.5 mL of TEH_SP was added to all spikes	510905A / 510787c★	↓
pH of all samples adjusted to pH ≤ 2 with H_2SO_4	FS075640	↓
☒ 3520c: Samples were continually extracted about 450 mL of CH_2Cl_2	EM48289	↓
Extraction Start Time:	1745	↓
Extraction End Time:	1145	DDC 12/16/08
☐ 3510c: Samples were extracted 3 times with 60 mL of CH_2Cl_2	N/A	12/16/08 / TWX
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EM48315847	↓
Concentrated to final volume at temperature (degrees C)	100°	↓
Relinquished to TEH Department	✓	↓

12/15/08
Extraction Chemist **Date**

Contined from Page ___
Continued on Page ___

12/23/08
Reviewed by **Date**

Laboratory Job Number 208576

ANALYTICAL REPORT

Volatile Organics by GC/MS

Matrix: Water

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208576	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	TB-120808	Batch#:	146257
Lab ID:	208576-001	Sampled:	12/08/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/19/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	V1
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	L1 V1
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	L1 V1
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	V9
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208576	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	TB-120808	Batch#:	146257
Lab ID:	208576-001	Sampled:	12/08/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/19/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	L1 V1
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1 V1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	109	77-120	
1,2-Dichloroethane-d4	103	70-127	
Toluene-d8	100	83-125	
Bromofluorobenzene	110	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208576	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	PL-501-8D1	Batch#:	146257
Lab ID:	208576-002	Sampled:	12/08/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/19/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	V1
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	L1 V1
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	L1 V1
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	V9
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208576	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	PL-501-8D1	Batch#:	146257
Lab ID:	208576-002	Sampled:	12/08/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/19/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	L1 V1
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1 V1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	110	77-120	
1,2-Dichloroethane-d4	111	70-127	
Toluene-d8	101	83-125	
Bromofluorobenzene	113	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208576	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-58A-8D1	Batch#:	146257
Lab ID:	208576-003	Sampled:	12/08/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/19/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	
Vinyl Chloride	3.2	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	11	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	15	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	1.8	0.5	
2,2-Dichloropropane	ND	0.5	V1
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	L1 V1
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	L1 V1
1,2-Dichloroethane	ND	0.5	
Benzene	1.2	0.5	
Trichloroethene	1.8	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	V9
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208576	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-58A-8D1	Batch#:	146257
Lab ID:	208576-003	Sampled:	12/08/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/19/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	L1 V1
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1 V1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	111	77-120	
1,2-Dichloroethane-d4	110	70-127	
Toluene-d8	100	83-125	
Bromofluorobenzene	116	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208576	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	PL-201A-8D1	Units:	ug/L
Lab ID:	208576-004	Sampled:	12/08/08
Matrix:	Water	Received:	12/12/08

Analyte	Result	RL	Diln Fac	Batch#	Analyzed	ADEQ Flags
Freon 12	ND	1.0	1.000	146257	12/19/08	V9
Chloromethane	ND	1.0	1.000	146257	12/19/08	
Vinyl Chloride	8.4	0.5	1.000	146257	12/19/08	
Bromomethane	ND	1.0	1.000	146257	12/19/08	
Chloroethane	25	1.0	1.000	146257	12/19/08	
Trichlorofluoromethane	ND	1.0	1.000	146257	12/19/08	
Iodomethane	ND	10	1.000	146257	12/19/08	
Acetone	ND	10	1.000	146257	12/19/08	
1,1-Dichloroethene	ND	0.5	1.000	146257	12/19/08	
Methylene Chloride	ND	10	1.000	146257	12/19/08	
Carbon Disulfide	ND	0.5	1.000	146257	12/19/08	
MTBE	31	0.5	1.000	146257	12/19/08	
trans-1,2-Dichloroethene	ND	0.5	1.000	146257	12/19/08	
Vinyl Acetate	ND	10	1.000	146257	12/19/08	V9
1,1-Dichloroethane	110	1.3	2.500	146298	12/21/08	D1
2-Butanone	ND	10	1.000	146257	12/19/08	
cis-1,2-Dichloroethene	1.3	0.5	1.000	146257	12/19/08	
2,2-Dichloropropane	ND	0.5	1.000	146257	12/19/08	V1
Chloroform	ND	0.5	1.000	146257	12/19/08	
Bromochloromethane	ND	0.5	1.000	146257	12/19/08	
1,1,1-Trichloroethane	ND	0.5	1.000	146257	12/19/08	L1 V1
1,1-Dichloropropene	ND	0.5	1.000	146257	12/19/08	
Carbon Tetrachloride	ND	0.5	1.000	146257	12/19/08	L1 V1
1,2-Dichloroethane	ND	0.5	1.000	146257	12/19/08	
Benzene	3.7	0.5	1.000	146257	12/19/08	
Trichloroethene	ND	0.5	1.000	146257	12/19/08	
1,2-Dichloropropane	ND	0.5	1.000	146257	12/19/08	
Bromodichloromethane	ND	0.5	1.000	146257	12/19/08	
Dibromomethane	ND	0.5	1.000	146257	12/19/08	
4-Methyl-2-Pentanone	ND	10	1.000	146257	12/19/08	
cis-1,3-Dichloropropene	ND	0.5	1.000	146257	12/19/08	
Toluene	ND	0.5	1.000	146257	12/19/08	
trans-1,3-Dichloropropene	ND	0.5	1.000	146257	12/19/08	
1,1,2-Trichloroethane	ND	0.5	1.000	146257	12/19/08	
2-Hexanone	ND	10	1.000	146257	12/19/08	V9
1,3-Dichloropropane	ND	0.5	1.000	146257	12/19/08	
Tetrachloroethene	ND	0.5	1.000	146257	12/19/08	
Dibromochloromethane	ND	0.5	1.000	146257	12/19/08	
1,2-Dibromoethane	ND	0.5	1.000	146257	12/19/08	L1 V1

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208576	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	PL-201A-8D1	Units:	ug/L
Lab ID:	208576-004	Sampled:	12/08/08
Matrix:	Water	Received:	12/12/08

Analyte	Result	RL	Diln Fac	Batch#	Analyzed	ADEQ Flags
Chlorobenzene	ND	0.5	1.000	146257	12/19/08	
1,1,1,2-Tetrachloroethane	ND	0.5	1.000	146257	12/19/08	
Ethylbenzene	ND	0.5	1.000	146257	12/19/08	
m,p-Xylenes	ND	0.5	1.000	146257	12/19/08	
o-Xylene	ND	0.5	1.000	146257	12/19/08	
Styrene	ND	0.5	1.000	146257	12/19/08	
Bromoform	ND	1.0	1.000	146257	12/19/08	
Isopropylbenzene	1.7	0.5	1.000	146257	12/19/08	
1,1,2,2-Tetrachloroethane	ND	0.5	1.000	146257	12/19/08	
1,2,3-Trichloropropane	ND	0.5	1.000	146257	12/19/08	
Propylbenzene	ND	0.5	1.000	146257	12/19/08	
Bromobenzene	ND	0.5	1.000	146257	12/19/08	
1,3,5-Trimethylbenzene	ND	0.5	1.000	146257	12/19/08	
2-Chlorotoluene	ND	0.5	1.000	146257	12/19/08	
4-Chlorotoluene	ND	0.5	1.000	146257	12/19/08	
tert-Butylbenzene	ND	0.5	1.000	146257	12/19/08	
1,2,4-Trimethylbenzene	ND	0.5	1.000	146257	12/19/08	
sec-Butylbenzene	2.0	0.5	1.000	146257	12/19/08	
para-Isopropyl Toluene	ND	0.5	1.000	146257	12/19/08	
1,3-Dichlorobenzene	ND	0.5	1.000	146257	12/19/08	
1,4-Dichlorobenzene	ND	0.5	1.000	146257	12/19/08	
n-Butylbenzene	ND	0.5	1.000	146257	12/19/08	
1,2-Dichlorobenzene	ND	0.5	1.000	146257	12/19/08	
1,2-Dibromo-3-Chloropropane	ND	2.0	1.000	146257	12/19/08	
1,2,4-Trichlorobenzene	ND	0.5	1.000	146257	12/19/08	
Hexachlorobutadiene	ND	2.0	1.000	146257	12/19/08	L1 V1
Naphthalene	ND	2.0	1.000	146257	12/19/08	
1,2,3-Trichlorobenzene	ND	0.5	1.000	146257	12/19/08	
Xylene (total)	ND	0.5	1.000	146257	12/19/08	

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed	ADEQ Flags
Dibromofluoromethane	110	77-120	1.000	146257	12/19/08	
1,2-Dichloroethane-d4	109	70-127	1.000	146257	12/19/08	
Toluene-d8	101	83-125	1.000	146257	12/19/08	
Bromofluorobenzene	112	78-120	1.000	146257	12/19/08	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208576	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	PL-502-8D1	Units:	ug/L
Lab ID:	208576-005	Sampled:	12/08/08
Matrix:	Water	Received:	12/12/08

Analyte	Result	RL	Diln Fac	Batch#	Analyzed	ADEQ Flags
Freon 12	ND	1.0	1.000	146257	12/19/08	V9
Chloromethane	ND	1.0	1.000	146257	12/19/08	
Vinyl Chloride	8.5	0.5	1.000	146257	12/19/08	
Bromomethane	ND	1.0	1.000	146257	12/19/08	
Chloroethane	24	1.0	1.000	146257	12/19/08	
Trichlorofluoromethane	ND	1.0	1.000	146257	12/19/08	
Iodomethane	ND	10	1.000	146257	12/19/08	
Acetone	ND	10	1.000	146257	12/19/08	
1,1-Dichloroethene	ND	0.5	1.000	146257	12/19/08	
Methylene Chloride	ND	10	1.000	146257	12/19/08	
Carbon Disulfide	ND	0.5	1.000	146257	12/19/08	
MTBE	30	0.5	1.000	146257	12/19/08	
trans-1,2-Dichloroethene	ND	0.5	1.000	146257	12/19/08	
Vinyl Acetate	ND	10	1.000	146257	12/19/08	V9
1,1-Dichloroethane	110	1.3	2.500	146298	12/21/08	D1
2-Butanone	ND	10	1.000	146257	12/19/08	
cis-1,2-Dichloroethene	1.3	0.5	1.000	146257	12/19/08	
2,2-Dichloropropane	ND	0.5	1.000	146257	12/19/08	V1
Chloroform	ND	0.5	1.000	146257	12/19/08	
Bromochloromethane	ND	0.5	1.000	146257	12/19/08	
1,1,1-Trichloroethane	ND	0.5	1.000	146257	12/19/08	L1 V1
1,1-Dichloropropene	ND	0.5	1.000	146257	12/19/08	
Carbon Tetrachloride	ND	0.5	1.000	146257	12/19/08	L1 V1
1,2-Dichloroethane	ND	0.5	1.000	146257	12/19/08	
Benzene	3.6	0.5	1.000	146257	12/19/08	
Trichloroethene	ND	0.5	1.000	146257	12/19/08	
1,2-Dichloropropane	ND	0.5	1.000	146257	12/19/08	
Bromodichloromethane	ND	0.5	1.000	146257	12/19/08	
Dibromomethane	ND	0.5	1.000	146257	12/19/08	
4-Methyl-2-Pentanone	ND	10	1.000	146257	12/19/08	
cis-1,3-Dichloropropene	ND	0.5	1.000	146257	12/19/08	
Toluene	ND	0.5	1.000	146257	12/19/08	
trans-1,3-Dichloropropene	ND	0.5	1.000	146257	12/19/08	
1,1,2-Trichloroethane	ND	0.5	1.000	146257	12/19/08	
2-Hexanone	ND	10	1.000	146257	12/19/08	V9
1,3-Dichloropropane	ND	0.5	1.000	146257	12/19/08	
Tetrachloroethene	ND	0.5	1.000	146257	12/19/08	
Dibromochloromethane	ND	0.5	1.000	146257	12/19/08	
1,2-Dibromoethane	ND	0.5	1.000	146257	12/19/08	L1 V1

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208576	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	PL-502-8D1	Units:	ug/L
Lab ID:	208576-005	Sampled:	12/08/08
Matrix:	Water	Received:	12/12/08

Analyte	Result	RL	Diln Fac	Batch#	Analyzed	ADEQ Flags
Chlorobenzene	ND	0.5	1.000	146257	12/19/08	
1,1,1,2-Tetrachloroethane	ND	0.5	1.000	146257	12/19/08	
Ethylbenzene	ND	0.5	1.000	146257	12/19/08	
m,p-Xylenes	ND	0.5	1.000	146257	12/19/08	
o-Xylene	ND	0.5	1.000	146257	12/19/08	
Styrene	ND	0.5	1.000	146257	12/19/08	
Bromoform	ND	1.0	1.000	146257	12/19/08	
Isopropylbenzene	1.7	0.5	1.000	146257	12/19/08	
1,1,2,2-Tetrachloroethane	ND	0.5	1.000	146257	12/19/08	
1,2,3-Trichloropropane	ND	0.5	1.000	146257	12/19/08	
Propylbenzene	ND	0.5	1.000	146257	12/19/08	
Bromobenzene	ND	0.5	1.000	146257	12/19/08	
1,3,5-Trimethylbenzene	ND	0.5	1.000	146257	12/19/08	
2-Chlorotoluene	ND	0.5	1.000	146257	12/19/08	
4-Chlorotoluene	ND	0.5	1.000	146257	12/19/08	
tert-Butylbenzene	ND	0.5	1.000	146257	12/19/08	
1,2,4-Trimethylbenzene	ND	0.5	1.000	146257	12/19/08	
sec-Butylbenzene	2.0	0.5	1.000	146257	12/19/08	
para-Isopropyl Toluene	ND	0.5	1.000	146257	12/19/08	
1,3-Dichlorobenzene	ND	0.5	1.000	146257	12/19/08	
1,4-Dichlorobenzene	ND	0.5	1.000	146257	12/19/08	
n-Butylbenzene	ND	0.5	1.000	146257	12/19/08	
1,2-Dichlorobenzene	ND	0.5	1.000	146257	12/19/08	
1,2-Dibromo-3-Chloropropane	ND	2.0	1.000	146257	12/19/08	
1,2,4-Trichlorobenzene	ND	0.5	1.000	146257	12/19/08	
Hexachlorobutadiene	ND	2.0	1.000	146257	12/19/08	L1 V1
Naphthalene	ND	2.0	1.000	146257	12/19/08	
1,2,3-Trichlorobenzene	ND	0.5	1.000	146257	12/19/08	
Xylene (total)	ND	0.5	1.000	146257	12/19/08	

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed	ADEQ Flags
Dibromofluoromethane	110	77-120	1.000	146257	12/19/08	
1,2-Dichloroethane-d4	108	70-127	1.000	146257	12/19/08	
Toluene-d8	102	83-125	1.000	146257	12/19/08	
Bromofluorobenzene	110	78-120	1.000	146257	12/19/08	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208576	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-28A-8D1	Batch#:	146298
Lab ID:	208576-006	Sampled:	12/08/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/20/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	V9
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	3.9	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	3.2	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	0.6	0.5	
2,2-Dichloropropane	ND	0.5	V1
Chloroform	1.0	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	L1 V1
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	L1 V1
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	2.5	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	V9
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	0.5	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208576	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-28A-8D1	Batch#:	146298
Lab ID:	208576-006	Sampled:	12/08/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/20/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1 V1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	110	77-120	
1,2-Dichloroethane-d4	109	70-127	
Toluene-d8	102	83-125	
Bromofluorobenzene	114	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208576	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-54A-8D1	Batch#:	146257
Lab ID:	208576-007	Sampled:	12/08/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/19/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	3.1	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	V1
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	L1 V1
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	L1 V1
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	2.4	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	V9
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208576	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-54A-8D1	Batch#:	146257
Lab ID:	208576-007	Sampled:	12/08/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/19/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	L1 V1
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1 V1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	108	77-120	
1,2-Dichloroethane-d4	105	70-127	
Toluene-d8	100	83-125	
Bromofluorobenzene	111	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208576	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	PL-2101-8D1	Batch#:	146257
Lab ID:	208576-008	Sampled:	12/08/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/19/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	
Vinyl Chloride	0.8	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	1.8	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	7.9	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	V1
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	L1 V1
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	L1 V1
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	2.8	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	V9
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	0.5	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208576	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	PL-2101-8D1	Batch#:	146257
Lab ID:	208576-008	Sampled:	12/08/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/19/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	L1 V1
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1 V1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	109	77-120	
1,2-Dichloroethane-d4	107	70-127	
Toluene-d8	100	83-125	
Bromofluorobenzene	113	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208576	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	PL-2102-8D1	Batch#:	146257
Lab ID:	208576-009	Sampled:	12/08/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/19/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	0.7	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	V1
Chloroform	0.5	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	L1 V1
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	L1 V1
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	1.8	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	V9
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208576	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	PL-2102-8D1	Batch#:	146257
Lab ID:	208576-009	Sampled:	12/08/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/19/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	L1 V1
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1 V1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	109	77-120	
1,2-Dichloroethane-d4	107	70-127	
Toluene-d8	101	83-125	
Bromofluorobenzene	110	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208576	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC476540	Batch#:	146257
Matrix:	Water	Analyzed:	12/19/08
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Freon 12	25.00	18.27 b	73	56-140	V9
Chloromethane	25.00	20.81	83	46-142	
Vinyl Chloride	25.00	19.91	80	49-136	
Bromomethane	25.00	27.81	111	42-154	
Chloroethane	25.00	21.56	86	51-133	
Trichlorofluoromethane	25.00	27.34	109	63-135	
Iodomethane	25.00	27.00	108	70-130	
Acetone	25.00	24.66	99	48-130	
1,1-Dichloroethene	25.00	28.29	113	68-133	
Methylene Chloride	25.00	28.46	114	71-120	
Carbon Disulfide	25.00	25.81	103	56-120	
MTBE	25.00	24.74	99	58-120	
trans-1,2-Dichloroethene	25.00	27.28	109	80-120	
Vinyl Acetate	25.00	18.49 b	74	63-124	V9
1,1-Dichloroethane	25.00	26.68	107	77-120	
2-Butanone	25.00	22.71	91	57-120	
cis-1,2-Dichloroethene	25.00	27.14	109	75-120	
2,2-Dichloropropane	25.00	30.64 b	123	72-128	V3
Chloroform	25.00	28.26	113	78-120	
Bromochloromethane	25.00	28.66	115	78-120	
1,1,1-Trichloroethane	25.00	31.93 b	128 *	78-120	L1 V3
1,1-Dichloropropene	25.00	28.48	114	75-120	
Carbon Tetrachloride	25.00	34.11 b	136 *	80-120	L1 V3
1,2-Dichloroethane	25.00	27.85	111	74-120	
Benzene	25.00	25.60	102	77-120	
Trichloroethene	25.00	29.14	117	78-122	
1,2-Dichloropropane	25.00	25.70	103	76-120	
Bromodichloromethane	25.00	29.54	118	78-120	
Dibromomethane	25.00	28.65	115	77-120	
4-Methyl-2-Pentanone	25.00	23.45	94	65-120	
cis-1,3-Dichloropropene	25.00	27.15	109	76-120	
Toluene	25.00	27.73	111	73-120	
trans-1,3-Dichloropropene	25.00	24.92	100	72-120	
1,1,2-Trichloroethane	25.00	29.24	117	76-120	
2-Hexanone	25.00	19.17 b	77	57-121	V9
1,3-Dichloropropane	25.00	24.62	98	75-120	
Tetrachloroethene	25.00	27.85	111	77-120	

*= Value outside of QC limits; see narrative
b= See narrative

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208576	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC476540	Batch#:	146257
Matrix:	Water	Analyzed:	12/19/08
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Dibromochloromethane	25.00	25.30	101	76-120	
1,2-Dibromoethane	25.00	31.38 b	126 *	77-120	L1 V3
Chlorobenzene	25.00	23.89	96	78-120	
1,1,1,2-Tetrachloroethane	25.00	26.20	105	77-120	
Ethylbenzene	25.00	25.51	102	78-120	
m,p-Xylenes	50.00	48.58	97	77-120	
o-Xylene	25.00	24.06	96	77-120	
Styrene	25.00	23.64	95	77-120	
Bromoform	25.00	27.95	112	74-121	
Isopropylbenzene	25.00	21.47	86	71-120	
1,1,2,2-Tetrachloroethane	25.00	22.95	92	73-120	
1,2,3-Trichloropropane	25.00	22.95	92	72-120	
Propylbenzene	25.00	23.27	93	76-120	
Bromobenzene	25.00	23.21	93	75-120	
1,3,5-Trimethylbenzene	25.00	22.49	90	77-120	
2-Chlorotoluene	25.00	22.93	92	76-120	
4-Chlorotoluene	25.00	22.69	91	78-120	
tert-Butylbenzene	25.00	23.80	95	76-120	
1,2,4-Trimethylbenzene	25.00	22.08	88	77-120	
sec-Butylbenzene	25.00	23.89	96	80-120	
para-Isopropyl Toluene	25.00	22.47	90	76-120	
1,3-Dichlorobenzene	25.00	23.39	94	75-120	
1,4-Dichlorobenzene	25.00	22.78	91	77-120	
n-Butylbenzene	25.00	23.92	96	76-120	
1,2-Dichlorobenzene	25.00	23.58	94	76-120	
1,2-Dibromo-3-Chloropropane	25.00	21.49	86	65-120	
1,2,4-Trichlorobenzene	25.00	24.20	97	73-121	
Hexachlorobutadiene	25.00	36.56 b	146 *	73-123	L1 V3
Naphthalene	25.00	21.88	88	62-121	
1,2,3-Trichlorobenzene	25.00	24.80	99	66-123	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	106	77-120	
1,2-Dichloroethane-d4	101	70-127	
Toluene-d8	100	83-125	
Bromofluorobenzene	95	78-120	

*= Value outside of QC limits; see narrative
b= See narrative

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208576	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC476541	Batch#:	146257
Matrix:	Water	Analyzed:	12/19/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	V1
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	L1 V1
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	L1 V1
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	V9
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208576	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC476541	Batch#:	146257
Matrix:	Water	Analyzed:	12/19/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	L1 V1
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1 V1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	108	77-120	
1,2-Dichloroethane-d4	101	70-127	
Toluene-d8	99	83-125	
Bromofluorobenzene	110	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208576	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-123A-8D1	Batch#:	146257
MSS Lab ID:	208575-007	Sampled:	12/09/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/19/08
Diln Fac:	1.000		

Type: MS Lab ID: QC476559

Analyte	MSS Result	Spiked	Result	%REC	Limits	ADEQ Flags
Freon 12	<0.2000	25.00	23.83 b	95	56-140	V9
Chloromethane	<0.2000	25.00	20.48	82	46-142	
Vinyl Chloride	<0.1000	25.00	20.31	81	49-136	
Bromomethane	<0.2000	25.00	28.18	113	42-154	
Chloroethane	<0.2000	25.00	25.62	102	51-133	
Trichlorofluoromethane	<0.2000	25.00	32.52	130	63-135	
Iodomethane	<2.000	25.00	30.38	122	60-140	
Acetone	<1.000	25.00	24.39	98	48-130	
1,1-Dichloroethene	<0.1000	25.00	30.16	121	68-133	
Methylene Chloride	<1.000	25.00	29.36	117	71-120	
Carbon Disulfide	<0.1000	25.00	27.40	110	56-120	
MTBE	<0.1000	25.00	25.04	100	58-120	
trans-1,2-Dichloroethene	<0.1000	25.00	28.43	114	80-120	
Vinyl Acetate	<2.000	25.00	16.26 b	65	63-124	V9
1,1-Dichloroethane	<0.1000	25.00	28.28	113	77-120	
2-Butanone	<2.000	25.00	23.68	95	57-120	
cis-1,2-Dichloroethene	<0.1000	25.00	27.69	111	75-120	
2,2-Dichloropropane	<0.1000	25.00	29.55 b	118	72-128	V3
Chloroform	0.1194	25.00	29.81	119	78-120	
Bromochloromethane	<0.1000	25.00	28.45	114	78-120	
1,1,1-Trichloroethane	<0.1131	25.00	34.95 b	140 *	78-120	M1 V3
1,1-Dichloropropene	<0.1000	25.00	31.36	125 *	75-120	M1
Carbon Tetrachloride	<0.1000	25.00	38.50 b	154 *	80-120	M1 V3
1,2-Dichloroethane	<0.1000	25.00	30.23	121 *	74-120	M1
Benzene	<0.1000	25.00	26.73	107	77-120	
Trichloroethene	<0.1000	25.00	30.87	123 *	78-122	M1
1,2-Dichloropropane	<0.1000	25.00	26.21	105	76-120	
Bromodichloromethane	<0.1000	25.00	30.48	122 *	78-120	M1
Dibromomethane	<0.1000	25.00	29.89	120	77-120	
4-Methyl-2-Pentanone	<2.000	25.00	24.15	97	65-120	
cis-1,3-Dichloropropene	<0.1000	25.00	26.96	108	76-120	
Toluene	<0.1000	25.00	28.21	113	73-120	
trans-1,3-Dichloropropene	<0.1000	25.00	24.99	100	72-120	
1,1,2-Trichloroethane	<0.1075	25.00	29.53	118	76-120	
2-Hexanone	<2.000	25.00	19.83 b	79	57-121	V9
1,3-Dichloropropane	<0.1000	25.00	25.29	101	75-120	
Tetrachloroethene	<0.1316	25.00	29.27	117	77-120	
Dibromochloromethane	<0.1000	25.00	25.98	104	76-120	
1,2-Dibromoethane	<0.1000	25.00	31.76 b	127 *	77-120	M1 V3
Chlorobenzene	<0.1000	25.00	24.71	99	78-120	
1,1,1,2-Tetrachloroethane	<0.1000	25.00	27.32	109	77-120	
Ethylbenzene	<0.1000	25.00	26.96	108	78-120	
m,p-Xylenes	<0.1594	50.00	50.60	101	77-120	
o-Xylene	<0.1000	25.00	24.85	99	77-120	
Styrene	<0.1000	25.00	23.06	92	77-120	
Bromoform	<0.2000	25.00	28.78	115	74-121	
Isopropylbenzene	<0.1000	25.00	23.05	92	71-120	
1,1,2,2-Tetrachloroethane	<0.1000	25.00	24.67	99	73-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208576	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-123A-8D1	Batch#:	146257
MSS Lab ID:	208575-007	Sampled:	12/09/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/19/08
Diln Fac:	1.000		

Analyte	MSS Result	Spiked	Result	%REC	Limits	ADEQ Flags
1,2,3-Trichloropropane	<0.1070	25.00	24.81	99	72-120	
Propylbenzene	<0.1000	25.00	24.85	99	76-120	
Bromobenzene	<0.1000	25.00	24.68	99	75-120	
1,3,5-Trimethylbenzene	<0.1000	25.00	23.99	96	77-120	
2-Chlorotoluene	<0.1000	25.00	24.50	98	76-120	
4-Chlorotoluene	<0.1000	25.00	23.83	95	78-120	
tert-Butylbenzene	<0.1000	25.00	25.31	101	76-120	
1,2,4-Trimethylbenzene	<0.1000	25.00	24.20	97	77-120	
sec-Butylbenzene	<0.1029	25.00	25.17	101	80-120	
para-Isopropyl Toluene	<0.1000	25.00	23.99	96	76-120	
1,3-Dichlorobenzene	<0.1000	25.00	24.52	98	75-120	
1,4-Dichlorobenzene	<0.1000	25.00	23.44	94	77-120	
n-Butylbenzene	<0.1285	25.00	26.15	105	76-120	
1,2-Dichlorobenzene	<0.1000	25.00	24.69	99	76-120	
1,2-Dibromo-3-Chloropropane	<0.4000	25.00	23.77	95	65-120	
1,2,4-Trichlorobenzene	<0.1329	25.00	25.86	103	73-121	
Hexachlorobutadiene	<0.4000	25.00	38.24 b	153 *	73-123	M1 V3
Naphthalene	<0.4000	25.00	24.44	98	62-121	
1,2,3-Trichlorobenzene	<0.1149	25.00	26.88	108	66-123	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	109	77-120	
1,2-Dichloroethane-d4	109	70-127	
Toluene-d8	102	83-125	
Bromofluorobenzene	96	78-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208576	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-123A-8D1	Batch#:	146257
MSS Lab ID:	208575-007	Sampled:	12/09/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/19/08
Diln Fac:	1.000		

Type: MSD Lab ID: QC476560

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
Freon 12	25.00	24.29 b	97	56-140	2	24	V9
Chloromethane	25.00	21.25	85	46-142	4	24	
Vinyl Chloride	25.00	21.05	84	49-136	4	24	
Bromomethane	25.00	31.16	125	42-154	10	24	
Chloroethane	25.00	25.81	103	51-133	1	25	
Trichlorofluoromethane	25.00	32.67	131	63-135	0	20	
Iodomethane	25.00	34.04	136	60-140	11	30	
Acetone	25.00	24.12	96	48-130	1	41	
1,1-Dichloroethene	25.00	31.10	124	68-133	3	20	
Methylene Chloride	25.00	29.29	117	71-120	0	20	
Carbon Disulfide	25.00	27.78	111	56-120	1	20	
MTBE	25.00	24.69	99	58-120	1	21	
trans-1,2-Dichloroethene	25.00	28.80	115	80-120	1	24	
Vinyl Acetate	25.00	16.45 b	66	63-124	1	24	V9
1,1-Dichloroethane	25.00	28.13	113	77-120	1	20	
2-Butanone	25.00	23.20	93	57-120	2	32	
cis-1,2-Dichloroethene	25.00	27.82	111	75-120	0	20	
2,2-Dichloropropane	25.00	29.74 b	119	72-128	1	24	V3
Chloroform	25.00	29.69	118	78-120	0	20	
Bromochloromethane	25.00	28.93	116	78-120	2	20	
1,1,1-Trichloroethane	25.00	35.33 b	141 *	78-120	1	20	M1 V3
1,1-Dichloropropene	25.00	31.83	127 *	75-120	2	21	M1
Carbon Tetrachloride	25.00	39.12 b	156 *	80-120	2	21	M1 V3
1,2-Dichloroethane	25.00	29.48	118	74-120	3	20	
Benzene	25.00	26.77	107	77-120	0	20	
Trichloroethene	25.00	31.71	127 *	78-122	3	20	M1
1,2-Dichloropropane	25.00	26.04	104	76-120	1	20	
Bromodichloromethane	25.00	30.59	122 *	78-120	0	20	M1
Dibromomethane	25.00	29.56	118	77-120	1	20	
4-Methyl-2-Pentanone	25.00	24.41	98	65-120	1	22	
cis-1,3-Dichloropropene	25.00	27.19	109	76-120	1	20	
Toluene	25.00	28.84	115	73-120	2	20	
trans-1,3-Dichloropropene	25.00	24.69	99	72-120	1	20	
1,1,2-Trichloroethane	25.00	29.81	119	76-120	1	20	
2-Hexanone	25.00	19.71 b	79	57-121	1	25	V9
1,3-Dichloropropane	25.00	25.55	102	75-120	1	20	
Tetrachloroethene	25.00	31.04	124 *	77-120	6	20	M1
Dibromochloromethane	25.00	26.53	106	76-120	2	20	
1,2-Dibromoethane	25.00	31.95 b	128 *	77-120	1	20	M1 V3
Chlorobenzene	25.00	25.42	102	78-120	3	20	
1,1,1,2-Tetrachloroethane	25.00	28.32	113	77-120	4	20	
Ethylbenzene	25.00	27.70	111	78-120	3	26	
m,p-Xylenes	50.00	52.52	105	77-120	4	20	
o-Xylene	25.00	25.60	102	77-120	3	20	
Styrene	25.00	23.81	95	77-120	3	20	
Bromoform	25.00	29.55	118	74-121	3	21	
Isopropylbenzene	25.00	23.63	95	71-120	2	20	
1,1,2,2-Tetrachloroethane	25.00	24.39	98	73-120	1	20	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208576	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-123A-8D1	Batch#:	146257
MSS Lab ID:	208575-007	Sampled:	12/09/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/19/08
Diln Fac:	1.000		

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
1,2,3-Trichloropropane	25.00	24.28	97	72-120	2	20	
Propylbenzene	25.00	25.30	101	76-120	2	20	
Bromobenzene	25.00	24.90	100	75-120	1	20	
1,3,5-Trimethylbenzene	25.00	24.87	99	77-120	4	20	
2-Chlorotoluene	25.00	24.84	99	76-120	1	20	
4-Chlorotoluene	25.00	24.08	96	78-120	1	20	
tert-Butylbenzene	25.00	26.26	105	76-120	4	21	
1,2,4-Trimethylbenzene	25.00	25.49	102	77-120	5	20	
sec-Butylbenzene	25.00	26.41	106	80-120	5	21	
para-Isopropyl Toluene	25.00	25.45	102	76-120	6	20	
1,3-Dichlorobenzene	25.00	24.87	99	75-120	1	20	
1,4-Dichlorobenzene	25.00	23.77	95	77-120	1	23	
n-Butylbenzene	25.00	28.24	113	76-120	8	21	
1,2-Dichlorobenzene	25.00	24.95	100	76-120	1	20	
1,2-Dibromo-3-Chloropropane	25.00	23.29	93	65-120	2	22	
1,2,4-Trichlorobenzene	25.00	26.91	108	73-121	4	20	
Hexachlorobutadiene	25.00	40.77 b	163 *	73-123	6	25	M1 V3
Naphthalene	25.00	25.68	103	62-121	5	32	
1,2,3-Trichlorobenzene	25.00	28.03	112	66-123	4	29	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	107	77-120	
1,2-Dichloroethane-d4	105	70-127	
Toluene-d8	101	83-125	
Bromofluorobenzene	95	78-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208576	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC476706	Batch#:	146298
Matrix:	Water	Analyzed:	12/20/08
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Freon 12	20.00	15.24 b	76	56-140	V9
Chloromethane	20.00	15.03 b	75	46-142	V9
Vinyl Chloride	20.00	17.34	87	49-136	
Bromomethane	20.00	23.97	120	42-154	
Chloroethane	20.00	18.85	94	51-133	
Trichlorofluoromethane	20.00	23.18	116	63-135	
Iodomethane	20.00	21.83	109	70-130	
Acetone	20.00	19.54	98	48-130	
1,1-Dichloroethene	20.00	22.98	115	68-133	
Methylene Chloride	20.00	22.24	111	71-120	
Carbon Disulfide	20.00	20.63	103	56-120	
MTBE	20.00	19.00	95	58-120	
trans-1,2-Dichloroethene	20.00	21.96	110	80-120	
Vinyl Acetate	20.00	14.28 b	71	63-124	V9
1,1-Dichloroethane	20.00	21.32	107	77-120	
2-Butanone	20.00	17.67	88	57-120	
cis-1,2-Dichloroethene	20.00	21.49	107	75-120	
2,2-Dichloropropane	20.00	24.76 b	124	72-128	V3
Chloroform	20.00	22.49	112	78-120	
Bromochloromethane	20.00	22.40	112	78-120	
1,1,1-Trichloroethane	20.00	26.03 b	130 *	78-120	L1 V3
1,1-Dichloropropene	20.00	23.55	118	75-120	
Carbon Tetrachloride	20.00	28.29 b	141 *	80-120	L1 V3
1,2-Dichloroethane	20.00	22.06	110	74-120	
Benzene	20.00	20.41	102	77-120	
Trichloroethene	20.00	23.34	117	78-122	
1,2-Dichloropropane	20.00	20.32	102	76-120	
Bromodichloromethane	20.00	23.17	116	78-120	
Dibromomethane	20.00	22.30	112	77-120	
4-Methyl-2-Pentanone	20.00	17.32	87	65-120	
cis-1,3-Dichloropropene	20.00	21.11	106	76-120	
Toluene	20.00	22.37	112	73-120	
trans-1,3-Dichloropropene	20.00	19.43	97	72-120	
1,1,2-Trichloroethane	20.00	22.40	112	76-120	
2-Hexanone	20.00	14.06 b	70	57-121	V9
1,3-Dichloropropane	20.00	19.42	97	75-120	
Tetrachloroethene	20.00	23.29	116	77-120	

*= Value outside of QC limits; see narrative
b= See narrative

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208576	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC476706	Batch#:	146298
Matrix:	Water	Analyzed:	12/20/08
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Dibromochloromethane	20.00	20.35	102	76-120	
1,2-Dibromoethane	20.00	23.90	120	77-120	
Chlorobenzene	20.00	19.35	97	78-120	
1,1,1,2-Tetrachloroethane	20.00	20.98	105	77-120	
Ethylbenzene	20.00	20.91	105	78-120	
m,p-Xylenes	40.00	39.62	99	77-120	
o-Xylene	20.00	19.24	96	77-120	
Styrene	20.00	18.78	94	77-120	
Bromoform	20.00	21.72	109	74-121	
Isopropylbenzene	20.00	18.07	90	71-120	
1,1,2,2-Tetrachloroethane	20.00	18.36	92	73-120	
1,2,3-Trichloropropane	20.00	18.47	92	72-120	
Propylbenzene	20.00	19.24	96	76-120	
Bromobenzene	20.00	19.58	98	75-120	
1,3,5-Trimethylbenzene	20.00	18.85	94	77-120	
2-Chlorotoluene	20.00	19.03	95	76-120	
4-Chlorotoluene	20.00	18.61	93	78-120	
tert-Butylbenzene	20.00	20.05	100	76-120	
1,2,4-Trimethylbenzene	20.00	18.57	93	77-120	
sec-Butylbenzene	20.00	20.18	101	80-120	
para-Isopropyl Toluene	20.00	18.93	95	76-120	
1,3-Dichlorobenzene	20.00	19.36	97	75-120	
1,4-Dichlorobenzene	20.00	18.32	92	77-120	
n-Butylbenzene	20.00	20.14	101	76-120	
1,2-Dichlorobenzene	20.00	19.42	97	76-120	
1,2-Dibromo-3-Chloropropane	20.00	16.49	82	65-120	
1,2,4-Trichlorobenzene	20.00	19.00	95	73-121	
Hexachlorobutadiene	20.00	29.83 b	149 *	73-123	L1 V3
Naphthalene	20.00	17.09	85	62-121	
1,2,3-Trichlorobenzene	20.00	19.17	96	66-123	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	106	77-120	
1,2-Dichloroethane-d4	101	70-127	
Toluene-d8	102	83-125	
Bromofluorobenzene	95	78-120	

*= Value outside of QC limits; see narrative
b= See narrative

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208576	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC476707	Batch#:	146298
Matrix:	Water	Analyzed:	12/20/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	V9
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	V1
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	L1 V1
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	L1 V1
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	V9
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208576	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC476707	Batch#:	146298
Matrix:	Water	Analyzed:	12/20/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1 V1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	106	77-120	
1,2-Dichloroethane-d4	104	70-127	
Toluene-d8	102	83-125	
Bromofluorobenzene	108	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208576	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	146298
MSS Lab ID:	208557-006	Sampled:	12/11/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/21/08
Diln Fac:	1.000		

Type: MS Lab ID: QC476708

Analyte	MSS Result	Spiked	Result	%REC	Limits	ADEQ Flags
Freon 12	<0.2000	25.00	24.07 b	96	56-140	V9
Chloromethane	<0.2000	25.00	18.07 b	72	46-142	V9
Vinyl Chloride	0.3984	25.00	23.84	94	49-136	
Bromomethane	<0.2000	25.00	17.71	71	42-154	
Chloroethane	<0.2000	25.00	25.55	102	51-133	
Trichlorofluoromethane	<0.2000	25.00	33.47	134	63-135	
Iodomethane	<2.000	25.00	21.51	86	60-140	
Acetone	24.77	25.00	47.93	93	48-130	
1,1-Dichloroethene	0.1157	25.00	30.79	123	68-133	
Methylene Chloride	<1.000	25.00	29.50	118	71-120	
Carbon Disulfide	0.3237	25.00	28.28	112	56-120	
MTBE	<0.1000	25.00	25.46	102	58-120	
trans-1,2-Dichloroethene	0.3570	25.00	29.24	116	80-120	
Vinyl Acetate	<2.000	25.00	17.98 b	72	63-124	V9
1,1-Dichloroethane	<0.1000	25.00	28.98	116	77-120	
2-Butanone	25.27	25.00	52.32	108	57-120	
cis-1,2-Dichloroethene	54.06	25.00	82.07	112	75-120	
2,2-Dichloropropane	<0.1000	25.00	29.05 b	116	72-128	V3
Chloroform	<0.1000	25.00	30.42	122 *	78-120	M1
Bromochloromethane	<0.1000	25.00	28.38	114	78-120	
1,1,1-Trichloroethane	<0.1131	25.00	37.01 b	148 *	78-120	M1 V3
1,1-Dichloropropene	<0.1000	25.00	32.34	129 *	75-120	M1
Carbon Tetrachloride	<0.1000	25.00	40.75 b	163 *	80-120	M1 V3
1,2-Dichloroethane	0.6724	25.00	31.62	124 *	74-120	M1
Benzene	<0.1000	25.00	26.89	108	77-120	
Trichloroethene	0.5380	25.00	31.39	123 *	78-122	M1
1,2-Dichloropropane	<0.1000	25.00	27.13	109	76-120	
Bromodichloromethane	<0.1000	25.00	31.40	126 *	78-120	M1
Dibromomethane	<0.1000	25.00	29.61	118	77-120	
4-Methyl-2-Pentanone	<2.000	25.00	27.08	108	65-120	
cis-1,3-Dichloropropene	<0.1000	25.00	27.37	109	76-120	
Toluene	0.3459	25.00	29.35	116	73-120	
trans-1,3-Dichloropropene	<0.1000	25.00	25.65	103	72-120	
1,1,2-Trichloroethane	<0.1075	25.00	29.63	119	76-120	
2-Hexanone	2.069	25.00	22.83 b	83	57-121	V9
1,3-Dichloropropane	<0.1000	25.00	25.68	103	75-120	
Tetrachloroethene	<0.1316	25.00	30.40	122 *	77-120	M1
Dibromochloromethane	0.1845	25.00	26.52	105	76-120	
1,2-Dibromoethane	<0.1000	25.00	31.24	125 *	77-120	M1
Chlorobenzene	<0.1000	25.00	24.70	99	78-120	
1,1,1,2-Tetrachloroethane	<0.1000	25.00	27.21	109	77-120	
Ethylbenzene	<0.1000	25.00	27.18	109	78-120	
m,p-Xylenes	<0.1594	50.00	51.43	103	77-120	
o-Xylene	<0.1000	25.00	25.51	102	77-120	
Styrene	<0.1000	25.00	24.06	96	77-120	
Bromoform	0.4462	25.00	28.70	113	74-121	
Isopropylbenzene	<0.1000	25.00	22.94	92	71-120	
1,1,2,2-Tetrachloroethane	<0.1000	25.00	25.15	101	73-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208576	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	146298
MSS Lab ID:	208557-006	Sampled:	12/11/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/21/08
Diln Fac:	1.000		

Analyte	MSS Result	Spiked	Result	%REC	Limits	ADEQ Flags
1,2,3-Trichloropropane	<0.1070	25.00	24.32	97	72-120	
Propylbenzene	<0.1000	25.00	24.18	97	76-120	
Bromobenzene	<0.1000	25.00	24.48	98	75-120	
1,3,5-Trimethylbenzene	<0.1000	25.00	24.10	96	77-120	
2-Chlorotoluene	<0.1000	25.00	24.37	97	76-120	
4-Chlorotoluene	<0.1000	25.00	23.43	94	78-120	
tert-Butylbenzene	<0.1000	25.00	24.49	98	76-120	
1,2,4-Trimethylbenzene	<0.1000	25.00	24.79	99	77-120	
sec-Butylbenzene	<0.1029	25.00	23.50	94	80-120	
para-Isopropyl Toluene	<0.1000	25.00	22.10	88	76-120	
1,3-Dichlorobenzene	<0.1000	25.00	23.82	95	75-120	
1,4-Dichlorobenzene	<0.1000	25.00	23.03	92	77-120	
n-Butylbenzene	<0.1285	25.00	22.89	92	76-120	
1,2-Dichlorobenzene	<0.1000	25.00	24.27	97	76-120	
1,2-Dibromo-3-Chloropropane	<0.4000	25.00	26.07	104	65-120	
1,2,4-Trichlorobenzene	<0.1329	25.00	23.74	95	73-121	
Hexachlorobutadiene	<0.4000	25.00	25.01 b	100	73-123	V3
Naphthalene	<0.4000	25.00	27.61	110	62-121	
1,2,3-Trichlorobenzene	<0.1149	25.00	25.19	101	66-123	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	111	77-120	
1,2-Dichloroethane-d4	111	70-127	
Toluene-d8	104	83-125	
Bromofluorobenzene	94	78-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208576	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	146298
MSS Lab ID:	208557-006	Sampled:	12/11/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/21/08
Diln Fac:	1.000		

Type: MSD Lab ID: QC476709

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
Freon 12	25.00	23.20 b	93	56-140	4	24	V9
Chloromethane	25.00	17.34 b	69	46-142	4	24	V9
Vinyl Chloride	25.00	23.55	93	49-136	1	24	
Bromomethane	25.00	15.55	62	42-154	13	24	
Chloroethane	25.00	24.22	97	51-133	5	25	
Trichlorofluoromethane	25.00	31.47	126	63-135	6	20	
Iodomethane	25.00	22.68	91	60-140	5	30	
Acetone	25.00	45.11	81	48-130	6	41	
1,1-Dichloroethene	25.00	29.88	119	68-133	3	20	
Methylene Chloride	25.00	28.03	112	71-120	5	20	
Carbon Disulfide	25.00	26.91	106	56-120	5	20	
MTBE	25.00	24.98	100	58-120	2	21	
trans-1,2-Dichloroethene	25.00	27.94	110	80-120	5	24	
Vinyl Acetate	25.00	16.99 b	68	63-124	6	24	V9
1,1-Dichloroethane	25.00	27.16	109	77-120	7	20	
2-Butanone	25.00	49.52	97	57-120	6	32	
cis-1,2-Dichloroethene	25.00	78.52	98	75-120	4	20	
2,2-Dichloropropane	25.00	27.04 b	108	72-128	7	24	V3
Chloroform	25.00	28.76	115	78-120	6	20	
Bromochloromethane	25.00	27.26	109	78-120	4	20	
1,1,1-Trichloroethane	25.00	34.58 b	138 *	78-120	7	20	M1 V3
1,1-Dichloropropene	25.00	31.30	125 *	75-120	3	21	M1
Carbon Tetrachloride	25.00	38.90 b	156 *	80-120	5	21	M1 V3
1,2-Dichloroethane	25.00	29.80	117	74-120	6	20	
Benzene	25.00	26.04	104	77-120	3	20	
Trichloroethene	25.00	29.97	118	78-122	5	20	
1,2-Dichloropropane	25.00	25.54	102	76-120	6	20	
Bromodichloromethane	25.00	30.15	121 *	78-120	4	20	M1
Dibromomethane	25.00	28.86	115	77-120	3	20	
4-Methyl-2-Pentanone	25.00	26.00	104	65-120	4	22	
cis-1,3-Dichloropropene	25.00	26.50	106	76-120	3	20	
Toluene	25.00	28.52	113	73-120	3	20	
trans-1,3-Dichloropropene	25.00	24.33	97	72-120	5	20	
1,1,2-Trichloroethane	25.00	28.99	116	76-120	2	20	
2-Hexanone	25.00	22.85 b	83	57-121	0	25	V9
1,3-Dichloropropane	25.00	25.01	100	75-120	3	20	
Tetrachloroethene	25.00	29.79	119	77-120	2	20	
Dibromochloromethane	25.00	26.16	104	76-120	1	20	
1,2-Dibromoethane	25.00	31.19	125 *	77-120	0	20	M1
Chlorobenzene	25.00	24.19	97	78-120	2	20	
1,1,1,2-Tetrachloroethane	25.00	26.75	107	77-120	2	20	
Ethylbenzene	25.00	26.33	105	78-120	3	26	
m,p-Xylenes	50.00	50.13	100	77-120	3	20	
o-Xylene	25.00	24.63	99	77-120	4	20	
Styrene	25.00	23.45	94	77-120	3	20	
Bromoform	25.00	28.94	114	74-121	1	21	
Isopropylbenzene	25.00	22.18	89	71-120	3	20	
1,1,2,2-Tetrachloroethane	25.00	24.69	99	73-120	2	20	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208576	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	146298
MSS Lab ID:	208557-006	Sampled:	12/11/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/21/08
Diln Fac:	1.000		

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
1,2,3-Trichloropropane	25.00	24.15	97	72-120	1	20	
Propylbenzene	25.00	23.42	94	76-120	3	20	
Bromobenzene	25.00	24.08	96	75-120	2	20	
1,3,5-Trimethylbenzene	25.00	23.45	94	77-120	3	20	
2-Chlorotoluene	25.00	23.20	93	76-120	5	20	
4-Chlorotoluene	25.00	22.87	91	78-120	2	20	
tert-Butylbenzene	25.00	24.32	97	76-120	1	21	
1,2,4-Trimethylbenzene	25.00	24.06	96	77-120	3	20	
sec-Butylbenzene	25.00	23.59	94	80-120	0	21	
para-Isopropyl Toluene	25.00	21.79	87	76-120	1	20	
1,3-Dichlorobenzene	25.00	23.32	93	75-120	2	20	
1,4-Dichlorobenzene	25.00	22.12	88	77-120	4	23	
n-Butylbenzene	25.00	22.44	90	76-120	2	21	
1,2-Dichlorobenzene	25.00	23.88	96	76-120	2	20	
1,2-Dibromo-3-Chloropropane	25.00	25.29	101	65-120	3	22	
1,2,4-Trichlorobenzene	25.00	23.62	94	73-121	0	20	
Hexachlorobutadiene	25.00	25.81 b	103	73-123	3	25	V3
Naphthalene	25.00	27.61	110	62-121	0	32	
1,2,3-Trichlorobenzene	25.00	25.00	100	66-123	1	29	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	107	77-120	
1,2-Dichloroethane-d4	107	70-127	
Toluene-d8	103	83-125	
Bromofluorobenzene	93	78-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

CURTIS & TOMPKINS BFB TUNE FOR 208576 MSVOA Water
EPA 8260B

Inst : MSVOA11 Run Name : BFB IDF : 1.0
Seqnum : 838465788012 File : kke12 Time : 18-NOV-2008 16:19

Standards: S9454

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	7127	15.88	
75	30% - 60% of mass 95	18835	41.98	
95		44868		
96	5% - 9% of mass 95	3178	7.08	
173	< 2% of mass 174	180	0.50	
174	> 50% and < 100% of mass 95	35728	79.63	
175	5% - 9% of mass 174	2545	7.12	
176	> 95% and < 101% of mass 174	34880	97.63	
177	5% - 9% of mass 176	1827	5.24	

Analyst: SJD Date: 11/19/08 Reviewer: LW Date: 11/20/08

CURTIS & TOMPKINS BFB TUNE FOR 208576 MSVOA Water
EPA 8260B

Inst : MSVOA11 Run Name : BFB IDF : 1.0
Seqnum : 838510210002 File : klj02 Time : 19-DEC-2008 10:30

Standards: S10902

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	7991	15.47	
75	30% - 60% of mass 95	23749	45.97	
95		51664		
96	5% - 9% of mass 95	3665	7.09	
173	< 2% of mass 174	292	0.67	
174	> 50% and < 100% of mass 95	43794	84.77	
175	5% - 9% of mass 174	3254	7.43	
176	> 95% and < 101% of mass 174	43136	98.50	
177	5% - 9% of mass 176	2952	6.84	

Analyst: ACM Date: 12/19/08 Reviewer: LW Date: 12/19/08

CURTIS & TOMPKINS BFB TUNE FOR 208576 MSVOA Water
EPA 8260B

Inst : MSVOA11 Run Name : BFB IDF : 1.0
Seqnum : 838512084007 File : klk07 Time : 20-DEC-2008 17:22

Standards: S10902

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	10518	15.67	
75	30% - 60% of mass 95	31666	47.18	
95		67114		
96	5% - 9% of mass 95	4556	6.79	
173	< 2% of mass 174	361	0.58	
174	> 50% and < 100% of mass 95	62493	93.11	
175	5% - 9% of mass 174	4392	7.03	
176	> 95% and < 101% of mass 174	59696	95.52	
177	5% - 9% of mass 176	3992	6.69	

Analyst: BO Date: 12/22/08 Reviewer: LW Date: 12/22/08

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 208576 MSVOA Water: EPA 8260B

Inst : MSVOA11 Name : 8260GX11
Calnum : 838465788001 Date : 18-NOV-2008 18:16 Type : WATER
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	kke16	838465788016		18-NOV-2008 18:16	S10756 (2000000X), S10619 (2000000X), S9073 (2000000X), S10355 (1000000X), S10764 (2500X)
L2	kke17	838465788017		18-NOV-2008 18:44	S10756 (1000000X), S10619 (1000000X), S9073 (1000000X), S10355 (500000X), S10764 (2500X)
L3	kke18	838465788018		18-NOV-2008 19:12	S10756 (250000X), S10619 (250000X), S9073 (500000X), S10355 (250000X), S10764 (2500X)
L4	kke19	838465788019		18-NOV-2008 19:40	S10756 (100000X), S10619 (100000X), S9073 (200000X), S10355 (100000X), S10764 (2500X)
L5	kke20	838465788020		18-NOV-2008 20:08	S10756 (50000X), S10619 (50000X), S9073 (100000X), S10355 (50000X), S10764 (2500X)
L6	kke21	838465788021		18-NOV-2008 20:36	S10756 (25000X), S10619 (25000X), S9073 (50000X), S10355 (25000X), S10764 (2500X)
L7	kke22	838465788022		18-NOV-2008 21:04	S10756 (10000X), S10619 (10000X), S9073 (20000X), S10355 (10000X), S10764 (2500X)
L8	kke23	838465788023		18-NOV-2008 21:32	S10756 (6667X), S10619 (6667X), S9073 (13330X), S10355 (6667X), S10764 (2500X)
L9	kke24	838465788024		18-NOV-2008 22:01	S10756 (5000X), S10619 (5000X), S9073 (10000X), S10355 (5000X), S10764 (2500X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.3826	0.2856	0.3130	0.3829	0.4930	0.3869	0.4265		QUAD	0.18484	2.46331	-0.00308	0.3815	0.994	15	0.05	0.99	
Chloromethane		0.5475	0.5297	0.5101	0.5003	0.4942	0.4918	0.4801	0.4955	AVRG		1.97565		0.5062	4	15	0.10	0.99	
Vinyl Chloride	0.5419	0.5371	0.5413	0.4561	0.5720	0.5515	0.5140	0.4999	0.5282	AVRG		1.89791		0.5269	6	15	0.05	0.99	
Bromomethane		0.1919	0.1829	0.1564	0.1860	0.2058	0.2333	0.2239	0.2438	AVRG		4.92600		0.2030	14	15	0.05	0.99	
Chloroethane		0.3368	0.3324	0.3090	0.3369	0.3257	0.3178	0.2955	0.3048	AVRG		3.12628		0.3199	5	15	0.05	0.99	
Trichlorofluoromethane		0.4924	0.4960	0.4157	0.5853	0.5906	0.4996	0.5256	0.5948	AVRG		1.90478		0.5250	12	15	0.05	0.99	
Acetone			0.2276	0.1873	0.1954	0.1884	0.1732	0.1756	0.1733	AVRG		5.30002		0.1887	10	15	0.05	0.99	
1,1-Dichloroethene		0.2992m	0.3182	0.3175	0.3450	0.3302	0.3161	0.3283	0.3499	AVRG		3.07154		0.3256	5	15	0.05	0.99	
Iodomethane			0.2490	0.2671	0.2986	0.3140	0.3476	0.3224	0.3389	AVRG		3.27477		0.3054	12	15	0.05	0.99	
Methylene Chloride			0.4485	0.4455	0.4319	0.4326	0.4161	0.4065	0.4142	AVRG		2.33695		0.4279	4	15	0.05	0.99	
Carbon Disulfide		1.1484	1.2118	1.2208	1.2950	1.2525	1.1919	1.2335	1.2755	AVRG		0.81389		1.2287	4	15	0.05	0.99	
MTBE		1.4036	1.4331	1.3887	1.4217	1.4173	1.3934	1.3600	1.3773	AVRG		0.71459		1.3994	2	15	0.05	0.99	
trans-1,2-Dichloroethene		0.4337m	0.3948	0.4060	0.4186	0.4091	0.3963	0.4065	0.4207	AVRG		2.43480		0.4107	3	15	0.05	0.99	
Vinyl Acetate			0.9227	0.8898	0.8646	0.8899	0.9376	0.8330	0.8239	AVRG		1.13609		0.8802	5	15	0.05	0.99	
1,1-Dichloroethane		0.7398	0.7597	0.7639	0.7771	0.7652	0.7402	0.7293	0.7445	AVRG		1.32898		0.7525	2	15	0.10	0.99	
2-Butanone			0.2022	0.1853	0.1943	0.1934	0.1848	0.1844	0.1795	AVRG		5.28728		0.1891	4	15	0.05	0.99	
2,2-Dichloropropane		0.6137	0.5701	0.5595	0.6016	0.5617	0.5343	0.5426	0.5593	AVRG		1.76100		0.5679	5	15	0.05	0.99	
cis-1,2-Dichloroethene		0.5459	0.4710	0.4711	0.4676	0.4604	0.4551	0.4573	0.4684	AVRG		2.10707		0.4746	6	15	0.05	0.99	
Chloroform		0.7704	0.7259	0.7108	0.7262	0.7187	0.7024	0.6908	0.7122	AVRG		1.38953		0.7197	3	15	0.05	0.99	
Bromochloromethane		0.1922	0.2052	0.2134	0.2198	0.2244	0.2228	0.2273	0.2302	AVRG		4.60974		0.2169	6	15	0.05	0.99	
1,1,1-Trichloroethane		0.5447	0.5472	0.5390	0.5806	0.5479	0.5164	0.5340	0.5630	AVRG		1.82950		0.5466	4	15	0.05	0.99	
1,1-Dichloropropene		0.3096	0.3175	0.3151	0.3513	0.3244	0.3019	0.3277	0.3439	AVRG		3.08717		0.3239	5	15	0.05	0.99	
Carbon Tetrachloride		0.2491	0.2619	0.2639	0.2986	0.2740	0.2568	0.2796	0.3015	AVRG		3.66084		0.2732	7	15	0.05	0.99	
1,2-Dichloroethane		0.3297	0.3622	0.3653	0.3673	0.3614	0.3524	0.3453	0.3492	AVRG		2.82405		0.3541	4	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		1.1444	1.1790	1.1393	1.1808	1.1518	1.1265	1.1445	1.1852	AVRG		0.86474		1.1564	2	15	0.05	0.99	
Trichloroethene		0.2513	0.2683	0.2548	0.2740	0.2624	0.2520	0.2649	0.2759	AVRG		3.80269		0.2630	4	15	0.05	0.99	
1,2-Dichloropropane		0.2970	0.3020	0.2972	0.3040	0.2906	0.2835	0.2820	0.2891	AVRG		3.41088		0.2932	3	15	0.05	0.99	
Bromodichloromethane		0.3602	0.3516	0.3464	0.3656	0.3576	0.3539	0.3502	0.3567	AVRG		2.81474		0.3553	2	15	0.05	0.99	
Dibromomethane		0.1580	0.1597	0.1532	0.1593	0.1583	0.1556	0.1549	0.1567	AVRG		6.37124		0.1570	1	15	0.05	0.99	
4-Methyl-2-Pentanone		0.2499	0.2527	0.2427	0.2509	0.2468	0.2460	0.2434	0.2386	AVRG		4.05913		0.2464	2	15	0.05	0.99	
cis-1,3-Dichloropropene		0.4525	0.4838	0.4674	0.4787	0.4735	0.4664	0.4610	0.4698	AVRG		2.13161		0.4691	2	15	0.05	0.99	
Toluene		0.6754	0.7058	0.6915	0.7266	0.6915	0.6762	0.6989	0.7192	AVRG		1.43239		0.6981	3	15	0.05	0.99	
trans-1,3-Dichloropropene		0.4313	0.4353	0.4314	0.4501	0.4412	0.4353	0.4327	0.4391	AVRG		2.28810		0.4370	1	15	0.05	0.99	
1,1,2-Trichloroethane		0.1391	0.1322	0.1239	0.1338	0.1306	0.1267	0.1283	0.1282	AVRG		7.67226		0.1303	4	15	0.05	0.99	
2-Hexanone			0.2360	0.2103	0.2239	0.2196	0.2143	0.2163	0.2115	AVRG		4.56957		0.2188	4	15	0.05	0.99	
1,3-Dichloropropane		0.5366	0.5671	0.5505	0.5804	0.5632	0.5514	0.5386	0.5503	AVRG		1.80260		0.5548	3	15	0.05	0.99	
Tetrachloroethene		0.2502	0.2909	0.2823	0.3143	0.2868	0.2675	0.2964	0.3202	AVRG		3.46527		0.2886	8	15	0.05	0.99	
Dibromochloromethane		0.2949	0.3300	0.3173	0.3369	0.3345	0.3317	0.3323	0.3418	AVRG		3.05414		0.3274	5	15	0.05	0.99	
1,2-Dibromoethane		0.2061	0.2336	0.2328	0.2431	0.2409	0.2414	0.2390	0.2412	AVRG		4.25979		0.2348	5	15	0.05	0.99	
Chlorobenzene		0.8963	0.9837	0.9351	0.9911	0.9366	0.9191	0.9336	0.9658	AVRG		1.05803		0.9452	3	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.2922	0.3345	0.3102	0.3300	0.3175	0.3158	0.3144	0.3271	AVRG		3.14748		0.3177	4	15	0.05	0.99	
Ethylbenzene		1.5293	1.5810	1.4902	1.5964	1.4944	1.4485	1.5258	1.5992	AVRG		0.65227		1.5331	4	15	0.05	0.99	
m,p-Xylenes	0.6207	0.5946	0.6247	0.5982	0.6391	0.6072	0.5963	0.6397	0.6733	AVRG		1.60889		0.6215	4	15	0.05	0.99	
o-Xylene		0.5773	0.6170	0.5976	0.6393	0.5992	0.6014	0.6298	0.6559	AVRG		1.62687		0.6147	4	15	0.05	0.99	
Styrene		0.9373	1.0665	1.0294	1.1010	1.0593	1.0881	1.1229	1.1658	AVRG		0.93345		1.0713	6	15	0.05	0.99	
Bromoform		0.1745	0.2065	0.1951	0.2132	0.2115	0.2155	0.2161	0.2214	AVRG		4.83689		0.2067	7	15	0.10	0.99	
Isopropylbenzene		3.1204	3.3263	3.1408	3.3128	3.0648	2.8751	3.1025	3.2468	AVRG		0.31759		3.1487	5	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		0.8623	0.8860	0.8090	0.8350	0.7806	0.7639	0.7231	0.7048	AVRG		1.25694		0.7956	8	15	0.30	0.99	
1,2,3-Trichloropropane		0.8722	0.9855	0.8255	0.8585	0.8189	0.8023	0.7760	0.7597	AVRG		1.19426		0.8373	8	15	0.05	0.99	
Propylbenzene		3.4867	3.5722	3.4553	3.6182	3.4978	3.3125	3.6548	3.8498	AVRG		0.28122		3.5559	4	15	0.05	0.99	
Bromobenzene		0.8958	0.8919	0.8417	0.8937	0.8479	0.8449	0.8728	0.9018	AVRG		1.14442		0.8738	3	15	0.05	0.99	
1,3,5-Trimethylbenzene		2.5258	2.6346	2.3824	2.4854	2.4435	2.3423	2.5623	2.7409	AVRG		0.39767		2.5146	5	15	0.05	0.99	
2-Chlorotoluene		2.8320	2.8334	2.6622	2.7804	2.6110	2.5236	2.6492	2.7109	AVRG		0.37032		2.7003	4	15	0.05	0.99	
4-Chlorotoluene		2.4659	2.5744	2.4720	2.5236	2.3934	2.2942	2.3697	2.4083	AVRG		0.41023		2.4377	4	15	0.05	0.99	
tert-Butylbenzene		1.8648	2.0741	1.9163	2.0014	1.9886	1.8050	2.0384	2.2082	AVRG		0.50325		1.9871	6	15	0.05	0.99	
1,2,4-Trimethylbenzene		2.4837	2.5084	2.2455	2.2674	2.2543	2.2017	2.3702	2.4998	AVRG		0.42483		2.3539	5	15	0.05	0.99	
sec-Butylbenzene		2.4398	2.7860	2.5334	2.7010	2.7191	2.4351	2.8352	3.1609	AVRG		0.37019		2.7013	9	15	0.05	0.99	
para-Isopropyl Toluene		2.1498	2.1870	1.9838	2.0802	2.1853	1.9837	2.3069	2.5694	AVRG		0.45855		2.1808	9	15	0.05	0.99	
1,3-Dichlorobenzene		1.5332	1.6315	1.5653	1.6076	1.5411	1.4745	1.5414	1.5706	AVRG		0.64178		1.5582	3	15	0.05	0.99	
1,4-Dichlorobenzene		1.5387	1.7011	1.6091	1.6500	1.5761	1.5472	1.6076	1.6409	AVRG		0.62156		1.6088	3	15	0.05	0.99	
n-Butylbenzene		1.7105	1.8751	1.5914	1.6389	1.6932	1.4889	1.7547	1.9732	AVRG		0.58284		1.7157	9	15	0.05	0.99	
1,2-Dichlorobenzene		1.4059	1.6048	1.5176	1.5809	1.4943	1.4377	1.4707	1.4965	AVRG		0.66621		1.5010	4	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.2235m	0.1806m	0.1703	0.1717	0.1615	0.1516	0.1451		QUAD	-0.1965	5.93482	0.089968	0.1720	1.000	15	0.05	0.99	
1,2,4-Trichlorobenzene		0.8986	0.9654	0.8529	0.8260	0.8296	0.7120	0.7353	0.7751	AVRG		1.21307		0.8244	10	15	0.05	0.99	
Hexachlorobutadiene		0.2642	0.3124	0.2237	0.2586	0.2923	0.2120	0.2651	0.3154	AVRG		3.73192		0.2680	14	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene		2.4043	2.5946	2.3927	2.4635	2.3399	2.0233	1.9343	1.9361	AVRG		0.44226		2.2611	11	15	0.05	0.99	
1,2,3-Trichlorobenzene		0.8219	0.9197	0.8022	0.7963	0.7913	0.6801	0.6973	0.7331	AVRG		1.28166		0.7802	10	15	0.05	0.99	
Dibromofluoromethane		0.4213	0.4239	0.4268	0.4206	0.4217	0.4199	0.4197	0.4184	AVRG		2.37229		0.4215	1	15	0.05	0.99	
1,2-Dichloroethane-d4		0.3326	0.3322	0.3286	0.3319	0.3286	0.3238	0.3263	0.3210	AVRG		3.04781		0.3281	1	15	0.05	0.99	
Toluene-d8		1.1689	1.1622	1.1533	1.1653	1.1702	1.1652	1.1697	1.1635	AVRG		0.85852		1.1648	0	15	0.05	0.99	
Bromofluorobenzene		1.1564	1.1359	1.1302	1.1284	1.0929	1.0991	1.0911	1.0727	AVRG		0.89821		1.1133	3	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Freon 12			1.000	13	2.000	-20	5.000	-19	10.00	-4	20.00	21	50.00	-7	75.00	1		
Chloromethane			1.000	8	2.000	5	5.000	1	10.00	-1	20.00	-2	50.00	-3	75.00	-5	100.0	-2
Vinyl Chloride	0.500	3	1.000	2	2.000	3	5.000	-13	10.00	9	20.00	5	50.00	-2	75.00	-5	100.0	0
Bromomethane			1.000	-5	2.000	-10	5.000	-23	10.00	-8	20.00	1	50.00	15	75.00	10	100.0	20
Chloroethane			1.000	5	2.000	4	5.000	-3	10.00	5	20.00	2	50.00	-1	75.00	-8	100.0	-5
Trichlorofluoromethane			1.000	-6	2.000	-6	5.000	-21	10.00	11	20.00	12	50.00	-5	75.00	0	100.0	13
Acetone					2.000	21	5.000	-1	10.00	4	20.00	0	50.00	-8	75.00	-7	100.0	-8
1,1-Dichloroethene			0.500	-8	2.000	-2	5.000	-2	10.00	6	20.00	1	50.00	-3	75.00	1	100.0	7
Iodomethane					2.000	-18	5.000	-13	10.00	-2	20.00	3	50.00	14	75.00	6	100.0	11
Methylene Chloride					2.000	5	5.000	4	10.00	1	20.00	1	50.00	-3	75.00	-5	100.0	-3
Carbon Disulfide			0.500	-7	2.000	-1	5.000	-1	10.00	5	20.00	2	50.00	-3	75.00	0	100.0	4
MTBE			0.500	0	2.000	2	5.000	-1	10.00	2	20.00	1	50.00	0	75.00	-3	100.0	-2
trans-1,2-Dichloroethene			0.500	6	2.000	-4	5.000	-1	10.00	2	20.00	0	50.00	-4	75.00	-1	100.0	2
Vinyl Acetate					2.000	5	5.000	1	10.00	-2	20.00	1	50.00	7	75.00	-5	100.0	-6
1,1-Dichloroethane			0.500	-2	2.000	1	5.000	2	10.00	3	20.00	2	50.00	-2	75.00	-3	100.0	-1
2-Butanone					2.000	7	5.000	-2	10.00	3	20.00	2	50.00	-2	75.00	-3	100.0	-5
2,2-Dichloropropane			0.500	8	2.000	0	5.000	-1	10.00	6	20.00	-1	50.00	-6	75.00	-4	100.0	-2
cis-1,2-Dichloroethene			0.500	15	2.000	-1	5.000	-1	10.00	-1	20.00	-3	50.00	-4	75.00	-4	100.0	-1
Chloroform			0.500	7	2.000	1	5.000	-1	10.00	1	20.00	0	50.00	-2	75.00	-4	100.0	-1
Bromochloromethane			0.500	-11	2.000	-5	5.000	-2	10.00	1	20.00	3	50.00	3	75.00	5	100.0	6
1,1,1-Trichloroethane			0.500	0	2.000	0	5.000	-1	10.00	6	20.00	0	50.00	-6	75.00	-2	100.0	3
1,1-Dichloropropene			0.500	-4	2.000	-2	5.000	-3	10.00	8	20.00	0	50.00	-7	75.00	1	100.0	6
Carbon Tetrachloride			0.500	-9	2.000	-4	5.000	-3	10.00	9	20.00	0	50.00	-6	75.00	2	100.0	10
1,2-Dichloroethane			0.500	-7	2.000	2	5.000	3	10.00	4	20.00	2	50.00	0	75.00	-2	100.0	-1
Benzene			0.500	-1	2.000	2	5.000	-1	10.00	2	20.00	0	50.00	-3	75.00	-1	100.0	2
Trichloroethene			0.500	-4	2.000	2	5.000	-3	10.00	4	20.00	0	50.00	-4	75.00	1	100.0	5
1,2-Dichloropropane			0.500	1	2.000	3	5.000	1	10.00	4	20.00	-1	50.00	-3	75.00	-4	100.0	-1
Bromodichloromethane			0.500	1	2.000	-1	5.000	-2	10.00	3	20.00	1	50.00	0	75.00	-1	100.0	0
Dibromomethane			0.500	1	2.000	2	5.000	-2	10.00	2	20.00	1	50.00	-1	75.00	-1	100.0	0
4-Methyl-2-Pentanone			0.500	1	2.000	3	5.000	-1	10.00	2	20.00	0	50.00	0	75.00	-1	100.0	-3
cis-1,3-Dichloropropene			0.500	-4	2.000	3	5.000	0	10.00	2	20.00	1	50.00	-1	75.00	-2	100.0	0
Toluene			0.500	-3	2.000	1	5.000	-1	10.00	4	20.00	-1	50.00	-3	75.00	0	100.0	3
trans-1,3-Dichloropropene			0.500	-1	2.000	0	5.000	-1	10.00	3	20.00	1	50.00	0	75.00	-1	100.0	0
1,1,2-Trichloroethane			0.500	7	2.000	1	5.000	-5	10.00	3	20.00	0	50.00	-3	75.00	-2	100.0	-2
2-Hexanone					2.000	8	5.000	-4	10.00	2	20.00	0	50.00	-2	75.00	-1	100.0	-3
1,3-Dichloropropane			0.500	-3	2.000	2	5.000	-1	10.00	5	20.00	2	50.00	-1	75.00	-3	100.0	-1
Tetrachloroethene			0.500	-13	2.000	1	5.000	-2	10.00	9	20.00	-1	50.00	-7	75.00	3	100.0	11
Dibromochloromethane			0.500	-10	2.000	1	5.000	-3	10.00	3	20.00	2	50.00	1	75.00	1	100.0	4
1,2-Dibromoethane			0.500	-12	2.000	0	5.000	-1	10.00	4	20.00	3	50.00	3	75.00	2	100.0	3
Chlorobenzene			0.500	-5	2.000	4	5.000	-1	10.00	5	20.00	-1	50.00	-3	75.00	-1	100.0	2
1,1,1,2-Tetrachloroethane			0.500	-8	2.000	5	5.000	-2	10.00	4	20.00	0	50.00	-1	75.00	-1	100.0	3
Ethylbenzene			0.500	0	2.000	3	5.000	-3	10.00	4	20.00	-3	50.00	-6	75.00	0	100.0	4

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
m,p-Xylenes	0.500	0	1.000	-4	4.000	0	10.00	-4	20.00	3	40.00	-2	100.0	-4	150.0	3	200.0	8
o-Xylene			0.500	-6	2.000	0	5.000	-3	10.00	4	20.00	-3	50.00	-2	75.00	2	100.0	7
Styrene			0.500	-13	2.000	0	5.000	-4	10.00	3	20.00	-1	50.00	2	75.00	5	100.0	9
Bromoform			0.500	-16	2.000	0	5.000	-6	10.00	3	20.00	2	50.00	4	75.00	5	100.0	7
Isopropylbenzene			0.500	-1	2.000	6	5.000	0	10.00	5	20.00	-3	50.00	-9	75.00	-1	100.0	3
1,1,2,2-Tetrachloroethane			0.500	8	2.000	11	5.000	2	10.00	5	20.00	-2	50.00	-4	75.00	-9	100.0	-11
1,2,3-Trichloropropane			0.500	4	2.000	18	5.000	-1	10.00	3	20.00	-2	50.00	-4	75.00	-7	100.0	-9
Propylbenzene			0.500	-2	2.000	0	5.000	-3	10.00	2	20.00	-2	50.00	-7	75.00	3	100.0	8
Bromobenzene			0.500	3	2.000	2	5.000	-4	10.00	2	20.00	-3	50.00	-3	75.00	0	100.0	3
1,3,5-Trimethylbenzene			0.500	0	2.000	5	5.000	-5	10.00	-1	20.00	-3	50.00	-7	75.00	2	100.0	9
2-Chlorotoluene			0.500	5	2.000	5	5.000	-1	10.00	3	20.00	-3	50.00	-7	75.00	-2	100.0	0
4-Chlorotoluene			0.500	1	2.000	6	5.000	1	10.00	4	20.00	-2	50.00	-6	75.00	-3	100.0	-1
tert-Butylbenzene			0.500	-6	2.000	4	5.000	-4	10.00	1	20.00	0	50.00	-9	75.00	3	100.0	11
1,2,4-Trimethylbenzene			0.500	6	2.000	7	5.000	-5	10.00	-4	20.00	-4	50.00	-6	75.00	1	100.0	6
sec-Butylbenzene			0.500	-10	2.000	3	5.000	-6	10.00	0	20.00	1	50.00	-10	75.00	5	100.0	17
para-Isopropyl Toluene			0.500	-1	2.000	0	5.000	-9	10.00	-5	20.00	0	50.00	-9	75.00	6	100.0	18
1,3-Dichlorobenzene			0.500	-2	2.000	5	5.000	0	10.00	3	20.00	-1	50.00	-5	75.00	-1	100.0	1
1,4-Dichlorobenzene			0.500	-4	2.000	6	5.000	0	10.00	3	20.00	-2	50.00	-4	75.00	0	100.0	2
n-Butylbenzene			0.500	0	2.000	9	5.000	-7	10.00	-4	20.00	-1	50.00	-13	75.00	2	100.0	15
1,2-Dichlorobenzene			0.500	-6	2.000	7	5.000	1	10.00	5	20.00	0	50.00	-4	75.00	-2	100.0	0
1,2-Dibromo-3-Chloropropane			0.500	-6	2.000	-2	5.000	-2	10.00	3	20.00	0	50.00	0	75.00	0		
1,2,4-Trichlorobenzene			0.500	9	2.000	17	5.000	3	10.00	0	20.00	1	50.00	-14	75.00	-11	100.0	-6
Hexachlorobutadiene			0.500	-1	2.000	17	5.000	-17	10.00	-4	20.00	9	50.00	-21	75.00	-1	100.0	18
Naphthalene			0.500	6	2.000	15	5.000	6	10.00	9	20.00	3	50.00	-11	75.00	-14	100.0	-14
1,2,3-Trichlorobenzene			0.500	5	2.000	18	5.000	3	10.00	2	20.00	1	50.00	-13	75.00	-11	100.0	-6
Dibromofluoromethane			50.00	0	50.00	1	50.00	1	50.00	0	50.00	0	50.00	0	50.00	0	50.00	-1
1,2-Dichloroethane-d4			50.00	1	50.00	1	50.00	0	50.00	1	50.00	0	50.00	-1	50.00	-1	50.00	-2
Toluene-d8			50.00	0	50.00	0	50.00	-1	50.00	0	50.00	0	50.00	0	50.00	0	50.00	0
Bromofluorobenzene			50.00	4	50.00	2	50.00	2	50.00	1	50.00	-2	50.00	-1	50.00	-2	50.00	-4

ACM 11/20/08 : All manual integrations done to correct baseline noise. Integrations by SJD.

Analyst: SJD Date: 11/19/08 Reviewer: LW Date: 11/20/08

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; QUAD=Quadratic regression

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 208576 MSVOA Water
EPA 8260B

Inst : MSVOA11 Name : 8260GX11
Calnum : 838465788001 Cal Date : 18-NOV-2008 Type : WATER

ICV 838465788025 (kke25 18-NOV-2008) stds: S10631 (10000X), S10764 (2500X)
ICV 838465788026 (kke26 18-NOV-2008) stds: S10654 (10000X), S10533 (10000X), S10788 (10000X), S10764 (2500X)

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	838465788025	0.3815	0.4395	25.00	26.88	ug/L	8	25	
Chloromethane	838465788025	0.5062	0.4121	25.00	20.36	ug/L	-19	25	
Vinyl Chloride	838465788025	0.5269	0.5934	25.00	28.16	ug/L	13	25	
Bromomethane	838465788025	0.2030	0.2034	25.00	25.05	ug/L	0	25	
Chloroethane	838465788025	0.3199	0.3052	25.00	23.85	ug/L	-5	25	
Trichlorofluoromethane	838465788025	0.5250	0.5698	25.00	27.14	ug/L	9	25	
Acetone	838465788026	0.1887	0.1845	25.00	24.44	ug/L	-2	25	
1,1-Dichloroethene	838465788026	0.3256	0.3628	25.00	27.86	ug/L	11	25	
Iodomethane	838465788026	0.3054	0.2678	25.00	21.93	ug/L	-12	25	
Methylene Chloride	838465788026	0.4279	0.4442	25.00	25.95	ug/L	4	25	
Carbon Disulfide	838465788026	1.2287	1.2655	25.00	25.75	ug/L	3	25	
MTBE	838465788026	1.3994	1.2491	25.00	22.31	ug/L	-11	25	
trans-1,2-Dichloroethene	838465788026	0.4107	0.4328	25.00	26.35	ug/L	5	25	
Vinyl Acetate	838465788026	0.8802	0.5687	25.00	16.15	ug/L	**-35**	25	v- ***
1,1-Dichloroethane	838465788026	0.7525	0.7826	25.00	26.00	ug/L	4	25	
2-Butanone	838465788026	0.1891	0.1810	25.00	23.93	ug/L	-4	25	
2,2-Dichloropropane	838465788026	0.5679	0.5826	25.00	25.65	ug/L	3	25	
cis-1,2-Dichloroethene	838465788026	0.4746	0.4862	25.00	25.61	ug/L	2	25	
Chloroform	838465788026	0.7197	0.7173	25.00	24.92	ug/L	0	25	
Bromochloromethane	838465788026	0.2169	0.2279	25.00	26.26	ug/L	5	25	
1,1,1-Trichloroethane	838465788026	0.5466	0.6065	25.00	27.74	ug/L	11	25	
1,1-Dichloropropene	838465788026	0.3239	0.3700	25.00	28.55	ug/L	14	25	
Carbon Tetrachloride	838465788026	0.2732	0.3262	25.00	29.85	ug/L	19	25	
1,2-Dichloroethane	838465788026	0.3541	0.3578	25.00	25.26	ug/L	1	25	
Benzene	838465788026	1.1564	1.1831	25.00	25.58	ug/L	2	25	
Trichloroethene	838465788026	0.2630	0.2902	25.00	27.59	ug/L	10	25	
1,2-Dichloropropane	838465788026	0.2932	0.2955	25.00	25.20	ug/L	1	25	
Bromodichloromethane	838465788026	0.3553	0.3763	25.00	26.48	ug/L	6	25	
Dibromomethane	838465788026	0.1570	0.1608	25.00	25.62	ug/L	2	25	
4-Methyl-2-Pentanone	838465788026	0.2464	0.2365	25.00	24.00	ug/L	-4	25	
cis-1,3-Dichloropropene	838465788026	0.4691	0.4669	25.00	24.88	ug/L	0	25	
Toluene	838465788026	0.6981	0.7418	25.00	26.56	ug/L	6	25	
trans-1,3-Dichloropropene	838465788026	0.4370	0.3939	25.00	22.53	ug/L	-10	25	
1,1,2-Trichloroethane	838465788026	0.1303	0.1350	25.00	25.90	ug/L	4	25	
2-Hexanone	838465788026	0.2188	0.2110	25.00	24.11	ug/L	-4	25	
1,3-Dichloropropane	838465788026	0.5548	0.5728	25.00	25.81	ug/L	3	25	
Tetrachloroethene	838465788026	0.2886	0.3441	25.00	29.81	ug/L	19	25	
Dibromochloromethane	838465788026	0.3274	0.3379	25.00	25.80	ug/L	3	25	
1,2-Dibromoethane	838465788026	0.2348	0.2482	25.00	26.44	ug/L	6	25	
Chlorobenzene	838465788026	0.9452	0.9545	25.00	25.25	ug/L	1	25	
1,1,1,2-Tetrachloroethane	838465788026	0.3177	0.3336	25.00	26.25	ug/L	5	25	
Ethylbenzene	838465788026	1.5331	1.6527	25.00	26.95	ug/L	8	25	
m,p-Xylenes	838465788026	0.6215	0.6643	50.00	53.44	ug/L	7	25	
o-Xylene	838465788026	0.6147	0.6370	25.00	25.91	ug/L	4	25	
Styrene	838465788026	1.0713	1.1031	25.00	25.74	ug/L	3	25	
Bromoform	838465788026	0.2067	0.2213	25.00	26.76	ug/L	7	25	
Isopropylbenzene	838465788026	3.1487	3.0922	25.00	24.55	ug/L	-2	25	

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	838465788026	0.7956	0.7676	25.00	24.12	ug/L	-4	25	
1,2,3-Trichloropropane	838465788026	0.8373	0.8400	25.00	25.08	ug/L	0	25	
Propylbenzene	838465788026	3.5559	3.9261	25.00	27.60	ug/L	10	25	
Bromobenzene	838465788026	0.8738	0.8960	25.00	25.63	ug/L	3	25	
1,3,5-Trimethylbenzene	838465788026	2.5146	2.7484	25.00	27.32	ug/L	9	25	
2-Chlorotoluene	838465788026	2.7003	2.8015	25.00	25.94	ug/L	4	25	
4-Chlorotoluene	838465788026	2.4377	2.5248	25.00	25.89	ug/L	4	25	
tert-Butylbenzene	838465788026	1.9871	2.2783	25.00	28.66	ug/L	15	25	
1,2,4-Trimethylbenzene	838465788026	2.3539	2.6135	25.00	27.76	ug/L	11	25	
sec-Butylbenzene	838465788026	2.7013	3.2162	25.00	29.77	ug/L	19	25	
para-Isopropyl Toluene	838465788026	2.1808	2.4776	25.00	28.40	ug/L	14	25	
1,3-Dichlorobenzene	838465788026	1.5582	1.5855	25.00	25.44	ug/L	2	25	
1,4-Dichlorobenzene	838465788026	1.6088	1.6294	25.00	25.32	ug/L	1	25	
n-Butylbenzene	838465788026	1.7157	2.0248	25.00	29.50	ug/L	18	25	
1,2-Dichlorobenzene	838465788026	1.5010	1.5462	25.00	25.75	ug/L	3	25	
1,2-Dibromo-3-Chloropropane	838465788026	0.1720	0.1662	25.00	26.01	ug/L	4	25	
1,2,4-Trichlorobenzene	838465788026	0.8244	0.8725	25.00	26.46	ug/L	6	25	
Hexachlorobutadiene	838465788026	0.2680	0.3675	25.00	34.28	ug/L	**37**	25	v+ ***
Naphthalene	838465788026	2.2611	2.4195	25.00	26.75	ug/L	7	25	
1,2,3-Trichlorobenzene	838465788026	0.7802	0.8408	25.00	26.94	ug/L	8	25	

+=high bias -=low bias v=ICV

CURTIS & TOMPKINS SPIKE USER REPORT FOR 208576 MSVOA Water
EPA 8260B

Inst : MSVOA11 Run Name : QC476540 IDF : 1.0
Seqnum : 838510210003.4 File : klj03 Time : 19-DEC-2008 10:47
Cal : 838465788001 Caldate : 18-NOV-2008 Caltype : WATER
Standards: S10844 (10000X), S10654 (10000X), S10798 (10000X), S10985 (10000X), S10764 (2500X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.3815	0.2965	25.00	18.27	ug/L	**-27**	20	0.0500	c- m u ***
Chloromethane	0.5062	0.4214	25.00	20.81	ug/L	-17	20	0.1000	u
Vinyl Chloride	0.5269	0.4195	25.00	19.91	ug/L	-20	20	0.0500	u
Bromomethane	0.2030	0.2258	25.00	27.81	ug/L	11	20	0.0500	u
Chloroethane	0.3199	0.2758	25.00	21.56	ug/L	-14	20	0.0500	u
Trichlorofluoromethane	0.5250	0.5741	25.00	27.34	ug/L	9	20	0.0500	u
Iodomethane	0.3054	0.3298	25.00	27.00	ug/L	8	20	0.0500	u
Acetone	0.1887	0.1861	25.00	24.66	ug/L	-1	20	0.0500	u
1,1-Dichloroethene	0.3256	0.3684	25.00	28.29	ug/L	13	20	0.0500	u
Methylene Chloride	0.4279	0.4871	25.00	28.46	ug/L	14	20	0.0500	u
Carbon Disulfide	1.2287	1.2684	25.00	25.81	ug/L	3	20	0.0500	u
MTBE	1.3994	1.3846	25.00	24.74	ug/L	-1	20	0.0500	u
trans-1,2-Dichloroethene	0.4107	0.4481	25.00	27.28	ug/L	9	20	0.0500	u
Vinyl Acetate	0.8802	0.6510	25.00	18.49	ug/L	**-26**	20	0.0500	c- u v- ***
1,1-Dichloroethane	0.7525	0.8029	25.00	26.68	ug/L	7	20	0.1000	u
2-Butanone	0.1891	0.1718	25.00	22.71	ug/L	-9	20	0.0500	u
cis-1,2-Dichloroethene	0.4746	0.5151	25.00	27.14	ug/L	9	20	0.0500	u
2,2-Dichloropropane	0.5679	0.6960	25.00	30.64	ug/L	**23**	20	0.0500	c+ u ***
Chloroform	0.7197	0.8136	25.00	28.26	ug/L	13	20	0.0500	u
Bromochloromethane	0.2169	0.2487	25.00	28.66	ug/L	15	20	0.0500	u
1,1,1-Trichloroethane	0.5466	0.6981	25.00	31.93	ug/L	**28**	20	0.0500	c+ u ***
1,1-Dichloropropene	0.3239	0.3691	25.00	28.48	ug/L	14	20	0.0500	u
Carbon Tetrachloride	0.2732	0.3728	25.00	34.11	ug/L	**36**	20	0.0500	c+ u ***
1,2-Dichloroethane	0.3541	0.3945	25.00	27.85	ug/L	11	20	0.0500	u
Benzene	1.1564	1.1843	25.00	25.60	ug/L	2	20	0.0500	u
Trichloroethene	0.2630	0.3066	25.00	29.14	ug/L	17	20	0.0500	u
1,2-Dichloropropane	0.2932	0.3014	25.00	25.70	ug/L	3	20	0.0500	u
Bromodichloromethane	0.3553	0.4197	25.00	29.54	ug/L	18	20	0.0500	u
Dibromomethane	0.1570	0.1799	25.00	28.65	ug/L	15	20	0.0500	u
4-Methyl-2-Pentanone	0.2464	0.2311	25.00	23.45	ug/L	-6	20	0.0500	u
cis-1,3-Dichloropropene	0.4691	0.5096	25.00	27.15	ug/L	9	20	0.0500	u
Toluene	0.6981	0.7743	25.00	27.73	ug/L	11	20	0.0500	u
trans-1,3-Dichloropropene	0.4370	0.4356	25.00	24.92	ug/L	0	20	0.0500	u
1,1,2-Trichloroethane	0.1303	0.1525	25.00	29.24	ug/L	17	20	0.0500	u
2-Hexanone	0.2188	0.1678	25.00	19.17	ug/L	**-23**	20	0.0500	c- u ***
1,3-Dichloropropane	0.5548	0.5462	25.00	24.62	ug/L	-2	20	0.0500	u
Tetrachloroethene	0.2886	0.3215	25.00	27.85	ug/L	11	20	0.0500	u
Dibromochloromethane	0.3274	0.3314	25.00	25.30	ug/L	1	20	0.0500	u
1,2-Dibromoethane	0.2348	0.2946	25.00	31.38	ug/L	**26**	20	0.0500	c+ u ***
Chlorobenzene	0.9452	0.9030	25.00	23.89	ug/L	-4	20	0.3000	u
1,1,1,2-Tetrachloroethane	0.3177	0.3330	25.00	26.20	ug/L	5	20	0.0500	u
Ethylbenzene	1.5331	1.5647	25.00	25.51	ug/L	2	20	0.0500	u
m,p-Xylenes	0.6215	0.6039	50.00	48.58	ug/L	-3	20	0.0500	u
o-Xylene	0.6147	0.5916	25.00	24.06	ug/L	-4	20	0.0500	u
Styrene	1.0713	1.0132	25.00	23.64	ug/L	-5	20	0.0500	u
Bromoform	0.2067	0.2311	25.00	27.95	ug/L	12	20	0.1000	u
Isopropylbenzene	3.1487	2.7037	25.00	21.47	ug/L	-14	20	0.0500	u

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	0.7956	0.7302	25.00	22.95	ug/L	-8	20	0.3000	u
1,2,3-Trichloropropane	0.8373	0.7687	25.00	22.95	ug/L	-8	20	0.0500	u
Propylbenzene	3.5559	3.3094	25.00	23.27	ug/L	-7	20	0.0500	u
Bromobenzene	0.8738	0.8111	25.00	23.21	ug/L	-7	20	0.0500	u
1,3,5-Trimethylbenzene	2.5146	2.2621	25.00	22.49	ug/L	-10	20	0.0500	u
2-Chlorotoluene	2.7003	2.4764	25.00	22.93	ug/L	-8	20	0.0500	u
4-Chlorotoluene	2.4377	2.2129	25.00	22.69	ug/L	-9	20	0.0500	u
tert-Butylbenzene	1.9871	1.8919	25.00	23.80	ug/L	-5	20	0.0500	u
1,2,4-Trimethylbenzene	2.3539	2.0790	25.00	22.08	ug/L	-12	20	0.0500	u
sec-Butylbenzene	2.7013	2.5814	25.00	23.89	ug/L	-4	20	0.0500	u
para-Isopropyl Toluene	2.1808	1.9604	25.00	22.47	ug/L	-10	20	0.0500	u
1,3-Dichlorobenzene	1.5582	1.4577	25.00	23.39	ug/L	-6	20	0.0500	u
1,4-Dichlorobenzene	1.6088	1.4657	25.00	22.78	ug/L	-9	20	0.0500	u
n-Butylbenzene	1.7157	1.6414	25.00	23.92	ug/L	-4	20	0.0500	u
1,2-Dichlorobenzene	1.5010	1.4155	25.00	23.58	ug/L	-6	20	0.0500	u
1,2-Dibromo-3-Chloropropane	0.1720	0.1388	25.00	21.49	ug/L	-14	20	0.0500	u
1,2,4-Trichlorobenzene	0.8244	0.7981	25.00	24.20	ug/L	-3	20	0.0500	u
Hexachlorobutadiene	0.2680	0.3919	25.00	36.56	ug/L	**46**	20	0.0500	c+ u v+ ***
Naphthalene	2.2611	1.9793	25.00	21.88	ug/L	-12	20	0.0500	u
1,2,3-Trichlorobenzene	0.7802	0.7740	25.00	24.80	ug/L	-1	20	0.0500	u
Dibromofluoromethane	0.4215	0.4483	50.00	53.18	ug/L	6	20	0.0500	u
1,2-Dichloroethane-d4	0.3281	0.3309	50.00	50.42	ug/L	1	20	0.0500	u
Toluene-d8	1.1648	1.1619	50.00	49.88	ug/L	0	20	0.0500	u
Bromofluorobenzene	1.1133	1.0555	50.00	47.40	ug/L	-5	20	0.0500	u

ISTD (ICAL kke22)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	857785	702171	-18.14	9.71	9.71	0.00
1,4-Difluorobenzene	1338370	1119657	-16.34	10.77	10.77	0.00
Chlorobenzene-d5	1081801	1082774	0.09	14.32	14.32	0.00
1,4-Dichlorobenzene-d4	483101	536856	11.13	16.76	16.76	0.01

ACM 12/19/08 [Freon 12]: Combined split peak for spike. [general version]

5% spike rule

Analyst: TEW Date: 12/23/08 Reviewer: CW Date: 12/23/08

+=high bias -=low bias c=CCV m=manual integration u=use v=ICV

CURTIS & TOMPKINS SPIKE USER REPORT FOR 208576 MSVOA Water
EPA 8260B

Inst : MSVOA11 Run Name : QC476706 IDF : 1.0
Seqnum : 838512084008.1 File : klk08 Time : 20-DEC-2008 17:35
Cal : 838465788001 Caldate : 18-NOV-2008 Caltype : WATER
Standards: S11013 (12500X), S10935 (12500X), S10798 (12500X), S10985 (12500X), S10764 (2500X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.3815	0.3079	20.00	15.24	ug/L	**-24**	20	0.0500	c- u ***
Chloromethane	0.5062	0.3803	20.00	15.03	ug/L	**-25**	20	0.1000	c- u ***
Vinyl Chloride	0.5269	0.4568	20.00	17.34	ug/L	-13	20	0.0500	u
Bromomethane	0.2030	0.2433	20.00	23.97	ug/L	20	20	0.0500	u
Chloroethane	0.3199	0.3014	20.00	18.85	ug/L	-6	20	0.0500	u
Trichlorofluoromethane	0.5250	0.6084	20.00	23.18	ug/L	16	20	0.0500	u
Iodomethane	0.3054	0.3333	20.00	21.83	ug/L	9	20	0.0500	u
Acetone	0.1887	0.1844	20.00	19.54	ug/L	-2	20	0.0500	u
1,1-Dichloroethene	0.3256	0.3740	20.00	22.98	ug/L	15	20	0.0500	u
Methylene Chloride	0.4279	0.4757	20.00	22.24	ug/L	11	20	0.0500	u
Carbon Disulfide	1.2287	1.2674	20.00	20.63	ug/L	3	20	0.0500	u
MTBE	1.3994	1.3294	20.00	19.00	ug/L	-5	20	0.0500	u
trans-1,2-Dichloroethene	0.4107	0.4510	20.00	21.96	ug/L	10	20	0.0500	u
Vinyl Acetate	0.8802	0.6284	20.00	14.28	ug/L	**-29**	20	0.0500	c- u v- ***
1,1-Dichloroethane	0.7525	0.8020	20.00	21.32	ug/L	7	20	0.1000	u
2-Butanone	0.1891	0.1671	20.00	17.67	ug/L	-12	20	0.0500	u
cis-1,2-Dichloroethene	0.4746	0.5100	20.00	21.49	ug/L	7	20	0.0500	u
2,2-Dichloropropane	0.5679	0.7031	20.00	24.76	ug/L	**24**	20	0.0500	c+ u ***
Chloroform	0.7197	0.8094	20.00	22.49	ug/L	12	20	0.0500	u
Bromochloromethane	0.2169	0.2429	20.00	22.40	ug/L	12	20	0.0500	u
1,1,1-Trichloroethane	0.5466	0.7114	20.00	26.03	ug/L	**30**	20	0.0500	c+ u ***
1,1-Dichloropropene	0.3239	0.3814	20.00	23.55	ug/L	18	20	0.0500	u
Carbon Tetrachloride	0.2732	0.3864	20.00	28.29	ug/L	**41**	20	0.0500	c+ u ***
1,2-Dichloroethane	0.3541	0.3905	20.00	22.06	ug/L	10	20	0.0500	u
Benzene	1.1564	1.1804	20.00	20.41	ug/L	2	20	0.0500	u
Trichloroethene	0.2630	0.3069	20.00	23.34	ug/L	17	20	0.0500	u
1,2-Dichloropropane	0.2932	0.2978	20.00	20.32	ug/L	2	20	0.0500	u
Bromodichloromethane	0.3553	0.4115	20.00	23.17	ug/L	16	20	0.0500	u
Dibromomethane	0.1570	0.1750	20.00	22.30	ug/L	12	20	0.0500	u
4-Methyl-2-Pentanone	0.2464	0.2133	20.00	17.32	ug/L	-13	20	0.0500	u
cis-1,3-Dichloropropene	0.4691	0.4952	20.00	21.11	ug/L	6	20	0.0500	u
Toluene	0.6981	0.7809	20.00	22.37	ug/L	12	20	0.0500	u
trans-1,3-Dichloropropene	0.4370	0.4245	20.00	19.43	ug/L	-3	20	0.0500	u
1,1,2-Trichloroethane	0.1303	0.1460	20.00	22.40	ug/L	12	20	0.0500	u
2-Hexanone	0.2188	0.1538	20.00	14.06	ug/L	**-30**	20	0.0500	c- u ***
1,3-Dichloropropane	0.5548	0.5387	20.00	19.42	ug/L	-3	20	0.0500	u
Tetrachloroethene	0.2886	0.3360	20.00	23.29	ug/L	16	20	0.0500	u
Dibromochloromethane	0.3274	0.3332	20.00	20.35	ug/L	2	20	0.0500	u
1,2-Dibromoethane	0.2348	0.2805	20.00	23.90	ug/L	20	20	0.0500	u
Chlorobenzene	0.9452	0.9144	20.00	19.35	ug/L	-3	20	0.3000	u
1,1,1,2-Tetrachloroethane	0.3177	0.3333	20.00	20.98	ug/L	5	20	0.0500	u
Ethylbenzene	1.5331	1.6030	20.00	20.91	ug/L	5	20	0.0500	u
m,p-Xylenes	0.6215	0.6157	40.00	39.62	ug/L	-1	20	0.0500	u
o-Xylene	0.6147	0.5913	20.00	19.24	ug/L	-4	20	0.0500	u
Styrene	1.0713	1.0059	20.00	18.78	ug/L	-6	20	0.0500	u
Bromoform	0.2067	0.2246	20.00	21.72	ug/L	9	20	0.1000	u
Isopropylbenzene	3.1487	2.8451	20.00	18.07	ug/L	-10	20	0.0500	u

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	0.7956	0.7304	20.00	18.36	ug/L	-8	20	0.3000	u
1,2,3-Trichloropropane	0.8373	0.7733	20.00	18.47	ug/L	-8	20	0.0500	u
Propylbenzene	3.5559	3.4199	20.00	19.24	ug/L	-4	20	0.0500	u
Bromobenzene	0.8738	0.8555	20.00	19.58	ug/L	-2	20	0.0500	u
1,3,5-Trimethylbenzene	2.5146	2.3694	20.00	18.85	ug/L	-6	20	0.0500	u
2-Chlorotoluene	2.7003	2.5700	20.00	19.03	ug/L	-5	20	0.0500	u
4-Chlorotoluene	2.4377	2.2677	20.00	18.61	ug/L	-7	20	0.0500	u
tert-Butylbenzene	1.9871	1.9919	20.00	20.05	ug/L	0	20	0.0500	u
1,2,4-Trimethylbenzene	2.3539	2.1860	20.00	18.57	ug/L	-7	20	0.0500	u
sec-Butylbenzene	2.7013	2.7251	20.00	20.18	ug/L	1	20	0.0500	u
para-Isopropyl Toluene	2.1808	2.0642	20.00	18.93	ug/L	-5	20	0.0500	u
1,3-Dichlorobenzene	1.5582	1.5084	20.00	19.36	ug/L	-3	20	0.0500	u
1,4-Dichlorobenzene	1.6088	1.4739	20.00	18.32	ug/L	-8	20	0.0500	u
n-Butylbenzene	1.7157	1.7276	20.00	20.14	ug/L	1	20	0.0500	u
1,2-Dichlorobenzene	1.5010	1.4574	20.00	19.42	ug/L	-3	20	0.0500	u
1,2-Dibromo-3-Chloropropane	0.1720	0.1351	20.00	16.49	ug/L	-18	20	0.0500	u
1,2,4-Trichlorobenzene	0.8244	0.7831	20.00	19.00	ug/L	-5	20	0.0500	u
Hexachlorobutadiene	0.2680	0.3997	20.00	29.83	ug/L	**49**	20	0.0500	c+ u v+ ***
Naphthalene	2.2611	1.9325	20.00	17.09	ug/L	-15	20	0.0500	u
1,2,3-Trichlorobenzene	0.7802	0.7477	20.00	19.17	ug/L	-4	20	0.0500	u
Dibromofluoromethane	0.4215	0.4479	50.00	53.13	ug/L	6	20	0.0500	u
1,2-Dichloroethane-d4	0.3281	0.3306	50.00	50.38	ug/L	1	20	0.0500	u
Toluene-d8	1.1648	1.1857	50.00	50.90	ug/L	2	20	0.0500	u
Bromofluorobenzene	1.1133	1.0631	50.00	47.74	ug/L	-5	20	0.0500	u

ISTD (ICAL kke22)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	857785	777791	-9.33	9.71	9.71	0.00
1,4-Difluorobenzene	1338370	1231406	-7.99	10.77	10.77	0.00
Chlorobenzene-d5	1081801	1172851	8.42	14.32	14.32	0.00
1,4-Dichlorobenzene-d4	483101	561066	16.14	16.76	16.75	-0.01

Analyst: TEW Date: 12/23/08 Reviewer: CW Date: 12/23/08

+=high bias -=low bias c=CCV u=use v=ICV

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 838510210

Date : 12/19/08 Reference : kke22
Sequence : MSVOA11 klj Analyzed : 11/18/08 21:04

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	857785	9.71	1338370	10.77	1081801	14.32	483101	16.76
		LOWER LIMIT	428893	9.21	669185	10.27	540901	13.82	241551	16.26
		UPPER LIMIT	1715570	10.21	2676740	11.27	2163602	14.82	966202	17.26
003	CCV/LCS	QC476540	702171	9.71	1119657	10.77	1082774	14.32	536856	16.76
005	BLANK	QC476541	693441	9.71	1126438	10.77	1061509	14.32	434787	16.75
006	SAMPLE	208576-001	673707	9.71	1089200	10.77	1035907	14.32	428949	16.75
007	MSS	208575-007	668557	9.71	1082923	10.77	1029107	14.31	433929	16.75
008	SAMPLE	208610-010	666329	9.71	1067848	10.77	1017625	14.31	427803	16.76
009	SAMPLE	208601-001	669201	9.71	1081551	10.76	1017448	14.31	411040	16.75
010	SAMPLE	208443-001	656532	9.71	1064943	10.76	1014177	14.32	405310	16.75
011	SAMPLE	208443-003	652150	9.71	1050725	10.76	993420	14.31	401602	16.75
012	SAMPLE	208599-012	638029	9.71	1041862	10.76	979638	14.31	403962	16.76
013	SAMPLE	208599-013	635121	9.71	1014793	10.76	962225	14.31	397071	16.75
014	SAMPLE	208443-001	633141	9.71	1018572	10.77	966376	14.31	382792	16.75
015	SAMPLE	208443-003	629464	9.71	1020980	10.77	958782	14.31	385358	16.75
016	SAMPLE	208576-002	621012	9.71	1007511	10.76	950336	14.31	384311	16.75
017	SAMPLE	208576-003	623202	9.71	1005558	10.76	946145	14.31	374296	16.75
018	SAMPLE	208576-004	618855	9.71	999847	10.77	953414	14.32	395102	16.75
019	SAMPLE	208576-005	640821	9.71	1027073	10.77	985813	14.31	413513	16.75
020	SAMPLE	208576-006	675481	9.71	1069105	10.76	1022742	14.32	416900	16.75
021	SAMPLE	208576-007	674236	9.71	1084752	10.77	1013869	14.32	408038	16.75
022	SAMPLE	208576-008	656719	9.71	1047038	10.77	989589	14.32	393886	16.75
023	SAMPLE	208576-009	651246	9.71	1045045	10.77	994768	14.31	409222	16.75
024	SAMPLE	208599-017	641439	9.71	1023855	10.76	974478	14.31	389661	16.75
025	SAMPLE	208599-020	637180	9.71	1020637	10.76	953947	14.31	391382	16.75
026	MS	QC476559	645695	9.71	1019951	10.76	980138	14.31	475778	16.75
027	MSD	QC476560	673159	9.71	1058674	10.77	1002440	14.32	492265	16.75

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 838512084

Date : 12/20/08 Reference : kke22
Sequence : MSVOA11 klk Analyzed : 11/18/08 21:04

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	857785	9.71	1338370	10.77	1081801	14.32	483101	16.76
		LOWER LIMIT	428893	9.21	669185	10.27	540901	13.82	241551	16.26
		UPPER LIMIT	1715570	10.21	2676740	11.27	2163602	14.82	966202	17.26
008	CCV/LCS	QC476706	777791	9.71	1231406	10.77	1172851	14.32	561066	16.75
010	BLANK	QC476707	754450	9.71	1202014	10.76	1140240	14.31	469828	16.75
011	SAMPLE	208778-001	739810	9.71	1182486	10.77	1124304	14.32	460080	16.75
012	SAMPLE	208778-002	742347	9.71	1185084	10.76	1118423	14.32	458244	16.75
013	SAMPLE	208778-003	727767	9.71	1162471	10.77	1097557	14.32	453189	16.75
014	SAMPLE	208778-004	712806	9.71	1152286	10.77	1091720	14.32	446189	16.75
015	SAMPLE	208778-005	709417	9.71	1138472	10.77	1085820	14.31	442892	16.75
016	SAMPLE	208576-006	698540	9.71	1133508	10.77	1076425	14.32	423488	16.75
017	SAMPLE	208557-004	700079	9.71	1117797	10.76	1062845	14.32	425122	16.75
018	MSS	208557-006	694044	9.71	1120987	10.77	1062201	14.32	450502	16.75
019	SAMPLE	208557-008	708733	9.71	1129032	10.77	1064958	14.32	447577	16.75
020	SAMPLE	208698-001	688098	9.71	1105604	10.76	1050059	14.31	437786	16.75
021	SAMPLE	208636-003	649648	9.71	1053297	10.77	1014930	14.31	427099	16.75
022	SAMPLE	208709-005	664136	9.71	1073990	10.77	1025370	14.31	427702	16.75
023	SAMPLE	208709-006	661800	9.71	1063866	10.77	1003971	14.32	409172	16.75
024	SAMPLE	208709-007	653663	9.71	1047952	10.77	1000849	14.32	399188	16.75
025	SAMPLE	208709-002	648506	9.71	1042220	10.77	982579	14.32	405486	16.75
026	SAMPLE	208576-004	650864	9.71	1040989	10.77	990723	14.31	385263	16.75
027	SAMPLE	208576-005	654059	9.71	1049402	10.76	998473	14.32	402067	16.75
028	SAMPLE	208674-004	663192	9.71	1065081	10.77	1012884	14.31	412345	16.75
029	SAMPLE	208674-005	660615	9.71	1053956	10.77	1000361	14.31	402949	16.75
030	SAMPLE	208709-004	648532	9.71	1055075	10.77	1001236	14.31	410283	16.75
031	MS	QC476708	662445	9.71	1044786	10.77	1010013	14.32	499383	16.75
032	MSD	QC476709	714987	9.71	1112188	10.77	1063960	14.32	526260	16.75

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 838465788

Instrument : MSVOA11 Begun : 11/18/08 11:08
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	kke01	X	IB			11/18/08 11:08	1.0	1	
002	kke02	X	BFB			11/18/08 11:49	1.0	2	
003	kke03	X	BFB			11/18/08 12:06	1.0	2	
004	kke04	X	BFB			11/18/08 12:56	1.0	2	
005	kke05	X	BFB			11/18/08 13:10	1.0	2	
006	kke06	X	BFB			11/18/08 13:43	1.0	2	
007	kke07	X	BFB			11/18/08 14:03	1.0	2	
008	kke08	X	RT			11/18/08 14:33	1.0	1	
009	kke09	X	IB			11/18/08 15:01	1.0	1	
010	kke10	X	LP			11/18/08 15:29	1.0	1	
011	kke11	X	BFB			11/18/08 16:02	1.0	2	
012	kke12	TUN	BFB			11/18/08 16:19	1.0	2	
013	kke13	X	IB			11/18/08 16:51	1.0	1	
014	kke14	X	IB			11/18/08 17:19	1.0	1	
015	kke15	IB	CALIB			11/18/08 17:47	1.0	1	
016	kke16	ICAL				11/18/08 18:16	1.0	3 4 5 6 1	
017	kke17	ICAL				11/18/08 18:44	1.0	3 4 5 6 1	
018	kke18	ICAL				11/18/08 19:12	1.0	3 4 5 6 1	
019	kke19	ICAL				11/18/08 19:40	1.0	3 4 5 6 1	
020	kke20	ICAL				11/18/08 20:08	1.0	3 4 5 6 1	
021	kke21	ICAL				11/18/08 20:36	1.0	3 4 5 6 1	
022	kke22	ICAL				11/18/08 21:04	1.0	3 4 5 6 1	
023	kke23	ICAL				11/18/08 21:32	1.0	3 4 5 6 1	
024	kke24	ICAL				11/18/08 22:01	1.0	3 4 5 6 1	
025	kke25	ICV				11/18/08 22:29	1.0	7 1	
026	kke26	ICV				11/18/08 22:57	1.0	8 9 10 1	
027	kke27	X	IB			11/18/08 23:25	1.0	1	
028	kke28	X	IB			11/18/08 23:53	1.0	1	
029	kke29	X	IB			11/19/08 00:22	1.0	1	

ACM 11/19/08 : Adjusted tune prior to runs 4, 6, and 11.

ACM 11/24/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 24.

Analyst: ACM Date: 11/19/08 Reviewer: LW Date: 11/20/08

Standards used: 1=S10764 2=S9454 3=S10756 4=S10619 5=S9073 6=S10355 7=S10631 8=S10654 9=S10533 10=S10788

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 838510210

Instrument : MSVOA11 Begun : 12/19/08 07:30
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	klj01	X	IB			12/19/08 07:30	1.0	1	
002	klj02	TUN	BFB			12/19/08 10:30	1.0	2	
003	klj03	CCV/LCS	QC476540	Water	146257	12/19/08 10:47	1.0	3 4 5 6 1	
004	klj04	X	IB			12/19/08 11:15	1.0	1	
005	klj05	BLANK	QC476541	Water	146257	12/19/08 11:43	1.0	1	
006	klj06	SAMPLE	208576-001	Water	146257	12/19/08 12:11	1.0	1	
007	klj07	MSS	208575-007	Water	146257	12/19/08 12:39	1.0	1	
008	klj08	SAMPLE	208610-010	Water	146257	12/19/08 13:08	1.0	1	
009	klj09	SAMPLE	208601-001	Water	146257	12/19/08 13:36	1.0	1	
010	klj10	SAMPLE	208443-001	Water	146257	12/19/08 14:04	3.333	1	
011	klj11	SAMPLE	208443-003	Water	146257	12/19/08 14:32	6.25	1	
012	klj12	SAMPLE	208599-012	Water	146257	12/19/08 15:00	1.0	1	
013	klj13	SAMPLE	208599-013	Water	146257	12/19/08 15:28	1.0	1	
014	klj14	SAMPLE	208443-001	Water	146257	12/19/08 15:57	2.500	1	headspace <= 1 mL
015	klj15	SAMPLE	208443-003	Water	146257	12/19/08 16:25	4.0	1	
016	klj16	SAMPLE	208576-002	Water	146257	12/19/08 16:53	1.0	1	
017	klj17	SAMPLE	208576-003	Water	146257	12/19/08 17:21	1.0	1	
018	klj18	SAMPLE	208576-004	Water	146257	12/19/08 17:49	1.0	1	1:DCA11=120
019	klj19	SAMPLE	208576-005	Water	146257	12/19/08 18:17	1.0	1	1:DCA11=120
020	klj20	SAMPLE	208576-006	Water	146257	12/19/08 18:46	1.0	1	
021	klj21	SAMPLE	208576-007	Water	146257	12/19/08 19:14	1.0	1	
022	klj22	SAMPLE	208576-008	Water	146257	12/19/08 19:42	1.0	1	
023	klj23	SAMPLE	208576-009	Water	146257	12/19/08 20:10	1.0	1	
024	klj24	SAMPLE	208599-017	Water	146257	12/19/08 20:38	2.500	1	
025	klj25	SAMPLE	208599-020	Water	146257	12/19/08 21:06	2.0	1	
026	klj26	MS	QC476559	Water	146257	12/19/08 21:34	1.0	3 4 5 6 1	
027	klj27	MSD	QC476560	Water	146257	12/19/08 22:03	1.0	3 4 5 6 1	
028	klj28	X	IB			12/19/08 22:31	1.0	1	
029	klj29	X	IB			12/19/08 22:59	1.0	1	
030	klj30	X	IB			12/19/08 23:27	1.0	1	

ACM 12/19/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 15.

ACM 12/20/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 16 through 30.

Analyst: ACM Date: 12/20/08 Reviewer: LW Date: 12/22/08

Standards used: 1=S10764 2=S10902 3=S10844 4=S10654 5=S10798 6=S10985

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 838512084

Instrument : MSVOA11 Begun : 12/20/08 14:44
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	klk01	X	BFB			12/20/08 14:44	1.0	1	
002	klk02	X	QC476706	Water	146298	12/20/08 14:58	1.0	2 3 4 5 6	
003	klk03	X	BFB			12/20/08 15:33	1.0	1	
004	klk04	X	QC476706	Water	146298	12/20/08 15:49	1.0	2 7 4 5 6	
005	klk05	X	BFB			12/20/08 16:57	1.0	1	
006	klk06	X	BFB			12/20/08 17:07	1.0	1	
007	klk07	TUN	BFB			12/20/08 17:22	1.0	1	
008	klk08	CCV/LCS	QC476706	Water	146298	12/20/08 17:35	1.0	8 7 4 5 6	
009	klk09	X	IB			12/20/08 18:03	1.0	6	
010	klk10	BLANK	QC476707	Water	146298	12/20/08 18:31	1.0	6	
011	klk11	SAMPLE	208778-001	Water	146298	12/20/08 18:59	1.0	6	
012	klk12	SAMPLE	208778-002	Water	146298	12/20/08 19:27	1.0	6	
013	klk13	SAMPLE	208778-003	Water	146298	12/20/08 19:56	1.0	6	
014	klk14	SAMPLE	208778-004	Water	146298	12/20/08 20:24	1.0	6	
015	klk15	SAMPLE	208778-005	Water	146298	12/20/08 20:52	1.0	6	
016	klk16	SAMPLE	208576-006	Water	146298	12/20/08 21:20	1.0	6	
017	klk17	SAMPLE	208557-004	Water	146298	12/20/08 21:48	1.0	6	
018	klk18	MSS	208557-006	Water	146298	12/20/08 22:16	1.0	6	
019	klk19	SAMPLE	208557-008	Water	146298	12/20/08 22:45	1.0	6	
020	klk20	SAMPLE	208698-001	Water	146298	12/20/08 23:13	1.0	6	pH > 2
021	klk21	SAMPLE	208636-003	Water	146298	12/20/08 23:41	1.0	6	headspace > 1 mL
022	klk22	SAMPLE	208709-005	Water	146298	12/21/08 00:09	1.0	6	
023	klk23	SAMPLE	208709-006	Water	146298	12/21/08 00:37	1.0	6	
024	klk24	SAMPLE	208709-007	Water	146298	12/21/08 01:05	1.0	6	
025	klk25	SAMPLE	208709-002	Water	146298	12/21/08 01:33	5.0	6	
026	klk26	SAMPLE	208576-004	Water	146298	12/21/08 02:01	2.500	6	
027	klk27	SAMPLE	208576-005	Water	146298	12/21/08 02:30	2.500	6	
028	klk28	SAMPLE	208674-004	Water	146298	12/21/08 02:58	200.0	6	
029	klk29	SAMPLE	208674-005	Water	146298	12/21/08 03:26	833.3	6	
030	klk30	SAMPLE	208709-004	Water	146298	12/21/08 03:54	50.0	6	
031	klk31	MS	QC476708	Water	146298	12/21/08 04:22	1.0	8 7 4 5 6	
032	klk32	MSD	QC476709	Water	146298	12/21/08 04:50	1.0	8 7 4 5 6	
033	klk33	X	IB			12/21/08 05:18	1.0	6	
034	klk34	X	IB			12/21/08 05:47	1.0	6	
035	klk35	X	IB			12/21/08 06:15	1.0	6	

ACM 12/20/08 : Tune adjusted prior to run 07. New ICV gas standard made for run 08.

BO 12/22/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 35.

Analyst: BO Date: 12/22/08 Reviewer: LW Date: 12/22/08

Standards used: 1=S10902 2=S10844 3=S10654 4=S10798 5=S10985 6=S10764 7=S10935 8=S11013

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GC/MS VOLATILE ORGANICS

Batch #: 146257

Water Sample Prep Sheet

	Sample Number	Sample Vial	pH	Head space?	Shelf	Dil'n Flask	MS#	Comments	Initials & Date
1	208610 - ~~9~~ 10	D	<2				11	AR 1X 1,1,1 TCA cr	12/19/08
2	208443 - 1	B	<2			1		AR 3.3X VC 1,1DCE >LR	
3	3	B	↓			2		AR 6.25X VC >LR	
4	~~208650 - 8~~	~~D~~						~~AR 8.3X High IT HC~~ Pt off	
5	208599 - 22	B	<2			—		AR 2.5X cis >LR in fridge	
6	208601 - 1	B						AR 1X Fr 113 cover	
7	208599 - 12	C						AR 1X	
8	13	E	↓					AR 1X	
9	17	B	<2			13		AR 2.5X TCE >LR	
10	20	↓	↓			14		AR 2X cis >LR	
11	208576 - 1	A	<2					TB	
12	2	B						1X	
13	3								
14	4								
15	5								
16	6								
17	7								
18	8								
19	9								
20	208575 - 7	↓	↓					1X MSS	
21	↓ 7	ACD	<2					1X MS/MSD	
22	208443 - 1	C	↓	Bubble		17		AR 2.5X Aromatics	
23	3	L	↓			18		AR 4X	
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									

GC/MS VOLATILE ORGANICS

Batch #: 146298

Water Sample Prep Sheet

	Sample Number	Sample Vial	pH	Head space?	Shelf	Dil'n Flask	MS#	Comments	Initials & Date
1	~~208674~~ 208674 -4	G	<2	W	6	1	11	AA 200 x TCE DCA	Acm 12/20
2	5	↓	↓	↓		2		AA 833x TCE DCA Fr 113 c-	
3	208~~678~~678 - 1	B	<2		10			1x	
4	2								
5	3								
6	4								
7	5								
8	208557 -4				5			1x	
9	6							MSS	
10	8								
11	6	ACD						MS/MSD ~~2~~ 1 vial left Strange smell, flakes	
12	208576 -4	C	<2	W	6	3		AA 2.5x 1,1 DCA DCA	
13	5					4		AA 2.5x	
14	6		<2					AA 1x 1,1 DCA co ✓	
15	208636 - 3	A		10ml	7			AA 1x TB Naph co-	
16	208698 - 1		7		8			1x	
17	208709 - 2	B	<2		8/9	6		~~1x~~ 5x foam	
18	4		<2			5		50x	
19	5							1x	
20	6								
21	7								
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 208578
ANALYTICAL REPORT

CH2M Hill 2625 South Plaza Drive Tempe, AZ 85282-3397	Project : 371016.SH.60.61.QS Location : Quarterly UST Level : III

Sample ID	Lab ID
TB-121008	208578-001
ASE-128A-8D1	208578-002
ASE-113A-8D1	208578-003
PL-506-8D1	208578-004
ASE-96A-8D1	208578-005
ASE-95A-8D1	208578-006
PL-505-8D1	208578-007
ASE-125A-8D1	208578-008

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 12/29/2008
Project Manager

Signature: _____ Date: 12/29/2008
Senior Program Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**208578**
Client:	**CH2M Hill**
Project:	**371016.SH.60.61.QS**
Location:	**Quarterly UST**
Request Date:	**12/12/08**
Samples Received:	**12/12/08**

This data package contains sample and QC results for eight water samples, requested for the above referenced project on 12/12/08. See attached cooler receipt form for any sample receipt problems or discrepancies.

TPH-Extractables by GC (EPA 8015B):
The chromatographic baseline has been redrawn for all samples and standards to accurately quantitate all target hydrocarbons.

No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
Low responses were observed for iodomethane and vinyl acetate in the ICV analyzed 11/21/08 00:36; these analytes were not detected at or above the RL in the associated samples, and affected data was qualified with "b".

Low response was observed for vinyl acetate in the ICV analyzed 11/18/08 22:57; this analyte was not detected at or above the RL in the associated samples, and affected data was qualified with "b". High response was observed for hexachlorobutadiene; this analyte was not detected at or above the RL in the associated samples, and affected data was qualified with "b".

Low response was observed for vinyl acetate in the CCV analyzed 12/23/08 08:43; this analyte met minimum response criteria, and affected data was qualified with "b". High response was observed for hexachlorobutadiene; this analyte was not detected at or above the RL in the associated samples, and affected data was qualified with "b".

Low responses were observed for 2-hexanone, iodomethane, and vinyl acetate in the CCV analyzed 12/23/08 08:36; these analytes met minimum response criteria, and affected data was qualified with "b". High responses were observed for a number of analytes; these analytes were not detected at or above the RL in the associated samples, and affected data was qualified with "b".

High recovery was observed for hexachlorobutadiene in the LCS for batch 146372; this analyte was not detected at or above the RL in the associated samples.

High recoveries were observed for a number of analytes in the BS/BSD for batch 146373; the associated RPDs were within limits, and these analytes were not detected at or above the RL in the associated samples.

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**208578**
Client:	**CH2M Hill**
Project:	**371016.SH.60.61.QS**
Location:	**Quarterly UST**
Request Date:	**12/12/08**
Samples Received:	**12/12/08**

Volatile Organics by GC/MS (EPA 8260B):

High recovery was observed for sec-butylbenzene in the MS of ASE-125A-8D1 (lab # 208578-008); the LCS was within limits, the associated RPD was within limits, and this analyte was not detected at or above the RL in the associated samples.

TB-121008 (lab # 208578-001), PL-506-8D1 (lab # 208578-004), and PL-505-8D1 (lab # 208578-007) were analyzed with more than 1 mL of headspace in the VOA vial.

No other analytical problems were encountered.

Chain of Custody

208578

Curtis & Tompkins Laboratories
2323 5th St.
Berkeley, CA 94710
510-204-2221

Honeywell — Chain Of Custody / Analysis Request

AESI Ref:	39784.54128
COC#	37380_
Lab Proj # (SDG):	
Lab ID	CTBERK
Site ID	SKYHARBOR
Lab Job #	
Authorized User:	Honeywell
Text & Excel File Drive	Excel & Text File Order

Privileged & Confidential

Site Name: Sky Harbor
Phase:
Location of Site: Phoenix, AZ
Sampling Program: Quarterly UST

Sampling Co.: H+A
EDD To: Jennifer Peterson, jennifer.Peterson@ch2m.com
Sampler: M. Weise - M. Hall
PO #: 4990342
Analysis Turnaround Time (TAT): 7
Consultant
Full Report TAT: 7

Client Contact: (name, co., address)
CH2M HILL
2625 South Plaza Drive, Suite 300
Tempe, AZ 85282

Preliminary Data To: Jennifer Peterson, CH2M HILL
Sample Receipt Acknowledgement To: Jennifer Peterson, CH2M HILL
Hard Copy To: Jennifer Peterson, CH2M HILL
Invoice To: Honeywell/Copy J Peterson

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	Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite/Grab	Field Filtered Sample ?	Total VOCs (SW8260)	TRPH DRO C10-C22 - ORO C22-C32 (8015B)						MS/MSD					Sampling Method (code)	Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Units															
1	T/B	--	--	TB-121008	12/10/8	0305	BLKWATER	WATER	TB	1	G	N	X													
2	ASE-128A	121	--	ASE-128A-8D1	12/10/8	0406	GW	WATER	REG	5	G	N	X	X												
3	ASE-113A	119	--	ASE-113A-8D1	12/10/8	0447	GW	WATER	REG	5	G	N	X	X												
4	ERB	--	--	PL-506-8D1	12/10/8	0455	~~TBW~~	WATER	~~REG~~ ERB	5	G	N	X	X												
5	ASE-96A	109	--	ASE-96A-8D1	12/10/8	0526	GW	WATER	REG	5	G	N	X	X												
6	ASE-95A	119	--	ASE-95A-8D1	12/10/8	0603	GW	WATER	REG	5	G	N	X	X												
7		--	--	PL-505-8D1	12/10/8	0613	GW	WATER	REG	5	G	N	X	X												
8	ASE-125A	119	--	ASE-125A-8D1	12/10/8	0644	GW	WATER	REG	15	G	N	X	X						X						
9																										
10																										
11																										
12										46																

Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Custody Seals Intact
[signature]	H+A	12/11/08 14:20		FedEx	12/11/08 14:30	Cooler Temp.	
Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Custody Seals Intact
						Cooler Temp.	

Preservatives: (Other; Specify):

0 (none); 1 (4 Deg C); 2 (HCl pH<2); 3 (HNO3 pH<2); 4 (H2SO4 pH<2); 5 (NaOH pH>12); 6 (NaOH, Zn Acetate); 7 (H2SO4 (pH<2), 4 Deg C)); 8 (HCl pH<2); 9 (HCl 4 Deg C); 10 (HNO3 (pH<2), 4Deg C); 11 (4C NaOH (pH>12) & Ascorbic Acid); 12 (4C H2SO4 (pH<2) & Na2S2O3); 13 (Zn Acetate); sp (special instructions)

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 208578 Date Received 12-12-08 Number of coolers 1
Client Honeywell Project Sky Harbour

Date Opened 12-12-08 By (print) J. Rasmussen (sign)
Date Logged in ✓ By (print) M. Villarreal (sign)

1. Did cooler come with a shipping slip (airbill, etc) Fedex YES NO
   Shipping info 7955 2325 3003

2A. Were custody seals present? ... ☒ YES (circle) on cooler on samples ☐ NO
   How many 2 Name Unreadable Date 12-11-08
2B. Were custody seals intact upon arrival? ____ YES NO N/A
3. Were custody papers dry and intact when received? ____ YES NO
4. Were custody papers filled out properly (ink, signed, etc)? ____ YES NO
5. Is the project identifiable from custody papers? (If so fill out top of form) ____ YES NO
6. Indicate the packing in cooler: (if other, describe) ____

☒ Bubble Wrap ☐ Foam blocks ☒ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation:

Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) 4.8

☐ Samples Received on ice & cold without a temperature blank

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? ____ YES NO
   If YES, what time were they transferred to freezer? ____
9. Did all bottles arrive unbroken/unopened? ____ ~~YES~~ NO
10. Are samples in the appropriate containers for indicated tests? ____ YES NO
11. Are sample labels present, in good condition and complete? ____ YES NO
12. Do the sample labels agree with custody papers? ____ YES NO
13. Was sufficient amount of sample sent for tests requested? ____ YES NO
14. Are the samples appropriately preserved? ____ YES NO N/A
15. Are bubbles > 6mm absent in VOA samples? ____ YES NO N/A
16. Was the client contacted concerning this sample delivery? ____ YES NO
    If YES, Who was called? ____ By ____ Date: ____

COMMENTS
Sample No. 4: 1/3 VOAs Broken
" 7: 1/3 VOAs Broken

Laboratory Job Number 208578

ANALYTICAL REPORT

TPH-Extractables by GC

Matrix: Water

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	208578	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	12/10/08
Units:	ug/L	Received:	12/12/08
Diln Fac:	1.000	Prepared:	12/17/08
Batch#:	146154		

Field ID:	ASE-128A-8D1	Lab ID:	208578-002
Type:	SAMPLE	Analyzed:	12/18/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	ND	50	15	
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	102	50-120	
Hexacosane	108	58-127	

Field ID:	ASE-113A-8D1	Lab ID:	208578-003
Type:	SAMPLE	Analyzed:	12/18/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	ND	50	15	
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	106	50-120	
Hexacosane	118	58-127	

Field ID:	PL-506-8D1	Lab ID:	208578-004
Type:	SAMPLE	Analyzed:	12/18/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	ND	50	15	
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	102	50-120	
Hexacosane	105	58-127	

Field ID:	ASE-96A-8D1	Lab ID:	208578-005
Type:	SAMPLE	Analyzed:	12/18/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	62 Y	50	15	
Motor Oil C22-C32	230 J	300	40	E4

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	110	50-120	
Hexacosane	121	58-127	

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	208578	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	12/10/08
Units:	ug/L	Received:	12/12/08
Diln Fac:	1.000	Prepared:	12/17/08
Batch#:	146154		

Field ID: ASE-95A-8D1 Lab ID: 208578-006
Type: SAMPLE Analyzed: 12/19/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	33 J	50	15	E4
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	105	50-120	
Hexacosane	110	58-127	

Field ID: PL-505-8D1 Lab ID: 208578-007
Type: SAMPLE Analyzed: 12/19/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	37 J	50	15	E4
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	111	50-120	
Hexacosane	118	58-127	

Field ID: ASE-125A-8D1 Lab ID: 208578-008
Type: SAMPLE Analyzed: 12/18/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	ND	50	15	
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	104	50-120	
Hexacosane	110	58-127	

Type: BLANK Analyzed: 12/18/08
Lab ID: QC476094

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	ND	50	15	
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	104	50-120	
Hexacosane	115	58-127	

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	208578	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC476095	Batch#:	146154
Matrix:	Water	Prepared:	12/17/08
Units:	ug/L	Analyzed:	12/18/08

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Diesel C10-C22	2,500	2,399	96	54-120	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	103	50-120	
Hexacosane	107	58-127	

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	208578	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Field ID:	ASE-125A-8D1	Batch#:	146154
MSS Lab ID:	208578-008	Sampled:	12/10/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Prepared:	12/17/08
Diln Fac:	1.000	Analyzed:	12/18/08

Type: MS Lab ID: QC476096

Analyte	MSS Result	Spiked	Result	%REC	Limits	ADEQ Flags
Diesel C10-C22	<14.94	2,500	2,428	97	54-120	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	111	50-120	
Hexacosane	124	58-127	

Type: MSD Lab ID: QC476097

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
Diesel C10-C22	2,500	2,337	93	54-120	4	31	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	103	50-120	
Hexacosane	106	58-127	

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

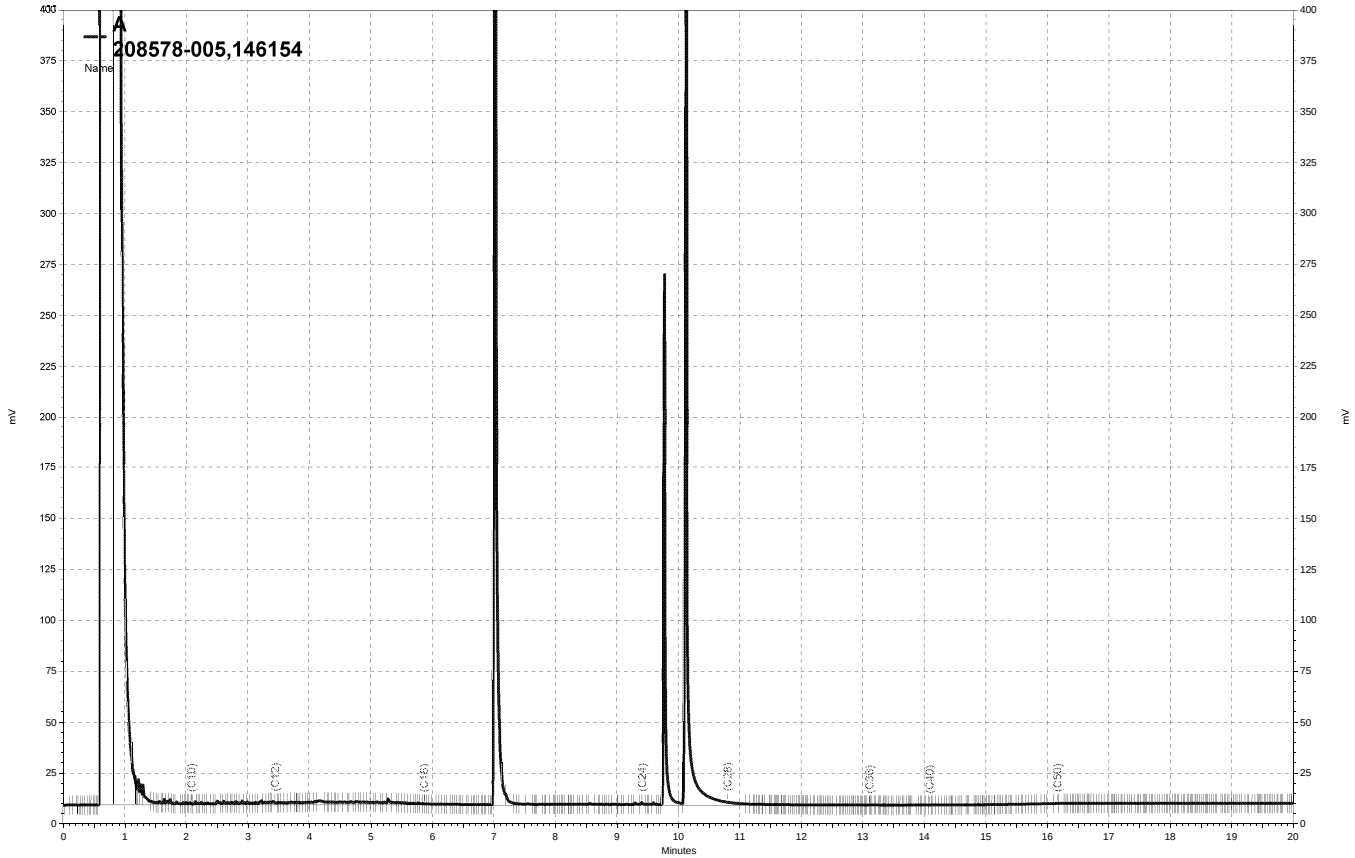
Batch QC Report

Total Extractable Hydrocarbons

Lab #:	208578	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC476098	Batch#:	146154
Matrix:	Water	Prepared:	12/17/08
Units:	ug/L	Analyzed:	12/18/08

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Motor Oil C22-C32	2,500	2,876	115	60-140	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	102	50-120	
Hexacosane	91	58-127	



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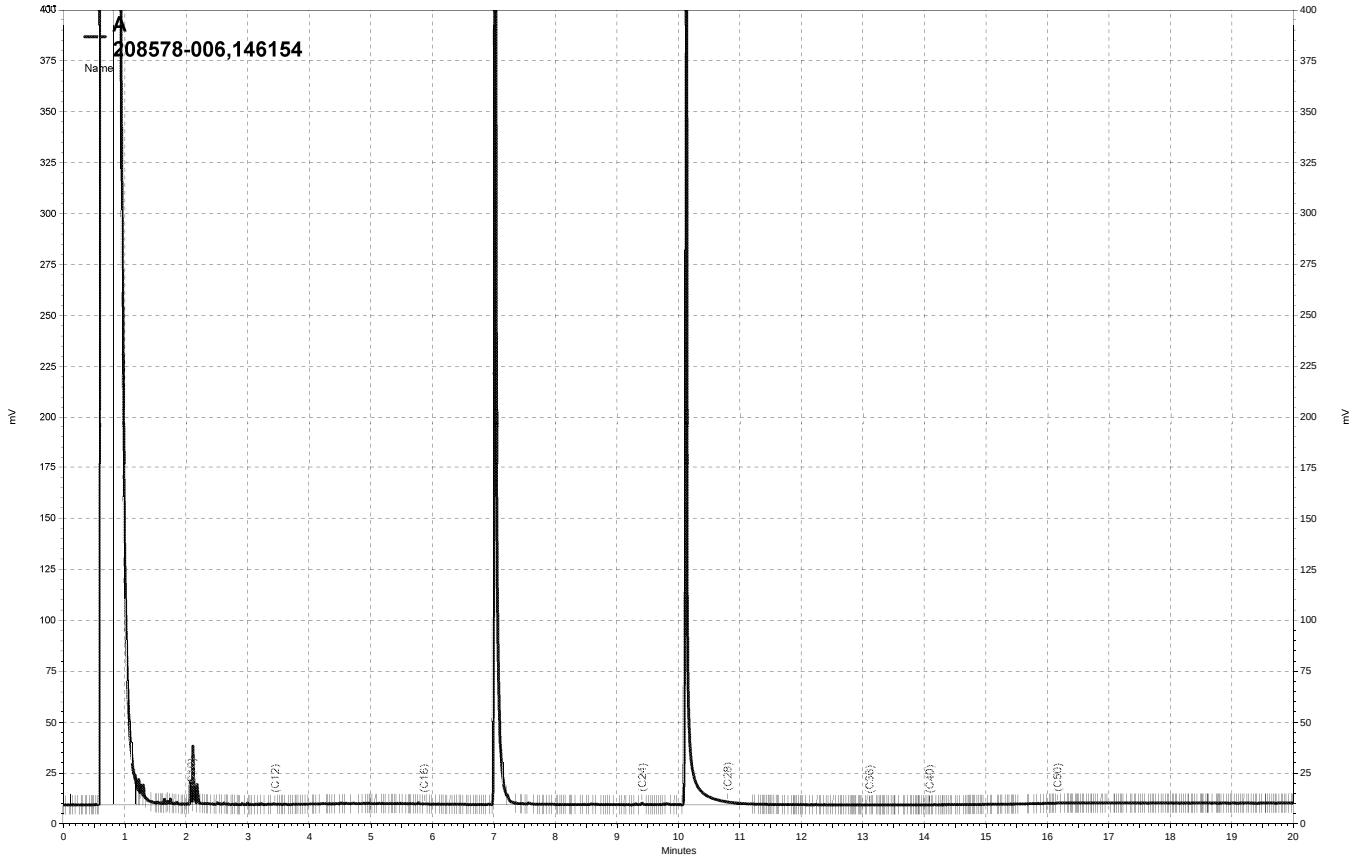

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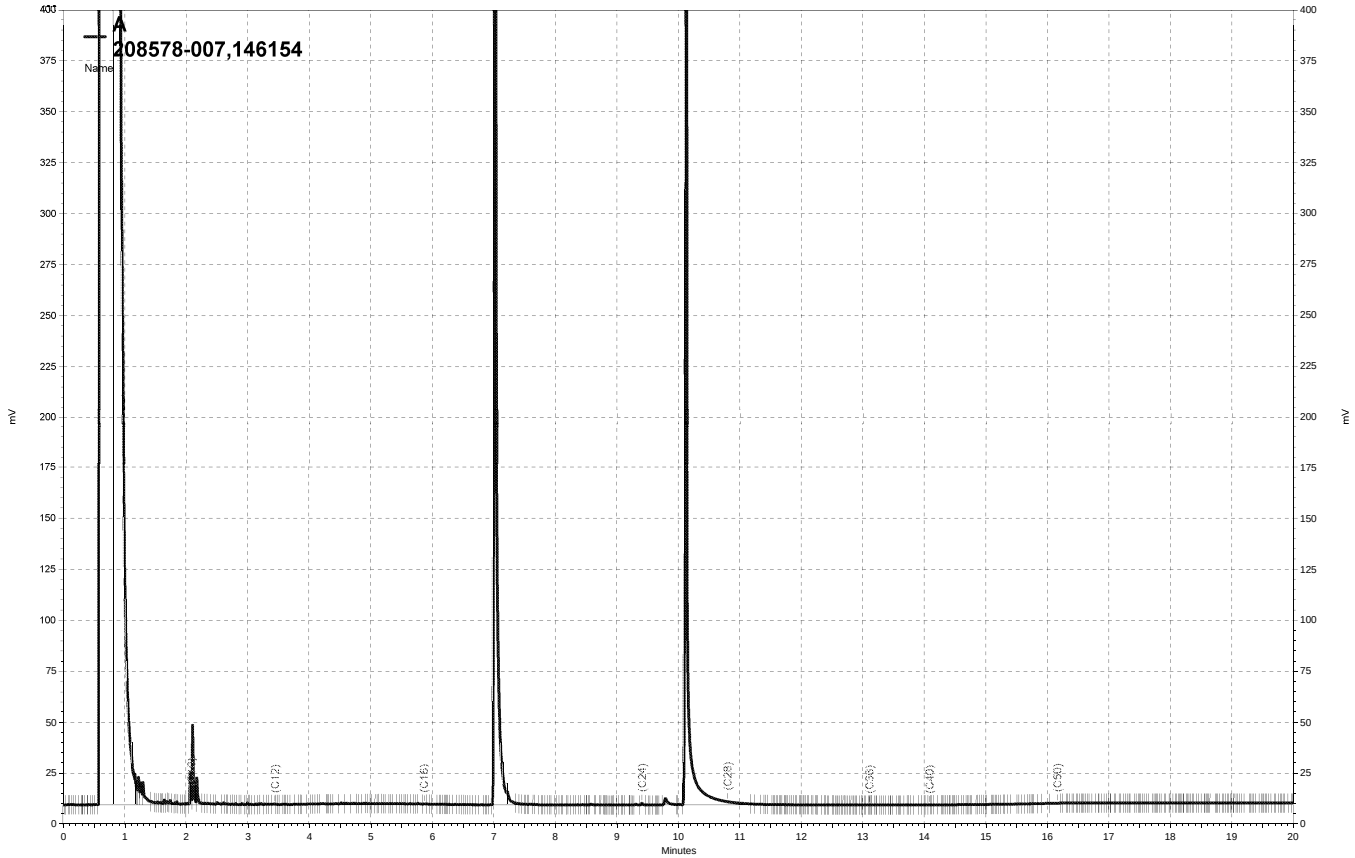

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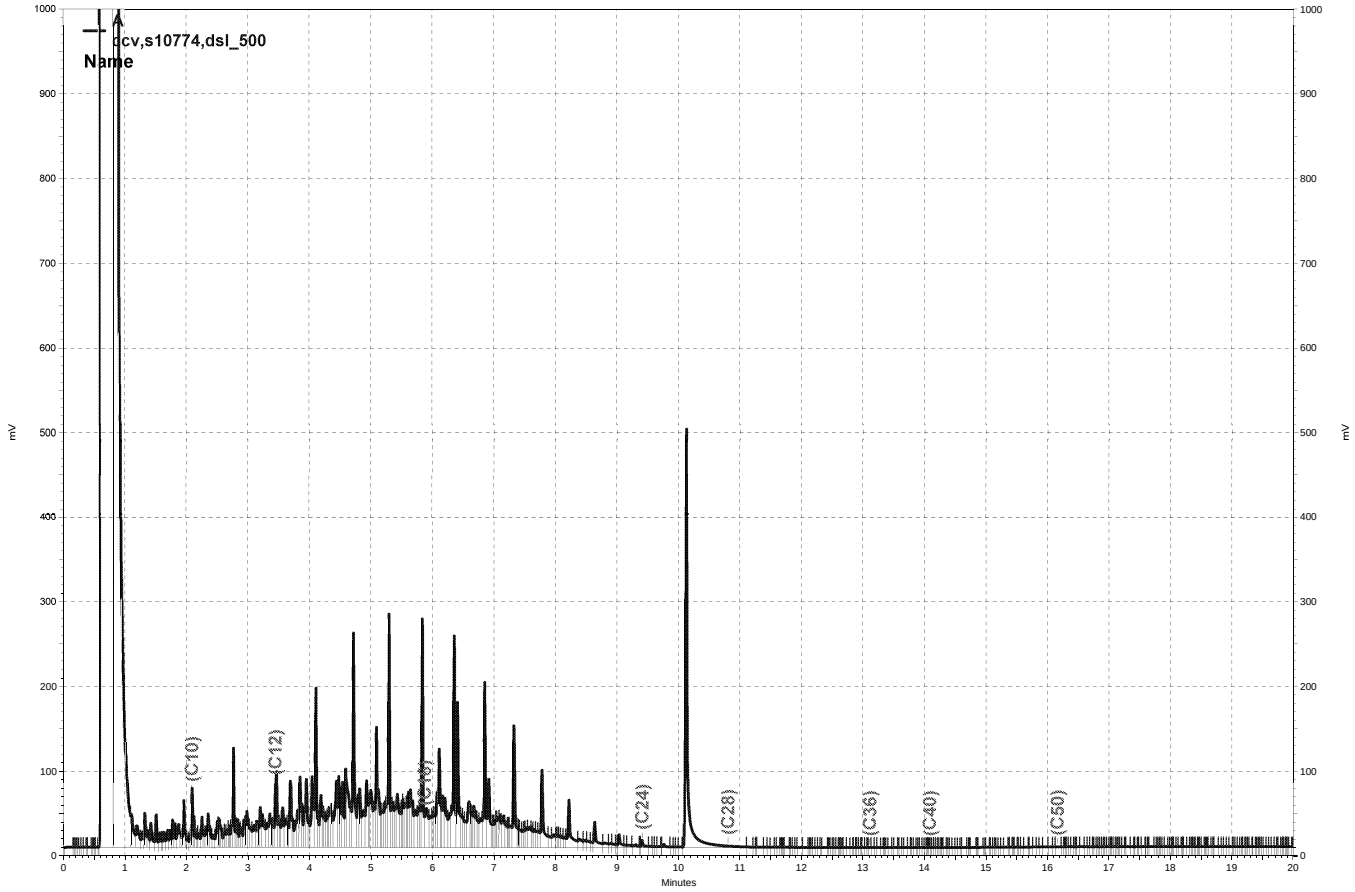

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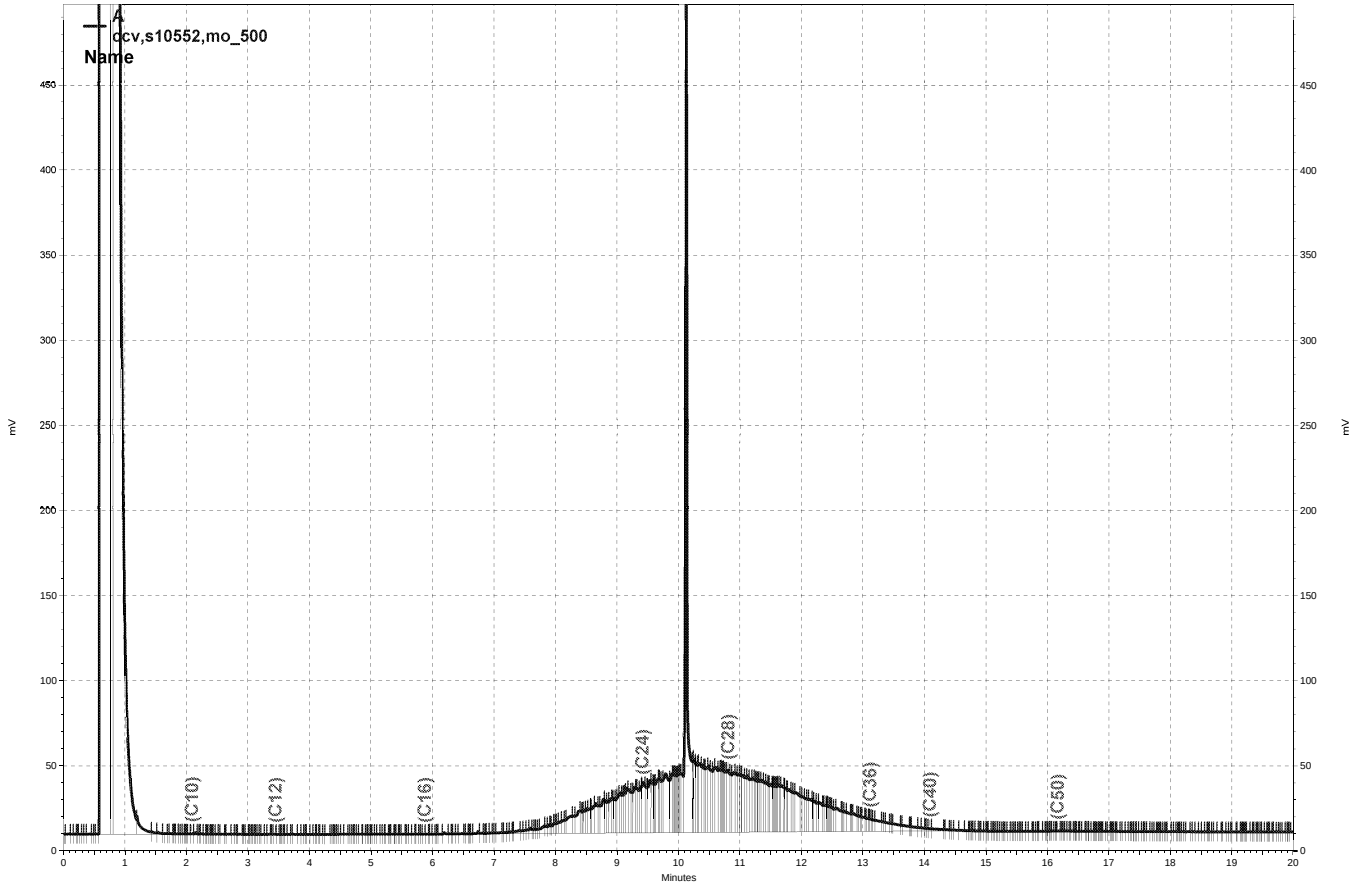

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CURTIS & TOMPKINS INITIAL CALIBRATION FOR 208578 GCSV Water: SW8015AZR1

Inst : GC26A
Calnum : 868466089004
Units : mg/L

Name : 26A diesel_323
Date : 18-NOV-2008 19:38
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	323a008	868466089008	DSL_10	18-NOV-2008 19:38	S9527
L2	323a009	868466089009	DSL_100	18-NOV-2008 20:06	S9528
L3	323a010	868466089010	DSL_500	18-NOV-2008 20:35	S9529
L4	323a011	868466089011	DSL_1000	18-NOV-2008 21:04	S9530
L5	323a012	868466089012	DSL_5000	18-NOV-2008 21:33	S9526
L6	323a013	868466089013	DSL_7500	18-NOV-2008 22:01	S9531

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C22	27669	29864	28006	25990	26629	23471	AVRG		3.71E-5		26938	8	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C10-C22	10.00	3	100.0	11	500.0	4	1000	-4	5000	-1	7500	-13

Analyst: ATL Date: 11/24/08 Reviewer: CW Date: 11/24/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 208578 GCSV Water
SW8015AZR1

Inst : GC26A Name : 26A diesel_323
Calnum : 868466089004 Cal Date : 18-NOV-2008

ICV 868466089015 (323a015 18-NOV-2008) stds: S10153

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C10-C22	26938	28040	500.0	520.5	mg/L	4	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 208578 GCSV Water: SW8015AZR1

Inst : GC26A
Calnum : 868466089003
Units : mg/L

Name : OTP(26A)_323
Date : 19-NOV-2008 09:23
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	323a039	868466089039	OTP_5	19-NOV-2008 09:23	S9739
L2	323a040	868466089040	OTP_10	19-NOV-2008 09:52	S9740
L3	323a041	868466089041	OTP_25	19-NOV-2008 10:20	S9741
L4	323a042	868466089042	OTP_50	19-NOV-2008 10:49	S9742
L5	323a043	868466089043	OTP_100	19-NOV-2008 11:18	S9745
L6	323a044	868466089044	OTP_200	19-NOV-2008 11:47	S9744

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	29916	32641	30352	26603	29783	29496	AVRG		3.36E-5		29798	6	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	5.000	0	10.00	10	25.00	2	50.00	-11	100.0	0	200.0	-1

ATL 11/21/08 : OTP_25 point was used to update RT for asurotp323.met.

Analyst: ATL Date: 11/21/08 Reviewer: CW Date: 11/24/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 208578 GCSV Water: SW8015AZR1

Inst : GC26A
Calnum : 868487360001
Units : mg/L

Name : MO(26a)_338
Date : 03-DEC-2008 18:28
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	338a013	868487360013	MO_50	03-DEC-2008 18:28	S10563
L2	338a015	868487360015	MO_500	03-DEC-2008 19:26	S10564
L3	338a016	868487360016	MO_1000	03-DEC-2008 19:55	S10566
L4	338a017	868487360017	MO_5000	03-DEC-2008 20:23	S10567
L5	338a018	868487360018	MO_7500	03-DEC-2008 20:52	S10568
L6	338a030	868487360030	MO_250	04-DEC-2008 13:02	S10565

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C22-C32	11273	12715	12308	12247	11468	11999	AVRG		8.33E-5		12002	5	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C22-C32	50.00	-6	500.0	6	1000	3	5000	2	7500	-4	250.0	0

ATL 12/04/08 : Manually integrated all motor oil points except MO_250 for fuel hump. MO_250 pt. was re-run to confirm misinject run #14.

Analyst: ATL Date: 12/04/08 Reviewer: CP Date: 12/04/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208578 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : DSL_500 IDF : 1.0
Seqnum : 868509078003 File : 353a003 Time : 18-DEC-2008 13:07
Standards: S10774

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C22	868466089004	18-NOV-2008	26938	30038	500.0	557.5	mg/L	12	15	
Hexacosane	868470899001	21-NOV-2008	20727	23766	50.00	57.33	mg/L	15	15	

JDG 12/19/08 : Integrations: manual peak and fuel hump.

JDG: 12/19/08 * DNT: 12/19/08 ATL: 12/23/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208578 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : MO_500 IDF : 1.0
Seqnum : 868509078004 File : 353a004 Time : 18-DEC-2008 13:36
Standards: S10552

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C22-C32	868487360001	03-DEC-2008	12002	12062	500.0	502.5	mg/L	1	15	
Hexacosane	868470899001	21-NOV-2008	20727	16712	50.00	40.31	mg/L	**-19**	15	c-

Analyst: JDG Date: 12/19/08 Reviewer: DNT Date: 12/19/08

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208578 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : OTP_50 IDF : 1.0
Seqnum : 868509078006 File : 353a006 Time : 18-DEC-2008 17:20
Cal : 868466089003 Caldate : 19-NOV-2008
Standards: S10089

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
o-Terphenyl	29798	29213	50.00	49.02	mg/L	-2	15	

Analyst: DNT Date: 12/18/08 Reviewer: JDG Date: 12/19/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208578 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : DSL_250 IDF : 1.0
Seqnum : 868509078018 File : 353a018 Time : 18-DEC-2008 23:58
Standards: S10773

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C22	868466089004	18-NOV-2008	26938	27779	250.0	257.8	mg/L	3	15	
Hexacosane	868470899001	21-NOV-2008	20727	20873	50.00	50.35	mg/L	1	15	

ATL 12/19/08 : Manually integrated fuel hump.

Analyst: ATL Date: 12/19/08 Reviewer: JDG Date: 12/19/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208578 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : MO_500 IDF : 1.0
Seqnum : 868509078019 File : 353a019 Time : 19-DEC-2008 00:26
Standards: S10552

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C22-C32	868487360001	03-DEC-2008	12002	12839	500.0	534.9	mg/L	7	15	
Hexacosane	868470899001	21-NOV-2008	20727	17717	50.00	42.74	mg/L	-15	15	

ATL 12/19/08 : Manually integrated fuel hump.

Analyst: ATL Date: 12/19/08 Reviewer: JDG Date: 12/19/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208578 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : OTP_50 IDF : 1.0
Seqnum : 868509078020 File : 353a020 Time : 19-DEC-2008 00:55
Cal : 868466089003 Caldate : 19-NOV-2008
Standards: S10089

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
o-Terphenyl	29798	29618	50.00	49.70	mg/L	-1	15	

Analyst: ATL Date: 12/19/08 Reviewer: JDG Date: 12/19/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208578 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : DSL_1000 IDF : 1.0
Seqnum : 868509078035 File : 353a035 Time : 19-DEC-2008 08:00
Standards: S10775

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C22	868466089004	18-NOV-2008	26938	28807	1000	1069	mg/L	7	15	
Hexacosane	868470899001	21-NOV-2008	20727	22027	50.00	53.13	mg/L	6	15	

Analyst: ATL Date: 12/19/08 Reviewer: JDG Date: 12/23/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208578 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : MO_500 IDF : 1.0
Seqnum : 868509078036 File : 353a036 Time : 19-DEC-2008 08:29
Standards: S10552

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C22-C32	868487360001	03-DEC-2008	12002	13265	500.0	552.6	mg/L	11	15	
Hexacosane	868470899001	21-NOV-2008	20727	17976	50.00	43.36	mg/L	-13	15	

ATL 12/23/08 : Manually integrated fuel hump.

Analyst: ATL Date: 12/19/08 Reviewer: EAH Date: 12/23/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208578 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : OTP_50 IDF : 1.0
Seqnum : 868509078037 File : 353a037 Time : 19-DEC-2008 08:57
Cal : 868466089003 Caldate : 19-NOV-2008
Standards: S10089

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
o-Terphenyl	29798	28018	50.00	47.01	mg/L	-6	15	

Analyst: ATL Date: 12/19/08 Reviewer: EAH Date: 12/23/08

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868466089

Instrument : GC26A Begun : 11/18/08 16:09
Method : SW8015AZR1 SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	323a001	X	PRIMER			11/18/08 16:09	1.0		
002	323a002	X	IB			11/18/08 16:38	1.0		
003	323a003	X	IB			11/18/08 17:06	1.0		
007	323a007	IB	CALIB			11/18/08 19:09	1.0		
008	323a008	ICAL	DSL_10			11/18/08 19:38	1.0	1	
009	323a009	ICAL	DSL_100			11/18/08 20:06	1.0	2	
010	323a010	ICAL	DSL_500			11/18/08 20:35	1.0	3	
011	323a011	ICAL	DSL_1000			11/18/08 21:04	1.0	4	
012	323a012	ICAL	DSL_5000			11/18/08 21:33	1.0	5	
013	323a013	ICAL	DSL_7500			11/18/08 22:01	1.0	6	
015	323a015	ICV	DSL_500			11/18/08 22:59	1.0	7	
017	323a017	IB	CALIB			11/18/08 23:56	1.0		
032	323a032	ICAL	JP5_10			11/19/08 06:03	1.0	8	
033	323a033	ICAL	JP5_100			11/19/08 06:31	1.0	9	
034	323a034	ICAL	JP5_500			11/19/08 07:00	1.0	10	
035	323a035	ICAL	JP5_1500			11/19/08 07:28	1.0	11	
036	323a036	ICAL	JP5_2500			11/19/08 07:57	1.0	12	
037	323a037	ICAL	JP5_5000			11/19/08 08:26	1.0	13	
038	323a038	IB	CALIB			11/19/08 08:54	1.0		
039	323a039	ICAL	OTP_5			11/19/08 09:23	1.0	14	
040	323a040	ICAL	OTP_10			11/19/08 09:52	1.0	15	
041	323a041	ICAL	OTP_25			11/19/08 10:20	1.0	16	
042	323a042	ICAL	OTP_50			11/19/08 10:49	1.0	17	
043	323a043	ICAL	OTP_100			11/19/08 11:18	1.0	18	
044	323a044	ICAL	OTP_200			11/19/08 11:47	1.0	19	
045	323a045	IB	CALIB			11/19/08 12:16	1.0		
046	323a046	CMARKER	C8-C50			11/19/08 12:44	1.0	20	

ATL 11/21/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 46.

Analyst: ATL Date: 11/21/08 Reviewer: CW Date: 11/24/08

Standards used: 1=S9527 2=S9528 3=S9529 4=S9530 5=S9526 6=S9531 7=S10153 8=S10506 9=S10507 10=S10508 11=S10509 12=S10510 13=S10505 14=S9739 15=S9740 16=S9741 17=S9742 18=S9745 19=S9744 20=S10268

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CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868487360

Instrument : GC26A Begun : 12/03/08 10:40
Method : SW8015AZR1 SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	338a001	X	IB			12/03/08 10:40	1.0		
002	338a002	X	IB			12/03/08 11:09	1.0		
003	338a003	X	CMARKER			12/03/08 11:37	1.0	1	
004	338a004	CCV	JP5_250			12/03/08 12:06	1.0	2	
005	338a005	CCV	OTP_50			12/03/08 12:36	1.0	3	
006	338a006	CCV	DSL_250			12/03/08 13:05	1.0	4	
007	338a007	CCV	MO_500			12/03/08 14:34	1.0	5	
009	338a009	CCV	DSL_250			12/03/08 15:32	1.0	6	
010	338a010	CCV	DSL_500			12/03/08 16:01	1.0	7	
011	338a011	CCV	DSL_1000			12/03/08 16:31	1.0	8	
012	338a012	IB	CALIB			12/03/08 17:54	1.0		
013	338a013	ICAL	MO_50			12/03/08 18:28	1.0	9	
014	338a014	X	ICAL			12/03/08 18:57	1.0	10	
015	338a015	ICAL	MO_500			12/03/08 19:26	1.0	11	
016	338a016	ICAL	MO_1000			12/03/08 19:55	1.0	12	
017	338a017	ICAL	MO_5000			12/03/08 20:23	1.0	13	
018	338a018	ICAL	MO_7500			12/03/08 20:52	1.0	14	
019	338a019	IB	CALIB			12/03/08 21:21	1.0		
020	338a020	ICAL	BUNK_50			12/03/08 21:50	1.0	15	
021	338a021	ICAL	BUNK_500			12/03/08 22:19	1.0	16	
022	338a022	ICAL	BUNK_1250			12/03/08 22:48	1.0	17	
023	338a023	ICAL	BUNK_2500			12/03/08 23:16	1.0	18	
024	338a024	ICAL	BUNK_5000			12/03/08 23:45	1.0	19	
025	338a025	IB	CALIB			12/04/08 00:14	1.0		
026	338a026	CMARKER	C8-C50			12/04/08 00:43	1.0	1	
027	338a027	IB	CALIB			12/04/08 01:12	1.0		
028	338a028	X	TANKCHECK			12/04/08 01:40	1.0		
029	338a029	IB	CALIB			12/04/08 12:34	1.0		
030	338a030	ICAL	MO_250			12/04/08 13:02	1.0	10	

ATL 12/04/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 30.

Analyst: ATL Date: 12/04/08 Reviewer: CP Date: 12/04/08

Standards used: 1=S10268 2=S10245 3=S10089 4=S10218 5=S10552 6=S10773 7=S10774 8=S10775 9=S10563 10=S10565 11=S10564 12=S10566 13=S10567 14=S10568 15=S10515 16=S10516 17=S10517 18=S10518 19=S10514

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868509078

Instrument : GC26A Begun : 12/18/08 12:38
Method : SW8015AZR1 SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
002	353a002	X	CMARKER			12/18/08 12:38	1.0	1
003	353a003	CCV	DSL_500			12/18/08 13:07	1.0	2
004	353a004	CCV	MO_500			12/18/08 13:36	1.0	3
006	353a006	CCV	OTP_50			12/18/08 17:20	1.0	4
007	353a007	CCV	JP5_250			12/18/08 17:49	1.0	5
008	353a008	BLANK	QC476094	Water	146154	12/18/08 19:15	1.0	
009	353a009	LCS	QC476095	Water	146154	12/18/08 19:43	1.0	
010	353a010	MSS	208578-008	Water	146154	12/18/08 20:11	1.0	
011	353a011	MS	QC476096	Water	146154	12/18/08 20:39	1.0	
012	353a012	MSD	QC476097	Water	146154	12/18/08 21:08	1.0	
013	353a013	LCS	QC476098	Water	146154	12/18/08 21:36	1.0	
014	353a014	SAMPLE	208578-002	Water	146154	12/18/08 22:05	1.0	
015	353a015	SAMPLE	208578-003	Water	146154	12/18/08 22:33	1.0	
016	353a016	SAMPLE	208578-004	Water	146154	12/18/08 23:02	1.0	
017	353a017	SAMPLE	208578-005	Water	146154	12/18/08 23:30	1.0	
018	353a018	CCV	DSL_250			12/18/08 23:58	1.0	6
019	353a019	CCV	MO_500			12/19/08 00:26	1.0	3
020	353a020	CCV	OTP_50			12/19/08 00:55	1.0	4
021	353a021	X	CCV			12/19/08 01:23	1.0	6
022	353a022	X	CCV			12/19/08 01:52	1.0	3
023	353a023	X	CCV			12/19/08 02:20	1.0	4
024	353a024	SAMPLE	208578-006	Water	146154	12/19/08 02:48	1.0	
025	353a025	SAMPLE	208578-007	Water	146154	12/19/08 03:17	1.0	
026	353a026	SAMPLE	208592-002	Water	146154	12/19/08 03:45	1.0	
027	353a027	SAMPLE	208592-003	Water	146154	12/19/08 04:14	1.0	
028	353a028	SAMPLE	208592-004	Water	146154	12/19/08 04:42	1.0	
029	353a029	SAMPLE	208592-005	Water	146154	12/19/08 05:11	1.0	
030	353a030	SAMPLE	208592-006	Water	146154	12/19/08 05:38	1.0	
031	353a031	SAMPLE	208592-007	Water	146154	12/19/08 06:06	1.0	
032	353a032	SAMPLE	208592-008	Water	146154	12/19/08 06:35	1.0	
033	353a033	SAMPLE	208592-009	Water	146154	12/19/08 07:03	1.0	
034	353a034	X	CMARKER			12/19/08 07:32	1.0	1
035	353a035	CCV	DSL_1000			12/19/08 08:00	1.0	7
036	353a036	CCV	MO_500			12/19/08 08:29	1.0	3
037	353a037	CCV	OTP_50			12/19/08 08:57	1.0	4
038	353a038	SAMPLE	208592-010	Water	146154	12/19/08 09:44	1.0	
039	353a039	SAMPLE	208593-001	Water	146154	12/19/08 10:13	1.0	
040	353a040	SAMPLE	208593-002	Water	146154	12/19/08 10:41	1.0	
041	353a041	SAMPLE	208593-003	Water	146154	12/19/08 11:09	1.0	
042	353a042	SAMPLE	208593-004	Water	146154	12/19/08 11:38	1.0	
043	353a043	CCV	DSL_500			12/19/08 12:06	1.0	2
044	353a044	CCV	MO_500			12/19/08 12:34	1.0	3
045	353a045	CCV	OTP_50			12/19/08 13:03	1.0	4

ATL 12/19/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 45.

Standards used: 1=S10268 2=S10774 3=S10552 4=S10089 5=S10245 6=S10773 7=S10775

SAMPLE PREPARATION SUMMARY

Batch # : 146154
Started By : DJT
Method : 3520C
Spike #1 ID : S10879

Prep Date : 17-DEC-2008 17:30
SOP Version : TEH_3520_rv12
Spike #2 ID : S10905

Analysis : 8015AZ
Finished By : TFB
Units : mL
Spike #3 ID : S10955

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
208578-002		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208578-003		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208578-004		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208578-005		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208578-006		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208578-007		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208578-008		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	mss
208592-002		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208592-003		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208592-004		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208592-005		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208592-006		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208592-007		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208592-008		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208592-009		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208592-010		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208593-001		Water	500	2.5	1	0.005	7	.5				TEH	
208593-002		Water	500	2.5	1	0.005	7	.5				TEH	
208593-003		Water	500	2.5	1	0.005	7	.5				TEH	
208593-004		Water	500	2.5	1	0.005	7	.5				TEH	
QC476094	BLANK	Water	500	2.5	1	0.005		.5		.5		8015AZ	
QC476095	LCS	Water	500	2.5	1	0.005		.5	.5	.5		8015AZ	
QC476096	MS	Water	500	2.5	1	0.005	7	.5	.5	.5		8015AZ	
QC476097	MSD	Water	500	2.5	1	0.005	7	.5	.5	.5		8015AZ	
QC476098	LCS	Water	500	2.5	1	0.005		.5		.5		8015AZ	+.5 mL S10787C

Analyst: JDG Date: 12/19/08 Reviewer: DNT Date: 12/19/08

TEH (8015) Water Prep Log

Curtis & Tompkins, Ltd.

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LIMS Batch No: 146154
LIMS Analysis: TEH/8015AZ
Date Extracted: 12/17/08

Extraction Method:
☐ mod. EPA 3510c sep. funnel
☒ mod. EPA 3520c cont. L/L

Cleanup Method (if needed):
☐ EPA 3630c Silica Gel

Sample #	Container ID	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
★ 208578-002	D	500	7	2.5		
003	↓					
004	C					
005	E					
006	↓					
007	B					
008	M					MSS
208592-002	E					
003						
004	↓					
005	D					
006	↓					
007	E					
008	↓					
009	D					
010	E					
208593-001	D					
002						
003						
004	↓		↓			
★ MB QC 476094	NA		NA			
LCS 5	↓		↓			
MS 6	J		7			
MSD 7	K		↓			
Δ LCS 8	NA		NA			

	Mfg & Lot# / LIMS # / Time	Date/ Initials
★0.5/0.5 mL of TEH_SURR was added to all samples	S10879B/S10955A★	~~DC~~ 12/17/08
Δ0.5/0.5 mL of TEH_SP was added to all spikes	S10905B/S10787CΔ	
pH of all samples adjusted to pH ≤ 2 with H_2SO_4	FS075640	
☒ 3520c: Samples were continually extracted about 450 mL of CH_2Cl_2	EM48289	
Extraction Start Time:	1730	
Extraction End Time:	1135	DDC 12/18/08
☐ 3510c: Samples were extracted 3 times with 60 mL of CH_2Cl_2	NA	TFB 12/18/08
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EM48315847	
Concentrated to final volume at temperature (degrees C)	100°	
Relinquished to TEH Department	✓	

12/17/08
Extraction Chemist **Date**

Contined from Page ____
Continued on Page ____

12/19/08
Reviewed by **Date**

Laboratory Job Number 208578

ANALYTICAL REPORT

Volatile Organics by GC/MS

Matrix: Water

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208578	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	TB-121008	Batch#:	146372
Lab ID:	208578-001	Sampled:	12/10/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208578	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	TB-121008	Batch#:	146372
Lab ID:	208578-001	Sampled:	12/10/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1 V1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	103	77-120	
1,2-Dichloroethane-d4	101	70-127	
Toluene-d8	94	83-125	
Bromofluorobenzene	106	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208578	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-128A-8D1	Batch#:	146372
Lab ID:	208578-002	Sampled:	12/10/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208578	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-128A-8D1	Batch#:	146372
Lab ID:	208578-002	Sampled:	12/10/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1 V1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	102	77-120	
1,2-Dichloroethane-d4	101	70-127	
Toluene-d8	100	83-125	
Bromofluorobenzene	105	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208578	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-113A-8D1	Batch#:	146372
Lab ID:	208578-003	Sampled:	12/10/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208578	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-113A-8D1	Batch#:	146372
Lab ID:	208578-003	Sampled:	12/10/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1 V1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	102	77-120	
1,2-Dichloroethane-d4	105	70-127	
Toluene-d8	103	83-125	
Bromofluorobenzene	106	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208578	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	PL-506-8D1	Batch#:	146372
Lab ID:	208578-004	Sampled:	12/10/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208578	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	PL-506-8D1	Batch#:	146372
Lab ID:	208578-004	Sampled:	12/10/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1 V1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	105	77-120	
1,2-Dichloroethane-d4	103	70-127	
Toluene-d8	99	83-125	
Bromofluorobenzene	105	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208578	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-96A-8D1	Batch#:	146373
Lab ID:	208578-005	Sampled:	12/10/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	V1
Iodomethane	ND	10	V9
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	94	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	V1
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	L1 V1
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	L1 V1
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	V9
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208578	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-96A-8D1	Batch#:	146373
Lab ID:	208578-005	Sampled:	12/10/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	L1
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1 V1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	99	77-120	
1,2-Dichloroethane-d4	81	70-127	
Toluene-d8	101	83-125	
Bromofluorobenzene	103	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208578	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-95A-8D1	Batch#:	146373
Lab ID:	208578-006	Sampled:	12/10/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	V1
Iodomethane	ND	10	V9
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	16	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	V1
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	L1 V1
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	L1 V1
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	V9
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208578	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-95A-8D1	Batch#:	146373
Lab ID:	208578-006	Sampled:	12/10/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	L1
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1 V1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	100	77-120	
1,2-Dichloroethane-d4	81	70-127	
Toluene-d8	101	83-125	
Bromofluorobenzene	106	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208578	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	PL-505-8D1	Batch#:	146373
Lab ID:	208578-007	Sampled:	12/10/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	V1
Iodomethane	ND	10	V9
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	15	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	V1
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	L1 V1
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	L1 V1
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	V9
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208578	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	PL-505-8D1	Batch#:	146373
Lab ID:	208578-007	Sampled:	12/10/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	L1
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1 V1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	102	77-120	
1,2-Dichloroethane-d4	82	70-127	
Toluene-d8	101	83-125	
Bromofluorobenzene	105	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208578	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-125A-8D1	Batch#:	146372
Lab ID:	208578-008	Sampled:	12/10/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208578	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-125A-8D1	Batch#:	146372
Lab ID:	208578-008	Sampled:	12/10/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	M1
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1 V1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	102	77-120	
1,2-Dichloroethane-d4	106	70-127	
Toluene-d8	103	83-125	
Bromofluorobenzene	103	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208578	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC476974	Batch#:	146372
Matrix:	Water	Analyzed:	12/23/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208578	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC476974	Batch#:	146372
Matrix:	Water	Analyzed:	12/23/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1 V1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	102	77-120	
1,2-Dichloroethane-d4	103	70-127	
Toluene-d8	102	83-125	
Bromofluorobenzene	101	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208578	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC476977	Batch#:	146373
Matrix:	Water	Analyzed:	12/23/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	V1
Iodomethane	ND	10	V9
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	V1
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	L1 V1
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	L1 V1
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	V9
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208578	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC476977	Batch#:	146373
Matrix:	Water	Analyzed:	12/23/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	L1
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1 V1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	112	77-120	
1,2-Dichloroethane-d4	104	70-127	
Toluene-d8	104	83-125	
Bromofluorobenzene	114	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208578	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC476973	Batch#:	146372
Matrix:	Water	Analyzed:	12/23/08
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Freon 12	20.00	19.00	95	56-140	
Chloromethane	20.00	18.05	90	46-142	
Vinyl Chloride	20.00	21.93	110	49-136	
Bromomethane	20.00	16.26	81	42-154	
Chloroethane	20.00	21.66	108	51-133	
Trichlorofluoromethane	20.00	23.07	115	63-135	
Iodomethane	20.00	17.26 b	86	70-130	
Acetone	20.00	16.15	81	48-130	
1,1-Dichloroethene	20.00	21.30	106	68-133	
Methylene Chloride	20.00	20.65	103	71-120	
Carbon Disulfide	20.00	20.15	101	56-120	
MTBE	20.00	17.91	90	58-120	
trans-1,2-Dichloroethene	20.00	20.85	104	80-120	
Vinyl Acetate	20.00	15.84 b	79	63-124	V9
1,1-Dichloroethane	20.00	19.91	100	77-120	
2-Butanone	20.00	17.11	86	57-120	
cis-1,2-Dichloroethene	20.00	20.49	102	75-120	
2,2-Dichloropropane	20.00	22.54	113	72-128	
Chloroform	20.00	19.50	98	78-120	
Bromochloromethane	20.00	19.85	99	78-120	
1,1,1-Trichloroethane	20.00	21.90	109	78-120	
1,1-Dichloropropene	20.00	19.80	99	75-120	
Carbon Tetrachloride	20.00	20.74	104	80-120	
1,2-Dichloroethane	20.00	18.77	94	74-120	
Benzene	20.00	18.62	93	77-120	
Trichloroethene	20.00	19.62	98	78-122	
1,2-Dichloropropane	20.00	19.01	95	76-120	
Bromodichloromethane	20.00	19.18	96	78-120	
Dibromomethane	20.00	20.47	102	77-120	
4-Methyl-2-Pentanone	20.00	17.62	88	65-120	
cis-1,3-Dichloropropene	20.00	18.83	94	76-120	
Toluene	20.00	20.26	101	73-120	
trans-1,3-Dichloropropene	20.00	17.49	87	72-120	
1,1,2-Trichloroethane	20.00	20.22	101	76-120	
2-Hexanone	20.00	16.99	85	57-121	
1,3-Dichloropropane	20.00	19.42	97	75-120	
Tetrachloroethene	20.00	20.93	105	77-120	

*= Value outside of QC limits; see narrative
b= See narrative

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208578	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC476973	Batch#:	146372
Matrix:	Water	Analyzed:	12/23/08
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Dibromochloromethane	20.00	18.85	94	76-120	
1,2-Dibromoethane	20.00	20.30	101	77-120	
Chlorobenzene	20.00	19.50	97	78-120	
1,1,1,2-Tetrachloroethane	20.00	19.00	95	77-120	
Ethylbenzene	20.00	20.47	102	78-120	
m,p-Xylenes	40.00	41.99	105	77-120	
o-Xylene	20.00	20.02	100	77-120	
Styrene	20.00	20.05	100	77-120	
Bromoform	20.00	19.92	100	74-121	
Isopropylbenzene	20.00	18.36	92	71-120	
1,1,2,2-Tetrachloroethane	20.00	20.69	103	73-120	
1,2,3-Trichloropropane	20.00	19.65	98	72-120	
Propylbenzene	20.00	22.88	114	76-120	
Bromobenzene	20.00	21.18	106	75-120	
1,3,5-Trimethylbenzene	20.00	21.98	110	77-120	
2-Chlorotoluene	20.00	21.37	107	76-120	
4-Chlorotoluene	20.00	20.16	101	78-120	
tert-Butylbenzene	20.00	21.37	107	76-120	
1,2,4-Trimethylbenzene	20.00	21.42	107	77-120	
sec-Butylbenzene	20.00	22.84	114	80-120	
para-Isopropyl Toluene	20.00	22.22	111	76-120	
1,3-Dichlorobenzene	20.00	19.11	96	75-120	
1,4-Dichlorobenzene	20.00	19.06	95	77-120	
n-Butylbenzene	20.00	23.15	116	76-120	
1,2-Dichlorobenzene	20.00	20.29	101	76-120	
1,2-Dibromo-3-Chloropropane	20.00	18.49	92	65-120	
1,2,4-Trichlorobenzene	20.00	19.97	100	73-121	
Hexachlorobutadiene	20.00	25.85 b	129 *	73-123	L1 V3
Naphthalene	20.00	20.18	101	62-121	
1,2,3-Trichlorobenzene	20.00	20.65	103	66-123	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	102	77-120	
1,2-Dichloroethane-d4	94	70-127	
Toluene-d8	97	83-125	
Bromofluorobenzene	103	78-120	

*= Value outside of QC limits; see narrative
b= See narrative

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208578	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-125A-8D1	Batch#:	146372
MSS Lab ID:	208578-008	Sampled:	12/10/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Type: MS Lab ID: QC476988

Analyte	MSS Result	Spiked	Result	%REC	Limits	ADEQ Flags
Freon 12	<0.2000	20.00	17.40	87	56-140	
Chloromethane	<0.2000	20.00	17.99	90	46-142	
Vinyl Chloride	<0.1394	20.00	23.99	120	49-136	
Bromomethane	<0.2000	20.00	20.15	101	42-154	
Chloroethane	<0.2153	20.00	22.24	111	51-133	
Trichlorofluoromethane	<0.2000	20.00	22.98	115	63-135	
Iodomethane	<2.000	20.00	18.27 b	91	60-140	
Acetone	<1.000	20.00	15.62	78	48-130	
1,1-Dichloroethene	<0.1391	20.00	22.33	112	68-133	
Methylene Chloride	<1.000	20.00	22.39	112	71-120	
Carbon Disulfide	<0.1000	20.00	21.45	107	56-120	
MTBE	<0.1000	20.00	18.82	94	58-120	
trans-1,2-Dichloroethene	<0.1082	20.00	22.94	115	80-120	
Vinyl Acetate	<2.000	20.00	13.76 b	69	63-124	V9
1,1-Dichloroethane	<0.1000	20.00	22.17	111	77-120	
2-Butanone	<2.000	20.00	18.23	91	57-120	
cis-1,2-Dichloroethene	<0.1267	20.00	22.08	110	75-120	
2,2-Dichloropropane	<0.1021	20.00	22.59	113	72-128	
Chloroform	<0.1048	20.00	21.09	105	78-120	
Bromochloromethane	<0.1195	20.00	20.61	103	78-120	
1,1,1-Trichloroethane	<0.1358	20.00	24.04	120	78-120	
1,1-Dichloropropene	<0.1367	20.00	21.23	106	75-120	
Carbon Tetrachloride	<0.1295	20.00	23.78	119	80-120	
1,2-Dichloroethane	<0.1080	20.00	20.77	104	74-120	
Benzene	<0.1000	20.00	20.43	102	77-120	
Trichloroethene	<0.1252	20.00	20.71	104	78-122	
1,2-Dichloropropane	<0.1143	20.00	20.55	103	76-120	
Bromodichloromethane	<0.1539	20.00	21.02	105	78-120	
Dibromomethane	<0.1298	20.00	21.59	108	77-120	
4-Methyl-2-Pentanone	<2.000	20.00	17.28	86	65-120	
cis-1,3-Dichloropropene	<0.1420	20.00	19.54	98	76-120	
Toluene	<0.1116	20.00	20.99	105	73-120	
trans-1,3-Dichloropropene	<0.1000	20.00	16.96	85	72-120	
1,1,2-Trichloroethane	<0.1347	20.00	22.05	110	76-120	
2-Hexanone	<2.000	20.00	17.31	87	57-121	
1,3-Dichloropropane	<0.1000	20.00	20.33	102	75-120	
Tetrachloroethene	<0.1217	20.00	22.12	111	77-120	
Dibromochloromethane	<0.1230	20.00	20.09	100	76-120	
1,2-Dibromoethane	<0.1000	20.00	21.15	106	77-120	
Chlorobenzene	<0.1000	20.00	21.34	107	78-120	
1,1,1,2-Tetrachloroethane	<0.1000	20.00	20.93	105	77-120	
Ethylbenzene	<0.1000	20.00	22.20	111	78-120	
m,p-Xylenes	<0.1581	40.00	44.53	111	77-120	
o-Xylene	<0.1000	20.00	21.03	105	77-120	
Styrene	<0.1000	20.00	19.79	99	77-120	
Bromoform	<0.2000	20.00	20.25	101	74-121	
Isopropylbenzene	<0.1000	20.00	21.27	106	71-120	
1,1,2,2-Tetrachloroethane	<0.1281	20.00	21.69	108	73-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208578	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-125A-8D1	Batch#:	146372
MSS Lab ID:	208578-008	Sampled:	12/10/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Analyte	MSS Result	Spiked	Result	%REC	Limits	ADEQ Flags
1,2,3-Trichloropropane	<0.1000	20.00	21.53	108	72-120	
Propylbenzene	<0.1000	20.00	22.57	113	76-120	
Bromobenzene	<0.1006	20.00	20.86	104	75-120	
1,3,5-Trimethylbenzene	<0.1000	20.00	22.79	114	77-120	
2-Chlorotoluene	<0.1000	20.00	21.91	110	76-120	
4-Chlorotoluene	<0.1000	20.00	21.16	106	78-120	
tert-Butylbenzene	<0.1000	20.00	21.74	109	76-120	
1,2,4-Trimethylbenzene	<0.1000	20.00	24.04	120	77-120	
sec-Butylbenzene	<0.1000	20.00	25.01	125 *	80-120	M1
para-Isopropyl Toluene	<0.1256	20.00	20.95	105	76-120	
1,3-Dichlorobenzene	<0.1000	20.00	18.94	95	75-120	
1,4-Dichlorobenzene	<0.1000	20.00	19.69	98	77-120	
n-Butylbenzene	<0.1458	20.00	22.53	113	76-120	
1,2-Dichlorobenzene	<0.1000	20.00	21.07	105	76-120	
1,2-Dibromo-3-Chloropropane	<0.5389	20.00	18.64	93	65-120	
1,2,4-Trichlorobenzene	<0.1114	20.00	18.30	91	73-121	
Hexachlorobutadiene	<0.4000	20.00	21.44 b	107	73-123	V3
Naphthalene	<0.4000	20.00	18.72	94	62-121	
1,2,3-Trichlorobenzene	<0.1000	20.00	18.92	95	66-123	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	104	77-120	
1,2-Dichloroethane-d4	104	70-127	
Toluene-d8	104	83-125	
Bromofluorobenzene	102	78-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208578	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-125A-8D1	Batch#:	146372
MSS Lab ID:	208578-008	Sampled:	12/10/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Type: MSD Lab ID: QC476989

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
Freon 12	20.00	15.34	77	56-140	13	24	
Chloromethane	20.00	16.24	81	46-142	10	24	
Vinyl Chloride	20.00	21.85	109	49-136	9	24	
Bromomethane	20.00	21.59	108	42-154	7	24	
Chloroethane	20.00	19.04	95	51-133	16	25	
Trichlorofluoromethane	20.00	19.96	100	63-135	14	20	
Iodomethane	20.00	20.43 b	102	60-140	11	30	
Acetone	20.00	15.07	75	48-130	4	41	
1,1-Dichloroethene	20.00	22.12	111	68-133	1	20	
Methylene Chloride	20.00	20.82	104	71-120	7	20	
Carbon Disulfide	20.00	19.38	97	56-120	10	20	
MTBE	20.00	18.27	91	58-120	3	21	
trans-1,2-Dichloroethene	20.00	20.96	105	80-120	9	24	
Vinyl Acetate	20.00	14.86 b	74	63-124	8	24	V9
1,1-Dichloroethane	20.00	20.45	102	77-120	8	20	
2-Butanone	20.00	17.22	86	57-120	6	32	
cis-1,2-Dichloroethene	20.00	21.75	109	75-120	1	20	
2,2-Dichloropropane	20.00	20.57	103	72-128	9	24	
Chloroform	20.00	19.55	98	78-120	8	20	
Bromochloromethane	20.00	19.25	96	78-120	7	20	
1,1,1-Trichloroethane	20.00	22.40	112	78-120	7	20	
1,1-Dichloropropene	20.00	20.50	102	75-120	3	21	
Carbon Tetrachloride	20.00	22.32	112	80-120	6	21	
1,2-Dichloroethane	20.00	19.97	100	74-120	4	20	
Benzene	20.00	19.67	98	77-120	4	20	
Trichloroethene	20.00	19.62	98	78-122	5	20	
1,2-Dichloropropane	20.00	20.16	101	76-120	2	20	
Bromodichloromethane	20.00	20.93	105	78-120	0	20	
Dibromomethane	20.00	21.24	106	77-120	2	20	
4-Methyl-2-Pentanone	20.00	17.42	87	65-120	1	22	
cis-1,3-Dichloropropene	20.00	19.20	96	76-120	2	20	
Toluene	20.00	20.10	101	73-120	4	20	
trans-1,3-Dichloropropene	20.00	17.51	88	72-120	3	20	
1,1,2-Trichloroethane	20.00	21.05	105	76-120	5	20	
2-Hexanone	20.00	17.21	86	57-121	1	25	
1,3-Dichloropropane	20.00	19.91	100	75-120	2	20	
Tetrachloroethene	20.00	20.15	101	77-120	9	20	
Dibromochloromethane	20.00	18.58	93	76-120	8	20	
1,2-Dibromoethane	20.00	20.55	103	77-120	3	20	
Chlorobenzene	20.00	18.76	94	78-120	13	20	
1,1,1,2-Tetrachloroethane	20.00	18.81	94	77-120	11	20	
Ethylbenzene	20.00	19.87	99	78-120	11	26	
m,p-Xylenes	40.00	42.25	106	77-120	5	20	
o-Xylene	20.00	19.87	99	77-120	6	20	
Styrene	20.00	17.80	89	77-120	11	20	
Bromoform	20.00	19.44	97	74-121	4	21	
Isopropylbenzene	20.00	19.28	96	71-120	10	20	
1,1,2,2-Tetrachloroethane	20.00	20.39	102	73-120	6	20	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208578	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-125A-8D1	Batch#:	146372
MSS Lab ID:	208578-008	Sampled:	12/10/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
1,2,3-Trichloropropane	20.00	20.11	101	72-120	7	20	
Propylbenzene	20.00	22.42	112	76-120	1	20	
Bromobenzene	20.00	20.93	105	75-120	0	20	
1,3,5-Trimethylbenzene	20.00	22.97	115	77-120	1	20	
2-Chlorotoluene	20.00	21.87	109	76-120	0	20	
4-Chlorotoluene	20.00	20.33	102	78-120	4	20	
tert-Butylbenzene	20.00	21.30	107	76-120	2	21	
1,2,4-Trimethylbenzene	20.00	21.52	108	77-120	11	20	
sec-Butylbenzene	20.00	22.17	111	80-120	12	21	
para-Isopropyl Toluene	20.00	21.32	107	76-120	2	20	
1,3-Dichlorobenzene	20.00	19.21	96	75-120	1	20	
1,4-Dichlorobenzene	20.00	19.38	97	77-120	2	23	
n-Butylbenzene	20.00	21.78	109	76-120	3	21	
1,2-Dichlorobenzene	20.00	20.39	102	76-120	3	20	
1,2-Dibromo-3-Chloropropane	20.00	19.62	98	65-120	5	22	
1,2,4-Trichlorobenzene	20.00	18.06	90	73-121	1	20	
Hexachlorobutadiene	20.00	20.84 b	104	73-123	3	25	V3
Naphthalene	20.00	19.18	96	62-121	2	32	
1,2,3-Trichlorobenzene	20.00	19.12	96	66-123	1	29	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	101	77-120	
1,2-Dichloroethane-d4	99	70-127	
Toluene-d8	96	83-125	
Bromofluorobenzene	96	78-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208578	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	146373
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Type: BS Lab ID: QC476975

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Freon 12	20.00	21.63	108	56-140	
Chloromethane	20.00	17.14	86	46-142	
Vinyl Chloride	20.00	20.82	104	49-136	
Bromomethane	20.00	16.68	83	42-154	
Chloroethane	20.00	19.96	100	51-133	
Trichlorofluoromethane	20.00	24.51 b	123	63-135	V3
Iodomethane	20.00	14.34 b	72	70-130	V9
Acetone	20.00	19.11	96	48-130	
1,1-Dichloroethene	20.00	22.10	110	68-133	
Methylene Chloride	20.00	22.52	113	71-120	
Carbon Disulfide	20.00	19.61	98	56-120	
MTBE	20.00	21.91	110	58-120	
trans-1,2-Dichloroethene	20.00	21.76	109	80-120	
Vinyl Acetate	20.00	15.30 b	77	63-124	V9
1,1-Dichloroethane	20.00	22.62	113	77-120	
2-Butanone	20.00	19.59	98	57-120	
cis-1,2-Dichloroethene	20.00	21.67	108	75-120	
2,2-Dichloropropane	20.00	24.76 b	124	72-128	V3
Chloroform	20.00	23.04	115	78-120	
Bromochloromethane	20.00	21.80	109	78-120	
1,1,1-Trichloroethane	20.00	25.69 b	128 *	78-120	L1 V3
1,1-Dichloropropene	20.00	23.04	115	75-120	
Carbon Tetrachloride	20.00	26.73 b	134 *	80-120	L1 V3
1,2-Dichloroethane	20.00	21.98	110	74-120	
Benzene	20.00	20.25	101	77-120	
Trichloroethene	20.00	22.79	114	78-122	
1,2-Dichloropropane	20.00	20.69	103	76-120	
Bromodichloromethane	20.00	22.76	114	78-120	
Dibromomethane	20.00	21.90	109	77-120	
4-Methyl-2-Pentanone	20.00	19.19	96	65-120	
cis-1,3-Dichloropropene	20.00	20.96	105	76-120	
Toluene	20.00	21.85	109	73-120	
trans-1,3-Dichloropropene	20.00	19.36	97	72-120	
1,1,2-Trichloroethane	20.00	22.25	111	76-120	
2-Hexanone	20.00	15.77 b	79	57-121	V9
1,3-Dichloropropane	20.00	19.38	97	75-120	
Tetrachloroethene	20.00	21.76	109	77-120	
Dibromochloromethane	20.00	19.02	95	76-120	
1,2-Dibromoethane	20.00	23.05	115	77-120	
Chlorobenzene	20.00	18.66	93	78-120	
1,1,1,2-Tetrachloroethane	20.00	19.93	100	77-120	
Ethylbenzene	20.00	20.37	102	78-120	
m,p-Xylenes	40.00	38.88	97	77-120	
o-Xylene	20.00	19.00	95	77-120	
Styrene	20.00	17.93	90	77-120	
Bromoform	20.00	20.34	102	74-121	
Isopropylbenzene	20.00	17.79	89	71-120	
1,1,2,2-Tetrachloroethane	20.00	18.82	94	73-120	
1,2,3-Trichloropropane	20.00	18.73	94	72-120	
Propylbenzene	20.00	19.09	95	76-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208578	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	146373
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Bromobenzene	20.00	18.69	93	75-120	
1,3,5-Trimethylbenzene	20.00	18.09	90	77-120	
2-Chlorotoluene	20.00	18.79	94	76-120	
4-Chlorotoluene	20.00	18.22	91	78-120	
tert-Butylbenzene	20.00	18.63	93	76-120	
1,2,4-Trimethylbenzene	20.00	17.86	89	77-120	
sec-Butylbenzene	20.00	18.92	95	80-120	
para-Isopropyl Toluene	20.00	17.34	87	76-120	
1,3-Dichlorobenzene	20.00	18.43	92	75-120	
1,4-Dichlorobenzene	20.00	17.66	88	77-120	
n-Butylbenzene	20.00	19.45	97	76-120	
1,2-Dichlorobenzene	20.00	18.55	93	76-120	
1,2-Dibromo-3-Chloropropane	20.00	17.28	86	65-120	
1,2,4-Trichlorobenzene	20.00	18.04	90	73-121	
Hexachlorobutadiene	20.00	26.16 b	131 *	73-123	L1 V3
Naphthalene	20.00	17.27	86	62-121	
1,2,3-Trichlorobenzene	20.00	18.51	93	66-123	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	112	77-120	
1,2-Dichloroethane-d4	103	70-127	
Toluene-d8	104	83-125	
Bromofluorobenzene	99	78-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208578	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	146373
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Type: BSD Lab ID: QC476976

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
Freon 12	20.00	24.38	122	56-140	12	24	
Chloromethane	20.00	17.38	87	46-142	1	24	
Vinyl Chloride	20.00	22.46	112	49-136	8	24	
Bromomethane	20.00	18.75	94	42-154	12	24	
Chloroethane	20.00	21.87	109	51-133	9	25	
Trichlorofluoromethane	20.00	26.50 b	133	63-135	8	20	V3
Iodomethane	20.00	17.54 b	88	70-130	20	20	V9
Acetone	20.00	22.27	111	48-130	15	41	
1,1-Dichloroethene	20.00	22.24	111	68-133	1	20	
Methylene Chloride	20.00	23.24	116	71-120	3	20	
Carbon Disulfide	20.00	19.64	98	56-120	0	20	
MTBE	20.00	21.74	109	58-120	1	21	
trans-1,2-Dichloroethene	20.00	22.51	113	80-120	3	24	
Vinyl Acetate	20.00	15.54 b	78	63-124	2	24	V9
1,1-Dichloroethane	20.00	22.65	113	77-120	0	20	
2-Butanone	20.00	20.98	105	57-120	7	32	
cis-1,2-Dichloroethene	20.00	22.55	113	75-120	4	20	
2,2-Dichloropropane	20.00	24.85 b	124	72-128	0	24	V3
Chloroform	20.00	23.57	118	78-120	2	20	
Bromochloromethane	20.00	22.80	114	78-120	4	20	
1,1,1-Trichloroethane	20.00	26.11 b	131 *	78-120	2	20	L1 V3
1,1-Dichloropropene	20.00	23.59	118	75-120	2	21	
Carbon Tetrachloride	20.00	26.30 b	131 *	80-120	2	21	L1 V3
1,2-Dichloroethane	20.00	22.34	112	74-120	2	20	
Benzene	20.00	20.54	103	77-120	1	20	
Trichloroethene	20.00	22.67	113	78-122	1	20	
1,2-Dichloropropane	20.00	21.34	107	76-120	3	20	
Bromodichloromethane	20.00	22.95	115	78-120	1	20	
Dibromomethane	20.00	22.94	115	77-120	5	20	
4-Methyl-2-Pentanone	20.00	20.29	101	65-120	6	22	
cis-1,3-Dichloropropene	20.00	21.53	108	76-120	3	20	
Toluene	20.00	22.07	110	73-120	1	20	
trans-1,3-Dichloropropene	20.00	19.42	97	72-120	0	20	
1,1,2-Trichloroethane	20.00	23.57	118	76-120	6	20	
2-Hexanone	20.00	16.78 b	84	57-121	6	25	V9
1,3-Dichloropropane	20.00	19.87	99	75-120	3	20	
Tetrachloroethene	20.00	21.90	110	77-120	1	20	
Dibromochloromethane	20.00	19.50	98	76-120	2	20	
1,2-Dibromoethane	20.00	24.14	121 *	77-120	5	20	L1
Chlorobenzene	20.00	19.05	95	78-120	2	20	
1,1,1,2-Tetrachloroethane	20.00	20.01	100	77-120	0	20	
Ethylbenzene	20.00	20.54	103	78-120	1	26	
m,p-Xylenes	40.00	39.18	98	77-120	1	20	
o-Xylene	20.00	19.30	96	77-120	2	20	
Styrene	20.00	18.30	92	77-120	2	20	
Bromoform	20.00	20.53	103	74-121	1	21	
Isopropylbenzene	20.00	17.91	90	71-120	1	20	
1,1,2,2-Tetrachloroethane	20.00	19.30	96	73-120	2	20	
1,2,3-Trichloropropane	20.00	19.38	97	72-120	3	20	
Propylbenzene	20.00	19.09	95	76-120	0	20	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208578	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	146373
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
Bromobenzene	20.00	19.10	96	75-120	2	20	
1,3,5-Trimethylbenzene	20.00	18.50	92	77-120	2	20	
2-Chlorotoluene	20.00	19.07	95	76-120	1	20	
4-Chlorotoluene	20.00	18.47	92	78-120	1	20	
tert-Butylbenzene	20.00	19.16	96	76-120	3	21	
1,2,4-Trimethylbenzene	20.00	18.34	92	77-120	3	20	
sec-Butylbenzene	20.00	19.52	98	80-120	3	21	
para-Isopropyl Toluene	20.00	18.38	92	76-120	6	20	
1,3-Dichlorobenzene	20.00	19.05	95	75-120	3	20	
1,4-Dichlorobenzene	20.00	18.23	91	77-120	3	23	
n-Butylbenzene	20.00	20.53	103	76-120	5	21	
1,2-Dichlorobenzene	20.00	19.05	95	76-120	3	20	
1,2-Dibromo-3-Chloropropane	20.00	17.53	88	65-120	1	22	
1,2,4-Trichlorobenzene	20.00	18.65	93	73-121	3	20	
Hexachlorobutadiene	20.00	28.34 b	142 *	73-123	8	25	L1 V3
Naphthalene	20.00	17.94	90	62-121	4	32	
1,2,3-Trichlorobenzene	20.00	19.24	96	66-123	4	29	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	111	77-120	
1,2-Dichloroethane-d4	103	70-127	
Toluene-d8	104	83-125	
Bromofluorobenzene	98	78-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

CURTIS & TOMPKINS BFB TUNE FOR 208578 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 458468482014 File : fkk14 Time : 20-NOV-2008 16:09

Standards: S9454

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	13627	15.43	
75	30% - 60% of mass 95	34213	38.75	
95		88293		
96	5% - 9% of mass 95	5645	6.39	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	77104	87.33	
175	5% - 9% of mass 174	5993	7.77	
176	> 95% and < 101% of mass 174	76701	99.48	
177	5% - 9% of mass 176	5145	6.71	

Analyst: BO Date: 11/21/08 Reviewer: ACM Date: 11/21/08

CURTIS & TOMPKINS BFB TUNE FOR 208578 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 458515995002 File : fln02 Time : 23-DEC-2008 08:26

Standards: S10902

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	32269	15.26	
75	30% - 60% of mass 95	80490	38.05	
95		211518		
96	5% - 9% of mass 95	15144	7.16	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	182656	86.35	
175	5% - 9% of mass 174	14574	7.98	
176	> 95% and < 101% of mass 174	175360	96.01	
177	5% - 9% of mass 176	12590	7.18	

Analyst: BO Date: 12/23/08 Reviewer: LW Date: 12/24/08

CURTIS & TOMPKINS BFB TUNE FOR 208578 MSVOA Water
EPA 8260B

Inst : MSVOA11 Run Name : BFB IDF : 1.0
Seqnum : 838465788012 File : kke12 Time : 18-NOV-2008 16:19

Standards: S9454

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	7127	15.88	
75	30% - 60% of mass 95	18835	41.98	
95		44868		
96	5% - 9% of mass 95	3178	7.08	
173	< 2% of mass 174	180	0.50	
174	> 50% and < 100% of mass 95	35728	79.63	
175	5% - 9% of mass 174	2545	7.12	
176	> 95% and < 101% of mass 174	34880	97.63	
177	5% - 9% of mass 176	1827	5.24	

Analyst: SJD Date: 11/19/08 Reviewer: LW Date: 11/20/08

CURTIS & TOMPKINS BFB TUNE FOR 208578 MSVOA Water
EPA 8260B

Inst : MSVOA11 Run Name : BFB IDF : 1.0
Seqnum : 838515986002 File : kln02 Time : 23-DEC-2008 08:23

Standards: S10902

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	12258	15.99	
75	30% - 60% of mass 95	35912	46.85	
95		76650		
96	5% - 9% of mass 95	5209	6.80	
173	< 2% of mass 174	376	0.59	
174	> 50% and < 100% of mass 95	64242	83.81	
175	5% - 9% of mass 174	4823	7.51	
176	> 95% and < 101% of mass 174	61890	96.34	
177	5% - 9% of mass 176	4058	6.56	

Analyst: BO Date: 12/23/08 Reviewer: LW Date: 12/24/08

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 208578 MSVOA Water: EPA 8260B

Inst : MSVOA06 Name : 826GOX6W
Calnum : 458468482002 Date : 20-NOV-2008 18:54 Type : WATER
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	fkk19	458468482019	0.25PPB	20-NOV-2008 18:54	S10756 (2000000X), S10619 (2000000X), S10653 (1000000X), S9073 (2000000X), S10447 (1000X)
L2	fkk20	458468482020	0.5PPB	20-NOV-2008 19:28	S10756 (1000000X), S10619 (1000000X), S10653 (500000X), S9073 (1000000X), S10447 (1000X)
L3	fkk21	458468482021	2PPB	20-NOV-2008 20:02	S10756 (250000X), S10619 (250000X), S10653 (250000X), S9073 (500000X), S10447 (1000X)
L4	fkk22	458468482022	5PPB	20-NOV-2008 20:36	S10756 (100000X), S10619 (100000X), S10653 (100000X), S9073 (200000X), S10447 (1000X)
L5	fkk23	458468482023	10PPB	20-NOV-2008 21:11	S10756 (50000X), S10619 (50000X), S10653 (50000X), S9073 (100000X), S10447 (1000X)
L6	fkk24	458468482024	20PPB	20-NOV-2008 21:45	S10756 (25000X), S10619 (25000X), S10653 (25000X), S9073 (50000X), S10447 (1000X)
L7	fkk25	458468482025	50PPB	20-NOV-2008 22:19	S10756 (10000X), S10619 (10000X), S10653 (10000X), S9073 (20000X), S10447 (1000X)
L8	fkk26	458468482026	75PPB	20-NOV-2008 22:53	S10756 (6667X), S10619 (6667X), S10653 (6667X), S9073 (13330X), S10447 (1000X)
L9	fkk27	458468482027	100PPB	20-NOV-2008 23:28	S10756 (5000X), S10619 (5000X), S10653 (5000X), S9073 (10000X), S10447 (1000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12	0.6477m	0.5656m	0.8454m	0.5532	0.5981	0.5029	0.6945	0.8107		QUAD	0.07610	1.80204	-0.00946	0.6523	0.998	15	0.05	0.99	
Chloromethane		0.9120	1.0398m	0.8574m	0.9261	0.7973	0.8813	0.8769	0.9183	AVRG		1.10970		0.9011	8	15	0.10	0.99	
Vinyl Chloride	0.6186	0.5959m	0.7893m	0.5598m	0.6264	0.5569	0.6827	0.7578	0.7322	AVRG		1.52036		0.6577	13	15	0.05	0.99	
Bromomethane		0.1930m	0.2567m	0.2550m	0.3034	0.2679	0.3026	0.3182	0.3165	AVRG		3.61455		0.2767	15	15	0.05	0.99	
Chloroethane		0.2923	0.4104m	0.3212m	0.3726	0.3217	0.3698	0.3835	0.3545	AVRG		2.83075		0.3533	11	15	0.05	0.99	
Trichlorofluoromethane	0.8273	0.6040	0.8892	0.5834	0.6697	0.5610	0.7684	0.8422		QUAD	0.22995	1.57748	-0.00635	0.7181	0.998	15	0.05	0.99	
Acetone			0.3710	0.3072	0.3329	0.3066	0.3294	0.3094	0.3034	AVRG		3.09739		0.3229	8	15	0.05	0.99	
1,1-Dichloroethene		0.5390	0.5372	0.4875	0.5458	0.5394	0.5632	0.5255	0.5359	AVRG		1.87202		0.5342	4	15	0.05	0.99	
Iodomethane	0.2512m	0.2547	0.1985	0.2369	0.4263	0.5013	0.6536			QUAD	0.98411	2.12895	-0.01928	0.3604	0.998	15	0.05	0.99	
Methylene Chloride			0.7555	0.7020	0.7777	0.7282	0.7274	0.7409	0.6984	AVRG		1.36448		0.7329	4	15	0.05	0.99	
Carbon Disulfide		1.9732	2.0441	1.9382	2.1352	2.1460	2.1501	2.1023	2.0997	AVRG		0.48225		2.0736	4	15	0.05	0.99	
MTBE		1.8448	1.9060	1.8521	2.0989	1.9539	1.9188	1.8955	1.8013	AVRG		0.52386		1.9089	5	15	0.05	0.99	
trans-1,2-Dichloroethene		0.5724	0.6436	0.5699	0.6624	0.6271	0.6206	0.6152	0.6125	AVRG		1.62478		0.6155	5	15	0.05	0.99	
Vinyl Acetate			1.4646	1.3551	1.4651	1.4441	1.3282	1.1582	1.2586	AVRG		0.73887		1.3534	9	15	0.05	0.99	
1,1-Dichloroethane		1.1776	1.3258	1.1169	1.2878	1.2281	1.2081	1.1790	1.1551	AVRG		0.82659		1.2098	6	15	0.10	0.99	
2-Butanone			0.4453	0.3964	0.4502	0.4328	0.4482	0.3979	0.4069	AVRG		2.35082		0.4254	6	15	0.05	0.99	
2,2-Dichloropropane		0.6786	0.6640	0.6592	0.7122	0.6598	0.7015	0.6263	0.6552	AVRG		1.49344		0.6696	4	15	0.05	0.99	
cis-1,2-Dichloroethene		0.7223	0.7479	0.6878	0.7508	0.7135	0.7124	0.6781	0.6675	AVRG		1.40840		0.7100	4	15	0.05	0.99	
Chloroform		1.1011	1.1817	0.9979	1.1557	1.1104	1.1029	1.0849	1.0483	AVRG		0.91087		1.0978	5	15	0.05	0.99	
Bromochloromethane		0.4453	0.4569	0.4219	0.4393	0.4106	0.4205	0.4021	0.3778	AVRG		2.37086		0.4218	6	15	0.05	0.99	
1,1,1-Trichloroethane		0.6786	0.6238	0.6419	0.6958	0.6787	0.7016	0.6478	0.6849	AVRG		1.49443		0.6692	4	15	0.05	0.99	
1,1-Dichloropropene		0.4729	0.4341	0.4096	0.4634	0.4519	0.4448	0.4139	0.4414	AVRG		2.26500		0.4415	5	15	0.05	0.99	
Carbon Tetrachloride		0.3579	0.3097	0.3470	0.3746	0.3690	0.4029	0.3392	0.3707	AVRG		2.78631		0.3589	8	15	0.05	0.99	
1,2-Dichloroethane		0.4235	0.4701	0.4850	0.5038	0.4928	0.4932	0.4776	0.4512	AVRG		2.10680		0.4747	6	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		1.4164	1.5484	1.4447	1.5657	1.5800	1.5338	1.4807	1.4213	AVRG		0.66716		1.4989	4	15	0.05	0.99	
Trichloroethene		0.3697	0.3608	0.3472	0.3727	0.3785	0.3762	0.3664	0.3544	AVRG		2.73401		0.3658	3	15	0.05	0.99	
1,2-Dichloropropane		0.4435	0.4550	0.4382	0.4770	0.4693	0.4468	0.4365	0.3983	AVRG		2.24433		0.4456	5	15	0.05	0.99	
Bromodichloromethane		0.4415	0.4802	0.4840	0.5273	0.5310	0.5354	0.5045	0.4853	AVRG		2.00542		0.4986	6	15	0.05	0.99	
Dibromomethane		0.2300	0.2969	0.2910	0.3043	0.3130	0.3027	0.2996	0.2881	AVRG		3.44004		0.2907	9	15	0.05	0.99	
4-Methyl-2-Pentanone			0.4959	0.4811	0.5008	0.5289	0.5033	0.4753	0.4843	AVRG		2.01743		0.4957	4	15	0.05	0.99	
cis-1,3-Dichloropropene		0.6246	0.6565	0.6505	0.6813	0.6704	0.6664	0.6453	0.6113	AVRG		1.53661		0.6508	4	15	0.05	0.99	
Toluene		0.8146	0.8853	0.8122	0.9430	0.8216	0.8864	0.8331	0.7821	AVRG		1.18022		0.8473	6	15	0.05	0.99	
trans-1,3-Dichloropropene		0.5134	0.5798	0.5280	0.6186	0.5837	0.6048	0.5817	0.5529	AVRG		1.75321		0.5704	6	15	0.05	0.99	
1,1,2-Trichloroethane		0.1829	0.1999	0.2064	0.2296	0.2242	0.2147	0.2110	0.2022	AVRG		4.78775		0.2089	7	15	0.05	0.99	
2-Hexanone			0.4174	0.3862	0.4263	0.4429	0.4268	0.4108	0.3985	AVRG		2.40632		0.4156	5	15	0.05	0.99	
1,3-Dichloropropane		0.7309	0.7680	0.7370	0.8303	0.7496	0.7260	0.7478	0.7151	AVRG		1.33229		0.7506	5	15	0.05	0.99	
Tetrachloroethene		0.4671	0.3880	0.3940	0.4274	0.4027	0.4365	0.3896	0.4448	AVRG		2.38796		0.4188	7	15	0.05	0.99	
Dibromochloromethane		0.5128	0.5363	0.5575	0.6187	0.5950	0.5587	0.5842	0.5715	AVRG		1.76417		0.5668	6	15	0.05	0.99	
1,2-Dibromoethane		0.3918	0.4380	0.4352	0.4647	0.4605	0.4395	0.4345	0.4239	AVRG		2.29346		0.4360	5	15	0.05	0.99	
Chlorobenzene		1.2018	1.3036	1.2462	1.3654	1.2216	1.2035	1.1940	1.1691	AVRG		0.80766		1.2382	5	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.4243	0.4402	0.4451	0.4881	0.4392	0.4457	0.4558	0.4371	AVRG		2.23746		0.4469	4	15	0.05	0.99	
Ethylbenzene		1.8818	1.8141	1.7404	1.8654	1.7387	1.7386	1.6694	1.7063	AVRG		0.56518		1.7693	4	15	0.05	0.99	
m,p-Xylenes	0.6758	0.7117	0.7093	0.6555	0.7591	0.6902	0.6493	0.6463	0.6219	AVRG		1.47082		0.6799	6	15	0.05	0.99	
o-Xylene		0.7474	0.7130	0.7380	0.8050	0.7101	0.7081	0.6705	0.6743	AVRG		1.38732		0.7208	6	15	0.05	0.99	
Styrene		1.1668	1.2083	1.2783	1.3591	1.2751	1.2064	1.2359	1.1947	AVRG		0.80609		1.2406	5	15	0.05	0.99	
Bromoform		0.3384	0.4010	0.3872	0.4298	0.4176	0.4104	0.4216	0.4280	AVRG		2.47363		0.4043	7	15	0.10	0.99	
Isopropylbenzene		3.0309	3.1358	2.8764	3.1730	3.2802	3.1139	2.6768	3.0122	AVRG		0.32923		3.0374	6	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		1.2187	1.3367	1.2470	1.3233	1.3741	1.2816	1.1398	1.1738	AVRG		0.79248		1.2619	7	15	0.30	0.99	
1,2,3-Trichloropropane		0.9947	1.0412	0.9590	1.0409	1.0688	0.9486	0.8885	0.9096	AVRG		1.01894		0.9814	7	15	0.05	0.99	
Propylbenzene		3.6590	3.6765	3.6088	3.8859	3.6238	3.5999	2.9929	3.2114	AVRG		0.28310		3.5323	8	15	0.05	0.99	
Bromobenzene		1.0963	1.1176	1.1603	1.1995	1.1560	1.0828	1.0219	0.9894	AVRG		0.90664		1.1030	6	15	0.05	0.99	
1,3,5-Trimethylbenzene		2.7137	2.5669	2.3754	2.5792	2.5702	2.4624	2.0936	2.1615	AVRG		0.40977		2.4404	9	15	0.05	0.99	
2-Chlorotoluene		2.6839	2.7820	2.5064	2.7425	2.6461	2.4760	2.2110	2.1634	AVRG		0.39582		2.5264	9	15	0.05	0.99	
4-Chlorotoluene		2.5391	2.6318	2.3726	2.6948	2.5134	2.4123	2.2333	2.2632	AVRG		0.40691		2.4576	7	15	0.05	0.99	
tert-Butylbenzene		2.0682	2.1355	2.0728	2.3030	2.1681	2.1491	1.7917	2.0084	AVRG		0.47913		2.0871	7	15	0.05	0.99	
1,2,4-Trimethylbenzene		2.4841	2.6946	2.4595	2.8300	2.7523	2.4361	2.3412	2.3804	AVRG		0.39258		2.5473	7	15	0.05	0.99	
sec-Butylbenzene		2.6941	2.9373	2.8182	3.2195	3.0012	2.9793	2.5388	2.8537	AVRG		0.34719		2.8803	7	15	0.05	0.99	
para-Isopropyl Toluene		2.3222	2.4065	2.4900	2.8276	2.5056	2.4662	2.2356	2.4075	AVRG		0.40689		2.4577	7	15	0.05	0.99	
1,3-Dichlorobenzene		1.8624	1.9265	1.8008	2.0384	2.0149	1.7742	1.7265	1.7346	AVRG		0.53770		1.8598	7	15	0.05	0.99	
1,4-Dichlorobenzene		1.9640	1.9539	1.7998	2.0434	2.0272	1.8866	1.8327	1.7681	AVRG		0.52371		1.9095	5	15	0.05	0.99	
n-Butylbenzene		2.0336	2.0045	1.9628	2.3176	2.0874	2.1481	1.9081	2.0601	AVRG		0.48420		2.0653	6	15	0.05	0.99	
1,2-Dichlorobenzene		1.6521	1.8060	1.8047	1.9114	1.8783	1.7213	1.7061	1.6942	AVRG		0.56441		1.7718	5	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.2027	0.2132	0.1812	0.1817	0.2018	0.1917	0.1875	0.1815	AVRG		5.19028		0.1927	6	15	0.05	0.99	
1,2,4-Trichlorobenzene		0.9808	1.0314	0.9145	1.0720	0.9912	0.9648	0.9062	0.9141	AVRG		1.02892		0.9719	6	15	0.05	0.99	
Hexachlorobutadiene		0.3912	0.3325	0.3555	0.3981	0.3490	0.3611	0.2936	0.3587	AVRG		2.81722		0.3550	9	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene		2.4957	2.6121	2.5931	2.9375	3.0324	2.8585	2.8640	2.8128	AVRG		0.36026		2.7758	7	15	0.05	0.99	
1,2,3-Trichlorobenzene		0.9184	0.8977	0.8231	0.9863	1.0044	0.8833	0.8869	0.9203	AVRG		1.09283		0.9151	6	15	0.05	0.99	
Dibromofluoromethane	0.6058	0.6022	0.6119	0.6105	0.5974	0.6059	0.5972	0.5918	0.5932	AVRG		1.66175		0.6018	1	15	0.05	0.99	
1,2-Dichloroethane-d4	0.3077	0.3168	0.3283	0.3237	0.3184	0.3303	0.3215	0.3005	0.3060	AVRG		3.15437		0.3170	3	15	0.05	0.99	
Toluene-d8	1.0044	0.9486	1.0031	1.0163	0.9886	1.0385	0.9811	1.0217	1.0037	AVRG		0.99934		1.0007	3	15	0.05	0.99	
Bromofluorobenzene	1.0593	0.9793	1.0003	1.0272	1.0410	1.0415	0.9604	0.8944	0.9258	AVRG		1.00794		0.9921	6	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Freon 12	0.500	32	1.000	9	2.000	55	5.000	0	10.00	5	20.00	-14	50.00	2	75.00	0		
Chloromethane			1.000	1	2.000	15	5.000	-5	10.00	3	20.00	-12	50.00	-2	75.00	-3	100.0	2
Vinyl Chloride	0.500	-6	1.000	-9	2.000	20	5.000	-15	10.00	-5	20.00	-15	50.00	4	75.00	15	100.0	11
Bromomethane			1.000	-30	2.000	-7	5.000	-8	10.00	10	20.00	-3	50.00	9	75.00	15	100.0	14
Chloroethane			1.000	-17	2.000	16	5.000	-9	10.00	5	20.00	-9	50.00	5	75.00	9	100.0	0
Trichlorofluoromethane	0.500	76	1.000	18	2.000	51	5.000	-4	10.00	5	20.00	-14	50.00	3	75.00	-1		
Acetone					2.000	15	5.000	-5	10.00	3	20.00	-5	50.00	2	75.00	-4	100.0	-6
1,1-Dichloroethene			0.500	1	2.000	1	5.000	-9	10.00	2	20.00	1	50.00	5	75.00	-2	100.0	0
Iodomethane	0.250	347	0.500	151	2.000	-9	5.000	-30	10.00	-3	20.00	2	50.00	0				
Methylene Chloride					2.000	3	5.000	-4	10.00	6	20.00	-1	50.00	-1	75.00	1	100.0	-5
Carbon Disulfide			0.500	-5	2.000	-1	5.000	-7	10.00	3	20.00	3	50.00	4	75.00	1	100.0	1
MTBE			0.500	-3	2.000	0	5.000	-3	10.00	10	20.00	2	50.00	1	75.00	-1	100.0	-6
trans-1,2-Dichloroethene			0.500	-7	2.000	5	5.000	-7	10.00	8	20.00	2	50.00	1	75.00	0	100.0	0
Vinyl Acetate					2.000	8	5.000	0	10.00	8	20.00	7	50.00	-2	75.00	-14	100.0	-7
1,1-Dichloroethane			0.500	-3	2.000	10	5.000	-8	10.00	6	20.00	2	50.00	0	75.00	-3	100.0	-5
2-Butanone					2.000	5	5.000	-7	10.00	6	20.00	2	50.00	5	75.00	-6	100.0	-4
2,2-Dichloropropane			0.500	1	2.000	-1	5.000	-2	10.00	6	20.00	-1	50.00	5	75.00	-6	100.0	-2
cis-1,2-Dichloroethene			0.500	2	2.000	5	5.000	-3	10.00	6	20.00	0	50.00	0	75.00	-5	100.0	-6
Chloroform			0.500	0	2.000	8	5.000	-9	10.00	5	20.00	1	50.00	0	75.00	-1	100.0	-5
Bromochloromethane			0.500	6	2.000	8	5.000	0	10.00	4	20.00	-3	50.00	0	75.00	-5	100.0	-10
1,1,1-Trichloroethane			0.500	1	2.000	-7	5.000	-4	10.00	4	20.00	1	50.00	5	75.00	-3	100.0	2
1,1-Dichloropropene			0.500	7	2.000	-2	5.000	-7	10.00	5	20.00	2	50.00	1	75.00	-6	100.0	0
Carbon Tetrachloride			0.500	0	2.000	-14	5.000	-3	10.00	4	20.00	3	50.00	12	75.00	-5	100.0	3
1,2-Dichloroethane			0.500	-11	2.000	-1	5.000	2	10.00	6	20.00	4	50.00	4	75.00	1	100.0	-5
Benzene			0.500	-6	2.000	3	5.000	-4	10.00	4	20.00	5	50.00	2	75.00	-1	100.0	-5
Trichloroethene			0.500	1	2.000	-1	5.000	-5	10.00	2	20.00	3	50.00	3	75.00	0	100.0	-3
1,2-Dichloropropane			0.500	0	2.000	2	5.000	-2	10.00	7	20.00	5	50.00	0	75.00	-2	100.0	-11
Bromodichloromethane			0.500	-11	2.000	-4	5.000	-3	10.00	6	20.00	6	50.00	7	75.00	1	100.0	-3
Dibromomethane			0.500	-21	2.000	2	5.000	0	10.00	5	20.00	8	50.00	4	75.00	3	100.0	-1
4-Methyl-2-Pentanone					2.000	0	5.000	-3	10.00	1	20.00	7	50.00	2	75.00	-4	100.0	-2
cis-1,3-Dichloropropene			0.500	-4	2.000	1	5.000	0	10.00	5	20.00	3	50.00	2	75.00	-1	100.0	-6
Toluene			0.500	-4	2.000	4	5.000	-4	10.00	11	20.00	-3	50.00	5	75.00	-2	100.0	-8
trans-1,3-Dichloropropene			0.500	-10	2.000	2	5.000	-7	10.00	8	20.00	2	50.00	6	75.00	2	100.0	-3
1,1,2-Trichloroethane			0.500	-12	2.000	-4	5.000	-1	10.00	10	20.00	7	50.00	3	75.00	1	100.0	-3
2-Hexanone					2.000	0	5.000	-7	10.00	3	20.00	7	50.00	3	75.00	-1	100.0	-4
1,3-Dichloropropane			0.500	-3	2.000	2	5.000	-2	10.00	11	20.00	0	50.00	-3	75.00	0	100.0	-5
Tetrachloroethene			0.500	12	2.000	-7	5.000	-6	10.00	2	20.00	-4	50.00	4	75.00	-7	100.0	6
Dibromochloromethane			0.500	-10	2.000	-5	5.000	-2	10.00	9	20.00	5	50.00	-1	75.00	3	100.0	1
1,2-Dibromoethane			0.500	-10	2.000	0	5.000	0	10.00	7	20.00	6	50.00	1	75.00	0	100.0	-3
Chlorobenzene			0.500	-3	2.000	5	5.000	1	10.00	10	20.00	-1	50.00	-3	75.00	-4	100.0	-6
1,1,1,2-Tetrachloroethane			0.500	-5	2.000	-2	5.000	0	10.00	9	20.00	-2	50.00	0	75.00	2	100.0	-2
Ethylbenzene			0.500	6	2.000	3	5.000	-2	10.00	5	20.00	-2	50.00	-2	75.00	-6	100.0	-4

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
m,p-Xylenes	0.500	-1	1.000	5	4.000	4	10.00	-4	20.00	12	40.00	2	100.0	-4	150.0	-5	200.0	-9
o-Xylene			0.500	4	2.000	-1	5.000	2	10.00	12	20.00	-1	50.00	-2	75.00	-7	100.0	-6
Styrene			0.500	-6	2.000	-3	5.000	3	10.00	10	20.00	3	50.00	-3	75.00	0	100.0	-4
Bromoform			0.500	-16	2.000	-1	5.000	-4	10.00	6	20.00	3	50.00	2	75.00	4	100.0	6
Isopropylbenzene			0.500	0	2.000	3	5.000	-5	10.00	4	20.00	8	50.00	3	75.00	-12	100.0	-1
1,1,2,2-Tetrachloroethane			0.500	-3	2.000	6	5.000	-1	10.00	5	20.00	9	50.00	2	75.00	-10	100.0	-7
1,2,3-Trichloropropane			0.500	1	2.000	6	5.000	-2	10.00	6	20.00	9	50.00	-3	75.00	-9	100.0	-7
Propylbenzene			0.500	4	2.000	4	5.000	2	10.00	10	20.00	3	50.00	2	75.00	-15	100.0	-9
Bromobenzene			0.500	-1	2.000	1	5.000	5	10.00	9	20.00	5	50.00	-2	75.00	-7	100.0	-10
1,3,5-Trimethylbenzene			0.500	11	2.000	5	5.000	-3	10.00	6	20.00	5	50.00	1	75.00	-14	100.0	-11
2-Chlorotoluene			0.500	6	2.000	10	5.000	-1	10.00	9	20.00	5	50.00	-2	75.00	-12	100.0	-14
4-Chlorotoluene			0.500	3	2.000	7	5.000	-3	10.00	10	20.00	2	50.00	-2	75.00	-9	100.0	-8
tert-Butylbenzene			0.500	-1	2.000	2	5.000	-1	10.00	10	20.00	4	50.00	3	75.00	-14	100.0	-4
1,2,4-Trimethylbenzene			0.500	-2	2.000	6	5.000	-3	10.00	11	20.00	8	50.00	-4	75.00	-8	100.0	-7
sec-Butylbenzene			0.500	-6	2.000	2	5.000	-2	10.00	12	20.00	4	50.00	3	75.00	-12	100.0	-1
para-Isopropyl Toluene			0.500	-6	2.000	-2	5.000	1	10.00	15	20.00	2	50.00	0	75.00	-9	100.0	-2
1,3-Dichlorobenzene			0.500	0	2.000	4	5.000	-3	10.00	10	20.00	8	50.00	-5	75.00	-7	100.0	-7
1,4-Dichlorobenzene			0.500	3	2.000	2	5.000	-6	10.00	7	20.00	6	50.00	-1	75.00	-4	100.0	-7
n-Butylbenzene			0.500	-2	2.000	-3	5.000	-5	10.00	12	20.00	1	50.00	4	75.00	-8	100.0	0
1,2-Dichlorobenzene			0.500	-7	2.000	2	5.000	2	10.00	8	20.00	6	50.00	-3	75.00	-4	100.0	-4
1,2-Dibromo-3-Chloropropane			0.500	5	2.000	11	5.000	-6	10.00	-6	20.00	5	50.00	-1	75.00	-3	100.0	-6
1,2,4-Trichlorobenzene			0.500	1	2.000	6	5.000	-6	10.00	10	20.00	2	50.00	-1	75.00	-7	100.0	-6
Hexachlorobutadiene			0.500	10	2.000	-6	5.000	0	10.00	12	20.00	-2	50.00	2	75.00	-17	100.0	1
Naphthalene			0.500	-10	2.000	-6	5.000	-7	10.00	6	20.00	9	50.00	3	75.00	3	100.0	1
1,2,3-Trichlorobenzene			0.500	0	2.000	-2	5.000	-10	10.00	8	20.00	10	50.00	-3	75.00	-3	100.0	1
Dibromofluoromethane	50.00	1	50.00	0	50.00	2	50.00	1	50.00	-1	50.00	1	50.00	-1	50.00	-2	50.00	-1
1,2-Dichloroethane-d4	50.00	-3	50.00	0	50.00	4	50.00	2	50.00	0	50.00	4	50.00	1	50.00	-5	50.00	-3
Toluene-d8	50.00	0	50.00	-5	50.00	0	50.00	2	50.00	-1	50.00	4	50.00	-2	50.00	2	50.00	0
Bromofluorobenzene	50.00	7	50.00	-1	50.00	1	50.00	4	50.00	5	50.00	5	50.00	-3	50.00	-10	50.00	-7

BO 11/21/08 : Manual integrations were made due to fronting/tailing of peaks, except for Bromomethane which was integrated to raise the baseline due to noise

Analyst: BO Date: 11/21/08 Reviewer: ACM Date: 11/21/08

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; QUAD=Quadratic regression

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 208578 MSVOA Water
EPA 8260B

Inst : MSVOA06 Name : 826GOX6W
Calnum : 458468482002 Cal Date : 20-NOV-2008 Type : WATER

ICV 458468482028 (fkk28 21-NOV-2008) stds: S10631 (10000X), S10447 (1000X)
ICV 458468482029 (fkk29 21-NOV-2008) stds: S10654 (10000X), S10798 (10000X), S10788 (10000X), S10447 (1000X)

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	458468482028	0.6523	0.6183	25.00	25.67	ug/L	3	25	
Chloromethane	458468482028	0.9011	0.7419	25.00	20.58	ug/L	-18	25	
Vinyl Chloride	458468482028	0.6577	0.7466	25.00	28.38	ug/L	14	25	
Bromomethane	458468482028	0.2767	0.2219	25.00	20.05	ug/L	-20	25	
Chloroethane	458468482028	0.3533	0.3134	25.00	22.18	ug/L	-11	25	
Trichlorofluoromethane	458468482028	0.7181	0.7269	25.00	26.80	ug/L	7	25	
Acetone	458468482029	0.3229	0.2969	25.00	22.99	ug/L	-8	25	
1,1-Dichloroethene	458468482029	0.5342	0.5779	25.00	27.05	ug/L	8	25	
Iodomethane	458468482029	0.3604	0.2156	25.00	11.90	ug/L	**-52**	25	v- ***
Methylene Chloride	458468482029	0.7329	0.7315	25.00	24.95	ug/L	0	25	
Carbon Disulfide	458468482029	2.0736	2.0503	25.00	24.72	ug/L	-1	25	
MTBE	458468482029	1.9089	1.6999	25.00	22.26	ug/L	-11	25	
trans-1,2-Dichloroethene	458468482029	0.6155	0.6477	25.00	26.31	ug/L	5	25	
Vinyl Acetate	458468482029	1.3534	0.9237	25.00	17.06	ug/L	**-32**	25	v- ***
1,1-Dichloroethane	458468482029	1.2098	1.1919	25.00	24.63	ug/L	-1	25	
2-Butanone	458468482029	0.4254	0.3758	25.00	22.09	ug/L	-12	25	
2,2-Dichloropropane	458468482029	0.6696	0.6737	25.00	25.15	ug/L	1	25	
cis-1,2-Dichloroethene	458468482029	0.7100	0.7126	25.00	25.09	ug/L	0	25	
Chloroform	458468482029	1.0978	1.0713	25.00	24.40	ug/L	-2	25	
Bromochloromethane	458468482029	0.4218	0.3950	25.00	23.41	ug/L	-6	25	
1,1,1-Trichloroethane	458468482029	0.6692	0.7239	25.00	27.04	ug/L	8	25	
1,1-Dichloropropene	458468482029	0.4415	0.4956	25.00	28.06	ug/L	12	25	
Carbon Tetrachloride	458468482029	0.3589	0.4153	25.00	28.93	ug/L	16	25	
1,2-Dichloroethane	458468482029	0.4747	0.4647	25.00	24.47	ug/L	-2	25	
Benzene	458468482029	1.4989	1.5405	25.00	25.69	ug/L	3	25	
Trichloroethene	458468482029	0.3658	0.3974	25.00	27.16	ug/L	9	25	
1,2-Dichloropropane	458468482029	0.4456	0.4417	25.00	24.78	ug/L	-1	25	
Bromodichloromethane	458468482029	0.4986	0.5145	25.00	25.79	ug/L	3	25	
Dibromomethane	458468482029	0.2907	0.2992	25.00	25.73	ug/L	3	25	
4-Methyl-2-Pentanone	458468482029	0.4957	0.4561	25.00	23.01	ug/L	-8	25	
cis-1,3-Dichloropropene	458468482029	0.6508	0.6214	25.00	23.87	ug/L	-5	25	
Toluene	458468482029	0.8473	0.9101	25.00	26.85	ug/L	7	25	
trans-1,3-Dichloropropene	458468482029	0.5704	0.5250	25.00	23.01	ug/L	-8	25	
1,1,2-Trichloroethane	458468482029	0.2089	0.2147	25.00	25.70	ug/L	3	25	
2-Hexanone	458468482029	0.4156	0.3925	25.00	23.61	ug/L	-6	25	
1,3-Dichloropropane	458468482029	0.7506	0.7684	25.00	25.59	ug/L	2	25	
Tetrachloroethene	458468482029	0.4188	0.4715	25.00	28.15	ug/L	13	25	
Dibromochloromethane	458468482029	0.5668	0.5681	25.00	25.06	ug/L	0	25	
1,2-Dibromoethane	458468482029	0.4360	0.4362	25.00	25.01	ug/L	0	25	
Chlorobenzene	458468482029	1.2382	1.2117	25.00	24.47	ug/L	-2	25	
1,1,1,2-Tetrachloroethane	458468482029	0.4469	0.4543	25.00	25.41	ug/L	2	25	
Ethylbenzene	458468482029	1.7693	1.8355	25.00	25.94	ug/L	4	25	
m,p-Xylenes	458468482029	0.6799	0.7220	50.00	53.10	ug/L	6	25	
o-Xylene	458468482029	0.7208	0.7255	25.00	25.16	ug/L	1	25	
Styrene	458468482029	1.2406	1.2565	25.00	25.32	ug/L	1	25	
Bromoform	458468482029	0.4043	0.4197	25.00	25.96	ug/L	4	25	
Isopropylbenzene	458468482029	3.0374	2.8809	25.00	23.71	ug/L	-5	25	

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	458468482029	1.2619	1.1922	25.00	23.62	ug/L	-6	25	
1,2,3-Trichloropropane	458468482029	0.9814	0.9500	25.00	24.20	ug/L	-3	25	
Propylbenzene	458468482029	3.5323	3.8946	25.00	27.56	ug/L	10	25	
Bromobenzene	458468482029	1.1030	1.1645	25.00	26.39	ug/L	6	25	
1,3,5-Trimethylbenzene	458468482029	2.4404	2.5856	25.00	26.49	ug/L	6	25	
2-Chlorotoluene	458468482029	2.5264	2.6010	25.00	25.74	ug/L	3	25	
4-Chlorotoluene	458468482029	2.4576	2.4107	25.00	24.52	ug/L	-2	25	
tert-Butylbenzene	458468482029	2.0871	2.3029	25.00	27.59	ug/L	10	25	
1,2,4-Trimethylbenzene	458468482029	2.5473	2.7542	25.00	27.03	ug/L	8	25	
sec-Butylbenzene	458468482029	2.8803	3.2369	25.00	28.10	ug/L	12	25	
para-Isopropyl Toluene	458468482029	2.4577	2.5805	25.00	26.25	ug/L	5	25	
1,3-Dichlorobenzene	458468482029	1.8598	1.8497	25.00	24.86	ug/L	-1	25	
1,4-Dichlorobenzene	458468482029	1.9095	1.8322	25.00	23.99	ug/L	-4	25	
n-Butylbenzene	458468482029	2.0653	2.3800	25.00	28.81	ug/L	15	25	
1,2-Dichlorobenzene	458468482029	1.7718	1.7633	25.00	24.88	ug/L	0	25	
1,2-Dibromo-3-Chloropropane	458468482029	0.1927	0.1836	25.00	23.82	ug/L	-5	25	
1,2,4-Trichlorobenzene	458468482029	0.9719	0.9695	25.00	24.94	ug/L	0	25	
Hexachlorobutadiene	458468482029	0.3550	0.4023	25.00	28.33	ug/L	13	25	
Naphthalene	458468482029	2.7758	2.9697	25.00	26.75	ug/L	7	25	
1,2,3-Trichlorobenzene	458468482029	0.9151	0.9388	25.00	25.65	ug/L	3	25	

-=low bias v=ICV

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 208578 MSVOA Water: EPA 8260B

Inst : MSVOA11 Name : 8260GX11
Calnum : 838465788001 Date : 18-NOV-2008 18:16 Type : WATER
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	kke16	838465788016		18-NOV-2008 18:16	S10756 (2000000X), S10619 (2000000X), S9073 (2000000X), S10355 (1000000X), S10764 (2500X)
L2	kke17	838465788017		18-NOV-2008 18:44	S10756 (1000000X), S10619 (1000000X), S9073 (1000000X), S10355 (500000X), S10764 (2500X)
L3	kke18	838465788018		18-NOV-2008 19:12	S10756 (250000X), S10619 (250000X), S9073 (500000X), S10355 (250000X), S10764 (2500X)
L4	kke19	838465788019		18-NOV-2008 19:40	S10756 (100000X), S10619 (100000X), S9073 (200000X), S10355 (100000X), S10764 (2500X)
L5	kke20	838465788020		18-NOV-2008 20:08	S10756 (50000X), S10619 (50000X), S9073 (100000X), S10355 (50000X), S10764 (2500X)
L6	kke21	838465788021		18-NOV-2008 20:36	S10756 (25000X), S10619 (25000X), S9073 (50000X), S10355 (25000X), S10764 (2500X)
L7	kke22	838465788022		18-NOV-2008 21:04	S10756 (10000X), S10619 (10000X), S9073 (20000X), S10355 (10000X), S10764 (2500X)
L8	kke23	838465788023		18-NOV-2008 21:32	S10756 (6667X), S10619 (6667X), S9073 (13330X), S10355 (6667X), S10764 (2500X)
L9	kke24	838465788024		18-NOV-2008 22:01	S10756 (5000X), S10619 (5000X), S9073 (10000X), S10355 (5000X), S10764 (2500X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.3826	0.2856	0.3130	0.3829	0.4930	0.3869	0.4265		QUAD	0.18484	2.46331	-0.00308	0.3815	0.994	15	0.05	0.99	
Chloromethane		0.5475	0.5297	0.5101	0.5003	0.4942	0.4918	0.4801	0.4955	AVRG		1.97565		0.5062	4	15	0.10	0.99	
Vinyl Chloride	0.5419	0.5371	0.5413	0.4561	0.5720	0.5515	0.5140	0.4999	0.5282	AVRG		1.89791		0.5269	6	15	0.05	0.99	
Bromomethane		0.1919	0.1829	0.1564	0.1860	0.2058	0.2333	0.2239	0.2438	AVRG		4.92600		0.2030	14	15	0.05	0.99	
Chloroethane		0.3368	0.3324	0.3090	0.3369	0.3257	0.3178	0.2955	0.3048	AVRG		3.12628		0.3199	5	15	0.05	0.99	
Trichlorofluoromethane		0.4924	0.4960	0.4157	0.5853	0.5906	0.4996	0.5256	0.5948	AVRG		1.90478		0.5250	12	15	0.05	0.99	
Acetone			0.2276	0.1873	0.1954	0.1884	0.1732	0.1756	0.1733	AVRG		5.30002		0.1887	10	15	0.05	0.99	
1,1-Dichloroethene		0.2992m	0.3182	0.3175	0.3450	0.3302	0.3161	0.3283	0.3499	AVRG		3.07154		0.3256	5	15	0.05	0.99	
Iodomethane			0.2490	0.2671	0.2986	0.3140	0.3476	0.3224	0.3389	AVRG		3.27477		0.3054	12	15	0.05	0.99	
Methylene Chloride			0.4485	0.4455	0.4319	0.4326	0.4161	0.4065	0.4142	AVRG		2.33695		0.4279	4	15	0.05	0.99	
Carbon Disulfide		1.1484	1.2118	1.2208	1.2950	1.2525	1.1919	1.2335	1.2755	AVRG		0.81389		1.2287	4	15	0.05	0.99	
MTBE		1.4036	1.4331	1.3887	1.4217	1.4173	1.3934	1.3600	1.3773	AVRG		0.71459		1.3994	2	15	0.05	0.99	
trans-1,2-Dichloroethene		0.4337m	0.3948	0.4060	0.4186	0.4091	0.3963	0.4065	0.4207	AVRG		2.43480		0.4107	3	15	0.05	0.99	
Vinyl Acetate			0.9227	0.8898	0.8646	0.8899	0.9376	0.8330	0.8239	AVRG		1.13609		0.8802	5	15	0.05	0.99	
1,1-Dichloroethane		0.7398	0.7597	0.7639	0.7771	0.7652	0.7402	0.7293	0.7445	AVRG		1.32898		0.7525	2	15	0.10	0.99	
2-Butanone			0.2022	0.1853	0.1943	0.1934	0.1848	0.1844	0.1795	AVRG		5.28728		0.1891	4	15	0.05	0.99	
2,2-Dichloropropane		0.6137	0.5701	0.5595	0.6016	0.5617	0.5343	0.5426	0.5593	AVRG		1.76100		0.5679	5	15	0.05	0.99	
cis-1,2-Dichloroethene		0.5459	0.4710	0.4711	0.4676	0.4604	0.4551	0.4573	0.4684	AVRG		2.10707		0.4746	6	15	0.05	0.99	
Chloroform		0.7704	0.7259	0.7108	0.7262	0.7187	0.7024	0.6908	0.7122	AVRG		1.38953		0.7197	3	15	0.05	0.99	
Bromochloromethane		0.1922	0.2052	0.2134	0.2198	0.2244	0.2228	0.2273	0.2302	AVRG		4.60974		0.2169	6	15	0.05	0.99	
1,1,1-Trichloroethane		0.5447	0.5472	0.5390	0.5806	0.5479	0.5164	0.5340	0.5630	AVRG		1.82950		0.5466	4	15	0.05	0.99	
1,1-Dichloropropene		0.3096	0.3175	0.3151	0.3513	0.3244	0.3019	0.3277	0.3439	AVRG		3.08717		0.3239	5	15	0.05	0.99	
Carbon Tetrachloride		0.2491	0.2619	0.2639	0.2986	0.2740	0.2568	0.2796	0.3015	AVRG		3.66084		0.2732	7	15	0.05	0.99	
1,2-Dichloroethane		0.3297	0.3622	0.3653	0.3673	0.3614	0.3524	0.3453	0.3492	AVRG		2.82405		0.3541	4	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		1.1444	1.1790	1.1393	1.1808	1.1518	1.1265	1.1445	1.1852	AVRG		0.86474		1.1564	2	15	0.05	0.99	
Trichloroethene		0.2513	0.2683	0.2548	0.2740	0.2624	0.2520	0.2649	0.2759	AVRG		3.80269		0.2630	4	15	0.05	0.99	
1,2-Dichloropropane		0.2970	0.3020	0.2972	0.3040	0.2906	0.2835	0.2820	0.2891	AVRG		3.41088		0.2932	3	15	0.05	0.99	
Bromodichloromethane		0.3602	0.3516	0.3464	0.3656	0.3576	0.3539	0.3502	0.3567	AVRG		2.81474		0.3553	2	15	0.05	0.99	
Dibromomethane		0.1580	0.1597	0.1532	0.1593	0.1583	0.1556	0.1549	0.1567	AVRG		6.37124		0.1570	1	15	0.05	0.99	
4-Methyl-2-Pentanone		0.2499	0.2527	0.2427	0.2509	0.2468	0.2460	0.2434	0.2386	AVRG		4.05913		0.2464	2	15	0.05	0.99	
cis-1,3-Dichloropropene		0.4525	0.4838	0.4674	0.4787	0.4735	0.4664	0.4610	0.4698	AVRG		2.13161		0.4691	2	15	0.05	0.99	
Toluene		0.6754	0.7058	0.6915	0.7266	0.6915	0.6762	0.6989	0.7192	AVRG		1.43239		0.6981	3	15	0.05	0.99	
trans-1,3-Dichloropropene		0.4313	0.4353	0.4314	0.4501	0.4412	0.4353	0.4327	0.4391	AVRG		2.28810		0.4370	1	15	0.05	0.99	
1,1,2-Trichloroethane		0.1391	0.1322	0.1239	0.1338	0.1306	0.1267	0.1283	0.1282	AVRG		7.67226		0.1303	4	15	0.05	0.99	
2-Hexanone			0.2360	0.2103	0.2239	0.2196	0.2143	0.2163	0.2115	AVRG		4.56957		0.2188	4	15	0.05	0.99	
1,3-Dichloropropane		0.5366	0.5671	0.5505	0.5804	0.5632	0.5514	0.5386	0.5503	AVRG		1.80260		0.5548	3	15	0.05	0.99	
Tetrachloroethene		0.2502	0.2909	0.2823	0.3143	0.2868	0.2675	0.2964	0.3202	AVRG		3.46527		0.2886	8	15	0.05	0.99	
Dibromochloromethane		0.2949	0.3300	0.3173	0.3369	0.3345	0.3317	0.3323	0.3418	AVRG		3.05414		0.3274	5	15	0.05	0.99	
1,2-Dibromoethane		0.2061	0.2336	0.2328	0.2431	0.2409	0.2414	0.2390	0.2412	AVRG		4.25979		0.2348	5	15	0.05	0.99	
Chlorobenzene		0.8963	0.9837	0.9351	0.9911	0.9366	0.9191	0.9336	0.9658	AVRG		1.05803		0.9452	3	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.2922	0.3345	0.3102	0.3300	0.3175	0.3158	0.3144	0.3271	AVRG		3.14748		0.3177	4	15	0.05	0.99	
Ethylbenzene		1.5293	1.5810	1.4902	1.5964	1.4944	1.4485	1.5258	1.5992	AVRG		0.65227		1.5331	4	15	0.05	0.99	
m,p-Xylenes	0.6207	0.5946	0.6247	0.5982	0.6391	0.6072	0.5963	0.6397	0.6733	AVRG		1.60889		0.6215	4	15	0.05	0.99	
o-Xylene		0.5773	0.6170	0.5976	0.6393	0.5992	0.6014	0.6298	0.6559	AVRG		1.62687		0.6147	4	15	0.05	0.99	
Styrene		0.9373	1.0665	1.0294	1.1010	1.0593	1.0881	1.1229	1.1658	AVRG		0.93345		1.0713	6	15	0.05	0.99	
Bromoform		0.1745	0.2065	0.1951	0.2132	0.2115	0.2155	0.2161	0.2214	AVRG		4.83689		0.2067	7	15	0.10	0.99	
Isopropylbenzene		3.1204	3.3263	3.1408	3.3128	3.0648	2.8751	3.1025	3.2468	AVRG		0.31759		3.1487	5	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		0.8623	0.8860	0.8090	0.8350	0.7806	0.7639	0.7231	0.7048	AVRG		1.25694		0.7956	8	15	0.30	0.99	
1,2,3-Trichloropropane		0.8722	0.9855	0.8255	0.8585	0.8189	0.8023	0.7760	0.7597	AVRG		1.19426		0.8373	8	15	0.05	0.99	
Propylbenzene		3.4867	3.5722	3.4553	3.6182	3.4978	3.3125	3.6548	3.8498	AVRG		0.28122		3.5559	4	15	0.05	0.99	
Bromobenzene		0.8958	0.8919	0.8417	0.8937	0.8479	0.8449	0.8728	0.9018	AVRG		1.14442		0.8738	3	15	0.05	0.99	
1,3,5-Trimethylbenzene		2.5258	2.6346	2.3824	2.4854	2.4435	2.3423	2.5623	2.7409	AVRG		0.39767		2.5146	5	15	0.05	0.99	
2-Chlorotoluene		2.8320	2.8334	2.6622	2.7804	2.6110	2.5236	2.6492	2.7109	AVRG		0.37032		2.7003	4	15	0.05	0.99	
4-Chlorotoluene		2.4659	2.5744	2.4720	2.5236	2.3934	2.2942	2.3697	2.4083	AVRG		0.41023		2.4377	4	15	0.05	0.99	
tert-Butylbenzene		1.8648	2.0741	1.9163	2.0014	1.9886	1.8050	2.0384	2.2082	AVRG		0.50325		1.9871	6	15	0.05	0.99	
1,2,4-Trimethylbenzene		2.4837	2.5084	2.2455	2.2674	2.2543	2.2017	2.3702	2.4998	AVRG		0.42483		2.3539	5	15	0.05	0.99	
sec-Butylbenzene		2.4398	2.7860	2.5334	2.7010	2.7191	2.4351	2.8352	3.1609	AVRG		0.37019		2.7013	9	15	0.05	0.99	
para-Isopropyl Toluene		2.1498	2.1870	1.9838	2.0802	2.1853	1.9837	2.3069	2.5694	AVRG		0.45855		2.1808	9	15	0.05	0.99	
1,3-Dichlorobenzene		1.5332	1.6315	1.5653	1.6076	1.5411	1.4745	1.5414	1.5706	AVRG		0.64178		1.5582	3	15	0.05	0.99	
1,4-Dichlorobenzene		1.5387	1.7011	1.6091	1.6500	1.5761	1.5472	1.6076	1.6409	AVRG		0.62156		1.6088	3	15	0.05	0.99	
n-Butylbenzene		1.7105	1.8751	1.5914	1.6389	1.6932	1.4889	1.7547	1.9732	AVRG		0.58284		1.7157	9	15	0.05	0.99	
1,2-Dichlorobenzene		1.4059	1.6048	1.5176	1.5809	1.4943	1.4377	1.4707	1.4965	AVRG		0.66621		1.5010	4	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.2235m	0.1806m	0.1703	0.1717	0.1615	0.1516	0.1451		QUAD	-0.1965	5.93482	0.089968	0.1720	1.000	15	0.05	0.99	
1,2,4-Trichlorobenzene		0.8986	0.9654	0.8529	0.8260	0.8296	0.7120	0.7353	0.7751	AVRG		1.21307		0.8244	10	15	0.05	0.99	
Hexachlorobutadiene		0.2642	0.3124	0.2237	0.2586	0.2923	0.2120	0.2651	0.3154	AVRG		3.73192		0.2680	14	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene		2.4043	2.5946	2.3927	2.4635	2.3399	2.0233	1.9343	1.9361	AVRG		0.44226		2.2611	11	15	0.05	0.99	
1,2,3-Trichlorobenzene		0.8219	0.9197	0.8022	0.7963	0.7913	0.6801	0.6973	0.7331	AVRG		1.28166		0.7802	10	15	0.05	0.99	
Dibromofluoromethane		0.4213	0.4239	0.4268	0.4206	0.4217	0.4199	0.4197	0.4184	AVRG		2.37229		0.4215	1	15	0.05	0.99	
1,2-Dichloroethane-d4		0.3326	0.3322	0.3286	0.3319	0.3286	0.3238	0.3263	0.3210	AVRG		3.04781		0.3281	1	15	0.05	0.99	
Toluene-d8		1.1689	1.1622	1.1533	1.1653	1.1702	1.1652	1.1697	1.1635	AVRG		0.85852		1.1648	0	15	0.05	0.99	
Bromofluorobenzene		1.1564	1.1359	1.1302	1.1284	1.0929	1.0991	1.0911	1.0727	AVRG		0.89821		1.1133	3	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Freon 12			1.000	13	2.000	-20	5.000	-19	10.00	-4	20.00	21	50.00	-7	75.00	1		
Chloromethane			1.000	8	2.000	5	5.000	1	10.00	-1	20.00	-2	50.00	-3	75.00	-5	100.0	-2
Vinyl Chloride	0.500	3	1.000	2	2.000	3	5.000	-13	10.00	9	20.00	5	50.00	-2	75.00	-5	100.0	0
Bromomethane			1.000	-5	2.000	-10	5.000	-23	10.00	-8	20.00	1	50.00	15	75.00	10	100.0	20
Chloroethane			1.000	5	2.000	4	5.000	-3	10.00	5	20.00	2	50.00	-1	75.00	-8	100.0	-5
Trichlorofluoromethane			1.000	-6	2.000	-6	5.000	-21	10.00	11	20.00	12	50.00	-5	75.00	0	100.0	13
Acetone					2.000	21	5.000	-1	10.00	4	20.00	0	50.00	-8	75.00	-7	100.0	-8
1,1-Dichloroethene			0.500	-8	2.000	-2	5.000	-2	10.00	6	20.00	1	50.00	-3	75.00	1	100.0	7
Iodomethane					2.000	-18	5.000	-13	10.00	-2	20.00	3	50.00	14	75.00	6	100.0	11
Methylene Chloride					2.000	5	5.000	4	10.00	1	20.00	1	50.00	-3	75.00	-5	100.0	-3
Carbon Disulfide			0.500	-7	2.000	-1	5.000	-1	10.00	5	20.00	2	50.00	-3	75.00	0	100.0	4
MTBE			0.500	0	2.000	2	5.000	-1	10.00	2	20.00	1	50.00	0	75.00	-3	100.0	-2
trans-1,2-Dichloroethene			0.500	6	2.000	-4	5.000	-1	10.00	2	20.00	0	50.00	-4	75.00	-1	100.0	2
Vinyl Acetate					2.000	5	5.000	1	10.00	-2	20.00	1	50.00	7	75.00	-5	100.0	-6
1,1-Dichloroethane			0.500	-2	2.000	1	5.000	2	10.00	3	20.00	2	50.00	-2	75.00	-3	100.0	-1
2-Butanone					2.000	7	5.000	-2	10.00	3	20.00	2	50.00	-2	75.00	-3	100.0	-5
2,2-Dichloropropane			0.500	8	2.000	0	5.000	-1	10.00	6	20.00	-1	50.00	-6	75.00	-4	100.0	-2
cis-1,2-Dichloroethene			0.500	15	2.000	-1	5.000	-1	10.00	-1	20.00	-3	50.00	-4	75.00	-4	100.0	-1
Chloroform			0.500	7	2.000	1	5.000	-1	10.00	1	20.00	0	50.00	-2	75.00	-4	100.0	-1
Bromochloromethane			0.500	-11	2.000	-5	5.000	-2	10.00	1	20.00	3	50.00	3	75.00	5	100.0	6
1,1,1-Trichloroethane			0.500	0	2.000	0	5.000	-1	10.00	6	20.00	0	50.00	-6	75.00	-2	100.0	3
1,1-Dichloropropene			0.500	-4	2.000	-2	5.000	-3	10.00	8	20.00	0	50.00	-7	75.00	1	100.0	6
Carbon Tetrachloride			0.500	-9	2.000	-4	5.000	-3	10.00	9	20.00	0	50.00	-6	75.00	2	100.0	10
1,2-Dichloroethane			0.500	-7	2.000	2	5.000	3	10.00	4	20.00	2	50.00	0	75.00	-2	100.0	-1
Benzene			0.500	-1	2.000	2	5.000	-1	10.00	2	20.00	0	50.00	-3	75.00	-1	100.0	2
Trichloroethene			0.500	-4	2.000	2	5.000	-3	10.00	4	20.00	0	50.00	-4	75.00	1	100.0	5
1,2-Dichloropropane			0.500	1	2.000	3	5.000	1	10.00	4	20.00	-1	50.00	-3	75.00	-4	100.0	-1
Bromodichloromethane			0.500	1	2.000	-1	5.000	-2	10.00	3	20.00	1	50.00	0	75.00	-1	100.0	0
Dibromomethane			0.500	1	2.000	2	5.000	-2	10.00	2	20.00	1	50.00	-1	75.00	-1	100.0	0
4-Methyl-2-Pentanone			0.500	1	2.000	3	5.000	-1	10.00	2	20.00	0	50.00	0	75.00	-1	100.0	-3
cis-1,3-Dichloropropene			0.500	-4	2.000	3	5.000	0	10.00	2	20.00	1	50.00	-1	75.00	-2	100.0	0
Toluene			0.500	-3	2.000	1	5.000	-1	10.00	4	20.00	-1	50.00	-3	75.00	0	100.0	3
trans-1,3-Dichloropropene			0.500	-1	2.000	0	5.000	-1	10.00	3	20.00	1	50.00	0	75.00	-1	100.0	0
1,1,2-Trichloroethane			0.500	7	2.000	1	5.000	-5	10.00	3	20.00	0	50.00	-3	75.00	-2	100.0	-2
2-Hexanone					2.000	8	5.000	-4	10.00	2	20.00	0	50.00	-2	75.00	-1	100.0	-3
1,3-Dichloropropane			0.500	-3	2.000	2	5.000	-1	10.00	5	20.00	2	50.00	-1	75.00	-3	100.0	-1
Tetrachloroethene			0.500	-13	2.000	1	5.000	-2	10.00	9	20.00	-1	50.00	-7	75.00	3	100.0	11
Dibromochloromethane			0.500	-10	2.000	1	5.000	-3	10.00	3	20.00	2	50.00	1	75.00	1	100.0	4
1,2-Dibromoethane			0.500	-12	2.000	0	5.000	-1	10.00	4	20.00	3	50.00	3	75.00	2	100.0	3
Chlorobenzene			0.500	-5	2.000	4	5.000	-1	10.00	5	20.00	-1	50.00	-3	75.00	-1	100.0	2
1,1,1,2-Tetrachloroethane			0.500	-8	2.000	5	5.000	-2	10.00	4	20.00	0	50.00	-1	75.00	-1	100.0	3
Ethylbenzene			0.500	0	2.000	3	5.000	-3	10.00	4	20.00	-3	50.00	-6	75.00	0	100.0	4

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
m,p-Xylenes	0.500	0	1.000	-4	4.000	0	10.00	-4	20.00	3	40.00	-2	100.0	-4	150.0	3	200.0	8
o-Xylene			0.500	-6	2.000	0	5.000	-3	10.00	4	20.00	-3	50.00	-2	75.00	2	100.0	7
Styrene			0.500	-13	2.000	0	5.000	-4	10.00	3	20.00	-1	50.00	2	75.00	5	100.0	9
Bromoform			0.500	-16	2.000	0	5.000	-6	10.00	3	20.00	2	50.00	4	75.00	5	100.0	7
Isopropylbenzene			0.500	-1	2.000	6	5.000	0	10.00	5	20.00	-3	50.00	-9	75.00	-1	100.0	3
1,1,2,2-Tetrachloroethane			0.500	8	2.000	11	5.000	2	10.00	5	20.00	-2	50.00	-4	75.00	-9	100.0	-11
1,2,3-Trichloropropane			0.500	4	2.000	18	5.000	-1	10.00	3	20.00	-2	50.00	-4	75.00	-7	100.0	-9
Propylbenzene			0.500	-2	2.000	0	5.000	-3	10.00	2	20.00	-2	50.00	-7	75.00	3	100.0	8
Bromobenzene			0.500	3	2.000	2	5.000	-4	10.00	2	20.00	-3	50.00	-3	75.00	0	100.0	3
1,3,5-Trimethylbenzene			0.500	0	2.000	5	5.000	-5	10.00	-1	20.00	-3	50.00	-7	75.00	2	100.0	9
2-Chlorotoluene			0.500	5	2.000	5	5.000	-1	10.00	3	20.00	-3	50.00	-7	75.00	-2	100.0	0
4-Chlorotoluene			0.500	1	2.000	6	5.000	1	10.00	4	20.00	-2	50.00	-6	75.00	-3	100.0	-1
tert-Butylbenzene			0.500	-6	2.000	4	5.000	-4	10.00	1	20.00	0	50.00	-9	75.00	3	100.0	11
1,2,4-Trimethylbenzene			0.500	6	2.000	7	5.000	-5	10.00	-4	20.00	-4	50.00	-6	75.00	1	100.0	6
sec-Butylbenzene			0.500	-10	2.000	3	5.000	-6	10.00	0	20.00	1	50.00	-10	75.00	5	100.0	17
para-Isopropyl Toluene			0.500	-1	2.000	0	5.000	-9	10.00	-5	20.00	0	50.00	-9	75.00	6	100.0	18
1,3-Dichlorobenzene			0.500	-2	2.000	5	5.000	0	10.00	3	20.00	-1	50.00	-5	75.00	-1	100.0	1
1,4-Dichlorobenzene			0.500	-4	2.000	6	5.000	0	10.00	3	20.00	-2	50.00	-4	75.00	0	100.0	2
n-Butylbenzene			0.500	0	2.000	9	5.000	-7	10.00	-4	20.00	-1	50.00	-13	75.00	2	100.0	15
1,2-Dichlorobenzene			0.500	-6	2.000	7	5.000	1	10.00	5	20.00	0	50.00	-4	75.00	-2	100.0	0
1,2-Dibromo-3-Chloropropane			0.500	-6	2.000	-2	5.000	-2	10.00	3	20.00	0	50.00	0	75.00	0		
1,2,4-Trichlorobenzene			0.500	9	2.000	17	5.000	3	10.00	0	20.00	1	50.00	-14	75.00	-11	100.0	-6
Hexachlorobutadiene			0.500	-1	2.000	17	5.000	-17	10.00	-4	20.00	9	50.00	-21	75.00	-1	100.0	18
Naphthalene			0.500	6	2.000	15	5.000	6	10.00	9	20.00	3	50.00	-11	75.00	-14	100.0	-14
1,2,3-Trichlorobenzene			0.500	5	2.000	18	5.000	3	10.00	2	20.00	1	50.00	-13	75.00	-11	100.0	-6
Dibromofluoromethane			50.00	0	50.00	1	50.00	1	50.00	0	50.00	0	50.00	0	50.00	0	50.00	-1
1,2-Dichloroethane-d4			50.00	1	50.00	1	50.00	0	50.00	1	50.00	0	50.00	-1	50.00	-1	50.00	-2
Toluene-d8			50.00	0	50.00	0	50.00	-1	50.00	0	50.00	0	50.00	0	50.00	0	50.00	0
Bromofluorobenzene			50.00	4	50.00	2	50.00	2	50.00	1	50.00	-2	50.00	-1	50.00	-2	50.00	-4

ACM 11/20/08 : All manual integrations done to correct baseline noise. Integrations by SJD.

Analyst: SJD Date: 11/19/08 Reviewer: LW Date: 11/20/08

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; QUAD=Quadratic regression

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 208578 MSVOA Water
EPA 8260B

Inst : MSVOA11 Name : 8260GX11
Calnum : 838465788001 Cal Date : 18-NOV-2008 Type : WATER

ICV 838465788025 (kke25 18-NOV-2008) stds: S10631 (10000X), S10764 (2500X)
ICV 838465788026 (kke26 18-NOV-2008) stds: S10654 (10000X), S10533 (10000X), S10788 (10000X), S10764 (2500X)

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	838465788025	0.3815	0.4395	25.00	26.88	ug/L	8	25	
Chloromethane	838465788025	0.5062	0.4121	25.00	20.36	ug/L	-19	25	
Vinyl Chloride	838465788025	0.5269	0.5934	25.00	28.16	ug/L	13	25	
Bromomethane	838465788025	0.2030	0.2034	25.00	25.05	ug/L	0	25	
Chloroethane	838465788025	0.3199	0.3052	25.00	23.85	ug/L	-5	25	
Trichlorofluoromethane	838465788025	0.5250	0.5698	25.00	27.14	ug/L	9	25	
Acetone	838465788026	0.1887	0.1845	25.00	24.44	ug/L	-2	25	
1,1-Dichloroethene	838465788026	0.3256	0.3628	25.00	27.86	ug/L	11	25	
Iodomethane	838465788026	0.3054	0.2678	25.00	21.93	ug/L	-12	25	
Methylene Chloride	838465788026	0.4279	0.4442	25.00	25.95	ug/L	4	25	
Carbon Disulfide	838465788026	1.2287	1.2655	25.00	25.75	ug/L	3	25	
MTBE	838465788026	1.3994	1.2491	25.00	22.31	ug/L	-11	25	
trans-1,2-Dichloroethene	838465788026	0.4107	0.4328	25.00	26.35	ug/L	5	25	
Vinyl Acetate	838465788026	0.8802	0.5687	25.00	16.15	ug/L	**-35**	25	v- ***
1,1-Dichloroethane	838465788026	0.7525	0.7826	25.00	26.00	ug/L	4	25	
2-Butanone	838465788026	0.1891	0.1810	25.00	23.93	ug/L	-4	25	
2,2-Dichloropropane	838465788026	0.5679	0.5826	25.00	25.65	ug/L	3	25	
cis-1,2-Dichloroethene	838465788026	0.4746	0.4862	25.00	25.61	ug/L	2	25	
Chloroform	838465788026	0.7197	0.7173	25.00	24.92	ug/L	0	25	
Bromochloromethane	838465788026	0.2169	0.2279	25.00	26.26	ug/L	5	25	
1,1,1-Trichloroethane	838465788026	0.5466	0.6065	25.00	27.74	ug/L	11	25	
1,1-Dichloropropene	838465788026	0.3239	0.3700	25.00	28.55	ug/L	14	25	
Carbon Tetrachloride	838465788026	0.2732	0.3262	25.00	29.85	ug/L	19	25	
1,2-Dichloroethane	838465788026	0.3541	0.3578	25.00	25.26	ug/L	1	25	
Benzene	838465788026	1.1564	1.1831	25.00	25.58	ug/L	2	25	
Trichloroethene	838465788026	0.2630	0.2902	25.00	27.59	ug/L	10	25	
1,2-Dichloropropane	838465788026	0.2932	0.2955	25.00	25.20	ug/L	1	25	
Bromodichloromethane	838465788026	0.3553	0.3763	25.00	26.48	ug/L	6	25	
Dibromomethane	838465788026	0.1570	0.1608	25.00	25.62	ug/L	2	25	
4-Methyl-2-Pentanone	838465788026	0.2464	0.2365	25.00	24.00	ug/L	-4	25	
cis-1,3-Dichloropropene	838465788026	0.4691	0.4669	25.00	24.88	ug/L	0	25	
Toluene	838465788026	0.6981	0.7418	25.00	26.56	ug/L	6	25	
trans-1,3-Dichloropropene	838465788026	0.4370	0.3939	25.00	22.53	ug/L	-10	25	
1,1,2-Trichloroethane	838465788026	0.1303	0.1350	25.00	25.90	ug/L	4	25	
2-Hexanone	838465788026	0.2188	0.2110	25.00	24.11	ug/L	-4	25	
1,3-Dichloropropane	838465788026	0.5548	0.5728	25.00	25.81	ug/L	3	25	
Tetrachloroethene	838465788026	0.2886	0.3441	25.00	29.81	ug/L	19	25	
Dibromochloromethane	838465788026	0.3274	0.3379	25.00	25.80	ug/L	3	25	
1,2-Dibromoethane	838465788026	0.2348	0.2482	25.00	26.44	ug/L	6	25	
Chlorobenzene	838465788026	0.9452	0.9545	25.00	25.25	ug/L	1	25	
1,1,1,2-Tetrachloroethane	838465788026	0.3177	0.3336	25.00	26.25	ug/L	5	25	
Ethylbenzene	838465788026	1.5331	1.6527	25.00	26.95	ug/L	8	25	
m,p-Xylenes	838465788026	0.6215	0.6643	50.00	53.44	ug/L	7	25	
o-Xylene	838465788026	0.6147	0.6370	25.00	25.91	ug/L	4	25	
Styrene	838465788026	1.0713	1.1031	25.00	25.74	ug/L	3	25	
Bromoform	838465788026	0.2067	0.2213	25.00	26.76	ug/L	7	25	
Isopropylbenzene	838465788026	3.1487	3.0922	25.00	24.55	ug/L	-2	25	

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	838465788026	0.7956	0.7676	25.00	24.12	ug/L	-4	25	
1,2,3-Trichloropropane	838465788026	0.8373	0.8400	25.00	25.08	ug/L	0	25	
Propylbenzene	838465788026	3.5559	3.9261	25.00	27.60	ug/L	10	25	
Bromobenzene	838465788026	0.8738	0.8960	25.00	25.63	ug/L	3	25	
1,3,5-Trimethylbenzene	838465788026	2.5146	2.7484	25.00	27.32	ug/L	9	25	
2-Chlorotoluene	838465788026	2.7003	2.8015	25.00	25.94	ug/L	4	25	
4-Chlorotoluene	838465788026	2.4377	2.5248	25.00	25.89	ug/L	4	25	
tert-Butylbenzene	838465788026	1.9871	2.2783	25.00	28.66	ug/L	15	25	
1,2,4-Trimethylbenzene	838465788026	2.3539	2.6135	25.00	27.76	ug/L	11	25	
sec-Butylbenzene	838465788026	2.7013	3.2162	25.00	29.77	ug/L	19	25	
para-Isopropyl Toluene	838465788026	2.1808	2.4776	25.00	28.40	ug/L	14	25	
1,3-Dichlorobenzene	838465788026	1.5582	1.5855	25.00	25.44	ug/L	2	25	
1,4-Dichlorobenzene	838465788026	1.6088	1.6294	25.00	25.32	ug/L	1	25	
n-Butylbenzene	838465788026	1.7157	2.0248	25.00	29.50	ug/L	18	25	
1,2-Dichlorobenzene	838465788026	1.5010	1.5462	25.00	25.75	ug/L	3	25	
1,2-Dibromo-3-Chloropropane	838465788026	0.1720	0.1662	25.00	26.01	ug/L	4	25	
1,2,4-Trichlorobenzene	838465788026	0.8244	0.8725	25.00	26.46	ug/L	6	25	
Hexachlorobutadiene	838465788026	0.2680	0.3675	25.00	34.28	ug/L	**37**	25	v+ ***
Naphthalene	838465788026	2.2611	2.4195	25.00	26.75	ug/L	7	25	
1,2,3-Trichlorobenzene	838465788026	0.7802	0.8408	25.00	26.94	ug/L	8	25	

+=high bias -=low bias v=ICV

CURTIS & TOMPKINS SPIKE USER REPORT FOR 208578 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : QC476973 IDF : 1.0
Seqnum : 458515995003.4 File : fln03 Time : 23-DEC-2008 08:43
Cal : 458468482002 Caldate : 20-NOV-2008 Caltype : WATER
Standards: S10935 (12500X), S10844 (12500X), S10798 (12500X), S10985 (12500X), S10715 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.6523	0.5577	20.00	19.00	ug/L	-5	20	0.0500	u
Chloromethane	0.9011	0.8131	20.00	18.05	ug/L	-10	20	0.1000	u
Vinyl Chloride	0.6577	0.7212	20.00	21.93	ug/L	10	20	0.0500	u
Bromomethane	0.2767	0.2249	20.00	16.26	ug/L	-19	20	0.0500	u
Chloroethane	0.3533	0.3825	20.00	21.66	ug/L	8	20	0.0500	u
Trichlorofluoromethane	0.7181	0.7719	20.00	23.07	ug/L	15	20	0.0500	u
Iodomethane	0.3604	0.4131	20.00	17.26	ug/L	-14	20	0.0500	u v- ***
Acetone	0.3229	0.2607	20.00	16.15	ug/L	-19	20	0.0500	u
1,1-Dichloroethene	0.5342	0.5688	20.00	21.30	ug/L	6	20	0.0500	u
Methylene Chloride	0.7329	0.7566	20.00	20.65	ug/L	3	20	0.0500	u
Carbon Disulfide	2.0736	2.0891	20.00	20.15	ug/L	1	20	0.0500	u
MTBE	1.9089	1.7092	20.00	17.91	ug/L	-10	20	0.0500	u
trans-1,2-Dichloroethene	0.6155	0.6417	20.00	20.85	ug/L	4	20	0.0500	u
Vinyl Acetate	1.3534	1.0722	20.00	15.84	ug/L	**-21**	20	0.0500	c- u v- ***
1,1-Dichloroethane	1.2098	1.2041	20.00	19.91	ug/L	0	20	0.1000	u
2-Butanone	0.4254	0.3640	20.00	17.11	ug/L	-14	20	0.0500	u
cis-1,2-Dichloroethene	0.7100	0.7273	20.00	20.49	ug/L	2	20	0.0500	u
2,2-Dichloropropane	0.6696	0.7547	20.00	22.54	ug/L	13	20	0.0500	u
Chloroform	1.0978	1.0705	20.00	19.50	ug/L	-2	20	0.0500	u
Bromochloromethane	0.4218	0.4187	20.00	19.85	ug/L	-1	20	0.0500	u
1,1,1-Trichloroethane	0.6692	0.7327	20.00	21.90	ug/L	9	20	0.0500	u
1,1-Dichloropropene	0.4415	0.4371	20.00	19.80	ug/L	-1	20	0.0500	u
Carbon Tetrachloride	0.3589	0.3722	20.00	20.74	ug/L	4	20	0.0500	u
1,2-Dichloroethane	0.4747	0.4454	20.00	18.77	ug/L	-6	20	0.0500	u
Benzene	1.4989	1.3956	20.00	18.62	ug/L	-7	20	0.0500	u
Trichloroethene	0.3658	0.3589	20.00	19.62	ug/L	-2	20	0.0500	u
1,2-Dichloropropane	0.4456	0.4235	20.00	19.01	ug/L	-5	20	0.0500	u
Bromodichloromethane	0.4986	0.4782	20.00	19.18	ug/L	-4	20	0.0500	u
Dibromomethane	0.2907	0.2975	20.00	20.47	ug/L	2	20	0.0500	u
4-Methyl-2-Pentanone	0.4957	0.4366	20.00	17.62	ug/L	-12	20	0.0500	u
cis-1,3-Dichloropropene	0.6508	0.6127	20.00	18.83	ug/L	-6	20	0.0500	u
Toluene	0.8473	0.8583	20.00	20.26	ug/L	1	20	0.0500	u
trans-1,3-Dichloropropene	0.5704	0.4989	20.00	17.49	ug/L	-13	20	0.0500	u
1,1,2-Trichloroethane	0.2089	0.2112	20.00	20.22	ug/L	1	20	0.0500	u
2-Hexanone	0.4156	0.3531	20.00	16.99	ug/L	-15	20	0.0500	u
1,3-Dichloropropane	0.7506	0.7289	20.00	19.42	ug/L	-3	20	0.0500	u
Tetrachloroethene	0.4188	0.4383	20.00	20.93	ug/L	5	20	0.0500	u
Dibromochloromethane	0.5668	0.5342	20.00	18.85	ug/L	-6	20	0.0500	u
1,2-Dibromoethane	0.4360	0.4425	20.00	20.30	ug/L	1	20	0.0500	u
Chlorobenzene	1.2382	1.2071	20.00	19.50	ug/L	-3	20	0.3000	u
1,1,1,2-Tetrachloroethane	0.4469	0.4245	20.00	19.00	ug/L	-5	20	0.0500	u
Ethylbenzene	1.7693	1.8109	20.00	20.47	ug/L	2	20	0.0500	u
m,p-Xylenes	0.6799	0.7136	40.00	41.99	ug/L	5	20	0.0500	u
o-Xylene	0.7208	0.7215	20.00	20.02	ug/L	0	20	0.0500	u
Styrene	1.2406	1.2439	20.00	20.05	ug/L	0	20	0.0500	u
Bromoform	0.4043	0.4026	20.00	19.92	ug/L	0	20	0.1000	u
Isopropylbenzene	3.0374	2.7881	20.00	18.36	ug/L	-8	20	0.0500	u

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	1.2619	1.3055	20.00	20.69	ug/L	3	20	0.3000	u
1,2,3-Trichloropropane	0.9814	0.9644	20.00	19.65	ug/L	-2	20	0.0500	u
Propylbenzene	3.5323	4.0416	20.00	22.88	ug/L	14	20	0.0500	u
Bromobenzene	1.1030	1.1679	20.00	21.18	ug/L	6	20	0.0500	u
1,3,5-Trimethylbenzene	2.4404	2.6822	20.00	21.98	ug/L	10	20	0.0500	u
2-Chlorotoluene	2.5264	2.6989	20.00	21.37	ug/L	7	20	0.0500	u
4-Chlorotoluene	2.4576	2.4774	20.00	20.16	ug/L	1	20	0.0500	u
tert-Butylbenzene	2.0871	2.2301	20.00	21.37	ug/L	7	20	0.0500	u
1,2,4-Trimethylbenzene	2.5473	2.7281	20.00	21.42	ug/L	7	20	0.0500	u
sec-Butylbenzene	2.8803	3.2895	20.00	22.84	ug/L	14	20	0.0500	u
para-Isopropyl Toluene	2.4577	2.7303	20.00	22.22	ug/L	11	20	0.0500	u
1,3-Dichlorobenzene	1.8598	1.7767	20.00	19.11	ug/L	-4	20	0.0500	u
1,4-Dichlorobenzene	1.9095	1.8193	20.00	19.06	ug/L	-5	20	0.0500	u
n-Butylbenzene	2.0653	2.3901	20.00	23.15	ug/L	16	20	0.0500	u
1,2-Dichlorobenzene	1.7718	1.7978	20.00	20.29	ug/L	1	20	0.0500	u
1,2-Dibromo-3-Chloropropane	0.1927	0.1782	20.00	18.49	ug/L	-8	20	0.0500	u
1,2,4-Trichlorobenzene	0.9719	0.9703	20.00	19.97	ug/L	0	20	0.0500	u
Hexachlorobutadiene	0.3550	0.4588	20.00	25.85	ug/L	**29**	20	0.0500	c+ u ***
Naphthalene	2.7758	2.8005	20.00	20.18	ug/L	1	20	0.0500	u
1,2,3-Trichlorobenzene	0.9151	0.9446	20.00	20.65	ug/L	3	20	0.0500	u
Dibromofluoromethane	0.6018	0.6146	50.00	51.06	ug/L	2	20	0.0500	u
1,2-Dichloroethane-d4	0.3170	0.2995	50.00	47.24	ug/L	-6	20	0.0500	u
Toluene-d8	1.0007	0.9670	50.00	48.32	ug/L	-3	20	0.0500	u
Bromofluorobenzene	0.9921	1.0266	50.00	51.74	ug/L	3	20	0.0500	u

ISTD (ICAL fkk25)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	811980	989880	21.91	12.82	12.84	0.02
1,4-Difluorobenzene	1320025	1725240	30.70	14.16	14.18	0.02
Chlorobenzene-d5	1182141	1416224	19.80	18.69	18.70	0.02
1,4-Dichlorobenzene-d4	596162	695274	16.63	21.48	21.49	0.01

BO 12/23/08 : QC# batch# fixed in LIMS [general version]

Analyst: BO Date: 12/24/08 Reviewer: ACM Date: 12/29/08

+=high bias -=low bias c=CCV u=use v=ICV

CURTIS & TOMPKINS SPIKE USER REPORT FOR 208578 MSVOA Water
EPA 8260B

Inst : MSVOA11 Run Name : QC476975 IDF : 1.0
Seqnum : 838515986003.1 File : kln03 Time : 23-DEC-2008 08:36
Cal : 838465788001 Caldate : 18-NOV-2008 Caltype : WATER
Standards: S11013 (12500X), S10935 (12500X), S10798 (12500X), S10985 (12500X), S10764 (2500X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.3815	0.4400	20.00	21.63	ug/L	8	20	0.0500	u
Chloromethane	0.5062	0.4337	20.00	17.14	ug/L	-14	20	0.1000	u
Vinyl Chloride	0.5269	0.5484	20.00	20.82	ug/L	4	20	0.0500	u
Bromomethane	0.2030	0.1693	20.00	16.68	ug/L	-17	20	0.0500	u
Chloroethane	0.3199	0.3192	20.00	19.96	ug/L	0	20	0.0500	u
Trichlorofluoromethane	0.5250	0.6433	20.00	24.51	ug/L	**23**	20	0.0500	c+ u ***
Iodomethane	0.3054	0.2190	20.00	14.34	ug/L	**-28**	20	0.0500	c- u ***
Acetone	0.1887	0.1803	20.00	19.11	ug/L	-4	20	0.0500	u
1,1-Dichloroethene	0.3256	0.3598	20.00	22.10	ug/L	10	20	0.0500	u
Methylene Chloride	0.4279	0.4818	20.00	22.52	ug/L	13	20	0.0500	u
Carbon Disulfide	1.2287	1.2047	20.00	19.61	ug/L	-2	20	0.0500	u
MTBE	1.3994	1.5330	20.00	21.91	ug/L	10	20	0.0500	u
trans-1,2-Dichloroethene	0.4107	0.4469	20.00	21.76	ug/L	9	20	0.0500	u
Vinyl Acetate	0.8802	0.6735	20.00	15.30	ug/L	**-23**	20	0.0500	c- u v- ***
1,1-Dichloroethane	0.7525	0.8509	20.00	22.62	ug/L	13	20	0.1000	u
2-Butanone	0.1891	0.1853	20.00	19.59	ug/L	-2	20	0.0500	u
cis-1,2-Dichloroethene	0.4746	0.5142	20.00	21.67	ug/L	8	20	0.0500	u
2,2-Dichloropropane	0.5679	0.7030	20.00	24.76	ug/L	**24**	20	0.0500	c+ u ***
Chloroform	0.7197	0.8291	20.00	23.04	ug/L	15	20	0.0500	u
Bromochloromethane	0.2169	0.2365	20.00	21.80	ug/L	9	20	0.0500	u
1,1,1-Trichloroethane	0.5466	0.7022	20.00	25.69	ug/L	**28**	20	0.0500	c+ u ***
1,1-Dichloropropene	0.3239	0.3731	20.00	23.04	ug/L	15	20	0.0500	u
Carbon Tetrachloride	0.2732	0.3651	20.00	26.73	ug/L	**34**	20	0.0500	c+ u ***
1,2-Dichloroethane	0.3541	0.3892	20.00	21.98	ug/L	10	20	0.0500	u
Benzene	1.1564	1.1709	20.00	20.25	ug/L	1	20	0.0500	u
Trichloroethene	0.2630	0.2996	20.00	22.79	ug/L	14	20	0.0500	u
1,2-Dichloropropane	0.2932	0.3034	20.00	20.69	ug/L	3	20	0.0500	u
Bromodichloromethane	0.3553	0.4043	20.00	22.76	ug/L	14	20	0.0500	u
Dibromomethane	0.1570	0.1718	20.00	21.90	ug/L	9	20	0.0500	u
4-Methyl-2-Pentanone	0.2464	0.2364	20.00	19.19	ug/L	-4	20	0.0500	u
cis-1,3-Dichloropropene	0.4691	0.4916	20.00	20.96	ug/L	5	20	0.0500	u
Toluene	0.6981	0.7626	20.00	21.85	ug/L	9	20	0.0500	u
trans-1,3-Dichloropropene	0.4370	0.4230	20.00	19.36	ug/L	-3	20	0.0500	u
1,1,2-Trichloroethane	0.1303	0.1450	20.00	22.25	ug/L	11	20	0.0500	u
2-Hexanone	0.2188	0.1726	20.00	15.77	ug/L	**-21**	20	0.0500	c- u ***
1,3-Dichloropropane	0.5548	0.5376	20.00	19.38	ug/L	-3	20	0.0500	u
Tetrachloroethene	0.2886	0.3140	20.00	21.76	ug/L	9	20	0.0500	u
Dibromochloromethane	0.3274	0.3114	20.00	19.02	ug/L	-5	20	0.0500	u
1,2-Dibromoethane	0.2348	0.2705	20.00	23.05	ug/L	15	20	0.0500	u
Chlorobenzene	0.9452	0.8820	20.00	18.66	ug/L	-7	20	0.3000	u
1,1,1,2-Tetrachloroethane	0.3177	0.3165	20.00	19.93	ug/L	0	20	0.0500	u
Ethylbenzene	1.5331	1.5612	20.00	20.37	ug/L	2	20	0.0500	u
m,p-Xylenes	0.6215	0.6042	40.00	38.88	ug/L	-3	20	0.0500	u
o-Xylene	0.6147	0.5840	20.00	19.00	ug/L	-5	20	0.0500	u
Styrene	1.0713	0.9604	20.00	17.93	ug/L	-10	20	0.0500	u
Bromoform	0.2067	0.2103	20.00	20.34	ug/L	2	20	0.1000	u
Isopropylbenzene	3.1487	2.8010	20.00	17.79	ug/L	-11	20	0.0500	u

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	0.7956	0.7487	20.00	18.82	ug/L	-6	20	0.3000	u
1,2,3-Trichloropropane	0.8373	0.7840	20.00	18.73	ug/L	-6	20	0.0500	u
Propylbenzene	3.5559	3.3949	20.00	19.09	ug/L	-5	20	0.0500	u
Bromobenzene	0.8738	0.8164	20.00	18.69	ug/L	-7	20	0.0500	u
1,3,5-Trimethylbenzene	2.5146	2.2751	20.00	18.09	ug/L	-10	20	0.0500	u
2-Chlorotoluene	2.7003	2.5374	20.00	18.79	ug/L	-6	20	0.0500	u
4-Chlorotoluene	2.4377	2.2212	20.00	18.22	ug/L	-9	20	0.0500	u
tert-Butylbenzene	1.9871	1.8511	20.00	18.63	ug/L	-7	20	0.0500	u
1,2,4-Trimethylbenzene	2.3539	2.1022	20.00	17.86	ug/L	-11	20	0.0500	u
sec-Butylbenzene	2.7013	2.5556	20.00	18.92	ug/L	-5	20	0.0500	u
para-Isopropyl Toluene	2.1808	1.8905	20.00	17.34	ug/L	-13	20	0.0500	u
1,3-Dichlorobenzene	1.5582	1.4359	20.00	18.43	ug/L	-8	20	0.0500	u
1,4-Dichlorobenzene	1.6088	1.4204	20.00	17.66	ug/L	-12	20	0.0500	u
n-Butylbenzene	1.7157	1.6683	20.00	19.45	ug/L	-3	20	0.0500	u
1,2-Dichlorobenzene	1.5010	1.3920	20.00	18.55	ug/L	-7	20	0.0500	u
1,2-Dibromo-3-Chloropropane	0.1720	0.1412	20.00	17.28	ug/L	-14	20	0.0500	u
1,2,4-Trichlorobenzene	0.8244	0.7435	20.00	18.04	ug/L	-10	20	0.0500	u
Hexachlorobutadiene	0.2680	0.3505	20.00	26.16	ug/L	**31**	20	0.0500	c+ u v+ ***
Naphthalene	2.2611	1.9523	20.00	17.27	ug/L	-14	20	0.0500	u
1,2,3-Trichlorobenzene	0.7802	0.7220	20.00	18.51	ug/L	-7	20	0.0500	u
Dibromofluoromethane	0.4215	0.4703	50.00	55.78	ug/L	12	20	0.0500	u
1,2-Dichloroethane-d4	0.3281	0.3390	50.00	51.66	ug/L	3	20	0.0500	u
Toluene-d8	1.1648	1.2117	50.00	52.01	ug/L	4	20	0.0500	u
Bromofluorobenzene	1.1133	1.1007	50.00	49.43	ug/L	-1	20	0.0500	u

ISTD (ICAL kke22)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	857785	787827	-8.16	9.71	9.71	0.00
1,4-Difluorobenzene	1338370	1300294	-2.84	10.77	10.77	0.00
Chlorobenzene-d5	1081801	1243320	14.93	14.32	14.31	-0.01
1,4-Dichlorobenzene-d4	483101	588341	21.78	16.76	16.75	-0.01

Analyst: BO Date: 12/24/08 Reviewer: ACM Date: 12/29/08

+=high bias -=low bias c=CCV u=use v=ICV

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 458515995

Date : 12/23/08 Reference : fkk25
Sequence : MSVOA06 fln Analyzed : 11/20/08 22:19

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	811980	12.82	1320025	14.16	1182141	18.69	596162	21.48
		LOWER LIMIT	405990	12.32	660013	13.66	591071	18.19	298081	20.98
		UPPER LIMIT	1623960	13.32	2640050	14.66	2364282	19.19	1192324	21.98
003	CCV/LCS	QC476973	989880	12.84	1725240	14.18	1416224	18.70	695274	21.49
005	BLANK	QC476974	986554	12.84	1650374	14.18	1413562	18.70	691849	21.49
006	SAMPLE	208575-012	933323	12.84	1567806	14.18	1383385	18.69	667214	21.49
007	SAMPLE	208575-013	915137	12.84	1610450	14.18	1369383	18.70	664410	21.49
008	SAMPLE	208575-014	976346	12.84	1572909	14.18	1353628	18.70	662183	21.49
009	SAMPLE	208578-001	942932	12.84	1666873	14.18	1362428	18.70	661212	21.49
010	SAMPLE	208578-002	993940	12.84	1686022	14.18	1362564	18.70	665260	21.49
011	SAMPLE	208578-003	952404	12.84	1601384	14.18	1366133	18.70	658064	21.49
012	SAMPLE	208578-004	919858	12.84	1625875	14.19	1334766	18.70	663427	21.50
013	MSS	208578-008	951136	12.85	1568329	14.19	1375407	18.70	654977	21.50
014	SAMPLE	208599-010	941382	12.85	1626115	14.19	1345044	18.70	640865	21.50
015	SAMPLE	208599-025	930384	12.85	1556668	14.19	1291661	18.70	661758	21.50
016	SAMPLE	208752-004	899086	12.84	1542969	14.18	1288225	18.70	663213	21.50
017	SAMPLE	208752-005	940243	12.84	1576550	14.18	1352249	18.71	675904	21.49
018	SAMPLE	208752-006	978665	12.84	1674057	14.18	1388617	18.70	664647	21.49
019	SAMPLE	208752-008	927053	12.85	1608983	14.18	1399467	18.70	664884	21.50
020	MS	QC476988	928011	12.85	1629524	14.19	1347756	18.70	693865	21.50
021	MSD	QC476989	977331	12.84	1660039	14.18	1413207	18.71	693721	21.49

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 838515986

Date : 12/23/08 Reference : kke22
Sequence : MSVOA11 kln Analyzed : 11/18/08 21:04

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	857785	9.71	1338370	10.77	1081801	14.32	483101	16.76
		LOWER LIMIT	428893	9.21	669185	10.27	540901	13.82	241551	16.26
		UPPER LIMIT	1715570	10.21	2676740	11.27	2163602	14.82	966202	17.26
003	CCV/BS	QC476975	787827	9.71	1300294	10.77	1243320	14.31	588341	16.75
006	BSD	QC476976	811891	9.71	1349852	10.76	1299174	14.31	615402	16.75
008	BLANK	QC476977	800723	9.71	1349558	10.77	1280898	14.31	504637	16.75
009	SAMPLE	208496-001	782545	9.71	1311610	10.76	1248424	14.31	556602	16.75
010	SAMPLE	208496-002	868851	9.71	1451972	10.76	1396281	14.31	631664	16.75
011	SAMPLE	208496-003	964655	9.71	1596529	10.77	1544092	14.31	711962	16.75
012	SAMPLE	208496-004	1083982	9.71	1799937	10.76	1730143	14.31	785621	16.75
013	SAMPLE	208496-005	1195970	9.71	1968898	10.77	1864329	14.31	859641	16.75
014	SAMPLE	208496-007	1240256	9.71	2018813	10.77	1912147	14.31	893882	16.75
015	SAMPLE	208496-008	1279595	9.70	2086578	10.76	1990537	14.31	888264	16.75
016	SAMPLE	208496-009	1331542	9.71	2133487	10.77	2024651	14.31	857478	16.75
017	SAMPLE	208578-005	1313238	9.71	2106253	10.77	1992658	14.31	823277	16.75
018	SAMPLE	208578-006	1289685	9.71	2066420	10.77	1957364	14.32	787526	16.75
019	SAMPLE	208578-007	1223242	9.71	1977510	10.76	1917014	14.32	772437	16.75
020	SAMPLE	208752-009	1253562	9.71	2015738	10.77	1924309	14.31	771630	16.75
021	SAMPLE	208696-001	1204797	9.71	1912712	10.76	1826376	14.32	751838	16.75
022	SAMPLE	208552-001	1145053	9.71	1856350	10.77	1767274	14.32	719996	16.75
023	SAMPLE	208709-010	1154361	9.71	1874661	10.77	1809833	14.31	773481	16.75
024	SAMPLE	208639-003	1159068	9.71	1865464	10.76	1789939	14.31	700640	16.75
025	SAMPLE	208639-005	1133392	9.71	1808131	10.77	1716717	14.32	678925	16.75
026	SAMPLE	208708-004	1084877	9.71	1726500	10.76	1648732	14.31	658353	16.75

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 458468482

Instrument : MSVOA06 Begun : 11/20/08 08:02
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	fkk01	X	IB			11/20/08 08:02	1.0	1	
002	fkk02	X	BFB			11/20/08 08:57	1.0	2	
003	fkk03	X	20PPB			11/20/08 09:14	1.0	3 4 5 6 1	
004	fkk04	X	BFB			11/20/08 10:48	1.0	2	
005	fkk05	X	20PPB			11/20/08 11:04	1.0	3 4 5 6 1	
006	fkk06	X	BFB			11/20/08 11:44	1.0	2	
007	fkk07	X	BFB			11/20/08 11:56	1.0	2	
008	fkk08	X	20PPB			11/20/08 12:13	1.0	3 4 5 6 1	
009	fkk09	X	BFB			11/20/08 13:19	1.0	2	
010	fkk10	X	20PPB			11/20/08 13:36	1.0	3 4 5 6 1	
011	fkk11	X	IB			11/20/08 14:29	1.0	1	
012	fkk12	X	IB			11/20/08 15:03	1.0	1	
013	fkk13	X	LOW PT			11/20/08 15:37	1.0	1	
014	fkk14	TUN	BFB			11/20/08 16:09	1.0	2	
015	fkk15	X	IB			11/20/08 16:38	1.0	1	
016	fkk16	X	IB			11/20/08 17:12	1.0	1	
017	fkk17	X	IB			11/20/08 17:46	1.0	1	
018	fkk18	IB	CALIB			11/20/08 18:20	1.0	1	
019	fkk19	ICAL	0.25PPB			11/20/08 18:54	1.0	3 4 7 6 1	
020	fkk20	ICAL	0.5PPB			11/20/08 19:28	1.0	3 4 7 6 1	
021	fkk21	ICAL	2PPB			11/20/08 20:02	1.0	3 4 7 6 1	
022	fkk22	ICAL	5PPB			11/20/08 20:36	1.0	3 4 7 6 1	
023	fkk23	ICAL	10PPB			11/20/08 21:11	1.0	3 4 7 6 1	
024	fkk24	ICAL	20PPB			11/20/08 21:45	1.0	3 4 7 6 1	
025	fkk25	ICAL	50PPB			11/20/08 22:19	1.0	3 4 7 6 1	
026	fkk26	ICAL	75PPB			11/20/08 22:53	1.0	3 4 7 6 1	
027	fkk27	ICAL	100PPB			11/20/08 23:28	1.0	3 4 7 6 1	
028	fkk28	ICV	ICVGAS25PPB			11/21/08 00:02	1.0	8 1	
029	fkk29	ICV	ICV25PPB			11/21/08 00:36	1.0	9 10 11 1	
030	fkk30	X	IB			11/21/08 01:10	1.0	1	
031	fkk31	X	IB			11/21/08 01:45	1.0	1	
032	fkk32	X	IB			11/21/08 02:19	1.0	1	

BO 11/21/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 32.

BO 11/21/08 : fkk14, maximum sensitivity autotune

Analyst: BO Date: 11/21/08 Reviewer: ACM Date: 11/21/08

Standards used: 1=S10447 2=S9454 3=S10756 4=S10619 5=S10355 6=S9073 7=S10653 8=S10631 9=S10654 10=S10798 11=S10788

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CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 458515995

Instrument : MSVOA06 Begun : 12/23/08 07:55
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	fln01	X	IB			12/23/08 07:55	1.0	1	
002	fln02	TUN	BFB			12/23/08 08:26	1.0	2	
003	fln03	CCV/LCS	QC476973	Water	146372	12/23/08 08:43	1.0	3 4 5 6 1	
004	fln04	X	IB			12/23/08 09:29	1.0	1	
005	fln05	BLANK	QC476974	Water	146372	12/23/08 10:03	1.0	1	
006	fln06	SAMPLE	208575-012	Water	146372	12/23/08 10:37	1.0	1	
007	fln07	SAMPLE	208575-013	Water	146372	12/23/08 11:12	1.0	1	
008	fln08	SAMPLE	208575-014	Water	146372	12/23/08 11:46	1.0	1	
009	fln09	SAMPLE	208578-001	Water	146372	12/23/08 12:20	1.0	1	headspace > 1 mL
010	fln10	SAMPLE	208578-002	Water	146372	12/23/08 12:53	1.0	1	
011	fln11	SAMPLE	208578-003	Water	146372	12/23/08 13:27	1.0	1	
012	fln12	SAMPLE	208578-004	Water	146372	12/23/08 14:01	1.0	1	headspace > 1 mL
013	fln13	MSS	208578-008	Water	146372	12/23/08 14:35	1.0	1	
014	fln14	SAMPLE	208599-010	Water	146372	12/23/08 15:09	1.0	1	
015	fln15	SAMPLE	208599-025	Water	146372	12/23/08 15:43	14.29	1	headspace <= 1 mL
016	fln16	SAMPLE	208752-004	Water	146372	12/23/08 16:17	4.0	1	
017	fln17	SAMPLE	208752-005	Water	146372	12/23/08 16:51	4.0	1	
018	fln18	SAMPLE	208752-006	Water	146372	12/23/08 17:26	14.29	1	
019	fln19	SAMPLE	208752-008	Water	146372	12/23/08 18:00	50.0	1	
020	fln20	MS	QC476988	Water	146372	12/23/08 18:34	1.0	1 3 4 5 6	
021	fln21	MSD	QC476989	Water	146372	12/23/08 19:08	1.0	1 3 4 5 6	
022	fln22	X	IB			12/23/08 19:43	1.0	1	
023	fln23	X	IB			12/23/08 20:17	1.0	1	
024	fln24	X	IB			12/23/08 20:51	1.0	1	

BO 12/24/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 24.

Analyst: BO Date: 12/24/08 Reviewer: LW Date: 12/24/08

Standards used: 1=S10715 2=S10902 3=S10935 4=S10844 5=S10798 6=S10985

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CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 838465788

Instrument : MSVOA11 Begun : 11/18/08 11:08
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	kke01	X	IB			11/18/08 11:08	1.0	1	
002	kke02	X	BFB			11/18/08 11:49	1.0	2	
003	kke03	X	BFB			11/18/08 12:06	1.0	2	
004	kke04	X	BFB			11/18/08 12:56	1.0	2	
005	kke05	X	BFB			11/18/08 13:10	1.0	2	
006	kke06	X	BFB			11/18/08 13:43	1.0	2	
007	kke07	X	BFB			11/18/08 14:03	1.0	2	
008	kke08	X	RT			11/18/08 14:33	1.0	1	
009	kke09	X	IB			11/18/08 15:01	1.0	1	
010	kke10	X	LP			11/18/08 15:29	1.0	1	
011	kke11	X	BFB			11/18/08 16:02	1.0	2	
012	kke12	TUN	BFB			11/18/08 16:19	1.0	2	
013	kke13	X	IB			11/18/08 16:51	1.0	1	
014	kke14	X	IB			11/18/08 17:19	1.0	1	
015	kke15	IB	CALIB			11/18/08 17:47	1.0	1	
016	kke16	ICAL				11/18/08 18:16	1.0	3 4 5 6 1	
017	kke17	ICAL				11/18/08 18:44	1.0	3 4 5 6 1	
018	kke18	ICAL				11/18/08 19:12	1.0	3 4 5 6 1	
019	kke19	ICAL				11/18/08 19:40	1.0	3 4 5 6 1	
020	kke20	ICAL				11/18/08 20:08	1.0	3 4 5 6 1	
021	kke21	ICAL				11/18/08 20:36	1.0	3 4 5 6 1	
022	kke22	ICAL				11/18/08 21:04	1.0	3 4 5 6 1	
023	kke23	ICAL				11/18/08 21:32	1.0	3 4 5 6 1	
024	kke24	ICAL				11/18/08 22:01	1.0	3 4 5 6 1	
025	kke25	ICV				11/18/08 22:29	1.0	7 1	
026	kke26	ICV				11/18/08 22:57	1.0	8 9 10 1	
027	kke27	X	IB			11/18/08 23:25	1.0	1	
028	kke28	X	IB			11/18/08 23:53	1.0	1	
029	kke29	X	IB			11/19/08 00:22	1.0	1	

ACM 11/19/08 : Adjusted tune prior to runs 4, 6, and 11.

ACM 11/24/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 24.

Analyst: ACM Date: 11/19/08 Reviewer: LW Date: 11/20/08

Standards used: 1=S10764 2=S9454 3=S10756 4=S10619 5=S9073 6=S10355 7=S10631 8=S10654 9=S10533 10=S10788

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 838515986

Instrument : MSVOA11 Begun : 12/23/08 07:46
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	kln01	X	IB				12/23/08 07:46	1.0	1	
002	kln02	TUN	BFB				12/23/08 08:23	1.0	2	
003	kln03	CCV/BS	QC476975		Water	146373	12/23/08 08:36	1.0	3 4 5 6 1	
004	kln04	X	QC476976		Water	146373	12/23/08 09:15	1.0	3 4 5 6 1	
005	kln05	X	IB				12/23/08 09:43	1.0	1	
006	kln06	BSD	QC476976		Water	146373	12/23/08 10:11	1.0	3 4 5 6 1	
007	kln07	X	IB				12/23/08 10:39	1.0	1	
008	kln08	BLANK	QC476977		Water	146373	12/23/08 11:07	1.0	1	
009	kln09	SAMPLE	208496-001	M	Soil	146373	12/23/08 11:35	10000	1 7	
010	kln10	SAMPLE	208496-002	M	Soil	146373	12/23/08 12:03	1000	1 7	
011	kln11	SAMPLE	208496-003	M	Soil	146373	12/23/08 12:32	2000	1 7	
012	kln12	SAMPLE	208496-004	M	Soil	146373	12/23/08 13:00	200.0	1 7	
013	kln13	SAMPLE	208496-005	M	Soil	146373	12/23/08 13:28	200.0	1 7	
014	kln14	SAMPLE	208496-007	M	Soil	146373	12/23/08 13:56	833.3	1 7	
015	kln15	SAMPLE	208496-008	M	Soil	146373	12/23/08 14:24	100.0	1 7	
016	kln16	SAMPLE	208496-009	M	Soil	146373	12/23/08 14:52	50000	1 7	
017	kln17	SAMPLE	208578-005		Water	146373	12/23/08 15:20	1.0	1	
018	kln18	SAMPLE	208578-006		Water	146373	12/23/08 15:49	1.0	1	
019	kln19	SAMPLE	208578-007		Water	146373	12/23/08 16:17	1.0	1	headspace > 1 mL
020	kln20	SAMPLE	208752-009		Water	146373	12/23/08 16:45	1.0	1	
021	kln21	SAMPLE	208696-001		Water	146373	12/23/08 17:13	1.0	1	pH > 2, 1:ACE=320
022	kln22	SAMPLE	208552-001		Water	146373	12/23/08 17:41	1.0	1	headspace <= 1 mL
023	kln23	SAMPLE	208709-010		Water	146373	12/23/08 18:09	3.333	1	
024	kln24	SAMPLE	208639-003		Water	146373	12/23/08 18:37	33.33	1	
025	kln25	SAMPLE	208639-005		Water	146373	12/23/08 19:05	10.0	1	
026	kln26	SAMPLE	208708-004		Water	146373	12/23/08 19:34	71.43	1	
027	kln27	X	IB				12/23/08 20:02	1.0	1	
028	kln28	X	IB				12/23/08 20:30	1.0	1	
029	kln29	X	IB				12/23/08 20:58	1.0	1	

BO 12/24/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 29.

Analyst: BO Date: 12/24/08 Reviewer: LW Date: 12/24/08

Standards used: 1=S10764 2=S10902 3=S11013 4=S10935 5=S10798 6=S10985 7=S10843

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GC/MS VOLATILE ORGANICS

Batch #: 146372

Water Sample Prep Sheet

	Sample Number	Sample Vial	pH	Head space?	Shelf	Dil'n Flask	MS#	Comments	Initials & Date
1	208752-4	C	<2			1	6	mu 4x, Bzn > vc	RE 12/23/08
2	-5					2		mu 4x, Bzn > vc	
3	-6					3		mu 14.2x, Bzn > vc	
4	-8					~~5~~ 4		mu 50x, Bzn > vc	
5	208599-10		<2					mu 1x, Fr 113 curve + vc 95	
6	-25	A	<2	12mL		5		mu 14.2x cis 60	
7	208575-12	C						1X	
8	-13								
9	-14								
10	208578-8	F						MSS	
11	-8	GHI	<2					MS/MSD	
12	-1	A		12mL				TB	
13	-2	C							
14	-3								
15	-4	A		12mL					
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									

GC/MS VOLATILE ORGANICS

Batch #: 146373

Water Sample Prep Sheet

	Sample Number	Sample Vial	pH	Head space?	Shelf	Dil'n Flask	MS#	Comments	Initials & Date
1	208639-3	C	<2			7	11	m 33x, TCE > UL	RJ 12/23/08
2	-5					8		m 10x, TCE > UL, TCFM curve +	
3	208708-4					9		71.4x	
4	208709-10	D				10		m 3.3x, OD Bm	
5	208552-1	A	<2	100L				m 1x, sec-but ben	
6	208578-5	C						1x	
7	-6								
8	-7	A		100L					
9	208752-9	B						1x	
10	~~208749-3~~								
11	~~-4~~								
12	~~-5~~								
13	~~-6~~								
14	~~-7~~								
15	~~-8~~								
16	~~-9~~								
17	~~-1~~								
18	~~208696-1~~							1x	
19	208496-1	C				11		m 10,000x MeOH hold 12/23	
20	-2					12		m 1000x	
21	-3					13		m 2000x	
22	-4					14		m 200x	
23	-5					15		m 200x	
24	-7					16		m 833x	
25	-8					17		m 100x	
26	-9					18		m 50,000x	
27	208696-1	B	7					1x	
28									
29									
30									
31									
32									
33									
34									
35									

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 208592
ANALYTICAL REPORT

CH2M Hill 2625 South Plaza Drive Tempe, AZ 85282-3397	Project : 371016.SH.60.61.QS Location : Quarterly UST Level : III

Sample ID	Lab ID
TB121108	208592-001
ASE-99A-8D1	208592-002
ASE-112A-8D1	208592-003
ASE-105-8D1	208592-004
ASE-126A-8D1	208592-005
PL-507-8D1	208592-006
BC-18-8D1	208592-007
ASE-97A-8D1	208592-008
PL-508-8D1	208592-009
BC-8B-8D1	208592-010

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 12/23/2008
Project Manager

Signature: _____ Date: 12/23/2008
Senior Program Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**208592**
Client:	**CH2M Hill**
Project:	**371016.SH.60.61.QS**
Location:	**Quarterly UST**
Request Date:	**12/12/08**
Samples Received:	**12/12/08**

This data package contains sample and QC results for ten water samples, requested for the above referenced project on 12/12/08. See attached cooler receipt form for any sample receipt problems or discrepancies.

TPH-Extractables by GC (EPA 8015B):
The chromatographic baseline has been redrawn for all samples and standards to accurately quantitate all target hydrocarbons.

No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
Low responses were observed for iodomethane and vinyl acetate in the ICV analyzed 11/21/08 00:36; these analytes were not detected at or above the RL in the associated samples, and affected data was qualified with "b".

Low response was observed for vinyl acetate in the ICV analyzed 11/18/08 22:57; affected data was qualified with "b". High response was observed for hexachlorobutadiene; affected data was qualified with "b".

Low responses were observed for a number of analytes in the CCV analyzed 12/20/08 15:04; these analytes met minimum response criteria, and affected data was qualified with "b". High response was observed for hexachlorobutadiene; this analyte was not detected at or above the RL in the associated samples, and affected data was qualified with "b".

Low response was observed for Freon 12 in the CCV analyzed 12/21/08 12:48; this analyte met minimum response criteria, and affected data was qualified with "b". High responses were observed for bromomethane, 2,2-dichloropropane, and iodomethane; affected data was qualified with "b".

Low responses were observed for iodomethane and vinyl acetate in the CCV analyzed 12/22/08 09:57; these analytes met minimum response criteria, and affected data was qualified with "b". High responses were observed for many analytes; affected data was qualified with "b".

High recovery was observed for hexachlorobutadiene in the BS for batch 146297; the associated RPD was within limits, and this analyte was not detected at or above the RL in the associated samples.

High recoveries were observed for iodomethane in the BS/BSD for batch 146311; the associated RPD was within limits, and these high recoveries were not

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**208592**
Client:	**CH2M Hill**
Project:	**371016.SH.60.61.QS**
Location:	**Quarterly UST**
Request Date:	**12/12/08**
Samples Received:	**12/12/08**

Volatile Organics by GC/MS (EPA 8260B):
associated with any reported results.

Low recovery was observed for iodomethane in the LCS for batch 146323; the low recovery was not associated with any reported results. High recoveries were observed for a number of analytes; these high recoveries were not associated with any reported results.

Low recovery was observed for iodomethane in the MS for batch 146323; the parent sample was not a project sample, the associated RPD was within limits, and the low recovery was not associated with any reported results. High recoveries were observed for many analytes in the MS/MSD for batch 146323; the associated RPDs were within limits, and these high recoveries were not associated with any reported results.

No other analytical problems were encountered.

Chain of Custody

208592

Curtis & Tompkins Laboratories
2323 5th St.
Berkeley, CA 94710
510-204-2221

Honeywell — Chain Of Custody / Analysis Request

AESI Ref:	39784.54128
COC#	37380_
Lab Proj # (SDG):	
Lab ID	CTBERK
Site ID	SKYHARBOR
Lab Job #	
Authorized User:	Honeywell
Text & Excel File Drive	Excel & Text File Order

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Sampling Co.:	H+A	Privileged & Confidential	
Client Contact: (name, co., address)	CH2M HILL, 2625 South Plaza Drive, Suite 300, Tempe, AZ 85282	EDD To:	Jennifer Peterson, jennifer.Peterson@ch2m.com
Preliminary Data To	Jennifer Peterson, CH2M HILL	Sampler:	~~M. Weise~~ - M. Hall J. Yentes
Sample Receipt Acknowledgement To	Jennifer Peterson, CH2M HILL	PO #	4990342
Hard Copy To	Jennifer Peterson, CH2M HILL	Analysis Turnaround Time (TAT):	7
Invoice To:	Honeywell/Copy J Peterson	Consultant	
		Full Report TAT:	7

Site Name:	Sky Harbor	Phase:
Location of Site:	Phoenix, AZ	Sampling Program: Quarterly UST

#	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite/Grab	Field Filtered Sample ?	Total VOCs (SW8260)	TRPH DRO C10-C22 - ORO C22-C32 (8015B)	MS/MSD	Sampling Method (code)	Lab Sample Numbers
											Units						
1	TB	--	--	TB121108	12/11/8	0305	BLKWATER	WATER	TB	1	G	N	X				
2	ASE-99A	123	--	ASE-99A-8D1	12/11/8	0354	GW	WATER	REG	5	G	N	X	X			
3	ASE-112A	98.1	--	ASE-112A-8D1	12/11/8	0421	GW	WATER	REG	5	G	N	X	X			
4	ASE-105A	103	--	ASE-105-8D1	12/11/8	0455	GW	WATER	REG	5	G	N	X	X			
5	ASE-126A	122	--	ASE-126A-8D1	12/11/8	0536	GW	WATER	REG	5	G	N	X	X			
6		--	--	PL-507-8D1	12/11/8	0546	GW	WATER	REG	5	G	N	X	X			
7	BC-18	78	--	BC-18-8D1	12/11/8	0605	GW	WATER	REG	5	G	N	X	X			
8	ASE-97A	109	--	ASE-97A-8D1	12/11/8	0636	GW	WATER	REG	5	G	N	X	X			
9	ERB	--	--	PL-508-8D1	12/11/8	0643		WATER	ERB	5	G	N	X	X			
10	BC-8B	94	--	BC-8B-8D1	12/11/8	0713	GW	WATER	REG	5	G	N	X	X			
11																	
12										46							

Relinquished by	Company	Received by	Company	Condition	Custody Seals Intact
	HA		Eco Tex		
	Date/Time 12/11/08 14:30		Date/Time 12/11/08 14:30	Cooler Temp.	
Relinquished by	Company	Received by	Company	Condition	Custody Seals Intact
	Date/Time		Date/Time 12/12/08	Cooler Temp.	

Preservatives: (Other; Specify):

0 (none); 1 (4 Deg C); 2 (HCl pH<2); 3 (HNO3 pH<2); 4 (H2SO4 pH<2); 5 (NaOH pH>12); 6 (NaOH, Zn Acetate); 7 (H2SO4 (pH<2), 4 Deg C)); 8 (HCl pH<2); 9 (HCl 4 Deg C); 10 (HNO3 (pH<2), 4Deg C); 11 (4C NaOH (pH>12) & Ascorbic Acid); 12 (4C H2SO4 (pH<2) & Na2S2O3); 13 (Zn Acetate); sp (special instructions)

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 208592 Date Received 12/12/08 Number of coolers 1
Client CCI Project QUARTERLY UST

Date Opened 12/12/08 By (print) M. VILLANUEVA (sign) [signature]
Date Logged in 12/13/08 By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc) (YES) NO
   Shipping info FED EX 8670 5499 7032
2A. Were custody seals present? ... ☐ YES (circle) on cooler on samples ☐ NO
   How many 1 Name UNREADABLE Date 12/11/08
2B. Were custody seals intact upon arrival? YES NO N/A
3. Were custody papers dry and intact when received? YES NO
4. Were custody papers filled out properly (ink, signed, etc)? YES NO
5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO
6. Indicate the packing in cooler: (if other, describe)

   ☑ Bubble Wrap ☐ Foam blocks ☑ Bags ☐ None
   ☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels
7. Temperature documentation:

   Type of ice used: ☑ Wet ☐ Blue/Gel ☐ None Temp(°C) 3.7

   ☐ Samples Received on ice & cold without a temperature blank

   ☐ Samples received on ice directly from the field. Cooling process had begun
8. Were Method 5035 sampling containers present? YES (NO)
   If YES, what time were they transferred to freezer?
9. Did all bottles arrive unbroken/unopened? YES NO
10. Are samples in the appropriate containers for indicated tests? YES NO
11. Are sample labels present, in good condition and complete? YES NO
12. Do the sample labels agree with custody papers? YES (NO)
13. Was sufficient amount of sample sent for tests requested? YES NO
14. Are the samples appropriately preserved? (YES) NO N/A
15. Are bubbles > 6mm absent in VOA samples? (YES) NO N/A
16. Was the client contacted concerning this sample delivery? YES NO
    If YES, Who was called? By Date:

COMMENTS
SAMPLE #4 ID# ON SAMPLE ASE-105A-8D1
SAMPLE #5 ID# ON SAMPLE ASE-126A-6B3

Laboratory Job Number 208592

ANALYTICAL REPORT

TPH-Extractables by GC

Matrix: Water

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	12/11/08
Units:	ug/L	Received:	12/12/08
Diln Fac:	1.000	Prepared:	12/17/08
Batch#:	146154		

Field ID: ASE-99A-8D1 Lab ID: 208592-002
Type: SAMPLE Analyzed: 12/19/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	ND	50	15	
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	110	50-120	
Hexacosane	121	58-127	

Field ID: ASE-112A-8D1 Lab ID: 208592-003
Type: SAMPLE Analyzed: 12/19/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	93 Y	50	15	
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	105	50-120	
Hexacosane	117	58-127	

Field ID: ASE-105-8D1 Lab ID: 208592-004
Type: SAMPLE Analyzed: 12/19/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	32 J	50	15	E4
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	100	50-120	
Hexacosane	101	58-127	

Field ID: ASE-126A-8D1 Lab ID: 208592-005
Type: SAMPLE Analyzed: 12/19/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	390 Y	50	15	
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	96	50-120	
Hexacosane	98	58-127	

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	12/11/08
Units:	ug/L	Received:	12/12/08
Diln Fac:	1.000	Prepared:	12/17/08
Batch#:	146154		

Field ID: PL-507-8D1 Lab ID: 208592-006
Type: SAMPLE Analyzed: 12/19/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	430 Y	50	15	
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	104	50-120	
Hexacosane	107	58-127	

Field ID: BC-18-8D1 Lab ID: 208592-007
Type: SAMPLE Analyzed: 12/19/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	260 Y	50	15	
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	114	50-120	
Hexacosane	126	58-127	

Field ID: ASE-97A-8D1 Lab ID: 208592-008
Type: SAMPLE Analyzed: 12/19/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	220 Y	50	15	
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	97	50-120	
Hexacosane	96	58-127	

Field ID: PL-508-8D1 Lab ID: 208592-009
Type: SAMPLE Analyzed: 12/19/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	ND	50	15	
Motor Oil C22-C32	58 J	300	40	E4

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	107	50-120	
Hexacosane	115	58-127	

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	12/11/08
Units:	ug/L	Received:	12/12/08
Diln Fac:	1.000	Prepared:	12/17/08
Batch#:	146154		

Field ID:	BC-8B-8D1	Lab ID:	208592-010
Type:	SAMPLE	Analyzed:	12/19/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	51 Y	50	15	
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	100	50-120	
Hexacosane	103	58-127	

Type:	BLANK	Analyzed:	12/18/08
Lab ID:	QC476094		

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	ND	50	15	
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	104	50-120	
Hexacosane	115	58-127	

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC476095	Batch#:	146154
Matrix:	Water	Prepared:	12/17/08
Units:	ug/L	Analyzed:	12/18/08

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Diesel C10-C22	2,500	2,399	96	54-120	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	103	50-120	
Hexacosane	107	58-127	

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Field ID:	ASE-125A-8D1	Batch#:	146154
MSS Lab ID:	208578-008	Sampled:	12/10/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Prepared:	12/17/08
Diln Fac:	1.000	Analyzed:	12/18/08

Type: MS Lab ID: QC476096

Analyte	MSS Result	Spiked	Result	%REC	Limits	ADEQ Flags
Diesel C10-C22	<14.94	2,500	2,428	97	54-120	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	111	50-120	
Hexacosane	124	58-127	

Type: MSD Lab ID: QC476097

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
Diesel C10-C22	2,500	2,337	93	54-120	4	31	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	103	50-120	
Hexacosane	106	58-127	

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

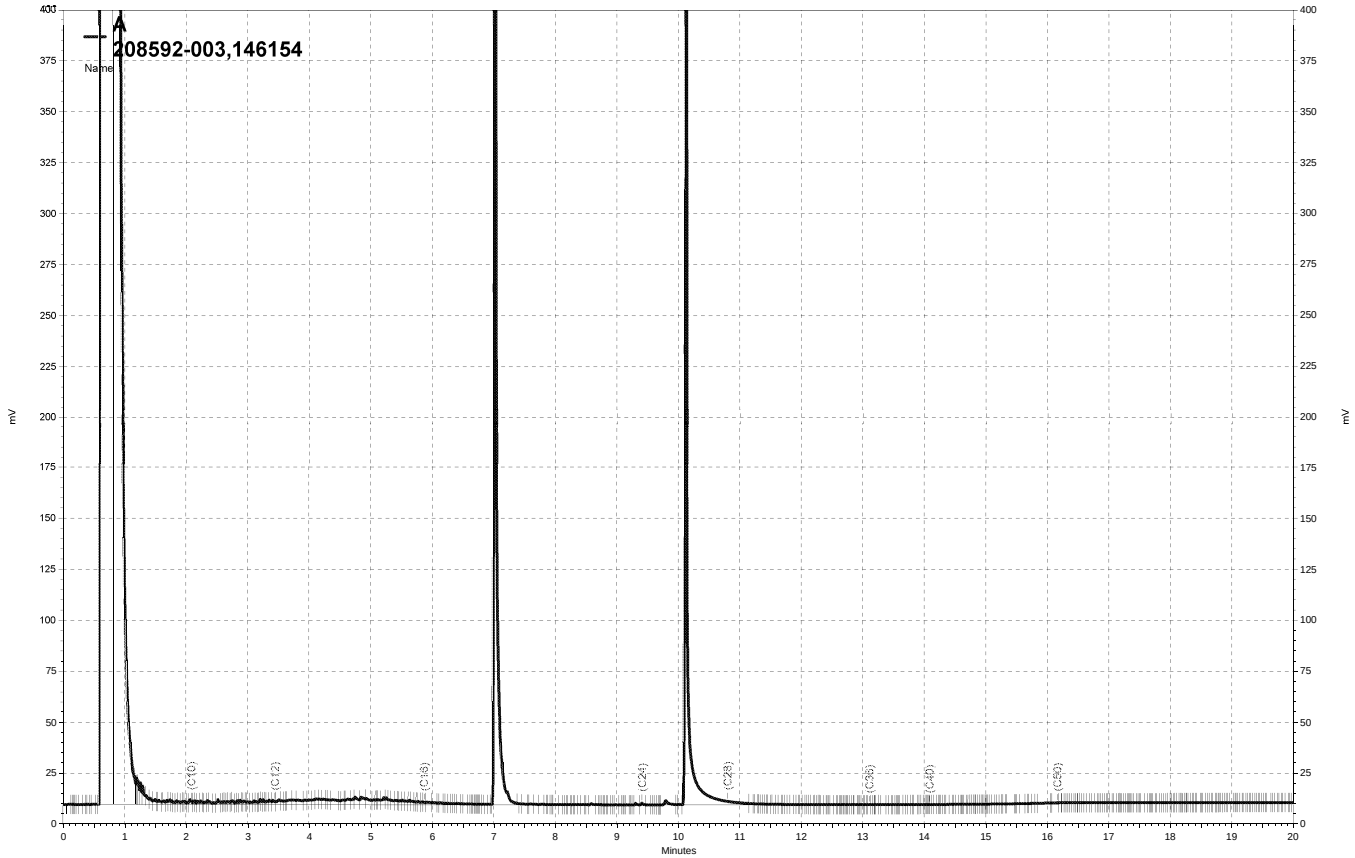
Batch QC Report

Total Extractable Hydrocarbons

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC476098	Batch#:	146154
Matrix:	Water	Prepared:	12/17/08
Units:	ug/L	Analyzed:	12/18/08

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Motor Oil C22-C32	2,500	2,876	115	60-140	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	102	50-120	
Hexacosane	91	58-127	



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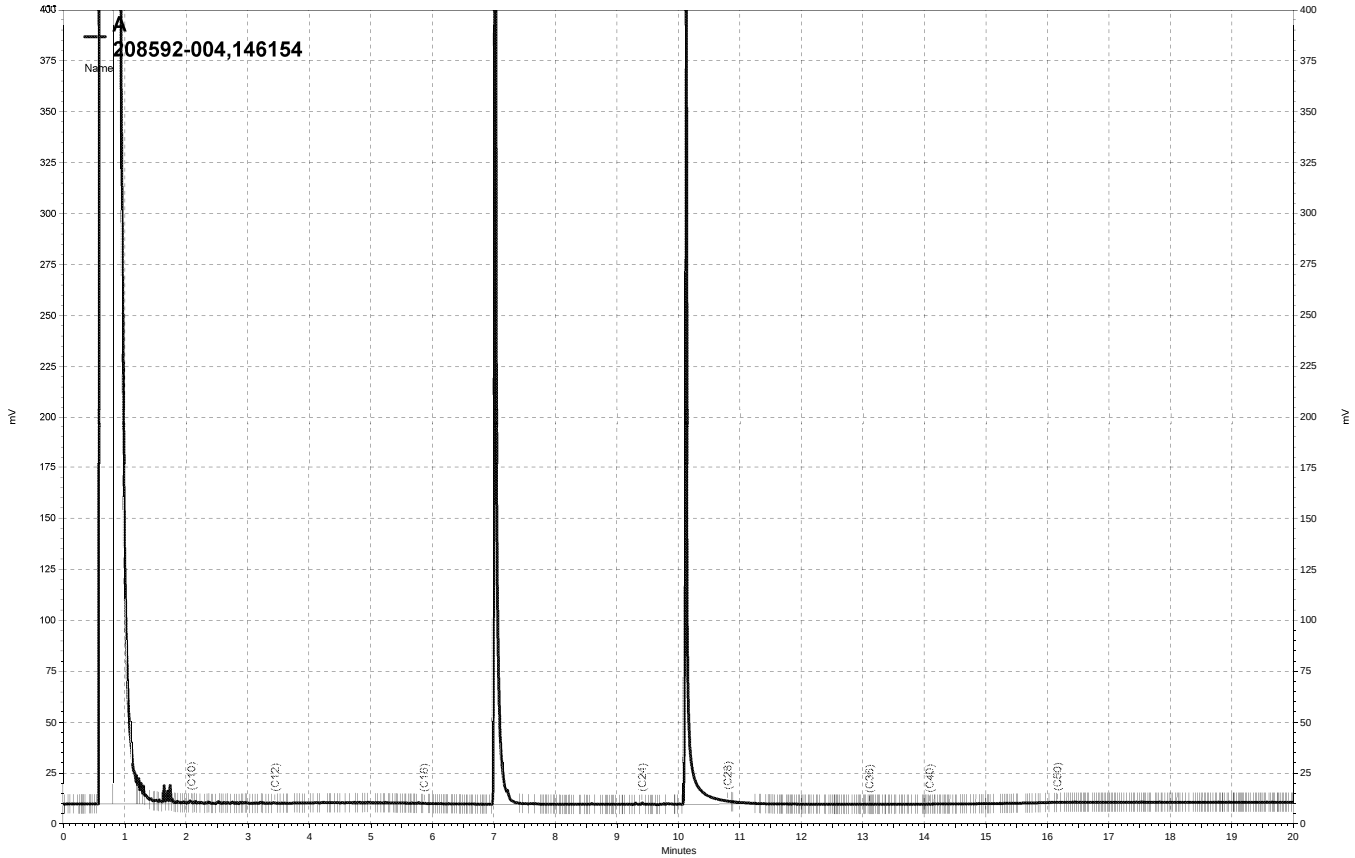

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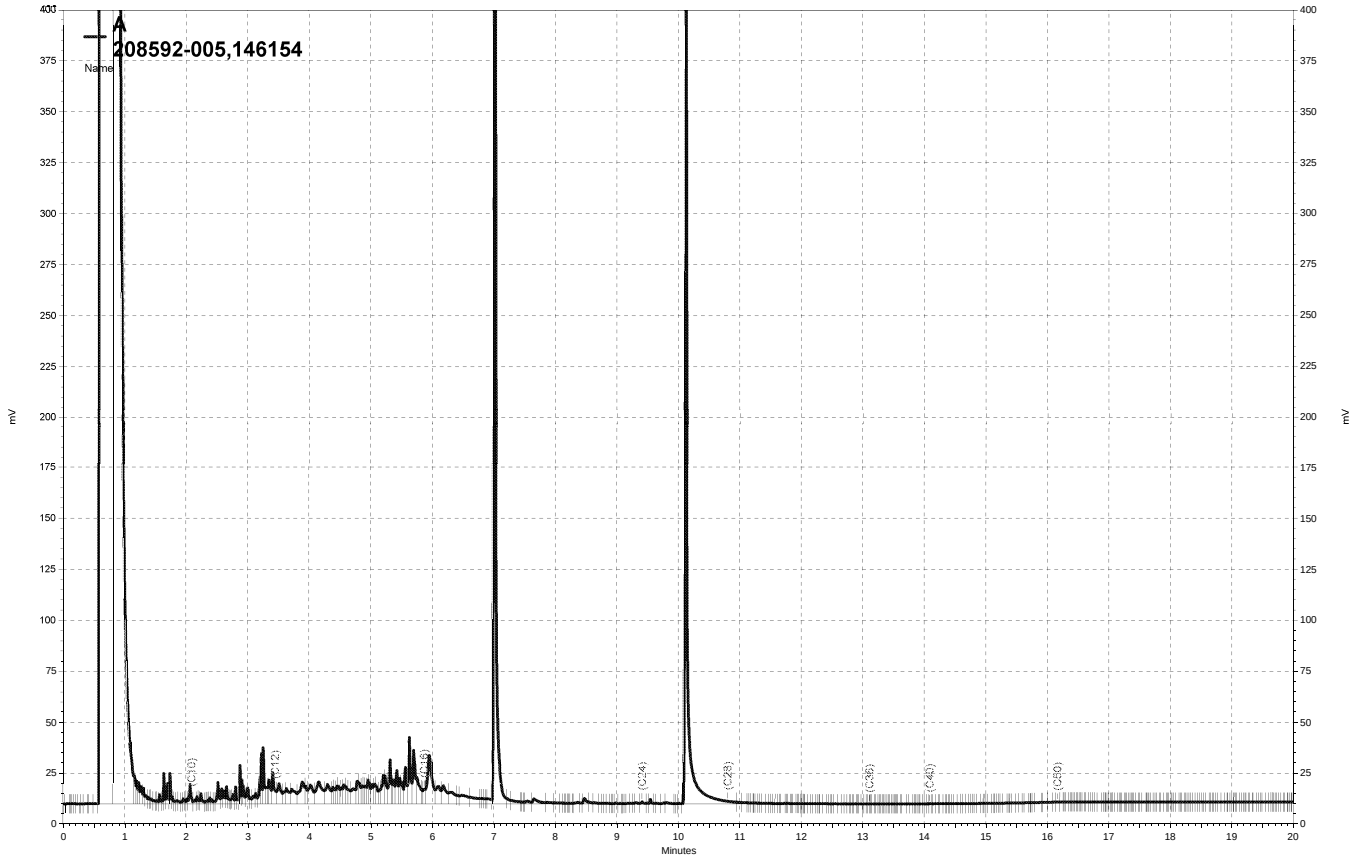

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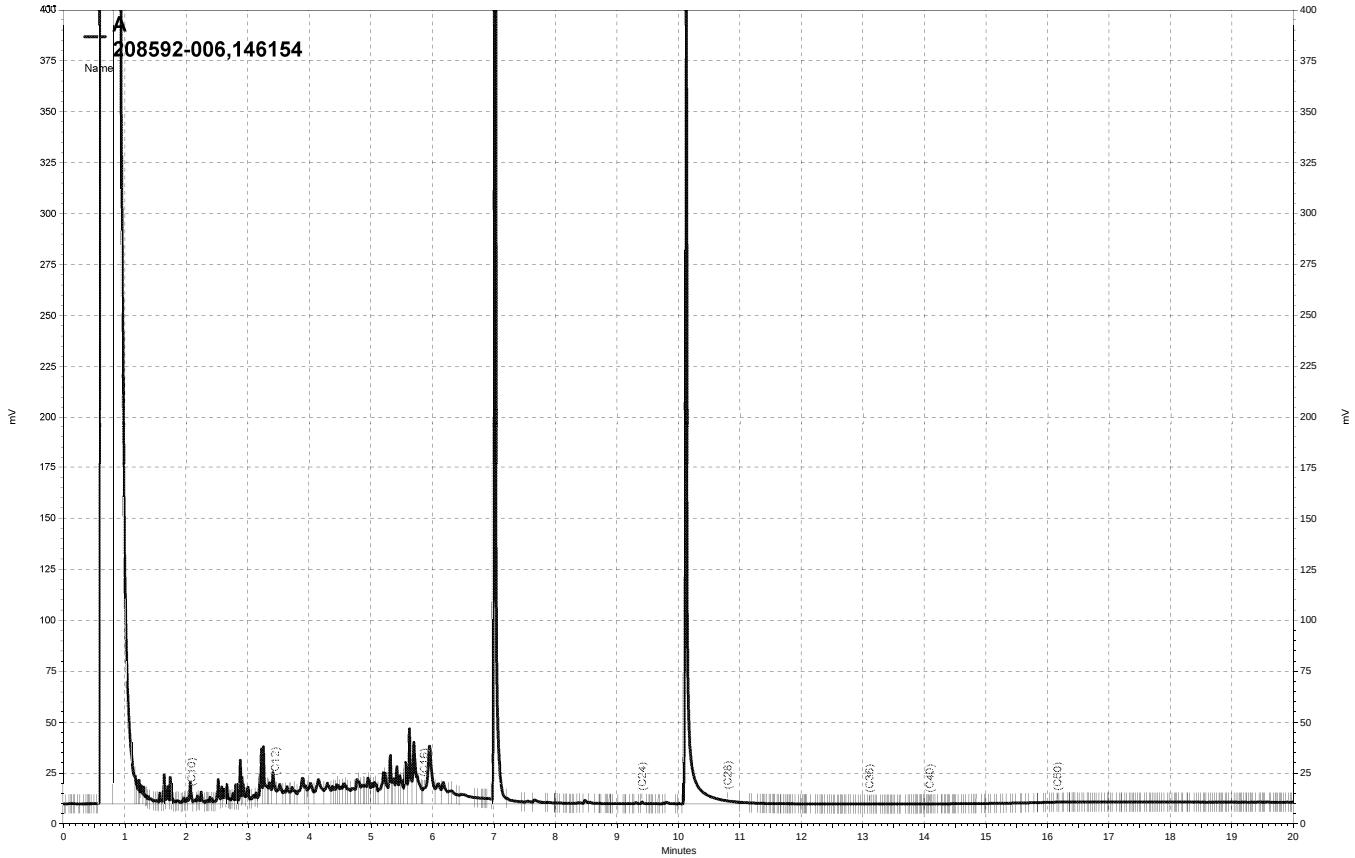

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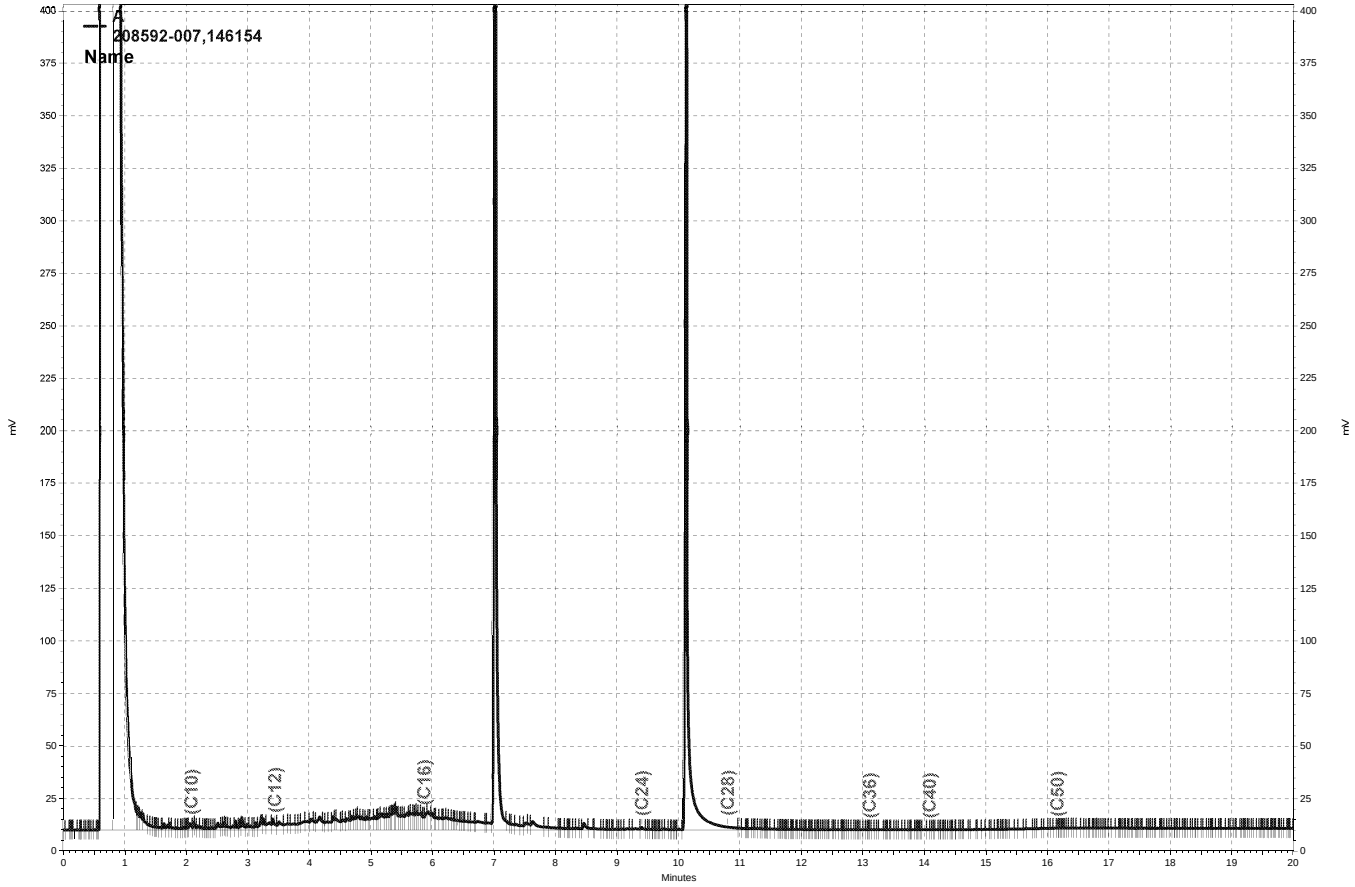

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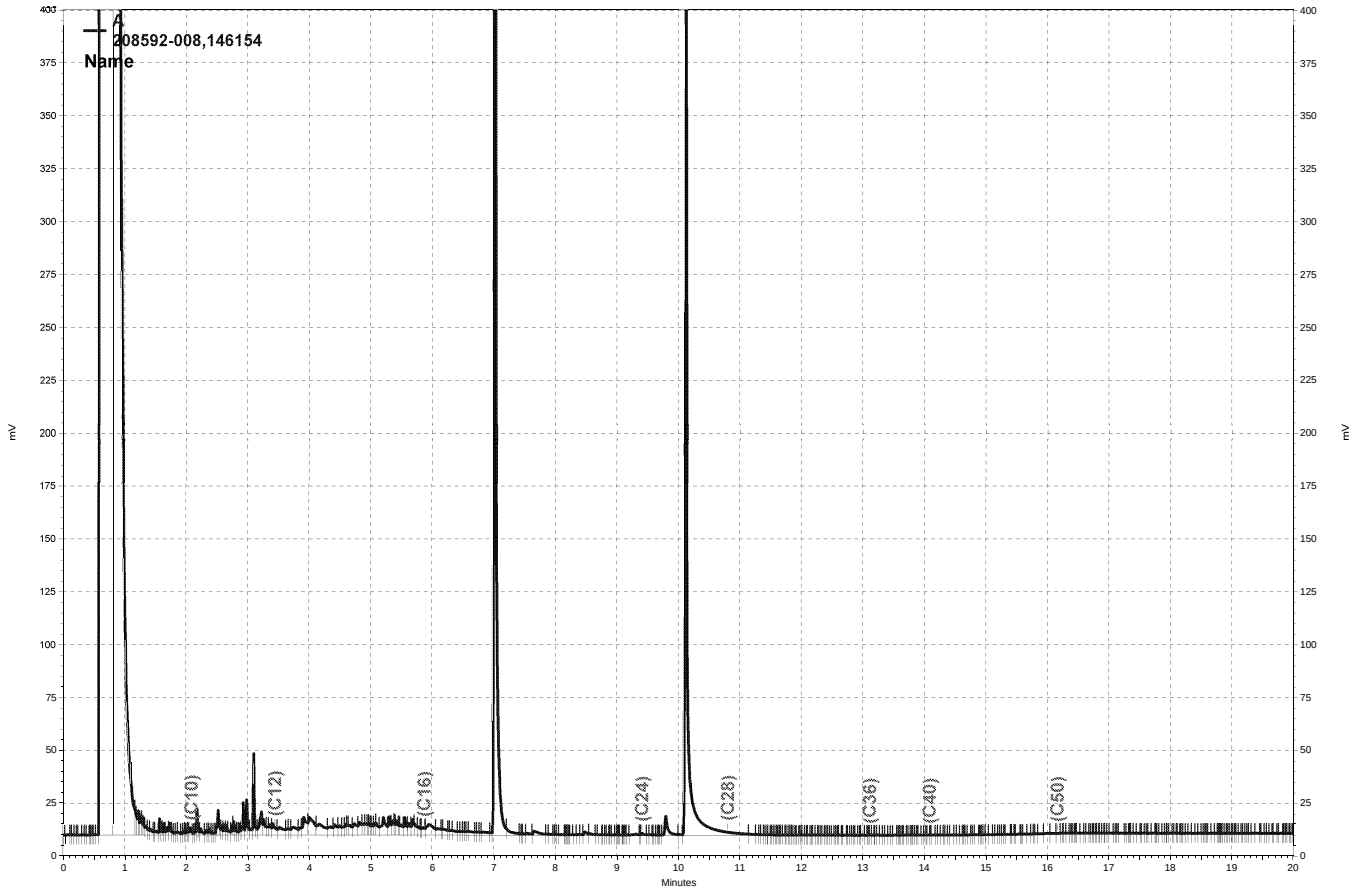

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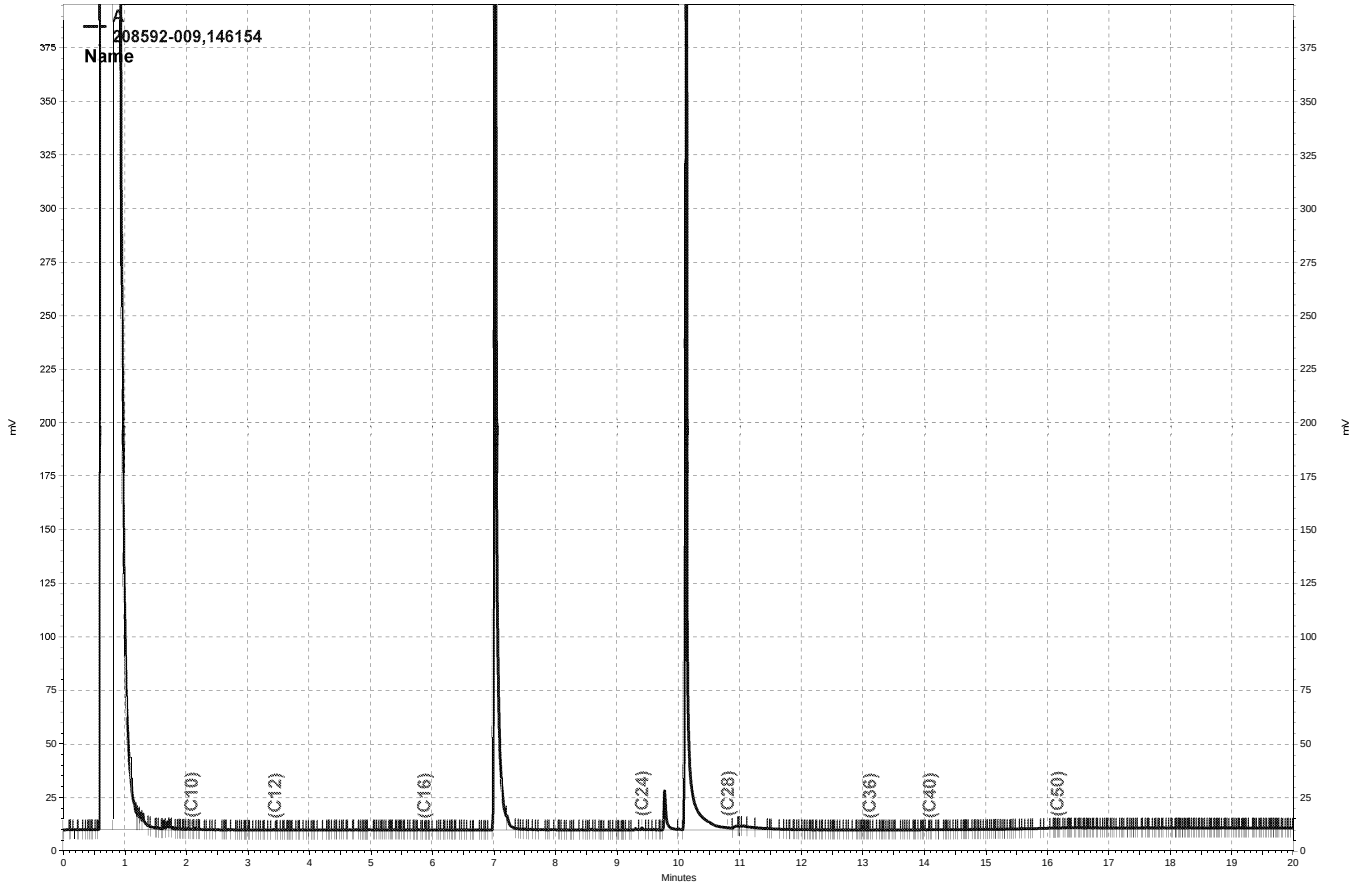

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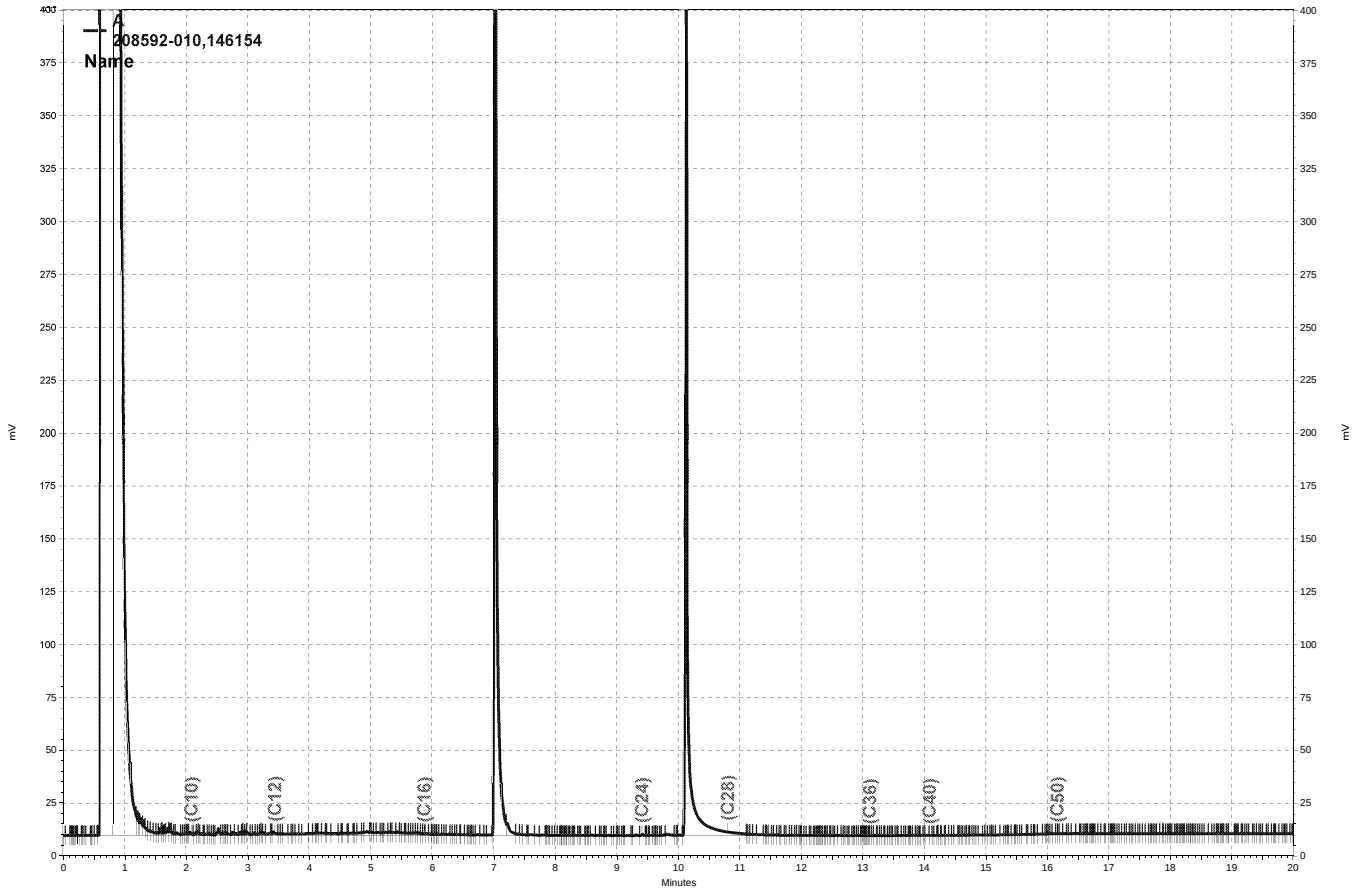

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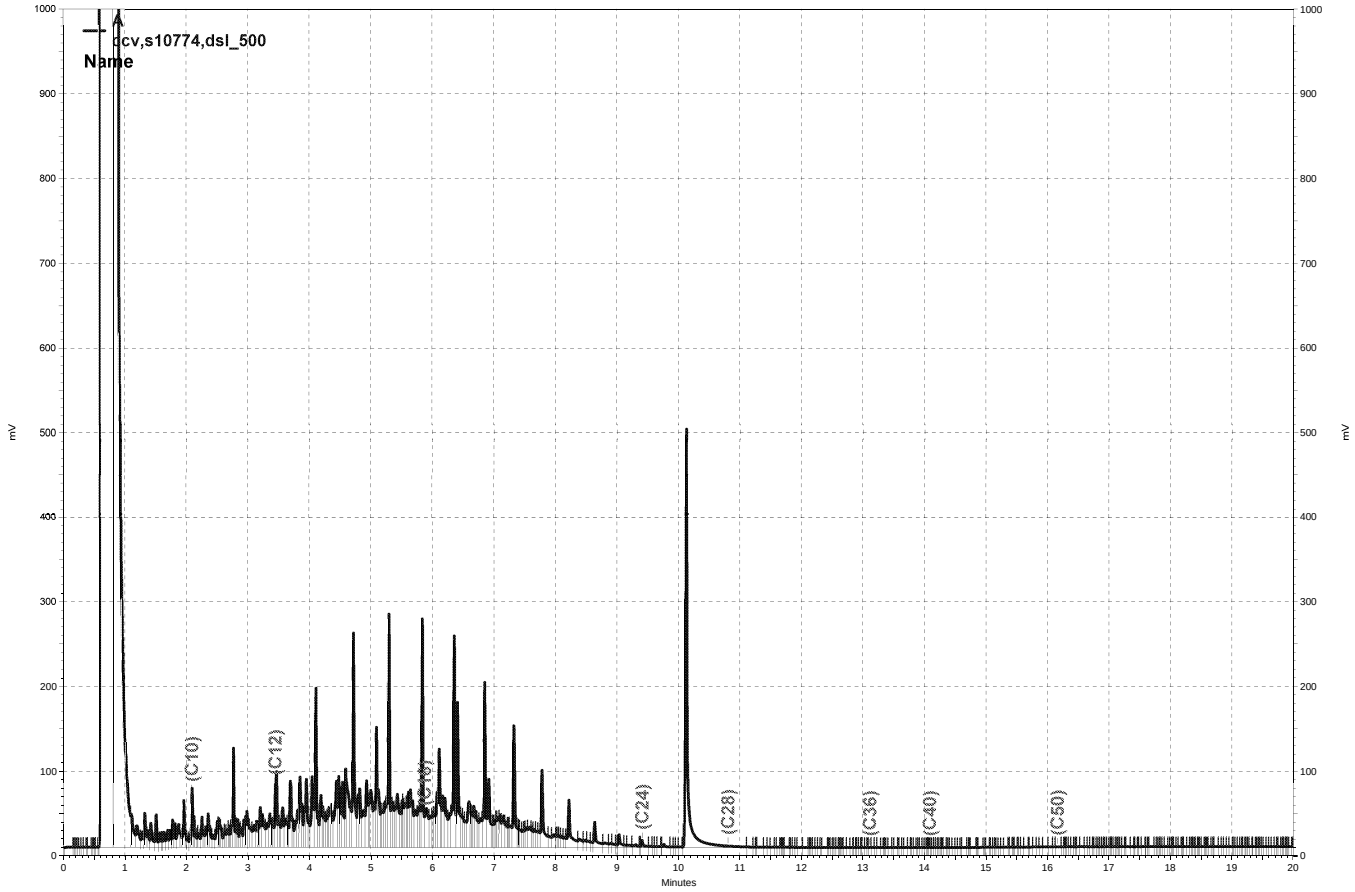

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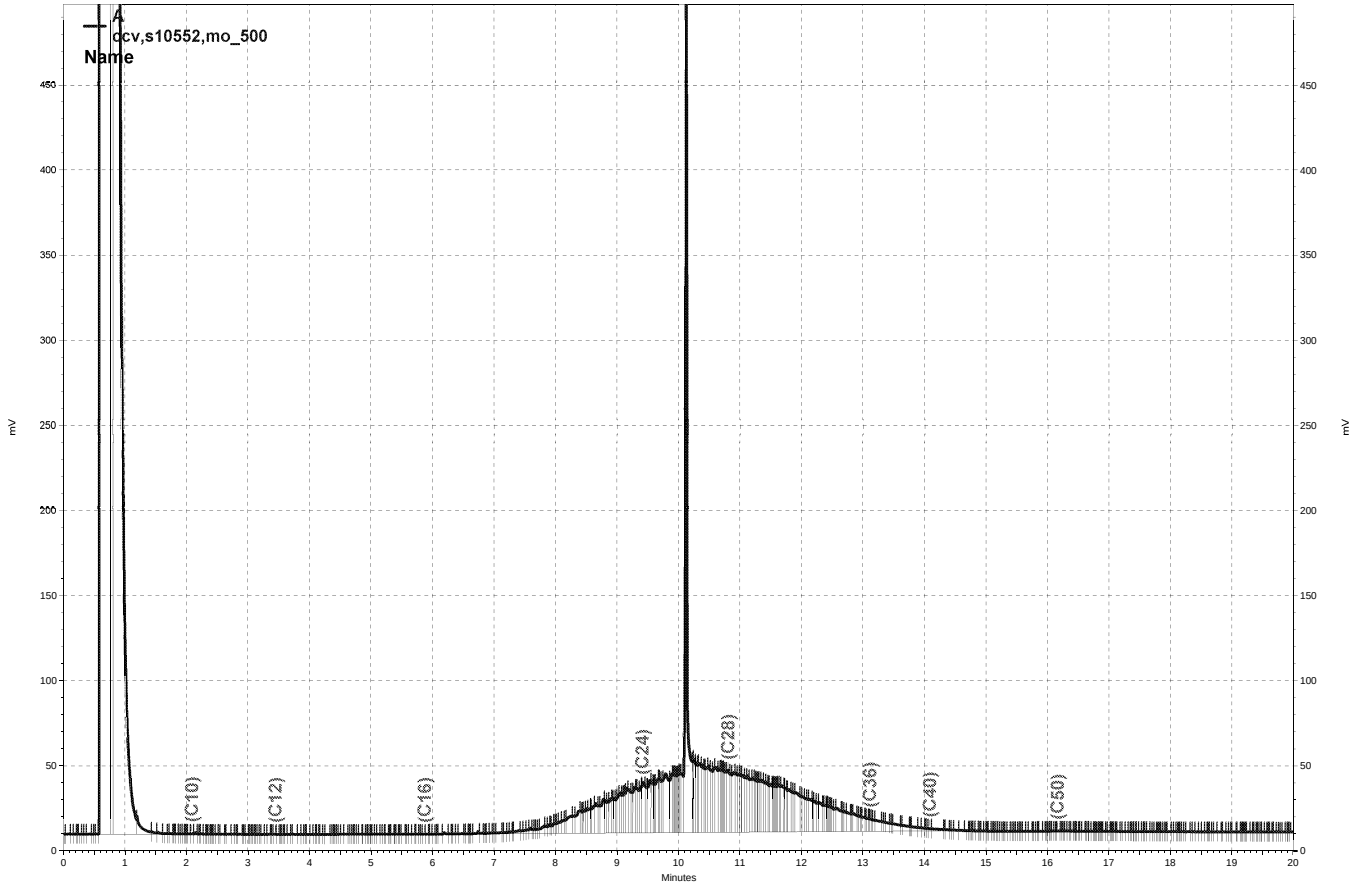

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CURTIS & TOMPKINS INITIAL CALIBRATION FOR 208592 GCSV Water: SW8015AZR1

Inst : GC26A
Calnum : 868466089004
Units : mg/L

Name : 26A diesel_323
Date : 18-NOV-2008 19:38
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	323a008	868466089008	DSL_10	18-NOV-2008 19:38	S9527
L2	323a009	868466089009	DSL_100	18-NOV-2008 20:06	S9528
L3	323a010	868466089010	DSL_500	18-NOV-2008 20:35	S9529
L4	323a011	868466089011	DSL_1000	18-NOV-2008 21:04	S9530
L5	323a012	868466089012	DSL_5000	18-NOV-2008 21:33	S9526
L6	323a013	868466089013	DSL_7500	18-NOV-2008 22:01	S9531

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C22	27669	29864	28006	25990	26629	23471	AVRG		3.71E-5		26938	8	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C10-C22	10.00	3	100.0	11	500.0	4	1000	-4	5000	-1	7500	-13

Analyst: ATL Date: 11/24/08 Reviewer: CW Date: 11/24/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 208592 GCSV Water
SW8015AZR1

Inst : GC26A Name : 26A diesel_323
Calnum : 868466089004 Cal Date : 18-NOV-2008

ICV 868466089015 (323a015 18-NOV-2008) stds: S10153

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C10-C22	26938	28040	500.0	520.5	mg/L	4	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 208592 GCSV Water: SW8015AZR1

Inst : GC26A
Calnum : 868466089003
Units : mg/L

Name : OTP(26A)_323
Date : 19-NOV-2008 09:23
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	323a039	868466089039	OTP_5	19-NOV-2008 09:23	S9739
L2	323a040	868466089040	OTP_10	19-NOV-2008 09:52	S9740
L3	323a041	868466089041	OTP_25	19-NOV-2008 10:20	S9741
L4	323a042	868466089042	OTP_50	19-NOV-2008 10:49	S9742
L5	323a043	868466089043	OTP_100	19-NOV-2008 11:18	S9745
L6	323a044	868466089044	OTP_200	19-NOV-2008 11:47	S9744

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	29916	32641	30352	26603	29783	29496	AVRG		3.36E-5		29798	6	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	5.000	0	10.00	10	25.00	2	50.00	-11	100.0	0	200.0	-1

ATL 11/21/08 : OTP_25 point was used to update RT for asurotp323.met.

Analyst: ATL Date: 11/21/08 Reviewer: CW Date: 11/24/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 208592 GCSV Water: SW8015AZR1

Inst : GC26A
Calnum : 868487360001
Units : mg/L

Name : MO(26a)_338
Date : 03-DEC-2008 18:28
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	338a013	868487360013	MO_50	03-DEC-2008 18:28	S10563
L2	338a015	868487360015	MO_500	03-DEC-2008 19:26	S10564
L3	338a016	868487360016	MO_1000	03-DEC-2008 19:55	S10566
L4	338a017	868487360017	MO_5000	03-DEC-2008 20:23	S10567
L5	338a018	868487360018	MO_7500	03-DEC-2008 20:52	S10568
L6	338a030	868487360030	MO_250	04-DEC-2008 13:02	S10565

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C22-C32	11273	12715	12308	12247	11468	11999	AVRG		8.33E-5		12002	5	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C22-C32	50.00	-6	500.0	6	1000	3	5000	2	7500	-4	250.0	0

ATL 12/04/08 : Manually integrated all motor oil points except MO_250 for fuel hump. MO_250 pt. was re-run to confirm misinject run #14.

Analyst: ATL Date: 12/04/08 Reviewer: CP Date: 12/04/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208592 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : DSL_500 IDF : 1.0
Seqnum : 868509078003 File : 353a003 Time : 18-DEC-2008 13:07
Standards: S10774

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C22	868466089004	18-NOV-2008	26938	30038	500.0	557.5	mg/L	12	15	
Hexacosane	868470899001	21-NOV-2008	20727	23766	50.00	57.33	mg/L	15	15	

JDG 12/19/08 : Integrations: manual peak and fuel hump.

JDG: 12/19/08 * DNT: 12/19/08 ATL: 12/23/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208592 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : MO_500 IDF : 1.0
Seqnum : 868509078004 File : 353a004 Time : 18-DEC-2008 13:36
Standards: S10552

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C22-C32	868487360001	03-DEC-2008	12002	12062	500.0	502.5	mg/L	1	15	
Hexacosane	868470899001	21-NOV-2008	20727	16712	50.00	40.31	mg/L	**-19**	15	c-

Analyst: JDG Date: 12/19/08 Reviewer: DNT Date: 12/19/08

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208592 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : OTP_50 IDF : 1.0
Seqnum : 868509078006 File : 353a006 Time : 18-DEC-2008 17:20
Cal : 868466089003 Caldate : 19-NOV-2008
Standards: S10089

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
o-Terphenyl	29798	29213	50.00	49.02	mg/L	-2	15	

Analyst: DNT Date: 12/18/08 Reviewer: JDG Date: 12/19/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208592 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : DSL_250 IDF : 1.0
Seqnum : 868509078018 File : 353a018 Time : 18-DEC-2008 23:58
Standards: S10773

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C22	868466089004	18-NOV-2008	26938	27779	250.0	257.8	mg/L	3	15	
Hexacosane	868470899001	21-NOV-2008	20727	20873	50.00	50.35	mg/L	1	15	

ATL 12/19/08 : Manually integrated fuel hump.

Analyst: ATL Date: 12/19/08 Reviewer: JDG Date: 12/19/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208592 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : MO_500 IDF : 1.0
Seqnum : 868509078019 File : 353a019 Time : 19-DEC-2008 00:26
Standards: S10552

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C22-C32	868487360001	03-DEC-2008	12002	12839	500.0	534.9	mg/L	7	15	
Hexacosane	868470899001	21-NOV-2008	20727	17717	50.00	42.74	mg/L	-15	15	

ATL 12/19/08 : Manually integrated fuel hump.

Analyst: ATL Date: 12/19/08 Reviewer: JDG Date: 12/19/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208592 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : OTP_50 IDF : 1.0
Seqnum : 868509078020 File : 353a020 Time : 19-DEC-2008 00:55
Cal : 868466089003 Caldate : 19-NOV-2008
Standards: S10089

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
o-Terphenyl	29798	29618	50.00	49.70	mg/L	-1	15	

Analyst: ATL Date: 12/19/08 Reviewer: JDG Date: 12/19/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208592 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : DSL_1000 IDF : 1.0
Seqnum : 868509078035 File : 353a035 Time : 19-DEC-2008 08:00
Standards: S10775

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C22	868466089004	18-NOV-2008	26938	28807	1000	1069	mg/L	7	15	
Hexacosane	868470899001	21-NOV-2008	20727	22027	50.00	53.13	mg/L	6	15	

Analyst: ATL Date: 12/19/08 Reviewer: JDG Date: 12/23/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208592 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : MO_500 IDF : 1.0
Seqnum : 868509078036 File : 353a036 Time : 19-DEC-2008 08:29
Standards: S10552

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C22-C32	868487360001	03-DEC-2008	12002	13265	500.0	552.6	mg/L	11	15	
Hexacosane	868470899001	21-NOV-2008	20727	17976	50.00	43.36	mg/L	-13	15	

ATL 12/23/08 : Manually integrated fuel hump.

Analyst: ATL Date: 12/19/08 Reviewer: EAH Date: 12/23/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208592 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : OTP_50 IDF : 1.0
Seqnum : 868509078037 File : 353a037 Time : 19-DEC-2008 08:57
Cal : 868466089003 Caldate : 19-NOV-2008
Standards: S10089

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
o-Terphenyl	29798	28018	50.00	47.01	mg/L	-6	15	

Analyst: ATL Date: 12/19/08 Reviewer: EAH Date: 12/23/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208592 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : DSL_500 IDF : 1.0
Seqnum : 868509078043 File : 353a043 Time : 19-DEC-2008 12:06
Standards: S10774

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C22	868466089004	18-NOV-2008	26938	29319	500.0	544.2	mg/L	9	15	
Hexacosane	868470899001	21-NOV-2008	20727	21528	50.00	51.93	mg/L	4	15	

Analyst: ATL Date: 12/19/08 Reviewer: JDG Date: 12/23/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208592 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : MO_500 IDF : 1.0
Seqnum : 868509078044 File : 353a044 Time : 19-DEC-2008 12:34
Standards: S10552

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C22-C32	868487360001	03-DEC-2008	12002	12569	500.0	523.6	mg/L	5	15	
Hexacosane	868470899001	21-NOV-2008	20727	17201	50.00	41.50	mg/L	**-17**	15	c-

ATL 12/19/08 : Manually integrated fuel hump.

Analyst: ATL Date: 12/19/08 Reviewer: EAH Date: 12/23/08

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208592 GCSV Water
SW8015AZR1

Inst : GC26A Run Name : OTP_50 IDF : 1.0
Seqnum : 868509078045 File : 353a045 Time : 19-DEC-2008 13:03
Cal : 868466089003 Caldate : 19-NOV-2008
Standards: S10089

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
o-Terphenyl	29798	26289	50.00	44.11	mg/L	-12	15	

Analyst: ATL Date: 12/19/08 Reviewer: EAH Date: 12/23/08

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868466089

Instrument : GC26A Begun : 11/18/08 16:09
Method : SW8015AZR1 SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	323a001	X	PRIMER			11/18/08 16:09	1.0		
002	323a002	X	IB			11/18/08 16:38	1.0		
003	323a003	X	IB			11/18/08 17:06	1.0		
007	323a007	IB	CALIB			11/18/08 19:09	1.0		
008	323a008	ICAL	DSL_10			11/18/08 19:38	1.0	1	
009	323a009	ICAL	DSL_100			11/18/08 20:06	1.0	2	
010	323a010	ICAL	DSL_500			11/18/08 20:35	1.0	3	
011	323a011	ICAL	DSL_1000			11/18/08 21:04	1.0	4	
012	323a012	ICAL	DSL_5000			11/18/08 21:33	1.0	5	
013	323a013	ICAL	DSL_7500			11/18/08 22:01	1.0	6	
015	323a015	ICV	DSL_500			11/18/08 22:59	1.0	7	
017	323a017	IB	CALIB			11/18/08 23:56	1.0		
032	323a032	ICAL	JP5_10			11/19/08 06:03	1.0	8	
033	323a033	ICAL	JP5_100			11/19/08 06:31	1.0	9	
034	323a034	ICAL	JP5_500			11/19/08 07:00	1.0	10	
035	323a035	ICAL	JP5_1500			11/19/08 07:28	1.0	11	
036	323a036	ICAL	JP5_2500			11/19/08 07:57	1.0	12	
037	323a037	ICAL	JP5_5000			11/19/08 08:26	1.0	13	
038	323a038	IB	CALIB			11/19/08 08:54	1.0		
039	323a039	ICAL	OTP_5			11/19/08 09:23	1.0	14	
040	323a040	ICAL	OTP_10			11/19/08 09:52	1.0	15	
041	323a041	ICAL	OTP_25			11/19/08 10:20	1.0	16	
042	323a042	ICAL	OTP_50			11/19/08 10:49	1.0	17	
043	323a043	ICAL	OTP_100			11/19/08 11:18	1.0	18	
044	323a044	ICAL	OTP_200			11/19/08 11:47	1.0	19	
045	323a045	IB	CALIB			11/19/08 12:16	1.0		
046	323a046	CMARKER	C8-C50			11/19/08 12:44	1.0	20	

ATL 11/21/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 46.

Analyst: ATL Date: 11/21/08 Reviewer: CW Date: 11/24/08

Standards used: 1=S9527 2=S9528 3=S9529 4=S9530 5=S9526 6=S9531 7=S10153 8=S10506 9=S10507 10=S10508 11=S10509 12=S10510 13=S10505 14=S9739 15=S9740 16=S9741 17=S9742 18=S9745 19=S9744 20=S10268

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CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868487360

Instrument : GC26A Begun : 12/03/08 10:40
Method : SW8015AZR1 SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	338a001	X	IB			12/03/08 10:40	1.0		
002	338a002	X	IB			12/03/08 11:09	1.0		
003	338a003	X	CMARKER			12/03/08 11:37	1.0	1	
004	338a004	CCV	JP5_250			12/03/08 12:06	1.0	2	
005	338a005	CCV	OTP_50			12/03/08 12:36	1.0	3	
006	338a006	CCV	DSL_250			12/03/08 13:05	1.0	4	
007	338a007	CCV	MO_500			12/03/08 14:34	1.0	5	
009	338a009	CCV	DSL_250			12/03/08 15:32	1.0	6	
010	338a010	CCV	DSL_500			12/03/08 16:01	1.0	7	
011	338a011	CCV	DSL_1000			12/03/08 16:31	1.0	8	
012	338a012	IB	CALIB			12/03/08 17:54	1.0		
013	338a013	ICAL	MO_50			12/03/08 18:28	1.0	9	
014	338a014	X	ICAL			12/03/08 18:57	1.0	10	
015	338a015	ICAL	MO_500			12/03/08 19:26	1.0	11	
016	338a016	ICAL	MO_1000			12/03/08 19:55	1.0	12	
017	338a017	ICAL	MO_5000			12/03/08 20:23	1.0	13	
018	338a018	ICAL	MO_7500			12/03/08 20:52	1.0	14	
019	338a019	IB	CALIB			12/03/08 21:21	1.0		
020	338a020	ICAL	BUNK_50			12/03/08 21:50	1.0	15	
021	338a021	ICAL	BUNK_500			12/03/08 22:19	1.0	16	
022	338a022	ICAL	BUNK_1250			12/03/08 22:48	1.0	17	
023	338a023	ICAL	BUNK_2500			12/03/08 23:16	1.0	18	
024	338a024	ICAL	BUNK_5000			12/03/08 23:45	1.0	19	
025	338a025	IB	CALIB			12/04/08 00:14	1.0		
026	338a026	CMARKER	C8-C50			12/04/08 00:43	1.0	1	
027	338a027	IB	CALIB			12/04/08 01:12	1.0		
028	338a028	X	TANKCHECK			12/04/08 01:40	1.0		
029	338a029	IB	CALIB			12/04/08 12:34	1.0		
030	338a030	ICAL	MO_250			12/04/08 13:02	1.0	10	

ATL 12/04/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 30.

Analyst: ATL Date: 12/04/08 Reviewer: CP Date: 12/04/08

Standards used: 1=S10268 2=S10245 3=S10089 4=S10218 5=S10552 6=S10773 7=S10774 8=S10775 9=S10563 10=S10565 11=S10564 12=S10566 13=S10567 14=S10568 15=S10515 16=S10516 17=S10517 18=S10518 19=S10514

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868509078

Instrument : GC26A Begun : 12/18/08 12:38
Method : SW8015AZR1 SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
002	353a002	X	CMARKER			12/18/08 12:38	1.0	1
003	353a003	CCV	DSL_500			12/18/08 13:07	1.0	2
004	353a004	CCV	MO_500			12/18/08 13:36	1.0	3
006	353a006	CCV	OTP_50			12/18/08 17:20	1.0	4
007	353a007	CCV	JP5_250			12/18/08 17:49	1.0	5
008	353a008	BLANK	QC476094	Water	146154	12/18/08 19:15	1.0	
009	353a009	LCS	QC476095	Water	146154	12/18/08 19:43	1.0	
010	353a010	MSS	208578-008	Water	146154	12/18/08 20:11	1.0	
011	353a011	MS	QC476096	Water	146154	12/18/08 20:39	1.0	
012	353a012	MSD	QC476097	Water	146154	12/18/08 21:08	1.0	
013	353a013	LCS	QC476098	Water	146154	12/18/08 21:36	1.0	
014	353a014	SAMPLE	208578-002	Water	146154	12/18/08 22:05	1.0	
015	353a015	SAMPLE	208578-003	Water	146154	12/18/08 22:33	1.0	
016	353a016	SAMPLE	208578-004	Water	146154	12/18/08 23:02	1.0	
017	353a017	SAMPLE	208578-005	Water	146154	12/18/08 23:30	1.0	
018	353a018	CCV	DSL_250			12/18/08 23:58	1.0	6
019	353a019	CCV	MO_500			12/19/08 00:26	1.0	3
020	353a020	CCV	OTP_50			12/19/08 00:55	1.0	4
021	353a021	X	CCV			12/19/08 01:23	1.0	6
022	353a022	X	CCV			12/19/08 01:52	1.0	3
023	353a023	X	CCV			12/19/08 02:20	1.0	4
024	353a024	SAMPLE	208578-006	Water	146154	12/19/08 02:48	1.0	
025	353a025	SAMPLE	208578-007	Water	146154	12/19/08 03:17	1.0	
026	353a026	SAMPLE	208592-002	Water	146154	12/19/08 03:45	1.0	
027	353a027	SAMPLE	208592-003	Water	146154	12/19/08 04:14	1.0	
028	353a028	SAMPLE	208592-004	Water	146154	12/19/08 04:42	1.0	
029	353a029	SAMPLE	208592-005	Water	146154	12/19/08 05:11	1.0	
030	353a030	SAMPLE	208592-006	Water	146154	12/19/08 05:38	1.0	
031	353a031	SAMPLE	208592-007	Water	146154	12/19/08 06:06	1.0	
032	353a032	SAMPLE	208592-008	Water	146154	12/19/08 06:35	1.0	
033	353a033	SAMPLE	208592-009	Water	146154	12/19/08 07:03	1.0	
034	353a034	X	CMARKER			12/19/08 07:32	1.0	1
035	353a035	CCV	DSL_1000			12/19/08 08:00	1.0	7
036	353a036	CCV	MO_500			12/19/08 08:29	1.0	3
037	353a037	CCV	OTP_50			12/19/08 08:57	1.0	4
038	353a038	SAMPLE	208592-010	Water	146154	12/19/08 09:44	1.0	
039	353a039	SAMPLE	208593-001	Water	146154	12/19/08 10:13	1.0	
040	353a040	SAMPLE	208593-002	Water	146154	12/19/08 10:41	1.0	
041	353a041	SAMPLE	208593-003	Water	146154	12/19/08 11:09	1.0	
042	353a042	SAMPLE	208593-004	Water	146154	12/19/08 11:38	1.0	
043	353a043	CCV	DSL_500			12/19/08 12:06	1.0	2
044	353a044	CCV	MO_500			12/19/08 12:34	1.0	3
045	353a045	CCV	OTP_50			12/19/08 13:03	1.0	4

ATL 12/19/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 45.

Standards used: 1=S10268 2=S10774 3=S10552 4=S10089 5=S10245 6=S10773 7=S10775

SAMPLE PREPARATION SUMMARY

Batch # : 146154
Started By : DJT
Method : 3520C
Spike #1 ID : S10879

Prep Date : 17-DEC-2008 17:30
SOP Version : TEH_3520_rv12
Spike #2 ID : S10905

Analysis : 8015AZ
Finished By : TFB
Units : mL
Spike #3 ID : S10955

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
208578-002		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208578-003		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208578-004		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208578-005		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208578-006		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208578-007		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208578-008		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	mss
208592-002		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208592-003		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208592-004		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208592-005		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208592-006		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208592-007		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208592-008		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208592-009		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208592-010		Water	500	2.5	1	0.005	7	.5		.5		8015AZ	
208593-001		Water	500	2.5	1	0.005	7	.5				TEH	
208593-002		Water	500	2.5	1	0.005	7	.5				TEH	
208593-003		Water	500	2.5	1	0.005	7	.5				TEH	
208593-004		Water	500	2.5	1	0.005	7	.5				TEH	
QC476094	BLANK	Water	500	2.5	1	0.005		.5		.5		8015AZ	
QC476095	LCS	Water	500	2.5	1	0.005		.5	.5	.5		8015AZ	
QC476096	MS	Water	500	2.5	1	0.005	7	.5	.5	.5		8015AZ	
QC476097	MSD	Water	500	2.5	1	0.005	7	.5	.5	.5		8015AZ	
QC476098	LCS	Water	500	2.5	1	0.005		.5		.5		8015AZ	+.5 mL S10787C

Analyst: JDG Date: 12/19/08 Reviewer: DNT Date: 12/19/08

TEH (8015) Water Prep Log

Curtis & Tompkins, Ltd.

Page 11 BK 2820

LIMS Batch No: 146154
LIMS Analysis: TEH/8015AZ
Date Extracted: 12/17/08

Extraction Method:
☐ mod. EPA 3510c sep. funnel
☒ mod. EPA 3520c cont. L/L

Cleanup Method (if needed):
☐ EPA 3630c Silica Gel

Sample #	Container ID	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
★ 208578-002	D	500	7	2.5		
003	↓					
004	C					
005	E					
006	↓					
007	B					
008	M					MSS
208592-002	E					
003						
004	↓					
005	D					
006	↓					
007	E					
008	↓					
009	D					
010	E					
208593-001	D					
002						
003						
004	↓		↓			
★ MB QC 476094	NA		NA			
LCS 5	↓		↓			
MS 6	J		7			
MSD 7	K		↓			
Δ LCS 8	NA		NA			

	Mfg & Lot# / LIMS # / Time	Date/ Initials
★0.5/0.5 mL of TEH_SURR was added to all samples	S10879B/S10955A★	~~DC~~ 12/17/08
Δ0.5/0.5 mL of TEH_SP was added to all spikes	S10905B/S10787CΔ	
pH of all samples adjusted to pH ≤ 2 with H_2SO_4	FS075640	
☒ 3520c: Samples were continually extracted about 450 mL of CH_2Cl_2	EM48289	
Extraction Start Time:	1730	
Extraction End Time:	1135	DDC 12/18/08
☐ 3510c: Samples were extracted 3 times with 60 mL of CH_2Cl_2	NA	TFB 12/18/08
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EM48315847	
Concentrated to final volume at temperature (degrees C)	100°	
Relinquished to TEH Department	✓	

12/17/08
Extraction Chemist **Date**

Contined from Page ____
Continued on Page ____

12/19/08
Reviewed by **Date**

Laboratory Job Number 208592

ANALYTICAL REPORT

Volatile Organics by GC/MS

Matrix: Water

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	TB121108	Batch#:	146297
Lab ID:	208592-001	Sampled:	12/11/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/20/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	V9
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	V9
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	V9
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	TB121108	Batch#:	146297
Lab ID:	208592-001	Sampled:	12/11/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/20/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1 V1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	100	77-120	
1,2-Dichloroethane-d4	105	70-127	
Toluene-d8	103	83-125	
Bromofluorobenzene	103	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-99A-8D1	Batch#:	146297
Lab ID:	208592-002	Sampled:	12/11/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/20/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	V9
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	V9
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	V9
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-99A-8D1	Batch#:	146297
Lab ID:	208592-002	Sampled:	12/11/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/20/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1 V1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	102	77-120	
1,2-Dichloroethane-d4	100	70-127	
Toluene-d8	99	83-125	
Bromofluorobenzene	94	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-112A-8D1	Batch#:	146297
Lab ID:	208592-003	Sampled:	12/11/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/20/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	V9
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	V9
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	V9
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-112A-8D1	Batch#:	146297
Lab ID:	208592-003	Sampled:	12/11/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/20/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1 V1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	102	77-120	
1,2-Dichloroethane-d4	100	70-127	
Toluene-d8	99	83-125	
Bromofluorobenzene	97	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-105-8D1	Batch#:	146297
Lab ID:	208592-004	Sampled:	12/11/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/20/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	V9
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	V9
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	V9
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-105-8D1	Batch#:	146297
Lab ID:	208592-004	Sampled:	12/11/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/20/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1 V1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	104	77-120	
1,2-Dichloroethane-d4	104	70-127	
Toluene-d8	98	83-125	
Bromofluorobenzene	99	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-126A-8D1	Batch#:	146297
Lab ID:	208592-005	Sampled:	12/11/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/20/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	V9
Vinyl Chloride	1.9	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	V9
1,1-Dichloroethene	1.9	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	48	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	16	0.5	
2-Butanone	ND	10	V9
cis-1,2-Dichloroethene	1.5	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	1.3	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-126A-8D1	Batch#:	146297
Lab ID:	208592-005	Sampled:	12/11/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/20/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	0.9	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	2.8	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1 V1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	104	77-120	
1,2-Dichloroethane-d4	104	70-127	
Toluene-d8	107	83-125	
Bromofluorobenzene	100	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	PL-507-8D1	Batch#:	146297
Lab ID:	208592-006	Sampled:	12/11/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/21/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	V9
Vinyl Chloride	2.0	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	V9
1,1-Dichloroethene	2.0	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	46	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	15	0.5	
2-Butanone	ND	10	V9
cis-1,2-Dichloroethene	1.4	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	1.4	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	PL-507-8D1	Batch#:	146297
Lab ID:	208592-006	Sampled:	12/11/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/21/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	1.1	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	2.8	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1 V1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	102	77-120	
1,2-Dichloroethane-d4	105	70-127	
Toluene-d8	105	83-125	
Bromofluorobenzene	99	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	BC-18-8D1	Batch#:	146297
Lab ID:	208592-007	Sampled:	12/11/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/21/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	V9
Vinyl Chloride	1.2	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	V9
1,1-Dichloroethene	0.6	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	18	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	15	0.5	
2-Butanone	ND	10	V9
cis-1,2-Dichloroethene	0.9	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	0.7	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	BC-18-8D1	Batch#:	146297
Lab ID:	208592-007	Sampled:	12/11/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/21/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	0.7	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1 V1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	104	77-120	
1,2-Dichloroethane-d4	100	70-127	
Toluene-d8	98	83-125	
Bromofluorobenzene	94	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-97A-8D1	Batch#:	146297
Lab ID:	208592-008	Sampled:	12/11/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/21/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	V9
Vinyl Chloride	2.7	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	V9
1,1-Dichloroethene	4.0	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	31	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	22	0.5	
2-Butanone	ND	10	V9
cis-1,2-Dichloroethene	1.7	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	1.7	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-97A-8D1	Batch#:	146297
Lab ID:	208592-008	Sampled:	12/11/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/21/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	1.9	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	0.7	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	0.7	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1 V1
Naphthalene	9.7	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	103	77-120	
1,2-Dichloroethane-d4	103	70-127	
Toluene-d8	101	83-125	
Bromofluorobenzene	97	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	PL-508-8D1	Diln Fac:	1.000
Lab ID:	208592-009	Sampled:	12/11/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L		

Analyte	Result	RL	Batch#	Analyzed	ADEQ Flags
Freon 12	ND	1.0	146297	12/21/08	V9
Chloromethane	ND	1.0	146297	12/21/08	V9
Vinyl Chloride	ND	0.5	146297	12/21/08	
Bromomethane	ND	1.0	146297	12/21/08	
Chloroethane	ND	1.0	146297	12/21/08	
Trichlorofluoromethane	ND	1.0	146297	12/21/08	
Iodomethane	ND	10	146297	12/21/08	
Acetone	ND	10	146323	12/22/08	
1,1-Dichloroethene	ND	0.5	146297	12/21/08	
Methylene Chloride	ND	10	146297	12/21/08	
Carbon Disulfide	ND	0.5	146297	12/21/08	
MTBE	ND	0.5	146297	12/21/08	
trans-1,2-Dichloroethene	ND	0.5	146297	12/21/08	
Vinyl Acetate	ND	10	146297	12/21/08	
1,1-Dichloroethane	ND	0.5	146297	12/21/08	
2-Butanone	ND	10	146323	12/22/08	
cis-1,2-Dichloroethene	ND	0.5	146297	12/21/08	
2,2-Dichloropropane	ND	0.5	146297	12/21/08	
Chloroform	ND	0.5	146297	12/21/08	
Bromochloromethane	ND	0.5	146297	12/21/08	
1,1,1-Trichloroethane	ND	0.5	146297	12/21/08	
1,1-Dichloropropene	ND	0.5	146297	12/21/08	
Carbon Tetrachloride	ND	0.5	146297	12/21/08	
1,2-Dichloroethane	ND	0.5	146297	12/21/08	
Benzene	ND	0.5	146297	12/21/08	
Trichloroethene	ND	0.5	146297	12/21/08	
1,2-Dichloropropane	ND	0.5	146297	12/21/08	
Bromodichloromethane	ND	0.5	146297	12/21/08	
Dibromomethane	ND	0.5	146297	12/21/08	
4-Methyl-2-Pentanone	ND	10	146297	12/21/08	
cis-1,3-Dichloropropene	ND	0.5	146297	12/21/08	
Toluene	ND	0.5	146297	12/21/08	
trans-1,3-Dichloropropene	ND	0.5	146297	12/21/08	
1,1,2-Trichloroethane	ND	0.5	146297	12/21/08	
2-Hexanone	ND	10	146297	12/21/08	
1,3-Dichloropropane	ND	0.5	146297	12/21/08	
Tetrachloroethene	ND	0.5	146297	12/21/08	
Dibromochloromethane	ND	0.5	146297	12/21/08	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	PL-508-8D1	Diln Fac:	1.000
Lab ID:	208592-009	Sampled:	12/11/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L		

Analyte	Result	RL	Batch#	Analyzed	ADEQ Flags
1,2-Dibromoethane	ND	0.5	146297	12/21/08	
Chlorobenzene	ND	0.5	146297	12/21/08	
1,1,1,2-Tetrachloroethane	ND	0.5	146297	12/21/08	
Ethylbenzene	ND	0.5	146297	12/21/08	
m,p-Xylenes	ND	0.5	146297	12/21/08	
o-Xylene	ND	0.5	146297	12/21/08	
Styrene	ND	0.5	146297	12/21/08	
Bromoform	ND	1.0	146297	12/21/08	
Isopropylbenzene	ND	0.5	146297	12/21/08	
1,1,2,2-Tetrachloroethane	ND	0.5	146297	12/21/08	
1,2,3-Trichloropropane	ND	0.5	146297	12/21/08	
Propylbenzene	ND	0.5	146297	12/21/08	
Bromobenzene	ND	0.5	146297	12/21/08	
1,3,5-Trimethylbenzene	ND	0.5	146297	12/21/08	
2-Chlorotoluene	ND	0.5	146297	12/21/08	
4-Chlorotoluene	ND	0.5	146297	12/21/08	
tert-Butylbenzene	ND	0.5	146297	12/21/08	
1,2,4-Trimethylbenzene	ND	0.5	146297	12/21/08	
sec-Butylbenzene	ND	0.5	146297	12/21/08	
para-Isopropyl Toluene	ND	0.5	146297	12/21/08	
1,3-Dichlorobenzene	ND	0.5	146297	12/21/08	
1,4-Dichlorobenzene	ND	0.5	146297	12/21/08	
n-Butylbenzene	ND	0.5	146297	12/21/08	
1,2-Dichlorobenzene	ND	0.5	146297	12/21/08	
1,2-Dibromo-3-Chloropropane	ND	2.0	146297	12/21/08	
1,2,4-Trichlorobenzene	ND	0.5	146297	12/21/08	
Hexachlorobutadiene	ND	2.0	146297	12/21/08	L1 V1
Naphthalene	ND	2.0	146297	12/21/08	
1,2,3-Trichlorobenzene	ND	0.5	146297	12/21/08	
Xylene (total)	ND	0.5	146297	12/21/08	

Surrogate	%REC	Limits	Batch#	Analyzed	ADEQ Flags
Dibromofluoromethane	100	77-120	146297	12/21/08	
1,2-Dichloroethane-d4	103	70-127	146297	12/21/08	
Toluene-d8	108	83-125	146297	12/21/08	
Bromofluorobenzene	102	78-120	146297	12/21/08	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	BC-8B-8D1	Sampled:	12/11/08
Lab ID:	208592-010	Received:	12/12/08
Matrix:	Water	Analyzed:	12/21/08
Units:	ug/L		

Analyte	Result	RL	Diln Fac	Batch#	ADEQ Flags
Freon 12	ND	1.0	1.000	146297	V9
Chloromethane	ND	1.0	1.000	146297	V9
Vinyl Chloride	1.3	0.5	1.000	146297	
Bromomethane	ND	1.0	1.000	146297	
Chloroethane	1.2	1.0	1.000	146297	
Trichlorofluoromethane	ND	1.0	1.000	146297	
Iodomethane	ND	10	1.000	146297	
Acetone	ND	10	1.000	146297	V9
1,1-Dichloroethene	1.1	0.5	1.000	146297	
Methylene Chloride	ND	10	1.000	146297	
Carbon Disulfide	ND	0.5	1.000	146297	
MTBE	110	1.0	2.000	146311	D2
trans-1,2-Dichloroethene	ND	0.5	1.000	146297	
Vinyl Acetate	ND	10	1.000	146297	
1,1-Dichloroethane	7.9	0.5	1.000	146297	
2-Butanone	ND	10	1.000	146297	V9
cis-1,2-Dichloroethene	1.1	0.5	1.000	146297	
2,2-Dichloropropane	ND	0.5	1.000	146297	
Chloroform	ND	0.5	1.000	146297	
Bromochloromethane	ND	0.5	1.000	146297	
1,1,1-Trichloroethane	ND	0.5	1.000	146297	
1,1-Dichloropropene	ND	0.5	1.000	146297	
Carbon Tetrachloride	ND	0.5	1.000	146297	
1,2-Dichloroethane	ND	0.5	1.000	146297	
Benzene	2.2	0.5	1.000	146297	
Trichloroethene	4.9	0.5	1.000	146297	
1,2-Dichloropropane	ND	0.5	1.000	146297	
Bromodichloromethane	ND	0.5	1.000	146297	
Dibromomethane	ND	0.5	1.000	146297	
4-Methyl-2-Pentanone	ND	10	1.000	146297	
cis-1,3-Dichloropropene	ND	0.5	1.000	146297	
Toluene	ND	0.5	1.000	146297	
trans-1,3-Dichloropropene	ND	0.5	1.000	146297	
1,1,2-Trichloroethane	ND	0.5	1.000	146297	
2-Hexanone	ND	10	1.000	146297	
1,3-Dichloropropane	ND	0.5	1.000	146297	
Tetrachloroethene	ND	0.5	1.000	146297	
Dibromochloromethane	ND	0.5	1.000	146297	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	BC-8B-8D1	Sampled:	12/11/08
Lab ID:	208592-010	Received:	12/12/08
Matrix:	Water	Analyzed:	12/21/08
Units:	ug/L		

Analyte	Result	RL	Diln Fac	Batch#	ADEQ Flags
1,2-Dibromoethane	ND	0.5	1.000	146297	
Chlorobenzene	ND	0.5	1.000	146297	
1,1,1,2-Tetrachloroethane	ND	0.5	1.000	146297	
Ethylbenzene	ND	0.5	1.000	146297	
m,p-Xylenes	ND	0.5	1.000	146297	
o-Xylene	ND	0.5	1.000	146297	
Styrene	ND	0.5	1.000	146297	
Bromoform	ND	1.0	1.000	146297	
Isopropylbenzene	0.7	0.5	1.000	146297	
1,1,2,2-Tetrachloroethane	ND	0.5	1.000	146297	
1,2,3-Trichloropropane	ND	0.5	1.000	146297	
Propylbenzene	ND	0.5	1.000	146297	
Bromobenzene	ND	0.5	1.000	146297	
1,3,5-Trimethylbenzene	ND	0.5	1.000	146297	
2-Chlorotoluene	ND	0.5	1.000	146297	
4-Chlorotoluene	ND	0.5	1.000	146297	
tert-Butylbenzene	ND	0.5	1.000	146297	
1,2,4-Trimethylbenzene	ND	0.5	1.000	146297	
sec-Butylbenzene	ND	0.5	1.000	146297	
para-Isopropyl Toluene	ND	0.5	1.000	146297	
1,3-Dichlorobenzene	ND	0.5	1.000	146297	
1,4-Dichlorobenzene	ND	0.5	1.000	146297	
n-Butylbenzene	ND	0.5	1.000	146297	
1,2-Dichlorobenzene	ND	0.5	1.000	146297	
1,2-Dibromo-3-Chloropropane	ND	2.0	1.000	146297	
1,2,4-Trichlorobenzene	ND	0.5	1.000	146297	
Hexachlorobutadiene	ND	2.0	1.000	146297	L1 V1
Naphthalene	ND	2.0	1.000	146297	
1,2,3-Trichlorobenzene	ND	0.5	1.000	146297	
Xylene (total)	ND	0.5	1.000	146297	

Surrogate	%REC	Limits	Diln Fac	Batch#	ADEQ Flags
Dibromofluoromethane	101	77-120	1.000	146297	
1,2-Dichloroethane-d4	96	70-127	1.000	146297	
Toluene-d8	96	83-125	1.000	146297	
Bromofluorobenzene	104	78-120	1.000	146297	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	146297
Units:	ug/L	Analyzed:	12/20/08
Diln Fac:	1.000		

Type: BS Lab ID: QC476703

Analyte	Spiked	Result		%REC	Limits	ADEQ Flags
Freon 12	20.00	12.05	b	60	56-140	V9
Chloromethane	20.00	15.29	b	76	46-142	V9
Vinyl Chloride	20.00	18.30		92	49-136	
Bromomethane	20.00	24.01		120	42-154	
Chloroethane	20.00	19.42		97	51-133	
Trichlorofluoromethane	20.00	21.49		107	63-135	
Iodomethane	20.00	22.77	b	114	70-130	
Acetone	20.00	14.11	b	71	48-130	V9
1,1-Dichloroethene	20.00	20.77		104	68-133	
Methylene Chloride	20.00	19.38		97	71-120	
Carbon Disulfide	20.00	20.31		102	56-120	
MTBE	20.00	16.70		84	58-120	
trans-1,2-Dichloroethene	20.00	20.81		104	80-120	
Vinyl Acetate	20.00	16.05	b	80	63-124	
1,1-Dichloroethane	20.00	18.80		94	77-120	
2-Butanone	20.00	15.72	b	79	57-120	V9
cis-1,2-Dichloroethene	20.00	19.95		100	75-120	
2,2-Dichloropropane	20.00	22.76		114	72-128	
Chloroform	20.00	18.89		94	78-120	
Bromochloromethane	20.00	19.07		95	78-120	
1,1,1-Trichloroethane	20.00	20.87		104	78-120	
1,1-Dichloropropene	20.00	20.22		101	75-120	
Carbon Tetrachloride	20.00	21.61		108	80-120	
1,2-Dichloroethane	20.00	19.47		97	74-120	
Benzene	20.00	18.70		94	77-120	
Trichloroethene	20.00	19.25		96	78-122	
1,2-Dichloropropane	20.00	18.44		92	76-120	
Bromodichloromethane	20.00	19.22		96	78-120	
Dibromomethane	20.00	19.87		99	77-120	
4-Methyl-2-Pentanone	20.00	16.88		84	65-120	
cis-1,3-Dichloropropene	20.00	19.02		95	76-120	
Toluene	20.00	19.95		100	73-120	
trans-1,3-Dichloropropene	20.00	17.15		86	72-120	
1,1,2-Trichloroethane	20.00	19.43		97	76-120	
2-Hexanone	20.00	16.20		81	57-121	
1,3-Dichloropropane	20.00	19.34		97	75-120	
Tetrachloroethene	20.00	19.93		100	77-120	
Dibromochloromethane	20.00	18.23		91	76-120	
1,2-Dibromoethane	20.00	19.74		99	77-120	
Chlorobenzene	20.00	18.94		95	78-120	
1,1,1,2-Tetrachloroethane	20.00	18.66		93	77-120	
Ethylbenzene	20.00	18.60		93	78-120	
m,p-Xylenes	40.00	38.67		97	77-120	
o-Xylene	20.00	19.14		96	77-120	
Styrene	20.00	19.12		96	77-120	
Bromoform	20.00	18.79		94	74-121	
Isopropylbenzene	20.00	18.90		94	71-120	
1,1,2,2-Tetrachloroethane	20.00	19.91		100	73-120	
1,2,3-Trichloropropane	20.00	19.03		95	72-120	
Propylbenzene	20.00	21.92		110	76-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	146297
Units:	ug/L	Analyzed:	12/20/08
Diln Fac:	1.000		

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Bromobenzene	20.00	20.32	102	75-120	
1,3,5-Trimethylbenzene	20.00	21.14	106	77-120	
2-Chlorotoluene	20.00	20.13	101	76-120	
4-Chlorotoluene	20.00	19.24	96	78-120	
tert-Butylbenzene	20.00	20.06	100	76-120	
1,2,4-Trimethylbenzene	20.00	21.03	105	77-120	
sec-Butylbenzene	20.00	23.23	116	80-120	
para-Isopropyl Toluene	20.00	21.23	106	76-120	
1,3-Dichlorobenzene	20.00	18.38	92	75-120	
1,4-Dichlorobenzene	20.00	18.20	91	77-120	
n-Butylbenzene	20.00	22.57	113	76-120	
1,2-Dichlorobenzene	20.00	19.24	96	76-120	
1,2-Dibromo-3-Chloropropane	20.00	17.85	89	65-120	
1,2,4-Trichlorobenzene	20.00	19.32	97	73-121	
Hexachlorobutadiene	20.00	24.99 b	125 *	73-123	L1 V3
Naphthalene	20.00	18.59	93	62-121	
1,2,3-Trichlorobenzene	20.00	19.14	96	66-123	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	96	77-120	
1,2-Dichloroethane-d4	98	70-127	
Toluene-d8	98	83-125	
Bromofluorobenzene	99	78-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	146297
Units:	ug/L	Analyzed:	12/20/08
Diln Fac:	1.000		

Type: BSD Lab ID: QC476704

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
Freon 12	20.00	11.65 b	58	56-140	3	24	V9
Chloromethane	20.00	15.94 b	80	46-142	4	24	V9
Vinyl Chloride	20.00	19.15	96	49-136	5	24	
Bromomethane	20.00	22.73	114	42-154	5	24	
Chloroethane	20.00	18.89	94	51-133	3	25	
Trichlorofluoromethane	20.00	21.23	106	63-135	1	20	
Iodomethane	20.00	18.70 b	94	70-130	20	20	
Acetone	20.00	14.81 b	74	48-130	5	41	V9
1,1-Dichloroethene	20.00	20.65	103	68-133	1	20	
Methylene Chloride	20.00	20.62	103	71-120	6	20	
Carbon Disulfide	20.00	18.83	94	56-120	8	20	
MTBE	20.00	17.19	86	58-120	3	21	
trans-1,2-Dichloroethene	20.00	20.25	101	80-120	3	24	
Vinyl Acetate	20.00	17.44 b	87	63-124	8	24	
1,1-Dichloroethane	20.00	20.25	101	77-120	7	20	
2-Butanone	20.00	17.69 b	88	57-120	12	32	V9
cis-1,2-Dichloroethene	20.00	20.45	102	75-120	3	20	
2,2-Dichloropropane	20.00	22.43	112	72-128	1	24	
Chloroform	20.00	19.37	97	78-120	3	20	
Bromochloromethane	20.00	19.39	97	78-120	2	20	
1,1,1-Trichloroethane	20.00	20.87	104	78-120	0	20	
1,1-Dichloropropene	20.00	19.44	97	75-120	4	21	
Carbon Tetrachloride	20.00	19.87	99	80-120	8	21	
1,2-Dichloroethane	20.00	18.56	93	74-120	5	20	
Benzene	20.00	19.26	96	77-120	3	20	
Trichloroethene	20.00	19.11	96	78-122	1	20	
1,2-Dichloropropane	20.00	18.11	91	76-120	2	20	
Bromodichloromethane	20.00	19.33	97	78-120	1	20	
Dibromomethane	20.00	19.82	99	77-120	0	20	
4-Methyl-2-Pentanone	20.00	16.95	85	65-120	0	22	
cis-1,3-Dichloropropene	20.00	18.99	95	76-120	0	20	
Toluene	20.00	18.26	91	73-120	9	20	
trans-1,3-Dichloropropene	20.00	17.23	86	72-120	0	20	
1,1,2-Trichloroethane	20.00	19.05	95	76-120	2	20	
2-Hexanone	20.00	16.43	82	57-121	1	25	
1,3-Dichloropropane	20.00	19.15	96	75-120	1	20	
Tetrachloroethene	20.00	18.09	90	77-120	10	20	
Dibromochloromethane	20.00	18.05	90	76-120	1	20	
1,2-Dibromoethane	20.00	18.65	93	77-120	6	20	
Chlorobenzene	20.00	16.95	85	78-120	11	20	
1,1,1,2-Tetrachloroethane	20.00	19.04	95	77-120	2	20	
Ethylbenzene	20.00	18.87	94	78-120	1	26	
m,p-Xylenes	40.00	37.97	95	77-120	2	20	
o-Xylene	20.00	17.94	90	77-120	6	20	
Styrene	20.00	18.14	91	77-120	5	20	
Bromoform	20.00	18.76	94	74-121	0	21	
Isopropylbenzene	20.00	17.62	88	71-120	7	20	
1,1,2,2-Tetrachloroethane	20.00	19.79	99	73-120	1	20	
1,2,3-Trichloropropane	20.00	19.53	98	72-120	3	20	
Propylbenzene	20.00	20.74	104	76-120	6	20	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	146297
Units:	ug/L	Analyzed:	12/20/08
Diln Fac:	1.000		

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
Bromobenzene	20.00	19.89	99	75-120	2	20	
1,3,5-Trimethylbenzene	20.00	19.22	96	77-120	10	20	
2-Chlorotoluene	20.00	19.13	96	76-120	5	20	
4-Chlorotoluene	20.00	18.76	94	78-120	3	20	
tert-Butylbenzene	20.00	19.33	97	76-120	4	21	
1,2,4-Trimethylbenzene	20.00	20.27	101	77-120	4	20	
sec-Butylbenzene	20.00	20.22	101	80-120	14	21	
para-Isopropyl Toluene	20.00	20.07	100	76-120	6	20	
1,3-Dichlorobenzene	20.00	18.04	90	75-120	2	20	
1,4-Dichlorobenzene	20.00	18.52	93	77-120	2	23	
n-Butylbenzene	20.00	21.25	106	76-120	6	21	
1,2-Dichlorobenzene	20.00	19.02	95	76-120	1	20	
1,2-Dibromo-3-Chloropropane	20.00	17.85	89	65-120	0	22	
1,2,4-Trichlorobenzene	20.00	17.49	87	73-121	10	20	
Hexachlorobutadiene	20.00	20.15 b	101	73-123	21	25	V3
Naphthalene	20.00	17.60	88	62-121	5	32	
1,2,3-Trichlorobenzene	20.00	17.80	89	66-123	7	29	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	103	77-120	
1,2-Dichloroethane-d4	100	70-127	
Toluene-d8	98	83-125	
Bromofluorobenzene	102	78-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC476705	Batch#:	146297
Matrix:	Water	Analyzed:	12/20/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	V9
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	V9
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	V9
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC476705	Batch#:	146297
Matrix:	Water	Analyzed:	12/20/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1 V1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	100	77-120	
1,2-Dichloroethane-d4	101	70-127	
Toluene-d8	103	83-125	
Bromofluorobenzene	104	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC476749	Batch#:	146311
Matrix:	Water	Analyzed:	12/21/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	V1
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	L1 V1
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	V1
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC476749	Batch#:	146311
Matrix:	Water	Analyzed:	12/21/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	102	77-120	
1,2-Dichloroethane-d4	102	70-127	
Toluene-d8	104	83-125	
Bromofluorobenzene	96	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	146311
Units:	ug/L	Analyzed:	12/21/08
Diln Fac:	1.000		

Type: BS Lab ID: QC476750

Analyte	Spiked	Result		%REC		Limits	ADEQ Flags
Freon 12	25.00	18.09	b	72		56-140	V9
Chloromethane	25.00	22.07		88		46-142	
Vinyl Chloride	25.00	28.66		115		49-136	
Bromomethane	25.00	31.71	b	127		42-154	V3
Chloroethane	25.00	26.28		105		51-133	
Trichlorofluoromethane	25.00	29.54		118		63-135	
Iodomethane	25.00	35.97	b	144	*	70-130	L1 V3
Acetone	25.00	20.86		83		48-130	
1,1-Dichloroethene	25.00	29.41		118		68-133	
Methylene Chloride	25.00	26.47		106		71-120	
Carbon Disulfide	25.00	27.34		109		56-120	
MTBE	25.00	21.98		88		58-120	
trans-1,2-Dichloroethene	25.00	27.96		112		80-120	
Vinyl Acetate	25.00	19.88	b	80		63-124	
1,1-Dichloroethane	25.00	26.05		104		77-120	
2-Butanone	25.00	22.65		91		57-120	
cis-1,2-Dichloroethene	25.00	26.40		106		75-120	
2,2-Dichloropropane	25.00	31.56	b	126		72-128	V3
Chloroform	25.00	25.23		101		78-120	
Bromochloromethane	25.00	24.40		98		78-120	
1,1,1-Trichloroethane	25.00	29.07		116		78-120	
1,1-Dichloropropene	25.00	27.77		111		75-120	
Carbon Tetrachloride	25.00	27.98		112		80-120	
1,2-Dichloroethane	25.00	24.87		99		74-120	
Benzene	25.00	25.93		104		77-120	
Trichloroethene	25.00	25.87		103		78-122	
1,2-Dichloropropane	25.00	24.73		99		76-120	
Bromodichloromethane	25.00	25.45		102		78-120	
Dibromomethane	25.00	26.24		105		77-120	
4-Methyl-2-Pentanone	25.00	21.99		88		65-120	
cis-1,3-Dichloropropene	25.00	25.14		101		76-120	
Toluene	25.00	24.90		100		73-120	
trans-1,3-Dichloropropene	25.00	21.87		87		72-120	
1,1,2-Trichloroethane	25.00	25.94		104		76-120	
2-Hexanone	25.00	21.46		86		57-121	
1,3-Dichloropropane	25.00	23.83		95		75-120	
Tetrachloroethene	25.00	26.68		107		77-120	
Dibromochloromethane	25.00	23.72		95		76-120	
1,2-Dibromoethane	25.00	25.17		101		77-120	
Chlorobenzene	25.00	23.06		92		78-120	
1,1,1,2-Tetrachloroethane	25.00	23.99		96		77-120	
Ethylbenzene	25.00	25.14		101		78-120	
m,p-Xylenes	50.00	51.92		104		77-120	
o-Xylene	25.00	24.22		97		77-120	
Styrene	25.00	24.89		100		77-120	
Bromoform	25.00	25.15		101		74-121	
Isopropylbenzene	25.00	24.41		98		71-120	
1,1,2,2-Tetrachloroethane	25.00	25.42		102		73-120	
1,2,3-Trichloropropane	25.00	24.64		99		72-120	
Propylbenzene	25.00	27.15		109		76-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	146311
Units:	ug/L	Analyzed:	12/21/08
Diln Fac:	1.000		

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Bromobenzene	25.00	24.98	100	75-120	
1,3,5-Trimethylbenzene	25.00	26.56	106	77-120	
2-Chlorotoluene	25.00	25.70	103	76-120	
4-Chlorotoluene	25.00	25.16	101	78-120	
tert-Butylbenzene	25.00	27.29	109	76-120	
1,2,4-Trimethylbenzene	25.00	27.21	109	77-120	
sec-Butylbenzene	25.00	29.87	119	80-120	
para-Isopropyl Toluene	25.00	26.83	107	76-120	
1,3-Dichlorobenzene	25.00	24.02	96	75-120	
1,4-Dichlorobenzene	25.00	25.17	101	77-120	
n-Butylbenzene	25.00	29.22	117	76-120	
1,2-Dichlorobenzene	25.00	25.50	102	76-120	
1,2-Dibromo-3-Chloropropane	25.00	23.74	95	65-120	
1,2,4-Trichlorobenzene	25.00	24.92	100	73-121	
Hexachlorobutadiene	25.00	29.42	118	73-123	
Naphthalene	25.00	24.50	98	62-121	
1,2,3-Trichlorobenzene	25.00	24.60	98	66-123	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	102	77-120	
1,2-Dichloroethane-d4	102	70-127	
Toluene-d8	102	83-125	
Bromofluorobenzene	99	78-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	146311
Units:	ug/L	Analyzed:	12/21/08
Diln Fac:	1.000		

Type: BSD Lab ID: QC476751

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
Freon 12	25.00	16.42 b	66	56-140	10	24	V9
Chloromethane	25.00	19.69	79	46-142	11	24	
Vinyl Chloride	25.00	25.21	101	49-136	13	24	
Bromomethane	25.00	28.79 b	115	42-154	10	24	V3
Chloroethane	25.00	26.30	105	51-133	0	25	
Trichlorofluoromethane	25.00	28.19	113	63-135	5	20	
Iodomethane	25.00	33.97 b	136 *	70-130	6	20	L1 V3
Acetone	25.00	21.58	86	48-130	3	41	
1,1-Dichloroethene	25.00	27.01	108	68-133	9	20	
Methylene Chloride	25.00	25.76	103	71-120	3	20	
Carbon Disulfide	25.00	23.90	96	56-120	13	20	
MTBE	25.00	21.23	85	58-120	4	21	
trans-1,2-Dichloroethene	25.00	25.26	101	80-120	10	24	
Vinyl Acetate	25.00	20.49 b	82	63-124	3	24	
1,1-Dichloroethane	25.00	24.72	99	77-120	5	20	
2-Butanone	25.00	22.59	90	57-120	0	32	
cis-1,2-Dichloroethene	25.00	25.65	103	75-120	3	20	
2,2-Dichloropropane	25.00	28.13 b	113	72-128	12	24	V3
Chloroform	25.00	24.03	96	78-120	5	20	
Bromochloromethane	25.00	24.49	98	78-120	0	20	
1,1,1-Trichloroethane	25.00	26.44	106	78-120	9	20	
1,1-Dichloropropene	25.00	27.55	110	75-120	1	21	
Carbon Tetrachloride	25.00	28.65	115	80-120	2	21	
1,2-Dichloroethane	25.00	24.90	100	74-120	0	20	
Benzene	25.00	25.35	101	77-120	2	20	
Trichloroethene	25.00	25.12	100	78-122	3	20	
1,2-Dichloropropane	25.00	25.11	100	76-120	2	20	
Bromodichloromethane	25.00	26.07	104	78-120	2	20	
Dibromomethane	25.00	26.46	106	77-120	1	20	
4-Methyl-2-Pentanone	25.00	21.95	88	65-120	0	22	
cis-1,3-Dichloropropene	25.00	25.17	101	76-120	0	20	
Toluene	25.00	25.96	104	73-120	4	20	
trans-1,3-Dichloropropene	25.00	22.86	91	72-120	4	20	
1,1,2-Trichloroethane	25.00	26.66	107	76-120	3	20	
2-Hexanone	25.00	21.81	87	57-121	2	25	
1,3-Dichloropropane	25.00	24.12	96	75-120	1	20	
Tetrachloroethene	25.00	24.75	99	77-120	8	20	
Dibromochloromethane	25.00	24.04	96	76-120	1	20	
1,2-Dibromoethane	25.00	25.68	103	77-120	2	20	
Chlorobenzene	25.00	23.65	95	78-120	3	20	
1,1,1,2-Tetrachloroethane	25.00	23.07	92	77-120	4	20	
Ethylbenzene	25.00	24.94	100	78-120	1	26	
m,p-Xylenes	50.00	50.27	101	77-120	3	20	
o-Xylene	25.00	24.31	97	77-120	0	20	
Styrene	25.00	23.71	95	77-120	5	20	
Bromoform	25.00	24.47	98	74-121	3	21	
Isopropylbenzene	25.00	23.61	94	71-120	3	20	
1,1,2,2-Tetrachloroethane	25.00	25.38	102	73-120	0	20	
1,2,3-Trichloropropane	25.00	25.68	103	72-120	4	20	
Propylbenzene	25.00	26.18	105	76-120	4	20	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	146311
Units:	ug/L	Analyzed:	12/21/08
Diln Fac:	1.000		

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
Bromobenzene	25.00	25.04	100	75-120	0	20	
1,3,5-Trimethylbenzene	25.00	26.54	106	77-120	0	20	
2-Chlorotoluene	25.00	25.18	101	76-120	2	20	
4-Chlorotoluene	25.00	23.21	93	78-120	8	20	
tert-Butylbenzene	25.00	25.23	101	76-120	8	21	
1,2,4-Trimethylbenzene	25.00	27.01	108	77-120	1	20	
sec-Butylbenzene	25.00	27.55	110	80-120	8	21	
para-Isopropyl Toluene	25.00	25.52	102	76-120	5	20	
1,3-Dichlorobenzene	25.00	22.74	91	75-120	5	20	
1,4-Dichlorobenzene	25.00	23.75	95	77-120	6	23	
n-Butylbenzene	25.00	25.81	103	76-120	12	21	
1,2-Dichlorobenzene	25.00	24.95	100	76-120	2	20	
1,2-Dibromo-3-Chloropropane	25.00	23.63	95	65-120	0	22	
1,2,4-Trichlorobenzene	25.00	21.52	86	73-121	15	20	
Hexachlorobutadiene	25.00	25.67	103	73-123	14	25	
Naphthalene	25.00	23.20	93	62-121	5	32	
1,2,3-Trichlorobenzene	25.00	22.72	91	66-123	8	29	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	100	77-120	
1,2-Dichloroethane-d4	104	70-127	
Toluene-d8	110	83-125	
Bromofluorobenzene	99	78-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC476778	Batch#:	146323
Matrix:	Water	Analyzed:	12/22/08
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Freon 12	25.00	31.39 b	126	56-140	V3
Chloromethane	25.00	20.79	83	46-142	
Vinyl Chloride	25.00	26.80	107	49-136	
Bromomethane	25.00	23.50	94	42-154	
Chloroethane	25.00	26.74	107	51-133	
Trichlorofluoromethane	25.00	33.68 b	135	63-135	V3
Iodomethane	25.00	16.62 b	66 *	70-130	L2 V9
Acetone	25.00	26.84	107	48-130	
1,1-Dichloroethene	25.00	27.67	111	68-133	
Methylene Chloride	25.00	28.48	114	71-120	
Carbon Disulfide	25.00	24.11	96	56-120	
MTBE	25.00	26.68	107	58-120	
trans-1,2-Dichloroethene	25.00	27.00	108	80-120	
Vinyl Acetate	25.00	19.11 b	76	63-124	V9
1,1-Dichloroethane	25.00	27.63	111	77-120	
2-Butanone	25.00	25.09	100	57-120	
cis-1,2-Dichloroethene	25.00	28.05	112	75-120	
2,2-Dichloropropane	25.00	31.47 b	126	72-128	V3
Chloroform	25.00	29.25	117	78-120	
Bromochloromethane	25.00	27.74	111	78-120	
1,1,1-Trichloroethane	25.00	32.75 b	131 *	78-120	L1 V3
1,1-Dichloropropene	25.00	29.21	117	75-120	
Carbon Tetrachloride	25.00	34.62 b	138 *	80-120	L1 V3
1,2-Dichloroethane	25.00	28.68	115	74-120	
Benzene	25.00	25.93	104	77-120	
Trichloroethene	25.00	29.02	116	78-122	
1,2-Dichloropropane	25.00	26.65	107	76-120	
Bromodichloromethane	25.00	30.09	120	78-120	
Dibromomethane	25.00	29.21	117	77-120	
4-Methyl-2-Pentanone	25.00	24.09	96	65-120	
cis-1,3-Dichloropropene	25.00	28.07	112	76-120	
Toluene	25.00	28.13	113	73-120	
trans-1,3-Dichloropropene	25.00	25.48	102	72-120	
1,1,2-Trichloroethane	25.00	29.26	117	76-120	
2-Hexanone	25.00	20.58	82	57-121	
1,3-Dichloropropane	25.00	25.16	101	75-120	
Tetrachloroethene	25.00	28.08	112	77-120	

*= Value outside of QC limits; see narrative
b= See narrative

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC476778	Batch#:	146323
Matrix:	Water	Analyzed:	12/22/08
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Dibromochloromethane	25.00	25.66	103	76-120	
1,2-Dibromoethane	25.00	30.74 b	123 *	77-120	L1 V3
Chlorobenzene	25.00	24.47	98	78-120	
1,1,1,2-Tetrachloroethane	25.00	26.32	105	77-120	
Ethylbenzene	25.00	26.32	105	78-120	
m,p-Xylenes	50.00	50.39	101	77-120	
o-Xylene	25.00	24.86	99	77-120	
Styrene	25.00	24.05	96	77-120	
Bromoform	25.00	27.13	109	74-121	
Isopropylbenzene	25.00	23.05	92	71-120	
1,1,2,2-Tetrachloroethane	25.00	24.03	96	73-120	
1,2,3-Trichloropropane	25.00	23.70	95	72-120	
Propylbenzene	25.00	24.75	99	76-120	
Bromobenzene	25.00	24.40	98	75-120	
1,3,5-Trimethylbenzene	25.00	24.23	97	77-120	
2-Chlorotoluene	25.00	24.53	98	76-120	
4-Chlorotoluene	25.00	24.13	97	78-120	
tert-Butylbenzene	25.00	25.11	100	76-120	
1,2,4-Trimethylbenzene	25.00	24.42	98	77-120	
sec-Butylbenzene	25.00	25.51	102	80-120	
para-Isopropyl Toluene	25.00	24.02	96	76-120	
1,3-Dichlorobenzene	25.00	24.57	98	75-120	
1,4-Dichlorobenzene	25.00	24.03	96	77-120	
n-Butylbenzene	25.00	26.47	106	76-120	
1,2-Dichlorobenzene	25.00	24.93	100	76-120	
1,2-Dibromo-3-Chloropropane	25.00	23.23	93	65-120	
1,2,4-Trichlorobenzene	25.00	24.43	98	73-121	
Hexachlorobutadiene	25.00	36.52 b	146 *	73-123	L1 V3
Naphthalene	25.00	23.17	93	62-121	
1,2,3-Trichlorobenzene	25.00	24.61	98	66-123	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	109	77-120	
1,2-Dichloroethane-d4	104	70-127	
Toluene-d8	103	83-125	
Bromofluorobenzene	98	78-120	

*= Value outside of QC limits; see narrative
b= See narrative

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC476779	Batch#:	146323
Matrix:	Water	Analyzed:	12/22/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V1
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	V1
Iodomethane	ND	10	L2 V9
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	V1
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	L1 V1
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	L1 V1
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC476779	Batch#:	146323
Matrix:	Water	Analyzed:	12/22/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	L1 V1
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1 V1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	110	77-120	
1,2-Dichloroethane-d4	108	70-127	
Toluene-d8	104	83-125	
Bromofluorobenzene	114	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	146323
MSS Lab ID:	208790-001	Sampled:	12/16/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/22/08
Diln Fac:	1.000		

Type: MS Lab ID: QC476863

Analyte	MSS Result	Spiked	Result	%REC	Limits	ADEQ Flags
Freon 12	<0.2000	25.00	34.02 b	136	56-140	V3
Chloromethane	<0.2000	25.00	24.18	97	46-142	
Vinyl Chloride	<0.1000	25.00	29.92	120	49-136	
Bromomethane	<0.2000	25.00	19.02	76	42-154	
Chloroethane	<0.2000	25.00	29.19	117	51-133	
Trichlorofluoromethane	<0.2000	25.00	37.62 b	150 *	63-135	M1 V3
Iodomethane	<2.000	25.00	13.55 b	54 *	60-140	M2 V9
Acetone	1.125	25.00	26.68	102	48-130	
1,1-Dichloroethene	<0.1000	25.00	31.87	127	68-133	
Methylene Chloride	<1.000	25.00	31.45	126 *	71-120	M1
Carbon Disulfide	<0.1000	25.00	29.67	119	56-120	
MTBE	<0.1000	25.00	28.70	115	58-120	
trans-1,2-Dichloroethene	<0.1000	25.00	30.64	123 *	80-120	M1
Vinyl Acetate	<2.000	25.00	18.53 b	74	63-124	V9
1,1-Dichloroethane	<0.1000	25.00	31.46	126 *	77-120	M1
2-Butanone	<2.000	25.00	27.17	109	57-120	
cis-1,2-Dichloroethene	<0.1000	25.00	31.06	124 *	75-120	M1
2,2-Dichloropropane	<0.1000	25.00	33.24 b	133 *	72-128	M1 V3
Chloroform	<0.1000	25.00	32.38	130 *	78-120	M1
Bromochloromethane	<0.1000	25.00	30.26	121 *	78-120	M1
1,1,1-Trichloroethane	<0.1131	25.00	37.54 b	150 *	78-120	M1 V3
1,1-Dichloropropene	<0.1000	25.00	32.82	131 *	75-120	M1
Carbon Tetrachloride	<0.1000	25.00	39.18 b	157 *	80-120	M1 V3
1,2-Dichloroethane	<0.1000	25.00	31.39	126 *	74-120	M1
Benzene	<0.1000	25.00	28.12	112	77-120	
Trichloroethene	<0.1000	25.00	30.89	124 *	78-122	M1
1,2-Dichloropropane	<0.1000	25.00	28.21	113	76-120	
Bromodichloromethane	<0.1000	25.00	31.80	127 *	78-120	M1
Dibromomethane	<0.1000	25.00	30.64	123 *	77-120	M1
4-Methyl-2-Pentanone	<2.000	25.00	26.26	105	65-120	
cis-1,3-Dichloropropene	<0.1000	25.00	28.96	116	76-120	
Toluene	<0.1000	25.00	29.88	120	73-120	
trans-1,3-Dichloropropene	<0.1000	25.00	26.71	107	72-120	
1,1,2-Trichloroethane	<0.1075	25.00	30.54	122 *	76-120	M1
2-Hexanone	<2.000	25.00	21.34	85	57-121	
1,3-Dichloropropane	<0.1000	25.00	26.36	105	75-120	
Tetrachloroethene	<0.1316	25.00	29.52	118	77-120	
Dibromochloromethane	<0.1000	25.00	26.59	106	76-120	
1,2-Dibromoethane	<0.1000	25.00	31.89 b	128 *	77-120	M1 V3
Chlorobenzene	<0.1000	25.00	25.20	101	78-120	
1,1,1,2-Tetrachloroethane	<0.1000	25.00	27.62	110	77-120	
Ethylbenzene	<0.1000	25.00	27.79	111	78-120	
m,p-Xylenes	<0.1594	50.00	52.46	105	77-120	
o-Xylene	<0.1000	25.00	25.93	104	77-120	
Styrene	<0.1000	25.00	20.87	83	77-120	
Bromoform	<0.2000	25.00	28.39	114	74-121	
Isopropylbenzene	<0.1000	25.00	24.13	97	71-120	
1,1,2,2-Tetrachloroethane	<0.1000	25.00	25.39	102	73-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	146323
MSS Lab ID:	208790-001	Sampled:	12/16/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/22/08
Diln Fac:	1.000		

Analyte	MSS Result	Spiked	Result	%REC	Limits	ADEQ Flags
1,2,3-Trichloropropane	<0.1070	25.00	25.33	101	72-120	
Propylbenzene	<0.1000	25.00	25.73	103	76-120	
Bromobenzene	<0.1000	25.00	25.01	100	75-120	
1,3,5-Trimethylbenzene	<0.1000	25.00	25.30	101	77-120	
2-Chlorotoluene	<0.1000	25.00	25.64	103	76-120	
4-Chlorotoluene	<0.1000	25.00	25.14	101	78-120	
tert-Butylbenzene	<0.1000	25.00	25.75	103	76-120	
1,2,4-Trimethylbenzene	<0.1000	25.00	25.66	103	77-120	
sec-Butylbenzene	<0.1029	25.00	25.77	103	80-120	
para-Isopropyl Toluene	<0.1000	25.00	24.81	99	76-120	
1,3-Dichlorobenzene	<0.1000	25.00	25.09	100	75-120	
1,4-Dichlorobenzene	<0.1000	25.00	24.22	97	77-120	
n-Butylbenzene	<0.1285	25.00	27.77	111	76-120	
1,2-Dichlorobenzene	<0.1000	25.00	25.20	101	76-120	
1,2-Dibromo-3-Chloropropane	<0.4000	25.00	24.41	98	65-120	
1,2,4-Trichlorobenzene	<0.1329	25.00	25.79	103	73-121	
Hexachlorobutadiene	<0.4000	25.00	36.78 b	147 *	73-123	M1 V3
Naphthalene	<0.4000	25.00	25.27	101	62-121	
1,2,3-Trichlorobenzene	<0.1149	25.00	26.09	104	66-123	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	113	77-120	
1,2-Dichloroethane-d4	112	70-127	
Toluene-d8	105	83-125	
Bromofluorobenzene	98	78-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	146323
MSS Lab ID:	208790-001	Sampled:	12/16/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/22/08
Diln Fac:	1.000		

Type: MSD Lab ID: QC476864

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
Freon 12	25.00	32.47 b	130	56-140	5	24	V3
Chloromethane	25.00	21.75	87	46-142	11	24	
Vinyl Chloride	25.00	28.09	112	49-136	6	24	
Bromomethane	25.00	22.30	89	42-154	16	24	
Chloroethane	25.00	27.40	110	51-133	6	25	
Trichlorofluoromethane	25.00	34.55 b	138 *	63-135	9	20	M1 V3
Iodomethane	25.00	17.57 b	70	60-140	26	30	V9
Acetone	25.00	26.11	100	48-130	2	41	
1,1-Dichloroethene	25.00	30.65	123	68-133	4	20	
Methylene Chloride	25.00	30.13	121 *	71-120	4	20	M1
Carbon Disulfide	25.00	28.15	113	56-120	5	20	
MTBE	25.00	28.12	112	58-120	2	21	
trans-1,2-Dichloroethene	25.00	29.19	117	80-120	5	24	
Vinyl Acetate	25.00	17.46 b	70	63-124	6	24	V9
1,1-Dichloroethane	25.00	29.74	119	77-120	6	20	
2-Butanone	25.00	25.55	102	57-120	6	32	
cis-1,2-Dichloroethene	25.00	29.25	117	75-120	6	20	
2,2-Dichloropropane	25.00	31.31 b	125	72-128	6	24	V3
Chloroform	25.00	30.75	123 *	78-120	5	20	M1
Bromochloromethane	25.00	29.33	117	78-120	3	20	
1,1,1-Trichloroethane	25.00	35.07 b	140 *	78-120	7	20	M1 V3
1,1-Dichloropropene	25.00	31.18	125 *	75-120	5	21	M1
Carbon Tetrachloride	25.00	36.75 b	147 *	80-120	6	21	M1 V3
1,2-Dichloroethane	25.00	30.27	121 *	74-120	4	20	M1
Benzene	25.00	26.79	107	77-120	5	20	
Trichloroethene	25.00	29.87	119	78-122	3	20	
1,2-Dichloropropane	25.00	27.17	109	76-120	4	20	
Bromodichloromethane	25.00	30.90	124 *	78-120	3	20	M1
Dibromomethane	25.00	29.75	119	77-120	3	20	
4-Methyl-2-Pentanone	25.00	26.18	105	65-120	0	22	
cis-1,3-Dichloropropene	25.00	28.08	112	76-120	3	20	
Toluene	25.00	28.97	116	73-120	3	20	
trans-1,3-Dichloropropene	25.00	25.77	103	72-120	4	20	
1,1,2-Trichloroethane	25.00	29.33	117	76-120	4	20	
2-Hexanone	25.00	20.23	81	57-121	5	25	
1,3-Dichloropropane	25.00	25.77	103	75-120	2	20	
Tetrachloroethene	25.00	28.65	115	77-120	3	20	
Dibromochloromethane	25.00	26.01	104	76-120	2	20	
1,2-Dibromoethane	25.00	31.99 b	128 *	77-120	0	20	M1 V3
Chlorobenzene	25.00	24.35	97	78-120	3	20	
1,1,1,2-Tetrachloroethane	25.00	26.74	107	77-120	3	20	
Ethylbenzene	25.00	26.67	107	78-120	4	26	
m,p-Xylenes	50.00	50.66	101	77-120	3	20	
o-Xylene	25.00	25.05	100	77-120	3	20	
Styrene	25.00	19.91	80	77-120	5	20	
Bromoform	25.00	27.32	109	74-121	4	21	
Isopropylbenzene	25.00	23.50	94	71-120	3	20	
1,1,2,2-Tetrachloroethane	25.00	25.31	101	73-120	0	20	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208592	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	146323
MSS Lab ID:	208790-001	Sampled:	12/16/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/22/08
Diln Fac:	1.000		

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
1,2,3-Trichloropropane	25.00	25.18	101	72-120	1	20	
Propylbenzene	25.00	24.89	100	76-120	3	20	
Bromobenzene	25.00	24.85	99	75-120	1	20	
1,3,5-Trimethylbenzene	25.00	24.39	98	77-120	4	20	
2-Chlorotoluene	25.00	24.95	100	76-120	3	20	
4-Chlorotoluene	25.00	24.35	97	78-120	3	20	
tert-Butylbenzene	25.00	25.09	100	76-120	3	21	
1,2,4-Trimethylbenzene	25.00	25.01	100	77-120	3	20	
sec-Butylbenzene	25.00	25.08	100	80-120	3	21	
para-Isopropyl Toluene	25.00	23.99	96	76-120	3	20	
1,3-Dichlorobenzene	25.00	24.65	99	75-120	2	20	
1,4-Dichlorobenzene	25.00	23.94	96	77-120	1	23	
n-Butylbenzene	25.00	27.19	109	76-120	2	21	
1,2-Dichlorobenzene	25.00	25.04	100	76-120	1	20	
1,2-Dibromo-3-Chloropropane	25.00	24.88	100	65-120	2	22	
1,2,4-Trichlorobenzene	25.00	25.66	103	73-121	1	20	
Hexachlorobutadiene	25.00	37.30 b	149 *	73-123	1	25	M1 V3
Naphthalene	25.00	25.63	103	62-121	1	32	
1,2,3-Trichlorobenzene	25.00	26.14	105	66-123	0	29	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	112	77-120	
1,2-Dichloroethane-d4	109	70-127	
Toluene-d8	105	83-125	
Bromofluorobenzene	98	78-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

CURTIS & TOMPKINS BFB TUNE FOR 208592 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 458468482014 File : fkk14 Time : 20-NOV-2008 16:09

Standards: S9454

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	13627	15.43	
75	30% - 60% of mass 95	34213	38.75	
95		88293		
96	5% - 9% of mass 95	5645	6.39	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	77104	87.33	
175	5% - 9% of mass 174	5993	7.77	
176	> 95% and < 101% of mass 174	76701	99.48	
177	5% - 9% of mass 176	5145	6.71	

Analyst: BO Date: 11/21/08 Reviewer: ACM Date: 11/21/08

CURTIS & TOMPKINS BFB TUNE FOR 208592 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 458512086001 File : flk01 Time : 20-DEC-2008 14:46

Standards: S10902

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	38552	15.72	
75	30% - 60% of mass 95	93832	38.26	
95		245269		
96	5% - 9% of mass 95	16395	6.68	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	218346	89.02	
175	5% - 9% of mass 174	15880	7.27	
176	> 95% and < 101% of mass 174	210304	96.32	
177	5% - 9% of mass 176	14944	7.11	

Analyst: BO Date: 12/22/08 Reviewer: LW Date: 12/22/08

CURTIS & TOMPKINS BFB TUNE FOR 208592 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 458513343002 File : fll02 Time : 21-DEC-2008 12:17

Standards: S10902

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	14337	16.25	
75	30% - 60% of mass 95	34736	39.38	
95		88213		
96	5% - 9% of mass 95	5705	6.47	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	85205	96.59	
175	5% - 9% of mass 174	6075	7.13	
176	> 95% and < 101% of mass 174	81184	95.28	
177	5% - 9% of mass 176	5518	6.80	

Analyst: BO Date: 12/22/08 Reviewer: LW Date: 12/22/08

CURTIS & TOMPKINS BFB TUNE FOR 208592 MSVOA Water
EPA 8260B

Inst : MSVOA11 Run Name : BFB IDF : 1.0
Seqnum : 838465788012 File : kke12 Time : 18-NOV-2008 16:19

Standards: S9454

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	7127	15.88	
75	30% - 60% of mass 95	18835	41.98	
95		44868		
96	5% - 9% of mass 95	3178	7.08	
173	< 2% of mass 174	180	0.50	
174	> 50% and < 100% of mass 95	35728	79.63	
175	5% - 9% of mass 174	2545	7.12	
176	> 95% and < 101% of mass 174	34880	97.63	
177	5% - 9% of mass 176	1827	5.24	

Analyst: SJD Date: 11/19/08 Reviewer: LW Date: 11/20/08

CURTIS & TOMPKINS BFB TUNE FOR 208592 MSVOA Water
EPA 8260B

Inst : MSVOA11 Run Name : BFB IDF : 1.0
Seqnum : 838514519005 File : klm05 Time : 22-DEC-2008 09:43

Standards: S10902

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	8832	15.60	
75	30% - 60% of mass 95	26640	47.04	
95		56632		
96	5% - 9% of mass 95	3889	6.87	
173	< 2% of mass 174	292	0.61	
174	> 50% and < 100% of mass 95	48109	84.95	
175	5% - 9% of mass 174	3426	7.12	
176	> 95% and < 101% of mass 174	46360	96.36	
177	5% - 9% of mass 176	2837	6.12	

Analyst: BO Date: 12/23/08 Reviewer: LW Date: 12/23/08

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 208592 MSVOA Water: EPA 8260B

Inst : MSVOA06 Name : 826GOX6W
Calnum : 458468482002 Date : 20-NOV-2008 18:54 Type : WATER
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	fkk19	458468482019	0.25PPB	20-NOV-2008 18:54	S10756 (2000000X), S10619 (2000000X), S10653 (1000000X), S9073 (2000000X), S10447 (1000X)
L2	fkk20	458468482020	0.5PPB	20-NOV-2008 19:28	S10756 (1000000X), S10619 (1000000X), S10653 (500000X), S9073 (1000000X), S10447 (1000X)
L3	fkk21	458468482021	2PPB	20-NOV-2008 20:02	S10756 (250000X), S10619 (250000X), S10653 (250000X), S9073 (500000X), S10447 (1000X)
L4	fkk22	458468482022	5PPB	20-NOV-2008 20:36	S10756 (100000X), S10619 (100000X), S10653 (100000X), S9073 (200000X), S10447 (1000X)
L5	fkk23	458468482023	10PPB	20-NOV-2008 21:11	S10756 (50000X), S10619 (50000X), S10653 (50000X), S9073 (100000X), S10447 (1000X)
L6	fkk24	458468482024	20PPB	20-NOV-2008 21:45	S10756 (25000X), S10619 (25000X), S10653 (25000X), S9073 (50000X), S10447 (1000X)
L7	fkk25	458468482025	50PPB	20-NOV-2008 22:19	S10756 (10000X), S10619 (10000X), S10653 (10000X), S9073 (20000X), S10447 (1000X)
L8	fkk26	458468482026	75PPB	20-NOV-2008 22:53	S10756 (6667X), S10619 (6667X), S10653 (6667X), S9073 (13330X), S10447 (1000X)
L9	fkk27	458468482027	100PPB	20-NOV-2008 23:28	S10756 (5000X), S10619 (5000X), S10653 (5000X), S9073 (10000X), S10447 (1000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12	0.6477m	0.5656m	0.8454m	0.5532	0.5981	0.5029	0.6945	0.8107		QUAD	0.07610	1.80204	-0.00946	0.6523	0.998	15	0.05	0.99	
Chloromethane		0.9120	1.0398m	0.8574m	0.9261	0.7973	0.8813	0.8769	0.9183	AVRG		1.10970		0.9011	8	15	0.10	0.99	
Vinyl Chloride	0.6186	0.5959m	0.7893m	0.5598m	0.6264	0.5569	0.6827	0.7578	0.7322	AVRG		1.52036		0.6577	13	15	0.05	0.99	
Bromomethane		0.1930m	0.2567m	0.2550m	0.3034	0.2679	0.3026	0.3182	0.3165	AVRG		3.61455		0.2767	15	15	0.05	0.99	
Chloroethane		0.2923	0.4104m	0.3212m	0.3726	0.3217	0.3698	0.3835	0.3545	AVRG		2.83075		0.3533	11	15	0.05	0.99	
Trichlorofluoromethane	0.8273	0.6040	0.8892	0.5834	0.6697	0.5610	0.7684	0.8422		QUAD	0.22995	1.57748	-0.00635	0.7181	0.998	15	0.05	0.99	
Acetone			0.3710	0.3072	0.3329	0.3066	0.3294	0.3094	0.3034	AVRG		3.09739		0.3229	8	15	0.05	0.99	
1,1-Dichloroethene		0.5390	0.5372	0.4875	0.5458	0.5394	0.5632	0.5255	0.5359	AVRG		1.87202		0.5342	4	15	0.05	0.99	
Iodomethane	0.2512m	0.2547	0.1985	0.2369	0.4263	0.5013	0.6536			QUAD	0.98411	2.12895	-0.01928	0.3604	0.998	15	0.05	0.99	
Methylene Chloride			0.7555	0.7020	0.7777	0.7282	0.7274	0.7409	0.6984	AVRG		1.36448		0.7329	4	15	0.05	0.99	
Carbon Disulfide		1.9732	2.0441	1.9382	2.1352	2.1460	2.1501	2.1023	2.0997	AVRG		0.48225		2.0736	4	15	0.05	0.99	
MTBE		1.8448	1.9060	1.8521	2.0989	1.9539	1.9188	1.8955	1.8013	AVRG		0.52386		1.9089	5	15	0.05	0.99	
trans-1,2-Dichloroethene		0.5724	0.6436	0.5699	0.6624	0.6271	0.6206	0.6152	0.6125	AVRG		1.62478		0.6155	5	15	0.05	0.99	
Vinyl Acetate			1.4646	1.3551	1.4651	1.4441	1.3282	1.1582	1.2586	AVRG		0.73887		1.3534	9	15	0.05	0.99	
1,1-Dichloroethane		1.1776	1.3258	1.1169	1.2878	1.2281	1.2081	1.1790	1.1551	AVRG		0.82659		1.2098	6	15	0.10	0.99	
2-Butanone			0.4453	0.3964	0.4502	0.4328	0.4482	0.3979	0.4069	AVRG		2.35082		0.4254	6	15	0.05	0.99	
2,2-Dichloropropane		0.6786	0.6640	0.6592	0.7122	0.6598	0.7015	0.6263	0.6552	AVRG		1.49344		0.6696	4	15	0.05	0.99	
cis-1,2-Dichloroethene		0.7223	0.7479	0.6878	0.7508	0.7135	0.7124	0.6781	0.6675	AVRG		1.40840		0.7100	4	15	0.05	0.99	
Chloroform		1.1011	1.1817	0.9979	1.1557	1.1104	1.1029	1.0849	1.0483	AVRG		0.91087		1.0978	5	15	0.05	0.99	
Bromochloromethane		0.4453	0.4569	0.4219	0.4393	0.4106	0.4205	0.4021	0.3778	AVRG		2.37086		0.4218	6	15	0.05	0.99	
1,1,1-Trichloroethane		0.6786	0.6238	0.6419	0.6958	0.6787	0.7016	0.6478	0.6849	AVRG		1.49443		0.6692	4	15	0.05	0.99	
1,1-Dichloropropene		0.4729	0.4341	0.4096	0.4634	0.4519	0.4448	0.4139	0.4414	AVRG		2.26500		0.4415	5	15	0.05	0.99	
Carbon Tetrachloride		0.3579	0.3097	0.3470	0.3746	0.3690	0.4029	0.3392	0.3707	AVRG		2.78631		0.3589	8	15	0.05	0.99	
1,2-Dichloroethane		0.4235	0.4701	0.4850	0.5038	0.4928	0.4932	0.4776	0.4512	AVRG		2.10680		0.4747	6	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		1.4164	1.5484	1.4447	1.5657	1.5800	1.5338	1.4807	1.4213	AVRG		0.66716		1.4989	4	15	0.05	0.99	
Trichloroethene		0.3697	0.3608	0.3472	0.3727	0.3785	0.3762	0.3664	0.3544	AVRG		2.73401		0.3658	3	15	0.05	0.99	
1,2-Dichloropropane		0.4435	0.4550	0.4382	0.4770	0.4693	0.4468	0.4365	0.3983	AVRG		2.24433		0.4456	5	15	0.05	0.99	
Bromodichloromethane		0.4415	0.4802	0.4840	0.5273	0.5310	0.5354	0.5045	0.4853	AVRG		2.00542		0.4986	6	15	0.05	0.99	
Dibromomethane		0.2300	0.2969	0.2910	0.3043	0.3130	0.3027	0.2996	0.2881	AVRG		3.44004		0.2907	9	15	0.05	0.99	
4-Methyl-2-Pentanone			0.4959	0.4811	0.5008	0.5289	0.5033	0.4753	0.4843	AVRG		2.01743		0.4957	4	15	0.05	0.99	
cis-1,3-Dichloropropene		0.6246	0.6565	0.6505	0.6813	0.6704	0.6664	0.6453	0.6113	AVRG		1.53661		0.6508	4	15	0.05	0.99	
Toluene		0.8146	0.8853	0.8122	0.9430	0.8216	0.8864	0.8331	0.7821	AVRG		1.18022		0.8473	6	15	0.05	0.99	
trans-1,3-Dichloropropene		0.5134	0.5798	0.5280	0.6186	0.5837	0.6048	0.5817	0.5529	AVRG		1.75321		0.5704	6	15	0.05	0.99	
1,1,2-Trichloroethane		0.1829	0.1999	0.2064	0.2296	0.2242	0.2147	0.2110	0.2022	AVRG		4.78775		0.2089	7	15	0.05	0.99	
2-Hexanone			0.4174	0.3862	0.4263	0.4429	0.4268	0.4108	0.3985	AVRG		2.40632		0.4156	5	15	0.05	0.99	
1,3-Dichloropropane		0.7309	0.7680	0.7370	0.8303	0.7496	0.7260	0.7478	0.7151	AVRG		1.33229		0.7506	5	15	0.05	0.99	
Tetrachloroethene		0.4671	0.3880	0.3940	0.4274	0.4027	0.4365	0.3896	0.4448	AVRG		2.38796		0.4188	7	15	0.05	0.99	
Dibromochloromethane		0.5128	0.5363	0.5575	0.6187	0.5950	0.5587	0.5842	0.5715	AVRG		1.76417		0.5668	6	15	0.05	0.99	
1,2-Dibromoethane		0.3918	0.4380	0.4352	0.4647	0.4605	0.4395	0.4345	0.4239	AVRG		2.29346		0.4360	5	15	0.05	0.99	
Chlorobenzene		1.2018	1.3036	1.2462	1.3654	1.2216	1.2035	1.1940	1.1691	AVRG		0.80766		1.2382	5	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.4243	0.4402	0.4451	0.4881	0.4392	0.4457	0.4558	0.4371	AVRG		2.23746		0.4469	4	15	0.05	0.99	
Ethylbenzene		1.8818	1.8141	1.7404	1.8654	1.7387	1.7386	1.6694	1.7063	AVRG		0.56518		1.7693	4	15	0.05	0.99	
m,p-Xylenes	0.6758	0.7117	0.7093	0.6555	0.7591	0.6902	0.6493	0.6463	0.6219	AVRG		1.47082		0.6799	6	15	0.05	0.99	
o-Xylene		0.7474	0.7130	0.7380	0.8050	0.7101	0.7081	0.6705	0.6743	AVRG		1.38732		0.7208	6	15	0.05	0.99	
Styrene		1.1668	1.2083	1.2783	1.3591	1.2751	1.2064	1.2359	1.1947	AVRG		0.80609		1.2406	5	15	0.05	0.99	
Bromoform		0.3384	0.4010	0.3872	0.4298	0.4176	0.4104	0.4216	0.4280	AVRG		2.47363		0.4043	7	15	0.10	0.99	
Isopropylbenzene		3.0309	3.1358	2.8764	3.1730	3.2802	3.1139	2.6768	3.0122	AVRG		0.32923		3.0374	6	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		1.2187	1.3367	1.2470	1.3233	1.3741	1.2816	1.1398	1.1738	AVRG		0.79248		1.2619	7	15	0.30	0.99	
1,2,3-Trichloropropane		0.9947	1.0412	0.9590	1.0409	1.0688	0.9486	0.8885	0.9096	AVRG		1.01894		0.9814	7	15	0.05	0.99	
Propylbenzene		3.6590	3.6765	3.6088	3.8859	3.6238	3.5999	2.9929	3.2114	AVRG		0.28310		3.5323	8	15	0.05	0.99	
Bromobenzene		1.0963	1.1176	1.1603	1.1995	1.1560	1.0828	1.0219	0.9894	AVRG		0.90664		1.1030	6	15	0.05	0.99	
1,3,5-Trimethylbenzene		2.7137	2.5669	2.3754	2.5792	2.5702	2.4624	2.0936	2.1615	AVRG		0.40977		2.4404	9	15	0.05	0.99	
2-Chlorotoluene		2.6839	2.7820	2.5064	2.7425	2.6461	2.4760	2.2110	2.1634	AVRG		0.39582		2.5264	9	15	0.05	0.99	
4-Chlorotoluene		2.5391	2.6318	2.3726	2.6948	2.5134	2.4123	2.2333	2.2632	AVRG		0.40691		2.4576	7	15	0.05	0.99	
tert-Butylbenzene		2.0682	2.1355	2.0728	2.3030	2.1681	2.1491	1.7917	2.0084	AVRG		0.47913		2.0871	7	15	0.05	0.99	
1,2,4-Trimethylbenzene		2.4841	2.6946	2.4595	2.8300	2.7523	2.4361	2.3412	2.3804	AVRG		0.39258		2.5473	7	15	0.05	0.99	
sec-Butylbenzene		2.6941	2.9373	2.8182	3.2195	3.0012	2.9793	2.5388	2.8537	AVRG		0.34719		2.8803	7	15	0.05	0.99	
para-Isopropyl Toluene		2.3222	2.4065	2.4900	2.8276	2.5056	2.4662	2.2356	2.4075	AVRG		0.40689		2.4577	7	15	0.05	0.99	
1,3-Dichlorobenzene		1.8624	1.9265	1.8008	2.0384	2.0149	1.7742	1.7265	1.7346	AVRG		0.53770		1.8598	7	15	0.05	0.99	
1,4-Dichlorobenzene		1.9640	1.9539	1.7998	2.0434	2.0272	1.8866	1.8327	1.7681	AVRG		0.52371		1.9095	5	15	0.05	0.99	
n-Butylbenzene		2.0336	2.0045	1.9628	2.3176	2.0874	2.1481	1.9081	2.0601	AVRG		0.48420		2.0653	6	15	0.05	0.99	
1,2-Dichlorobenzene		1.6521	1.8060	1.8047	1.9114	1.8783	1.7213	1.7061	1.6942	AVRG		0.56441		1.7718	5	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.2027	0.2132	0.1812	0.1817	0.2018	0.1917	0.1875	0.1815	AVRG		5.19028		0.1927	6	15	0.05	0.99	
1,2,4-Trichlorobenzene		0.9808	1.0314	0.9145	1.0720	0.9912	0.9648	0.9062	0.9141	AVRG		1.02892		0.9719	6	15	0.05	0.99	
Hexachlorobutadiene		0.3912	0.3325	0.3555	0.3981	0.3490	0.3611	0.2936	0.3587	AVRG		2.81722		0.3550	9	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene		2.4957	2.6121	2.5931	2.9375	3.0324	2.8585	2.8640	2.8128	AVRG		0.36026		2.7758	7	15	0.05	0.99	
1,2,3-Trichlorobenzene		0.9184	0.8977	0.8231	0.9863	1.0044	0.8833	0.8869	0.9203	AVRG		1.09283		0.9151	6	15	0.05	0.99	
Dibromofluoromethane	0.6058	0.6022	0.6119	0.6105	0.5974	0.6059	0.5972	0.5918	0.5932	AVRG		1.66175		0.6018	1	15	0.05	0.99	
1,2-Dichloroethane-d4	0.3077	0.3168	0.3283	0.3237	0.3184	0.3303	0.3215	0.3005	0.3060	AVRG		3.15437		0.3170	3	15	0.05	0.99	
Toluene-d8	1.0044	0.9486	1.0031	1.0163	0.9886	1.0385	0.9811	1.0217	1.0037	AVRG		0.99934		1.0007	3	15	0.05	0.99	
Bromofluorobenzene	1.0593	0.9793	1.0003	1.0272	1.0410	1.0415	0.9604	0.8944	0.9258	AVRG		1.00794		0.9921	6	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Freon 12	0.500	32	1.000	9	2.000	55	5.000	0	10.00	5	20.00	-14	50.00	2	75.00	0		
Chloromethane			1.000	1	2.000	15	5.000	-5	10.00	3	20.00	-12	50.00	-2	75.00	-3	100.0	2
Vinyl Chloride	0.500	-6	1.000	-9	2.000	20	5.000	-15	10.00	-5	20.00	-15	50.00	4	75.00	15	100.0	11
Bromomethane			1.000	-30	2.000	-7	5.000	-8	10.00	10	20.00	-3	50.00	9	75.00	15	100.0	14
Chloroethane			1.000	-17	2.000	16	5.000	-9	10.00	5	20.00	-9	50.00	5	75.00	9	100.0	0
Trichlorofluoromethane	0.500	76	1.000	18	2.000	51	5.000	-4	10.00	5	20.00	-14	50.00	3	75.00	-1		
Acetone					2.000	15	5.000	-5	10.00	3	20.00	-5	50.00	2	75.00	-4	100.0	-6
1,1-Dichloroethene			0.500	1	2.000	1	5.000	-9	10.00	2	20.00	1	50.00	5	75.00	-2	100.0	0
Iodomethane	0.250	347	0.500	151	2.000	-9	5.000	-30	10.00	-3	20.00	2	50.00	0				
Methylene Chloride					2.000	3	5.000	-4	10.00	6	20.00	-1	50.00	-1	75.00	1	100.0	-5
Carbon Disulfide			0.500	-5	2.000	-1	5.000	-7	10.00	3	20.00	3	50.00	4	75.00	1	100.0	1
MTBE			0.500	-3	2.000	0	5.000	-3	10.00	10	20.00	2	50.00	1	75.00	-1	100.0	-6
trans-1,2-Dichloroethene			0.500	-7	2.000	5	5.000	-7	10.00	8	20.00	2	50.00	1	75.00	0	100.0	0
Vinyl Acetate					2.000	8	5.000	0	10.00	8	20.00	7	50.00	-2	75.00	-14	100.0	-7
1,1-Dichloroethane			0.500	-3	2.000	10	5.000	-8	10.00	6	20.00	2	50.00	0	75.00	-3	100.0	-5
2-Butanone					2.000	5	5.000	-7	10.00	6	20.00	2	50.00	5	75.00	-6	100.0	-4
2,2-Dichloropropane			0.500	1	2.000	-1	5.000	-2	10.00	6	20.00	-1	50.00	5	75.00	-6	100.0	-2
cis-1,2-Dichloroethene			0.500	2	2.000	5	5.000	-3	10.00	6	20.00	0	50.00	0	75.00	-5	100.0	-6
Chloroform			0.500	0	2.000	8	5.000	-9	10.00	5	20.00	1	50.00	0	75.00	-1	100.0	-5
Bromochloromethane			0.500	6	2.000	8	5.000	0	10.00	4	20.00	-3	50.00	0	75.00	-5	100.0	-10
1,1,1-Trichloroethane			0.500	1	2.000	-7	5.000	-4	10.00	4	20.00	1	50.00	5	75.00	-3	100.0	2
1,1-Dichloropropene			0.500	7	2.000	-2	5.000	-7	10.00	5	20.00	2	50.00	1	75.00	-6	100.0	0
Carbon Tetrachloride			0.500	0	2.000	-14	5.000	-3	10.00	4	20.00	3	50.00	12	75.00	-5	100.0	3
1,2-Dichloroethane			0.500	-11	2.000	-1	5.000	2	10.00	6	20.00	4	50.00	4	75.00	1	100.0	-5
Benzene			0.500	-6	2.000	3	5.000	-4	10.00	4	20.00	5	50.00	2	75.00	-1	100.0	-5
Trichloroethene			0.500	1	2.000	-1	5.000	-5	10.00	2	20.00	3	50.00	3	75.00	0	100.0	-3
1,2-Dichloropropane			0.500	0	2.000	2	5.000	-2	10.00	7	20.00	5	50.00	0	75.00	-2	100.0	-11
Bromodichloromethane			0.500	-11	2.000	-4	5.000	-3	10.00	6	20.00	6	50.00	7	75.00	1	100.0	-3
Dibromomethane			0.500	-21	2.000	2	5.000	0	10.00	5	20.00	8	50.00	4	75.00	3	100.0	-1
4-Methyl-2-Pentanone					2.000	0	5.000	-3	10.00	1	20.00	7	50.00	2	75.00	-4	100.0	-2
cis-1,3-Dichloropropene			0.500	-4	2.000	1	5.000	0	10.00	5	20.00	3	50.00	2	75.00	-1	100.0	-6
Toluene			0.500	-4	2.000	4	5.000	-4	10.00	11	20.00	-3	50.00	5	75.00	-2	100.0	-8
trans-1,3-Dichloropropene			0.500	-10	2.000	2	5.000	-7	10.00	8	20.00	2	50.00	6	75.00	2	100.0	-3
1,1,2-Trichloroethane			0.500	-12	2.000	-4	5.000	-1	10.00	10	20.00	7	50.00	3	75.00	1	100.0	-3
2-Hexanone					2.000	0	5.000	-7	10.00	3	20.00	7	50.00	3	75.00	-1	100.0	-4
1,3-Dichloropropane			0.500	-3	2.000	2	5.000	-2	10.00	11	20.00	0	50.00	-3	75.00	0	100.0	-5
Tetrachloroethene			0.500	12	2.000	-7	5.000	-6	10.00	2	20.00	-4	50.00	4	75.00	-7	100.0	6
Dibromochloromethane			0.500	-10	2.000	-5	5.000	-2	10.00	9	20.00	5	50.00	-1	75.00	3	100.0	1
1,2-Dibromoethane			0.500	-10	2.000	0	5.000	0	10.00	7	20.00	6	50.00	1	75.00	0	100.0	-3
Chlorobenzene			0.500	-3	2.000	5	5.000	1	10.00	10	20.00	-1	50.00	-3	75.00	-4	100.0	-6
1,1,1,2-Tetrachloroethane			0.500	-5	2.000	-2	5.000	0	10.00	9	20.00	-2	50.00	0	75.00	2	100.0	-2
Ethylbenzene			0.500	6	2.000	3	5.000	-2	10.00	5	20.00	-2	50.00	-2	75.00	-6	100.0	-4

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
m,p-Xylenes	0.500	-1	1.000	5	4.000	4	10.00	-4	20.00	12	40.00	2	100.0	-4	150.0	-5	200.0	-9
o-Xylene			0.500	4	2.000	-1	5.000	2	10.00	12	20.00	-1	50.00	-2	75.00	-7	100.0	-6
Styrene			0.500	-6	2.000	-3	5.000	3	10.00	10	20.00	3	50.00	-3	75.00	0	100.0	-4
Bromoform			0.500	-16	2.000	-1	5.000	-4	10.00	6	20.00	3	50.00	2	75.00	4	100.0	6
Isopropylbenzene			0.500	0	2.000	3	5.000	-5	10.00	4	20.00	8	50.00	3	75.00	-12	100.0	-1
1,1,2,2-Tetrachloroethane			0.500	-3	2.000	6	5.000	-1	10.00	5	20.00	9	50.00	2	75.00	-10	100.0	-7
1,2,3-Trichloropropane			0.500	1	2.000	6	5.000	-2	10.00	6	20.00	9	50.00	-3	75.00	-9	100.0	-7
Propylbenzene			0.500	4	2.000	4	5.000	2	10.00	10	20.00	3	50.00	2	75.00	-15	100.0	-9
Bromobenzene			0.500	-1	2.000	1	5.000	5	10.00	9	20.00	5	50.00	-2	75.00	-7	100.0	-10
1,3,5-Trimethylbenzene			0.500	11	2.000	5	5.000	-3	10.00	6	20.00	5	50.00	1	75.00	-14	100.0	-11
2-Chlorotoluene			0.500	6	2.000	10	5.000	-1	10.00	9	20.00	5	50.00	-2	75.00	-12	100.0	-14
4-Chlorotoluene			0.500	3	2.000	7	5.000	-3	10.00	10	20.00	2	50.00	-2	75.00	-9	100.0	-8
tert-Butylbenzene			0.500	-1	2.000	2	5.000	-1	10.00	10	20.00	4	50.00	3	75.00	-14	100.0	-4
1,2,4-Trimethylbenzene			0.500	-2	2.000	6	5.000	-3	10.00	11	20.00	8	50.00	-4	75.00	-8	100.0	-7
sec-Butylbenzene			0.500	-6	2.000	2	5.000	-2	10.00	12	20.00	4	50.00	3	75.00	-12	100.0	-1
para-Isopropyl Toluene			0.500	-6	2.000	-2	5.000	1	10.00	15	20.00	2	50.00	0	75.00	-9	100.0	-2
1,3-Dichlorobenzene			0.500	0	2.000	4	5.000	-3	10.00	10	20.00	8	50.00	-5	75.00	-7	100.0	-7
1,4-Dichlorobenzene			0.500	3	2.000	2	5.000	-6	10.00	7	20.00	6	50.00	-1	75.00	-4	100.0	-7
n-Butylbenzene			0.500	-2	2.000	-3	5.000	-5	10.00	12	20.00	1	50.00	4	75.00	-8	100.0	0
1,2-Dichlorobenzene			0.500	-7	2.000	2	5.000	2	10.00	8	20.00	6	50.00	-3	75.00	-4	100.0	-4
1,2-Dibromo-3-Chloropropane			0.500	5	2.000	11	5.000	-6	10.00	-6	20.00	5	50.00	-1	75.00	-3	100.0	-6
1,2,4-Trichlorobenzene			0.500	1	2.000	6	5.000	-6	10.00	10	20.00	2	50.00	-1	75.00	-7	100.0	-6
Hexachlorobutadiene			0.500	10	2.000	-6	5.000	0	10.00	12	20.00	-2	50.00	2	75.00	-17	100.0	1
Naphthalene			0.500	-10	2.000	-6	5.000	-7	10.00	6	20.00	9	50.00	3	75.00	3	100.0	1
1,2,3-Trichlorobenzene			0.500	0	2.000	-2	5.000	-10	10.00	8	20.00	10	50.00	-3	75.00	-3	100.0	1
Dibromofluoromethane	50.00	1	50.00	0	50.00	2	50.00	1	50.00	-1	50.00	1	50.00	-1	50.00	-2	50.00	-1
1,2-Dichloroethane-d4	50.00	-3	50.00	0	50.00	4	50.00	2	50.00	0	50.00	4	50.00	1	50.00	-5	50.00	-3
Toluene-d8	50.00	0	50.00	-5	50.00	0	50.00	2	50.00	-1	50.00	4	50.00	-2	50.00	2	50.00	0
Bromofluorobenzene	50.00	7	50.00	-1	50.00	1	50.00	4	50.00	5	50.00	5	50.00	-3	50.00	-10	50.00	-7

BO 11/21/08 : Manual integrations were made due to fronting/tailing of peaks, except for Bromomethane which was integrated to raise the baseline due to noise

Analyst: BO Date: 11/21/08 Reviewer: ACM Date: 11/21/08

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; QUAD=Quadratic regression

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 208592 MSVOA Water
EPA 8260B

Inst : MSVOA06 Name : 826GOX6W
Calnum : 458468482002 Cal Date : 20-NOV-2008 Type : WATER

ICV 458468482028 (fkk28 21-NOV-2008) stds: S10631 (10000X), S10447 (1000X)
ICV 458468482029 (fkk29 21-NOV-2008) stds: S10654 (10000X), S10798 (10000X), S10788 (10000X), S10447 (1000X)

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	458468482028	0.6523	0.6183	25.00	25.67	ug/L	3	25	
Chloromethane	458468482028	0.9011	0.7419	25.00	20.58	ug/L	-18	25	
Vinyl Chloride	458468482028	0.6577	0.7466	25.00	28.38	ug/L	14	25	
Bromomethane	458468482028	0.2767	0.2219	25.00	20.05	ug/L	-20	25	
Chloroethane	458468482028	0.3533	0.3134	25.00	22.18	ug/L	-11	25	
Trichlorofluoromethane	458468482028	0.7181	0.7269	25.00	26.80	ug/L	7	25	
Acetone	458468482029	0.3229	0.2969	25.00	22.99	ug/L	-8	25	
1,1-Dichloroethene	458468482029	0.5342	0.5779	25.00	27.05	ug/L	8	25	
Iodomethane	458468482029	0.3604	0.2156	25.00	11.90	ug/L	**-52**	25	v- ***
Methylene Chloride	458468482029	0.7329	0.7315	25.00	24.95	ug/L	0	25	
Carbon Disulfide	458468482029	2.0736	2.0503	25.00	24.72	ug/L	-1	25	
MTBE	458468482029	1.9089	1.6999	25.00	22.26	ug/L	-11	25	
trans-1,2-Dichloroethene	458468482029	0.6155	0.6477	25.00	26.31	ug/L	5	25	
Vinyl Acetate	458468482029	1.3534	0.9237	25.00	17.06	ug/L	**-32**	25	v- ***
1,1-Dichloroethane	458468482029	1.2098	1.1919	25.00	24.63	ug/L	-1	25	
2-Butanone	458468482029	0.4254	0.3758	25.00	22.09	ug/L	-12	25	
2,2-Dichloropropane	458468482029	0.6696	0.6737	25.00	25.15	ug/L	1	25	
cis-1,2-Dichloroethene	458468482029	0.7100	0.7126	25.00	25.09	ug/L	0	25	
Chloroform	458468482029	1.0978	1.0713	25.00	24.40	ug/L	-2	25	
Bromochloromethane	458468482029	0.4218	0.3950	25.00	23.41	ug/L	-6	25	
1,1,1-Trichloroethane	458468482029	0.6692	0.7239	25.00	27.04	ug/L	8	25	
1,1-Dichloropropene	458468482029	0.4415	0.4956	25.00	28.06	ug/L	12	25	
Carbon Tetrachloride	458468482029	0.3589	0.4153	25.00	28.93	ug/L	16	25	
1,2-Dichloroethane	458468482029	0.4747	0.4647	25.00	24.47	ug/L	-2	25	
Benzene	458468482029	1.4989	1.5405	25.00	25.69	ug/L	3	25	
Trichloroethene	458468482029	0.3658	0.3974	25.00	27.16	ug/L	9	25	
1,2-Dichloropropane	458468482029	0.4456	0.4417	25.00	24.78	ug/L	-1	25	
Bromodichloromethane	458468482029	0.4986	0.5145	25.00	25.79	ug/L	3	25	
Dibromomethane	458468482029	0.2907	0.2992	25.00	25.73	ug/L	3	25	
4-Methyl-2-Pentanone	458468482029	0.4957	0.4561	25.00	23.01	ug/L	-8	25	
cis-1,3-Dichloropropene	458468482029	0.6508	0.6214	25.00	23.87	ug/L	-5	25	
Toluene	458468482029	0.8473	0.9101	25.00	26.85	ug/L	7	25	
trans-1,3-Dichloropropene	458468482029	0.5704	0.5250	25.00	23.01	ug/L	-8	25	
1,1,2-Trichloroethane	458468482029	0.2089	0.2147	25.00	25.70	ug/L	3	25	
2-Hexanone	458468482029	0.4156	0.3925	25.00	23.61	ug/L	-6	25	
1,3-Dichloropropane	458468482029	0.7506	0.7684	25.00	25.59	ug/L	2	25	
Tetrachloroethene	458468482029	0.4188	0.4715	25.00	28.15	ug/L	13	25	
Dibromochloromethane	458468482029	0.5668	0.5681	25.00	25.06	ug/L	0	25	
1,2-Dibromoethane	458468482029	0.4360	0.4362	25.00	25.01	ug/L	0	25	
Chlorobenzene	458468482029	1.2382	1.2117	25.00	24.47	ug/L	-2	25	
1,1,1,2-Tetrachloroethane	458468482029	0.4469	0.4543	25.00	25.41	ug/L	2	25	
Ethylbenzene	458468482029	1.7693	1.8355	25.00	25.94	ug/L	4	25	
m,p-Xylenes	458468482029	0.6799	0.7220	50.00	53.10	ug/L	6	25	
o-Xylene	458468482029	0.7208	0.7255	25.00	25.16	ug/L	1	25	
Styrene	458468482029	1.2406	1.2565	25.00	25.32	ug/L	1	25	
Bromoform	458468482029	0.4043	0.4197	25.00	25.96	ug/L	4	25	
Isopropylbenzene	458468482029	3.0374	2.8809	25.00	23.71	ug/L	-5	25	

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	458468482029	1.2619	1.1922	25.00	23.62	ug/L	-6	25	
1,2,3-Trichloropropane	458468482029	0.9814	0.9500	25.00	24.20	ug/L	-3	25	
Propylbenzene	458468482029	3.5323	3.8946	25.00	27.56	ug/L	10	25	
Bromobenzene	458468482029	1.1030	1.1645	25.00	26.39	ug/L	6	25	
1,3,5-Trimethylbenzene	458468482029	2.4404	2.5856	25.00	26.49	ug/L	6	25	
2-Chlorotoluene	458468482029	2.5264	2.6010	25.00	25.74	ug/L	3	25	
4-Chlorotoluene	458468482029	2.4576	2.4107	25.00	24.52	ug/L	-2	25	
tert-Butylbenzene	458468482029	2.0871	2.3029	25.00	27.59	ug/L	10	25	
1,2,4-Trimethylbenzene	458468482029	2.5473	2.7542	25.00	27.03	ug/L	8	25	
sec-Butylbenzene	458468482029	2.8803	3.2369	25.00	28.10	ug/L	12	25	
para-Isopropyl Toluene	458468482029	2.4577	2.5805	25.00	26.25	ug/L	5	25	
1,3-Dichlorobenzene	458468482029	1.8598	1.8497	25.00	24.86	ug/L	-1	25	
1,4-Dichlorobenzene	458468482029	1.9095	1.8322	25.00	23.99	ug/L	-4	25	
n-Butylbenzene	458468482029	2.0653	2.3800	25.00	28.81	ug/L	15	25	
1,2-Dichlorobenzene	458468482029	1.7718	1.7633	25.00	24.88	ug/L	0	25	
1,2-Dibromo-3-Chloropropane	458468482029	0.1927	0.1836	25.00	23.82	ug/L	-5	25	
1,2,4-Trichlorobenzene	458468482029	0.9719	0.9695	25.00	24.94	ug/L	0	25	
Hexachlorobutadiene	458468482029	0.3550	0.4023	25.00	28.33	ug/L	13	25	
Naphthalene	458468482029	2.7758	2.9697	25.00	26.75	ug/L	7	25	
1,2,3-Trichlorobenzene	458468482029	0.9151	0.9388	25.00	25.65	ug/L	3	25	

-=low bias v=ICV

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 208592 MSVOA Water: EPA 8260B

Inst : MSVOA11 Name : 8260GX11
Calnum : 838465788001 Date : 18-NOV-2008 18:16 Type : WATER
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	kke16	838465788016		18-NOV-2008 18:16	S10756 (2000000X), S10619 (2000000X), S9073 (2000000X), S10355 (1000000X), S10764 (2500X)
L2	kke17	838465788017		18-NOV-2008 18:44	S10756 (1000000X), S10619 (1000000X), S9073 (1000000X), S10355 (500000X), S10764 (2500X)
L3	kke18	838465788018		18-NOV-2008 19:12	S10756 (250000X), S10619 (250000X), S9073 (500000X), S10355 (250000X), S10764 (2500X)
L4	kke19	838465788019		18-NOV-2008 19:40	S10756 (100000X), S10619 (100000X), S9073 (200000X), S10355 (100000X), S10764 (2500X)
L5	kke20	838465788020		18-NOV-2008 20:08	S10756 (50000X), S10619 (50000X), S9073 (100000X), S10355 (50000X), S10764 (2500X)
L6	kke21	838465788021		18-NOV-2008 20:36	S10756 (25000X), S10619 (25000X), S9073 (50000X), S10355 (25000X), S10764 (2500X)
L7	kke22	838465788022		18-NOV-2008 21:04	S10756 (10000X), S10619 (10000X), S9073 (20000X), S10355 (10000X), S10764 (2500X)
L8	kke23	838465788023		18-NOV-2008 21:32	S10756 (6667X), S10619 (6667X), S9073 (13330X), S10355 (6667X), S10764 (2500X)
L9	kke24	838465788024		18-NOV-2008 22:01	S10756 (5000X), S10619 (5000X), S9073 (10000X), S10355 (5000X), S10764 (2500X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.3826	0.2856	0.3130	0.3829	0.4930	0.3869	0.4265		QUAD	0.18484	2.46331	-0.00308	0.3815	0.994	15	0.05	0.99	
Chloromethane		0.5475	0.5297	0.5101	0.5003	0.4942	0.4918	0.4801	0.4955	AVRG		1.97565		0.5062	4	15	0.10	0.99	
Vinyl Chloride	0.5419	0.5371	0.5413	0.4561	0.5720	0.5515	0.5140	0.4999	0.5282	AVRG		1.89791		0.5269	6	15	0.05	0.99	
Bromomethane		0.1919	0.1829	0.1564	0.1860	0.2058	0.2333	0.2239	0.2438	AVRG		4.92600		0.2030	14	15	0.05	0.99	
Chloroethane		0.3368	0.3324	0.3090	0.3369	0.3257	0.3178	0.2955	0.3048	AVRG		3.12628		0.3199	5	15	0.05	0.99	
Trichlorofluoromethane		0.4924	0.4960	0.4157	0.5853	0.5906	0.4996	0.5256	0.5948	AVRG		1.90478		0.5250	12	15	0.05	0.99	
Acetone			0.2276	0.1873	0.1954	0.1884	0.1732	0.1756	0.1733	AVRG		5.30002		0.1887	10	15	0.05	0.99	
1,1-Dichloroethene		0.2992m	0.3182	0.3175	0.3450	0.3302	0.3161	0.3283	0.3499	AVRG		3.07154		0.3256	5	15	0.05	0.99	
Iodomethane			0.2490	0.2671	0.2986	0.3140	0.3476	0.3224	0.3389	AVRG		3.27477		0.3054	12	15	0.05	0.99	
Methylene Chloride			0.4485	0.4455	0.4319	0.4326	0.4161	0.4065	0.4142	AVRG		2.33695		0.4279	4	15	0.05	0.99	
Carbon Disulfide		1.1484	1.2118	1.2208	1.2950	1.2525	1.1919	1.2335	1.2755	AVRG		0.81389		1.2287	4	15	0.05	0.99	
MTBE		1.4036	1.4331	1.3887	1.4217	1.4173	1.3934	1.3600	1.3773	AVRG		0.71459		1.3994	2	15	0.05	0.99	
trans-1,2-Dichloroethene		0.4337m	0.3948	0.4060	0.4186	0.4091	0.3963	0.4065	0.4207	AVRG		2.43480		0.4107	3	15	0.05	0.99	
Vinyl Acetate			0.9227	0.8898	0.8646	0.8899	0.9376	0.8330	0.8239	AVRG		1.13609		0.8802	5	15	0.05	0.99	
1,1-Dichloroethane		0.7398	0.7597	0.7639	0.7771	0.7652	0.7402	0.7293	0.7445	AVRG		1.32898		0.7525	2	15	0.10	0.99	
2-Butanone			0.2022	0.1853	0.1943	0.1934	0.1848	0.1844	0.1795	AVRG		5.28728		0.1891	4	15	0.05	0.99	
2,2-Dichloropropane		0.6137	0.5701	0.5595	0.6016	0.5617	0.5343	0.5426	0.5593	AVRG		1.76100		0.5679	5	15	0.05	0.99	
cis-1,2-Dichloroethene		0.5459	0.4710	0.4711	0.4676	0.4604	0.4551	0.4573	0.4684	AVRG		2.10707		0.4746	6	15	0.05	0.99	
Chloroform		0.7704	0.7259	0.7108	0.7262	0.7187	0.7024	0.6908	0.7122	AVRG		1.38953		0.7197	3	15	0.05	0.99	
Bromochloromethane		0.1922	0.2052	0.2134	0.2198	0.2244	0.2228	0.2273	0.2302	AVRG		4.60974		0.2169	6	15	0.05	0.99	
1,1,1-Trichloroethane		0.5447	0.5472	0.5390	0.5806	0.5479	0.5164	0.5340	0.5630	AVRG		1.82950		0.5466	4	15	0.05	0.99	
1,1-Dichloropropene		0.3096	0.3175	0.3151	0.3513	0.3244	0.3019	0.3277	0.3439	AVRG		3.08717		0.3239	5	15	0.05	0.99	
Carbon Tetrachloride		0.2491	0.2619	0.2639	0.2986	0.2740	0.2568	0.2796	0.3015	AVRG		3.66084		0.2732	7	15	0.05	0.99	
1,2-Dichloroethane		0.3297	0.3622	0.3653	0.3673	0.3614	0.3524	0.3453	0.3492	AVRG		2.82405		0.3541	4	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		1.1444	1.1790	1.1393	1.1808	1.1518	1.1265	1.1445	1.1852	AVRG		0.86474		1.1564	2	15	0.05	0.99	
Trichloroethene		0.2513	0.2683	0.2548	0.2740	0.2624	0.2520	0.2649	0.2759	AVRG		3.80269		0.2630	4	15	0.05	0.99	
1,2-Dichloropropane		0.2970	0.3020	0.2972	0.3040	0.2906	0.2835	0.2820	0.2891	AVRG		3.41088		0.2932	3	15	0.05	0.99	
Bromodichloromethane		0.3602	0.3516	0.3464	0.3656	0.3576	0.3539	0.3502	0.3567	AVRG		2.81474		0.3553	2	15	0.05	0.99	
Dibromomethane		0.1580	0.1597	0.1532	0.1593	0.1583	0.1556	0.1549	0.1567	AVRG		6.37124		0.1570	1	15	0.05	0.99	
4-Methyl-2-Pentanone		0.2499	0.2527	0.2427	0.2509	0.2468	0.2460	0.2434	0.2386	AVRG		4.05913		0.2464	2	15	0.05	0.99	
cis-1,3-Dichloropropene		0.4525	0.4838	0.4674	0.4787	0.4735	0.4664	0.4610	0.4698	AVRG		2.13161		0.4691	2	15	0.05	0.99	
Toluene		0.6754	0.7058	0.6915	0.7266	0.6915	0.6762	0.6989	0.7192	AVRG		1.43239		0.6981	3	15	0.05	0.99	
trans-1,3-Dichloropropene		0.4313	0.4353	0.4314	0.4501	0.4412	0.4353	0.4327	0.4391	AVRG		2.28810		0.4370	1	15	0.05	0.99	
1,1,2-Trichloroethane		0.1391	0.1322	0.1239	0.1338	0.1306	0.1267	0.1283	0.1282	AVRG		7.67226		0.1303	4	15	0.05	0.99	
2-Hexanone			0.2360	0.2103	0.2239	0.2196	0.2143	0.2163	0.2115	AVRG		4.56957		0.2188	4	15	0.05	0.99	
1,3-Dichloropropane		0.5366	0.5671	0.5505	0.5804	0.5632	0.5514	0.5386	0.5503	AVRG		1.80260		0.5548	3	15	0.05	0.99	
Tetrachloroethene		0.2502	0.2909	0.2823	0.3143	0.2868	0.2675	0.2964	0.3202	AVRG		3.46527		0.2886	8	15	0.05	0.99	
Dibromochloromethane		0.2949	0.3300	0.3173	0.3369	0.3345	0.3317	0.3323	0.3418	AVRG		3.05414		0.3274	5	15	0.05	0.99	
1,2-Dibromoethane		0.2061	0.2336	0.2328	0.2431	0.2409	0.2414	0.2390	0.2412	AVRG		4.25979		0.2348	5	15	0.05	0.99	
Chlorobenzene		0.8963	0.9837	0.9351	0.9911	0.9366	0.9191	0.9336	0.9658	AVRG		1.05803		0.9452	3	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.2922	0.3345	0.3102	0.3300	0.3175	0.3158	0.3144	0.3271	AVRG		3.14748		0.3177	4	15	0.05	0.99	
Ethylbenzene		1.5293	1.5810	1.4902	1.5964	1.4944	1.4485	1.5258	1.5992	AVRG		0.65227		1.5331	4	15	0.05	0.99	
m,p-Xylenes	0.6207	0.5946	0.6247	0.5982	0.6391	0.6072	0.5963	0.6397	0.6733	AVRG		1.60889		0.6215	4	15	0.05	0.99	
o-Xylene		0.5773	0.6170	0.5976	0.6393	0.5992	0.6014	0.6298	0.6559	AVRG		1.62687		0.6147	4	15	0.05	0.99	
Styrene		0.9373	1.0665	1.0294	1.1010	1.0593	1.0881	1.1229	1.1658	AVRG		0.93345		1.0713	6	15	0.05	0.99	
Bromoform		0.1745	0.2065	0.1951	0.2132	0.2115	0.2155	0.2161	0.2214	AVRG		4.83689		0.2067	7	15	0.10	0.99	
Isopropylbenzene		3.1204	3.3263	3.1408	3.3128	3.0648	2.8751	3.1025	3.2468	AVRG		0.31759		3.1487	5	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		0.8623	0.8860	0.8090	0.8350	0.7806	0.7639	0.7231	0.7048	AVRG		1.25694		0.7956	8	15	0.30	0.99	
1,2,3-Trichloropropane		0.8722	0.9855	0.8255	0.8585	0.8189	0.8023	0.7760	0.7597	AVRG		1.19426		0.8373	8	15	0.05	0.99	
Propylbenzene		3.4867	3.5722	3.4553	3.6182	3.4978	3.3125	3.6548	3.8498	AVRG		0.28122		3.5559	4	15	0.05	0.99	
Bromobenzene		0.8958	0.8919	0.8417	0.8937	0.8479	0.8449	0.8728	0.9018	AVRG		1.14442		0.8738	3	15	0.05	0.99	
1,3,5-Trimethylbenzene		2.5258	2.6346	2.3824	2.4854	2.4435	2.3423	2.5623	2.7409	AVRG		0.39767		2.5146	5	15	0.05	0.99	
2-Chlorotoluene		2.8320	2.8334	2.6622	2.7804	2.6110	2.5236	2.6492	2.7109	AVRG		0.37032		2.7003	4	15	0.05	0.99	
4-Chlorotoluene		2.4659	2.5744	2.4720	2.5236	2.3934	2.2942	2.3697	2.4083	AVRG		0.41023		2.4377	4	15	0.05	0.99	
tert-Butylbenzene		1.8648	2.0741	1.9163	2.0014	1.9886	1.8050	2.0384	2.2082	AVRG		0.50325		1.9871	6	15	0.05	0.99	
1,2,4-Trimethylbenzene		2.4837	2.5084	2.2455	2.2674	2.2543	2.2017	2.3702	2.4998	AVRG		0.42483		2.3539	5	15	0.05	0.99	
sec-Butylbenzene		2.4398	2.7860	2.5334	2.7010	2.7191	2.4351	2.8352	3.1609	AVRG		0.37019		2.7013	9	15	0.05	0.99	
para-Isopropyl Toluene		2.1498	2.1870	1.9838	2.0802	2.1853	1.9837	2.3069	2.5694	AVRG		0.45855		2.1808	9	15	0.05	0.99	
1,3-Dichlorobenzene		1.5332	1.6315	1.5653	1.6076	1.5411	1.4745	1.5414	1.5706	AVRG		0.64178		1.5582	3	15	0.05	0.99	
1,4-Dichlorobenzene		1.5387	1.7011	1.6091	1.6500	1.5761	1.5472	1.6076	1.6409	AVRG		0.62156		1.6088	3	15	0.05	0.99	
n-Butylbenzene		1.7105	1.8751	1.5914	1.6389	1.6932	1.4889	1.7547	1.9732	AVRG		0.58284		1.7157	9	15	0.05	0.99	
1,2-Dichlorobenzene		1.4059	1.6048	1.5176	1.5809	1.4943	1.4377	1.4707	1.4965	AVRG		0.66621		1.5010	4	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.2235m	0.1806m	0.1703	0.1717	0.1615	0.1516	0.1451		QUAD	-0.1965	5.93482	0.089968	0.1720	1.000	15	0.05	0.99	
1,2,4-Trichlorobenzene		0.8986	0.9654	0.8529	0.8260	0.8296	0.7120	0.7353	0.7751	AVRG		1.21307		0.8244	10	15	0.05	0.99	
Hexachlorobutadiene		0.2642	0.3124	0.2237	0.2586	0.2923	0.2120	0.2651	0.3154	AVRG		3.73192		0.2680	14	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene		2.4043	2.5946	2.3927	2.4635	2.3399	2.0233	1.9343	1.9361	AVRG		0.44226		2.2611	11	15	0.05	0.99	
1,2,3-Trichlorobenzene		0.8219	0.9197	0.8022	0.7963	0.7913	0.6801	0.6973	0.7331	AVRG		1.28166		0.7802	10	15	0.05	0.99	
Dibromofluoromethane		0.4213	0.4239	0.4268	0.4206	0.4217	0.4199	0.4197	0.4184	AVRG		2.37229		0.4215	1	15	0.05	0.99	
1,2-Dichloroethane-d4		0.3326	0.3322	0.3286	0.3319	0.3286	0.3238	0.3263	0.3210	AVRG		3.04781		0.3281	1	15	0.05	0.99	
Toluene-d8		1.1689	1.1622	1.1533	1.1653	1.1702	1.1652	1.1697	1.1635	AVRG		0.85852		1.1648	0	15	0.05	0.99	
Bromofluorobenzene		1.1564	1.1359	1.1302	1.1284	1.0929	1.0991	1.0911	1.0727	AVRG		0.89821		1.1133	3	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Freon 12			1.000	13	2.000	-20	5.000	-19	10.00	-4	20.00	21	50.00	-7	75.00	1		
Chloromethane			1.000	8	2.000	5	5.000	1	10.00	-1	20.00	-2	50.00	-3	75.00	-5	100.0	-2
Vinyl Chloride	0.500	3	1.000	2	2.000	3	5.000	-13	10.00	9	20.00	5	50.00	-2	75.00	-5	100.0	0
Bromomethane			1.000	-5	2.000	-10	5.000	-23	10.00	-8	20.00	1	50.00	15	75.00	10	100.0	20
Chloroethane			1.000	5	2.000	4	5.000	-3	10.00	5	20.00	2	50.00	-1	75.00	-8	100.0	-5
Trichlorofluoromethane			1.000	-6	2.000	-6	5.000	-21	10.00	11	20.00	12	50.00	-5	75.00	0	100.0	13
Acetone					2.000	21	5.000	-1	10.00	4	20.00	0	50.00	-8	75.00	-7	100.0	-8
1,1-Dichloroethene			0.500	-8	2.000	-2	5.000	-2	10.00	6	20.00	1	50.00	-3	75.00	1	100.0	7
Iodomethane					2.000	-18	5.000	-13	10.00	-2	20.00	3	50.00	14	75.00	6	100.0	11
Methylene Chloride					2.000	5	5.000	4	10.00	1	20.00	1	50.00	-3	75.00	-5	100.0	-3
Carbon Disulfide			0.500	-7	2.000	-1	5.000	-1	10.00	5	20.00	2	50.00	-3	75.00	0	100.0	4
MTBE			0.500	0	2.000	2	5.000	-1	10.00	2	20.00	1	50.00	0	75.00	-3	100.0	-2
trans-1,2-Dichloroethene			0.500	6	2.000	-4	5.000	-1	10.00	2	20.00	0	50.00	-4	75.00	-1	100.0	2
Vinyl Acetate					2.000	5	5.000	1	10.00	-2	20.00	1	50.00	7	75.00	-5	100.0	-6
1,1-Dichloroethane			0.500	-2	2.000	1	5.000	2	10.00	3	20.00	2	50.00	-2	75.00	-3	100.0	-1
2-Butanone					2.000	7	5.000	-2	10.00	3	20.00	2	50.00	-2	75.00	-3	100.0	-5
2,2-Dichloropropane			0.500	8	2.000	0	5.000	-1	10.00	6	20.00	-1	50.00	-6	75.00	-4	100.0	-2
cis-1,2-Dichloroethene			0.500	15	2.000	-1	5.000	-1	10.00	-1	20.00	-3	50.00	-4	75.00	-4	100.0	-1
Chloroform			0.500	7	2.000	1	5.000	-1	10.00	1	20.00	0	50.00	-2	75.00	-4	100.0	-1
Bromochloromethane			0.500	-11	2.000	-5	5.000	-2	10.00	1	20.00	3	50.00	3	75.00	5	100.0	6
1,1,1-Trichloroethane			0.500	0	2.000	0	5.000	-1	10.00	6	20.00	0	50.00	-6	75.00	-2	100.0	3
1,1-Dichloropropene			0.500	-4	2.000	-2	5.000	-3	10.00	8	20.00	0	50.00	-7	75.00	1	100.0	6
Carbon Tetrachloride			0.500	-9	2.000	-4	5.000	-3	10.00	9	20.00	0	50.00	-6	75.00	2	100.0	10
1,2-Dichloroethane			0.500	-7	2.000	2	5.000	3	10.00	4	20.00	2	50.00	0	75.00	-2	100.0	-1
Benzene			0.500	-1	2.000	2	5.000	-1	10.00	2	20.00	0	50.00	-3	75.00	-1	100.0	2
Trichloroethene			0.500	-4	2.000	2	5.000	-3	10.00	4	20.00	0	50.00	-4	75.00	1	100.0	5
1,2-Dichloropropane			0.500	1	2.000	3	5.000	1	10.00	4	20.00	-1	50.00	-3	75.00	-4	100.0	-1
Bromodichloromethane			0.500	1	2.000	-1	5.000	-2	10.00	3	20.00	1	50.00	0	75.00	-1	100.0	0
Dibromomethane			0.500	1	2.000	2	5.000	-2	10.00	2	20.00	1	50.00	-1	75.00	-1	100.0	0
4-Methyl-2-Pentanone			0.500	1	2.000	3	5.000	-1	10.00	2	20.00	0	50.00	0	75.00	-1	100.0	-3
cis-1,3-Dichloropropene			0.500	-4	2.000	3	5.000	0	10.00	2	20.00	1	50.00	-1	75.00	-2	100.0	0
Toluene			0.500	-3	2.000	1	5.000	-1	10.00	4	20.00	-1	50.00	-3	75.00	0	100.0	3
trans-1,3-Dichloropropene			0.500	-1	2.000	0	5.000	-1	10.00	3	20.00	1	50.00	0	75.00	-1	100.0	0
1,1,2-Trichloroethane			0.500	7	2.000	1	5.000	-5	10.00	3	20.00	0	50.00	-3	75.00	-2	100.0	-2
2-Hexanone					2.000	8	5.000	-4	10.00	2	20.00	0	50.00	-2	75.00	-1	100.0	-3
1,3-Dichloropropane			0.500	-3	2.000	2	5.000	-1	10.00	5	20.00	2	50.00	-1	75.00	-3	100.0	-1
Tetrachloroethene			0.500	-13	2.000	1	5.000	-2	10.00	9	20.00	-1	50.00	-7	75.00	3	100.0	11
Dibromochloromethane			0.500	-10	2.000	1	5.000	-3	10.00	3	20.00	2	50.00	1	75.00	1	100.0	4
1,2-Dibromoethane			0.500	-12	2.000	0	5.000	-1	10.00	4	20.00	3	50.00	3	75.00	2	100.0	3
Chlorobenzene			0.500	-5	2.000	4	5.000	-1	10.00	5	20.00	-1	50.00	-3	75.00	-1	100.0	2
1,1,1,2-Tetrachloroethane			0.500	-8	2.000	5	5.000	-2	10.00	4	20.00	0	50.00	-1	75.00	-1	100.0	3
Ethylbenzene			0.500	0	2.000	3	5.000	-3	10.00	4	20.00	-3	50.00	-6	75.00	0	100.0	4

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
m,p-Xylenes	0.500	0	1.000	-4	4.000	0	10.00	-4	20.00	3	40.00	-2	100.0	-4	150.0	3	200.0	8
o-Xylene			0.500	-6	2.000	0	5.000	-3	10.00	4	20.00	-3	50.00	-2	75.00	2	100.0	7
Styrene			0.500	-13	2.000	0	5.000	-4	10.00	3	20.00	-1	50.00	2	75.00	5	100.0	9
Bromoform			0.500	-16	2.000	0	5.000	-6	10.00	3	20.00	2	50.00	4	75.00	5	100.0	7
Isopropylbenzene			0.500	-1	2.000	6	5.000	0	10.00	5	20.00	-3	50.00	-9	75.00	-1	100.0	3
1,1,2,2-Tetrachloroethane			0.500	8	2.000	11	5.000	2	10.00	5	20.00	-2	50.00	-4	75.00	-9	100.0	-11
1,2,3-Trichloropropane			0.500	4	2.000	18	5.000	-1	10.00	3	20.00	-2	50.00	-4	75.00	-7	100.0	-9
Propylbenzene			0.500	-2	2.000	0	5.000	-3	10.00	2	20.00	-2	50.00	-7	75.00	3	100.0	8
Bromobenzene			0.500	3	2.000	2	5.000	-4	10.00	2	20.00	-3	50.00	-3	75.00	0	100.0	3
1,3,5-Trimethylbenzene			0.500	0	2.000	5	5.000	-5	10.00	-1	20.00	-3	50.00	-7	75.00	2	100.0	9
2-Chlorotoluene			0.500	5	2.000	5	5.000	-1	10.00	3	20.00	-3	50.00	-7	75.00	-2	100.0	0
4-Chlorotoluene			0.500	1	2.000	6	5.000	1	10.00	4	20.00	-2	50.00	-6	75.00	-3	100.0	-1
tert-Butylbenzene			0.500	-6	2.000	4	5.000	-4	10.00	1	20.00	0	50.00	-9	75.00	3	100.0	11
1,2,4-Trimethylbenzene			0.500	6	2.000	7	5.000	-5	10.00	-4	20.00	-4	50.00	-6	75.00	1	100.0	6
sec-Butylbenzene			0.500	-10	2.000	3	5.000	-6	10.00	0	20.00	1	50.00	-10	75.00	5	100.0	17
para-Isopropyl Toluene			0.500	-1	2.000	0	5.000	-9	10.00	-5	20.00	0	50.00	-9	75.00	6	100.0	18
1,3-Dichlorobenzene			0.500	-2	2.000	5	5.000	0	10.00	3	20.00	-1	50.00	-5	75.00	-1	100.0	1
1,4-Dichlorobenzene			0.500	-4	2.000	6	5.000	0	10.00	3	20.00	-2	50.00	-4	75.00	0	100.0	2
n-Butylbenzene			0.500	0	2.000	9	5.000	-7	10.00	-4	20.00	-1	50.00	-13	75.00	2	100.0	15
1,2-Dichlorobenzene			0.500	-6	2.000	7	5.000	1	10.00	5	20.00	0	50.00	-4	75.00	-2	100.0	0
1,2-Dibromo-3-Chloropropane			0.500	-6	2.000	-2	5.000	-2	10.00	3	20.00	0	50.00	0	75.00	0		
1,2,4-Trichlorobenzene			0.500	9	2.000	17	5.000	3	10.00	0	20.00	1	50.00	-14	75.00	-11	100.0	-6
Hexachlorobutadiene			0.500	-1	2.000	17	5.000	-17	10.00	-4	20.00	9	50.00	-21	75.00	-1	100.0	18
Naphthalene			0.500	6	2.000	15	5.000	6	10.00	9	20.00	3	50.00	-11	75.00	-14	100.0	-14
1,2,3-Trichlorobenzene			0.500	5	2.000	18	5.000	3	10.00	2	20.00	1	50.00	-13	75.00	-11	100.0	-6
Dibromofluoromethane			50.00	0	50.00	1	50.00	1	50.00	0	50.00	0	50.00	0	50.00	0	50.00	-1
1,2-Dichloroethane-d4			50.00	1	50.00	1	50.00	0	50.00	1	50.00	0	50.00	-1	50.00	-1	50.00	-2
Toluene-d8			50.00	0	50.00	0	50.00	-1	50.00	0	50.00	0	50.00	0	50.00	0	50.00	0
Bromofluorobenzene			50.00	4	50.00	2	50.00	2	50.00	1	50.00	-2	50.00	-1	50.00	-2	50.00	-4

ACM 11/20/08 : All manual integrations done to correct baseline noise. Integrations by SJD.

Analyst: SJD Date: 11/19/08 Reviewer: LW Date: 11/20/08

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; QUAD=Quadratic regression

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 208592 MSVOA Water
EPA 8260B

Inst : MSVOA11 Name : 8260GX11
Calnum : 838465788001 Cal Date : 18-NOV-2008 Type : WATER

ICV 838465788025 (kke25 18-NOV-2008) stds: S10631 (10000X), S10764 (2500X)
ICV 838465788026 (kke26 18-NOV-2008) stds: S10654 (10000X), S10533 (10000X), S10788 (10000X), S10764 (2500X)

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	838465788025	0.3815	0.4395	25.00	26.88	ug/L	8	25	
Chloromethane	838465788025	0.5062	0.4121	25.00	20.36	ug/L	-19	25	
Vinyl Chloride	838465788025	0.5269	0.5934	25.00	28.16	ug/L	13	25	
Bromomethane	838465788025	0.2030	0.2034	25.00	25.05	ug/L	0	25	
Chloroethane	838465788025	0.3199	0.3052	25.00	23.85	ug/L	-5	25	
Trichlorofluoromethane	838465788025	0.5250	0.5698	25.00	27.14	ug/L	9	25	
Acetone	838465788026	0.1887	0.1845	25.00	24.44	ug/L	-2	25	
1,1-Dichloroethene	838465788026	0.3256	0.3628	25.00	27.86	ug/L	11	25	
Iodomethane	838465788026	0.3054	0.2678	25.00	21.93	ug/L	-12	25	
Methylene Chloride	838465788026	0.4279	0.4442	25.00	25.95	ug/L	4	25	
Carbon Disulfide	838465788026	1.2287	1.2655	25.00	25.75	ug/L	3	25	
MTBE	838465788026	1.3994	1.2491	25.00	22.31	ug/L	-11	25	
trans-1,2-Dichloroethene	838465788026	0.4107	0.4328	25.00	26.35	ug/L	5	25	
Vinyl Acetate	838465788026	0.8802	0.5687	25.00	16.15	ug/L	**-35**	25	v- ***
1,1-Dichloroethane	838465788026	0.7525	0.7826	25.00	26.00	ug/L	4	25	
2-Butanone	838465788026	0.1891	0.1810	25.00	23.93	ug/L	-4	25	
2,2-Dichloropropane	838465788026	0.5679	0.5826	25.00	25.65	ug/L	3	25	
cis-1,2-Dichloroethene	838465788026	0.4746	0.4862	25.00	25.61	ug/L	2	25	
Chloroform	838465788026	0.7197	0.7173	25.00	24.92	ug/L	0	25	
Bromochloromethane	838465788026	0.2169	0.2279	25.00	26.26	ug/L	5	25	
1,1,1-Trichloroethane	838465788026	0.5466	0.6065	25.00	27.74	ug/L	11	25	
1,1-Dichloropropene	838465788026	0.3239	0.3700	25.00	28.55	ug/L	14	25	
Carbon Tetrachloride	838465788026	0.2732	0.3262	25.00	29.85	ug/L	19	25	
1,2-Dichloroethane	838465788026	0.3541	0.3578	25.00	25.26	ug/L	1	25	
Benzene	838465788026	1.1564	1.1831	25.00	25.58	ug/L	2	25	
Trichloroethene	838465788026	0.2630	0.2902	25.00	27.59	ug/L	10	25	
1,2-Dichloropropane	838465788026	0.2932	0.2955	25.00	25.20	ug/L	1	25	
Bromodichloromethane	838465788026	0.3553	0.3763	25.00	26.48	ug/L	6	25	
Dibromomethane	838465788026	0.1570	0.1608	25.00	25.62	ug/L	2	25	
4-Methyl-2-Pentanone	838465788026	0.2464	0.2365	25.00	24.00	ug/L	-4	25	
cis-1,3-Dichloropropene	838465788026	0.4691	0.4669	25.00	24.88	ug/L	0	25	
Toluene	838465788026	0.6981	0.7418	25.00	26.56	ug/L	6	25	
trans-1,3-Dichloropropene	838465788026	0.4370	0.3939	25.00	22.53	ug/L	-10	25	
1,1,2-Trichloroethane	838465788026	0.1303	0.1350	25.00	25.90	ug/L	4	25	
2-Hexanone	838465788026	0.2188	0.2110	25.00	24.11	ug/L	-4	25	
1,3-Dichloropropane	838465788026	0.5548	0.5728	25.00	25.81	ug/L	3	25	
Tetrachloroethene	838465788026	0.2886	0.3441	25.00	29.81	ug/L	19	25	
Dibromochloromethane	838465788026	0.3274	0.3379	25.00	25.80	ug/L	3	25	
1,2-Dibromoethane	838465788026	0.2348	0.2482	25.00	26.44	ug/L	6	25	
Chlorobenzene	838465788026	0.9452	0.9545	25.00	25.25	ug/L	1	25	
1,1,1,2-Tetrachloroethane	838465788026	0.3177	0.3336	25.00	26.25	ug/L	5	25	
Ethylbenzene	838465788026	1.5331	1.6527	25.00	26.95	ug/L	8	25	
m,p-Xylenes	838465788026	0.6215	0.6643	50.00	53.44	ug/L	7	25	
o-Xylene	838465788026	0.6147	0.6370	25.00	25.91	ug/L	4	25	
Styrene	838465788026	1.0713	1.1031	25.00	25.74	ug/L	3	25	
Bromoform	838465788026	0.2067	0.2213	25.00	26.76	ug/L	7	25	
Isopropylbenzene	838465788026	3.1487	3.0922	25.00	24.55	ug/L	-2	25	

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	838465788026	0.7956	0.7676	25.00	24.12	ug/L	-4	25	
1,2,3-Trichloropropane	838465788026	0.8373	0.8400	25.00	25.08	ug/L	0	25	
Propylbenzene	838465788026	3.5559	3.9261	25.00	27.60	ug/L	10	25	
Bromobenzene	838465788026	0.8738	0.8960	25.00	25.63	ug/L	3	25	
1,3,5-Trimethylbenzene	838465788026	2.5146	2.7484	25.00	27.32	ug/L	9	25	
2-Chlorotoluene	838465788026	2.7003	2.8015	25.00	25.94	ug/L	4	25	
4-Chlorotoluene	838465788026	2.4377	2.5248	25.00	25.89	ug/L	4	25	
tert-Butylbenzene	838465788026	1.9871	2.2783	25.00	28.66	ug/L	15	25	
1,2,4-Trimethylbenzene	838465788026	2.3539	2.6135	25.00	27.76	ug/L	11	25	
sec-Butylbenzene	838465788026	2.7013	3.2162	25.00	29.77	ug/L	19	25	
para-Isopropyl Toluene	838465788026	2.1808	2.4776	25.00	28.40	ug/L	14	25	
1,3-Dichlorobenzene	838465788026	1.5582	1.5855	25.00	25.44	ug/L	2	25	
1,4-Dichlorobenzene	838465788026	1.6088	1.6294	25.00	25.32	ug/L	1	25	
n-Butylbenzene	838465788026	1.7157	2.0248	25.00	29.50	ug/L	18	25	
1,2-Dichlorobenzene	838465788026	1.5010	1.5462	25.00	25.75	ug/L	3	25	
1,2-Dibromo-3-Chloropropane	838465788026	0.1720	0.1662	25.00	26.01	ug/L	4	25	
1,2,4-Trichlorobenzene	838465788026	0.8244	0.8725	25.00	26.46	ug/L	6	25	
Hexachlorobutadiene	838465788026	0.2680	0.3675	25.00	34.28	ug/L	**37**	25	v+ ***
Naphthalene	838465788026	2.2611	2.4195	25.00	26.75	ug/L	7	25	
1,2,3-Trichlorobenzene	838465788026	0.7802	0.8408	25.00	26.94	ug/L	8	25	

+=high bias -=low bias v=ICV

CURTIS & TOMPKINS SPIKE USER REPORT FOR 208592 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : QC476703 IDF : 1.0
Seqnum : 458512086002.1 File : flk02 Time : 20-DEC-2008 15:04
Cal : 458468482002 Caldate : 20-NOV-2008 Caltype : WATER
Standards: S10935 (12500X), S10844 (12500X), S10798 (12500X), S10985 (12500X), S10715 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.6523	0.3446	20.00	12.05	ug/L	**-40**	20	0.0500	c- u ***
Chloromethane	0.9011	0.6889	20.00	15.29	ug/L	**-24**	20	0.1000	c- u ***
Vinyl Chloride	0.6577	0.6018	20.00	18.30	ug/L	-8	20	0.0500	u
Bromomethane	0.2767	0.3321	20.00	24.01	ug/L	20	20	0.0500	u
Chloroethane	0.3533	0.3430	20.00	19.42	ug/L	-3	20	0.0500	u
Trichlorofluoromethane	0.7181	0.7151	20.00	21.49	ug/L	7	20	0.0500	u
Iodomethane	0.3604	0.5706	20.00	22.77	ug/L	14	20	0.0500	u v- ***
Acetone	0.3229	0.2277	20.00	14.11	ug/L	**-29**	20	0.0500	c- u ***
1,1-Dichloroethene	0.5342	0.5548	20.00	20.77	ug/L	4	20	0.0500	u
Methylene Chloride	0.7329	0.7102	20.00	19.38	ug/L	-3	20	0.0500	u
Carbon Disulfide	2.0736	2.1060	20.00	20.31	ug/L	2	20	0.0500	u
MTBE	1.9089	1.5941	20.00	16.70	ug/L	-16	20	0.0500	u
trans-1,2-Dichloroethene	0.6155	0.6404	20.00	20.81	ug/L	4	20	0.0500	u
Vinyl Acetate	1.3534	1.0859	20.00	16.05	ug/L	-20	20	0.0500	u v- ***
1,1-Dichloroethane	1.2098	1.1371	20.00	18.80	ug/L	-6	20	0.1000	u
2-Butanone	0.4254	0.3343	20.00	15.72	ug/L	**-21**	20	0.0500	c- u ***
cis-1,2-Dichloroethene	0.7100	0.7081	20.00	19.95	ug/L	0	20	0.0500	u
2,2-Dichloropropane	0.6696	0.7619	20.00	22.76	ug/L	14	20	0.0500	u
Chloroform	1.0978	1.0367	20.00	18.89	ug/L	-6	20	0.0500	u
Bromochloromethane	0.4218	0.4021	20.00	19.07	ug/L	-5	20	0.0500	u
1,1,1-Trichloroethane	0.6692	0.6983	20.00	20.87	ug/L	4	20	0.0500	u
1,1-Dichloropropene	0.4415	0.4463	20.00	20.22	ug/L	1	20	0.0500	u
Carbon Tetrachloride	0.3589	0.3878	20.00	21.61	ug/L	8	20	0.0500	u
1,2-Dichloroethane	0.4747	0.4621	20.00	19.47	ug/L	-3	20	0.0500	u
Benzene	1.4989	1.4016	20.00	18.70	ug/L	-6	20	0.0500	u
Trichloroethene	0.3658	0.3521	20.00	19.25	ug/L	-4	20	0.0500	u
1,2-Dichloropropane	0.4456	0.4109	20.00	18.44	ug/L	-8	20	0.0500	u
Bromodichloromethane	0.4986	0.4793	20.00	19.22	ug/L	-4	20	0.0500	u
Dibromomethane	0.2907	0.2888	20.00	19.87	ug/L	-1	20	0.0500	u
4-Methyl-2-Pentanone	0.4957	0.4183	20.00	16.88	ug/L	-16	20	0.0500	u
cis-1,3-Dichloropropene	0.6508	0.6189	20.00	19.02	ug/L	-5	20	0.0500	u
Toluene	0.8473	0.8452	20.00	19.95	ug/L	0	20	0.0500	u
trans-1,3-Dichloropropene	0.5704	0.4890	20.00	17.15	ug/L	-14	20	0.0500	u
1,1,2-Trichloroethane	0.2089	0.2029	20.00	19.43	ug/L	-3	20	0.0500	u
2-Hexanone	0.4156	0.3366	20.00	16.20	ug/L	-19	20	0.0500	u
1,3-Dichloropropane	0.7506	0.7259	20.00	19.34	ug/L	-3	20	0.0500	u
Tetrachloroethene	0.4188	0.4174	20.00	19.93	ug/L	0	20	0.0500	u
Dibromochloromethane	0.5668	0.5166	20.00	18.23	ug/L	-9	20	0.0500	u
1,2-Dibromoethane	0.4360	0.4302	20.00	19.74	ug/L	-1	20	0.0500	u
Chlorobenzene	1.2382	1.1723	20.00	18.94	ug/L	-5	20	0.3000	u
1,1,1,2-Tetrachloroethane	0.4469	0.4171	20.00	18.66	ug/L	-7	20	0.0500	u
Ethylbenzene	1.7693	1.6456	20.00	18.60	ug/L	-7	20	0.0500	u
m,p-Xylenes	0.6799	0.6573	40.00	38.67	ug/L	-3	20	0.0500	u
o-Xylene	0.7208	0.6900	20.00	19.14	ug/L	-4	20	0.0500	u
Styrene	1.2406	1.1862	20.00	19.12	ug/L	-4	20	0.0500	u
Bromoform	0.4043	0.3798	20.00	18.79	ug/L	-6	20	0.1000	u
Isopropylbenzene	3.0374	2.8697	20.00	18.90	ug/L	-6	20	0.0500	u

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	1.2619	1.2564	20.00	19.91	ug/L	0	20	0.3000	u
1,2,3-Trichloropropane	0.9814	0.9339	20.00	19.03	ug/L	-5	20	0.0500	u
Propylbenzene	3.5323	3.8721	20.00	21.92	ug/L	10	20	0.0500	u
Bromobenzene	1.1030	1.1206	20.00	20.32	ug/L	2	20	0.0500	u
1,3,5-Trimethylbenzene	2.4404	2.5794	20.00	21.14	ug/L	6	20	0.0500	u
2-Chlorotoluene	2.5264	2.5426	20.00	20.13	ug/L	1	20	0.0500	u
4-Chlorotoluene	2.4576	2.3642	20.00	19.24	ug/L	-4	20	0.0500	u
tert-Butylbenzene	2.0871	2.0936	20.00	20.06	ug/L	0	20	0.0500	u
1,2,4-Trimethylbenzene	2.5473	2.6779	20.00	21.03	ug/L	5	20	0.0500	u
sec-Butylbenzene	2.8803	3.3460	20.00	23.23	ug/L	16	20	0.0500	u
para-Isopropyl Toluene	2.4577	2.6088	20.00	21.23	ug/L	6	20	0.0500	u
1,3-Dichlorobenzene	1.8598	1.7095	20.00	18.38	ug/L	-8	20	0.0500	u
1,4-Dichlorobenzene	1.9095	1.7377	20.00	18.20	ug/L	-9	20	0.0500	u
n-Butylbenzene	2.0653	2.3302	20.00	22.57	ug/L	13	20	0.0500	u
1,2-Dichlorobenzene	1.7718	1.7041	20.00	19.24	ug/L	-4	20	0.0500	u
1,2-Dibromo-3-Chloropropane	0.1927	0.1719	20.00	17.85	ug/L	-11	20	0.0500	u
1,2,4-Trichlorobenzene	0.9719	0.9388	20.00	19.32	ug/L	-3	20	0.0500	u
Hexachlorobutadiene	0.3550	0.4435	20.00	24.99	ug/L	**25**	20	0.0500	c+ u ***
Naphthalene	2.7758	2.5806	20.00	18.59	ug/L	-7	20	0.0500	u
1,2,3-Trichlorobenzene	0.9151	0.8759	20.00	19.14	ug/L	-4	20	0.0500	u
Dibromofluoromethane	0.6018	0.5807	50.00	48.24	ug/L	-4	20	0.0500	u
1,2-Dichloroethane-d4	0.3170	0.3100	50.00	48.89	ug/L	-2	20	0.0500	u
Toluene-d8	1.0007	0.9757	50.00	48.75	ug/L	-2	20	0.0500	u
Bromofluorobenzene	0.9921	0.9815	50.00	49.47	ug/L	-1	20	0.0500	u

ISTD (ICAL fkk25)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	811980	993714	22.38	12.82	12.81	-0.01
1,4-Difluorobenzene	1320025	1638224	24.11	14.16	14.15	-0.01
Chlorobenzene-d5	1182141	1387839	17.40	18.69	18.68	-0.01
1,4-Dichlorobenzene-d4	596162	672540	12.81	21.48	21.47	-0.01

Analyst: MJD Date: 12/23/08 Reviewer: CW Date: 12/23/08

+=high bias -=low bias c=CCV u=use v=ICV

CURTIS & TOMPKINS SPIKE USER REPORT FOR 208592 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : QC476750 IDF : 1.0
Seqnum : 458513343003.5 File : fll03 Time : 21-DEC-2008 12:48
Cal : 458468482002 Caldate : 20-NOV-2008 Caltype : WATER
Standards: S10935 (10000X), S10844 (10000X), S10798 (10000X), S10985 (10000X), S10715 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.6523	0.4234	25.00	18.09	ug/L	**-28**	20	0.0500	c- u ***
Chloromethane	0.9011	0.7957	25.00	22.07	ug/L	-12	20	0.1000	u
Vinyl Chloride	0.6577	0.7539	25.00	28.66	ug/L	15	20	0.0500	u
Bromomethane	0.2767	0.3509	25.00	31.71	ug/L	**27**	20	0.0500	c+ u ***
Chloroethane	0.3533	0.3713	25.00	26.28	ug/L	5	20	0.0500	u
Trichlorofluoromethane	0.7181	0.8092	25.00	29.54	ug/L	18	20	0.0500	u
Iodomethane	0.3604	0.8034	25.00	35.97	ug/L	**44**	20	0.0500	?curve- c+ u v- ***
Acetone	0.3229	0.2694	25.00	20.86	ug/L	-17	20	0.0500	u
1,1-Dichloroethene	0.5342	0.6285	25.00	29.41	ug/L	18	20	0.0500	u
Methylene Chloride	0.7329	0.7761	25.00	26.47	ug/L	6	20	0.0500	u
Carbon Disulfide	2.0736	2.2676	25.00	27.34	ug/L	9	20	0.0500	u
MTBE	1.9089	1.6786	25.00	21.98	ug/L	-12	20	0.0500	u
trans-1,2-Dichloroethene	0.6155	0.6884	25.00	27.96	ug/L	12	20	0.0500	u
Vinyl Acetate	1.3534	1.0763	25.00	19.88	ug/L	-20	20	0.0500	u v- ***
1,1-Dichloroethane	1.2098	1.2607	25.00	26.05	ug/L	4	20	0.1000	u
2-Butanone	0.4254	0.3855	25.00	22.65	ug/L	-9	20	0.0500	u
cis-1,2-Dichloroethene	0.7100	0.7498	25.00	26.40	ug/L	6	20	0.0500	u
2,2-Dichloropropane	0.6696	0.8454	25.00	31.56	ug/L	**26**	20	0.0500	c+ u ***
Chloroform	1.0978	1.1080	25.00	25.23	ug/L	1	20	0.0500	u
Bromochloromethane	0.4218	0.4116	25.00	24.40	ug/L	-2	20	0.0500	u
1,1,1-Trichloroethane	0.6692	0.7780	25.00	29.07	ug/L	16	20	0.0500	u
1,1-Dichloropropene	0.4415	0.4904	25.00	27.77	ug/L	11	20	0.0500	u
Carbon Tetrachloride	0.3589	0.4017	25.00	27.98	ug/L	12	20	0.0500	u
1,2-Dichloroethane	0.4747	0.4722	25.00	24.87	ug/L	-1	20	0.0500	u
Benzene	1.4989	1.5547	25.00	25.93	ug/L	4	20	0.0500	u
Trichloroethene	0.3658	0.3785	25.00	25.87	ug/L	3	20	0.0500	u
1,2-Dichloropropane	0.4456	0.4407	25.00	24.73	ug/L	-1	20	0.0500	u
Bromodichloromethane	0.4986	0.5076	25.00	25.45	ug/L	2	20	0.0500	u
Dibromomethane	0.2907	0.3051	25.00	26.24	ug/L	5	20	0.0500	u
4-Methyl-2-Pentanone	0.4957	0.4359	25.00	21.99	ug/L	-12	20	0.0500	u
cis-1,3-Dichloropropene	0.6508	0.6544	25.00	25.14	ug/L	1	20	0.0500	u
Toluene	0.8473	0.8440	25.00	24.90	ug/L	0	20	0.0500	u
trans-1,3-Dichloropropene	0.5704	0.4990	25.00	21.87	ug/L	-13	20	0.0500	u
1,1,2-Trichloroethane	0.2089	0.2167	25.00	25.94	ug/L	4	20	0.0500	u
2-Hexanone	0.4156	0.3567	25.00	21.46	ug/L	-14	20	0.0500	u
1,3-Dichloropropane	0.7506	0.7154	25.00	23.83	ug/L	-5	20	0.0500	u
Tetrachloroethene	0.4188	0.4468	25.00	26.68	ug/L	7	20	0.0500	u
Dibromochloromethane	0.5668	0.5378	25.00	23.72	ug/L	-5	20	0.0500	u
1,2-Dibromoethane	0.4360	0.4390	25.00	25.17	ug/L	1	20	0.0500	u
Chlorobenzene	1.2382	1.1421	25.00	23.06	ug/L	-8	20	0.3000	u
1,1,1,2-Tetrachloroethane	0.4469	0.4289	25.00	23.99	ug/L	-4	20	0.0500	u
Ethylbenzene	1.7693	1.7790	25.00	25.14	ug/L	1	20	0.0500	u
m,p-Xylenes	0.6799	0.7060	50.00	51.92	ug/L	4	20	0.0500	u
o-Xylene	0.7208	0.6982	25.00	24.22	ug/L	-3	20	0.0500	u
Styrene	1.2406	1.2352	25.00	24.89	ug/L	0	20	0.0500	u
Bromoform	0.4043	0.4067	25.00	25.15	ug/L	1	20	0.1000	u
Isopropylbenzene	3.0374	2.9652	25.00	24.41	ug/L	-2	20	0.0500	u

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	1.2619	1.2829	25.00	25.42	ug/L	2	20	0.3000	u
1,2,3-Trichloropropane	0.9814	0.9672	25.00	24.64	ug/L	-1	20	0.0500	u
Propylbenzene	3.5323	3.8355	25.00	27.15	ug/L	9	20	0.0500	u
Bromobenzene	1.1030	1.1021	25.00	24.98	ug/L	0	20	0.0500	u
1,3,5-Trimethylbenzene	2.4404	2.5924	25.00	26.56	ug/L	6	20	0.0500	u
2-Chlorotoluene	2.5264	2.5969	25.00	25.70	ug/L	3	20	0.0500	u
4-Chlorotoluene	2.4576	2.4733	25.00	25.16	ug/L	1	20	0.0500	u
tert-Butylbenzene	2.0871	2.2785	25.00	27.29	ug/L	9	20	0.0500	u
1,2,4-Trimethylbenzene	2.5473	2.7728	25.00	27.21	ug/L	9	20	0.0500	u
sec-Butylbenzene	2.8803	3.4415	25.00	29.87	ug/L	19	20	0.0500	u
para-Isopropyl Toluene	2.4577	2.6374	25.00	26.83	ug/L	7	20	0.0500	u
1,3-Dichlorobenzene	1.8598	1.7872	25.00	24.02	ug/L	-4	20	0.0500	u
1,4-Dichlorobenzene	1.9095	1.9223	25.00	25.17	ug/L	1	20	0.0500	u
n-Butylbenzene	2.0653	2.4142	25.00	29.22	ug/L	17	20	0.0500	u
1,2-Dichlorobenzene	1.7718	1.8073	25.00	25.50	ug/L	2	20	0.0500	u
1,2-Dibromo-3-Chloropropane	0.1927	0.1830	25.00	23.74	ug/L	-5	20	0.0500	u
1,2,4-Trichlorobenzene	0.9719	0.9689	25.00	24.92	ug/L	0	20	0.0500	u
Hexachlorobutadiene	0.3550	0.4177	25.00	29.42	ug/L	18	20	0.0500	u
Naphthalene	2.7758	2.7207	25.00	24.50	ug/L	-2	20	0.0500	u
1,2,3-Trichlorobenzene	0.9151	0.9006	25.00	24.60	ug/L	-2	20	0.0500	u
Dibromofluoromethane	0.6018	0.6113	50.00	50.79	ug/L	2	20	0.0500	u
1,2-Dichloroethane-d4	0.3170	0.3234	50.00	51.01	ug/L	2	20	0.0500	u
Toluene-d8	1.0007	1.0158	50.00	50.76	ug/L	2	20	0.0500	u
Bromofluorobenzene	0.9921	0.9837	50.00	49.58	ug/L	-1	20	0.0500	u

ISTD (ICAL fkk25)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	811980	935571	15.22	12.82	12.82	0.00
1,4-Difluorobenzene	1320025	1582513	19.89	14.16	14.17	0.01
Chlorobenzene-d5	1182141	1358582	14.93	18.69	18.70	0.02
1,4-Dichlorobenzene-d4	596162	673029	12.89	21.48	21.48	0.00

LW 12/22/08 [Iodomethane]: Fails even higher without the curve bias. [general version]

Analyst: MJD Date: 12/23/08 Reviewer: CW Date: 12/23/08

+=high bias -=low bias ?curve=check curve c=CCV u=use v=ICV

CURTIS & TOMPKINS SPIKE USER REPORT FOR 208592 MSVOA Water
EPA 8260B

Inst : MSVOA11 Run Name : QC476778 IDF : 1.0
Seqnum : 838514519006.8 File : klm06 Time : 22-DEC-2008 09:57
Cal : 838465788001 Caldate : 18-NOV-2008 Caltype : WATER
Standards: S10844 (10000X), S10935 (10000X), S10798 (10000X), S10985 (10000X), S10764 (2500X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.3815	0.5149	25.00	31.39	ug/L	**26**	20	0.0500	c+ u ***
Chloromethane	0.5062	0.4210	25.00	20.79	ug/L	-17	20	0.1000	u
Vinyl Chloride	0.5269	0.5648	25.00	26.80	ug/L	7	20	0.0500	u
Bromomethane	0.2030	0.1908	25.00	23.50	ug/L	-6	20	0.0500	u
Chloroethane	0.3199	0.3421	25.00	26.74	ug/L	7	20	0.0500	u
Trichlorofluoromethane	0.5250	0.7073	25.00	33.68	ug/L	**35**	20	0.0500	c+ u ***
Iodomethane	0.3054	0.2030	25.00	16.62	ug/L	**-34**	20	0.0500	c- u ***
Acetone	0.1887	0.2026	25.00	26.84	ug/L	7	20	0.0500	u
1,1-Dichloroethene	0.3256	0.3604	25.00	27.67	ug/L	11	20	0.0500	u
Methylene Chloride	0.4279	0.4875	25.00	28.48	ug/L	14	20	0.0500	u
Carbon Disulfide	1.2287	1.1848	25.00	24.11	ug/L	-4	20	0.0500	u
MTBE	1.3994	1.4933	25.00	26.68	ug/L	7	20	0.0500	u
trans-1,2-Dichloroethene	0.4107	0.4436	25.00	27.00	ug/L	8	20	0.0500	u
Vinyl Acetate	0.8802	0.6728	25.00	19.11	ug/L	**-24**	20	0.0500	c- u v- ***
1,1-Dichloroethane	0.7525	0.8318	25.00	27.63	ug/L	11	20	0.1000	u
2-Butanone	0.1891	0.1898	25.00	25.09	ug/L	0	20	0.0500	u
cis-1,2-Dichloroethene	0.4746	0.5324	25.00	28.05	ug/L	12	20	0.0500	u
2,2-Dichloropropane	0.5679	0.7149	25.00	31.47	ug/L	**26**	20	0.0500	c+ u ***
Chloroform	0.7197	0.8420	25.00	29.25	ug/L	17	20	0.0500	u
Bromochloromethane	0.2169	0.2407	25.00	27.74	ug/L	11	20	0.0500	u
1,1,1-Trichloroethane	0.5466	0.7160	25.00	32.75	ug/L	**31**	20	0.0500	c+ u ***
1,1-Dichloropropene	0.3239	0.3785	25.00	29.21	ug/L	17	20	0.0500	u
Carbon Tetrachloride	0.2732	0.3783	25.00	34.62	ug/L	**38**	20	0.0500	c+ u ***
1,2-Dichloroethane	0.3541	0.4062	25.00	28.68	ug/L	15	20	0.0500	u
Benzene	1.1564	1.1994	25.00	25.93	ug/L	4	20	0.0500	u
Trichloroethene	0.2630	0.3052	25.00	29.02	ug/L	16	20	0.0500	u
1,2-Dichloropropane	0.2932	0.3125	25.00	26.65	ug/L	7	20	0.0500	u
Bromodichloromethane	0.3553	0.4276	25.00	30.09	ug/L	20	20	0.0500	u
Dibromomethane	0.1570	0.1834	25.00	29.21	ug/L	17	20	0.0500	u
4-Methyl-2-Pentanone	0.2464	0.2374	25.00	24.09	ug/L	-4	20	0.0500	u
cis-1,3-Dichloropropene	0.4691	0.5267	25.00	28.07	ug/L	12	20	0.0500	u
Toluene	0.6981	0.7857	25.00	28.13	ug/L	13	20	0.0500	u
trans-1,3-Dichloropropene	0.4370	0.4454	25.00	25.48	ug/L	2	20	0.0500	u
1,1,2-Trichloroethane	0.1303	0.1526	25.00	29.26	ug/L	17	20	0.0500	u
2-Hexanone	0.2188	0.1801	25.00	20.58	ug/L	-18	20	0.0500	u
1,3-Dichloropropane	0.5548	0.5582	25.00	25.16	ug/L	1	20	0.0500	u
Tetrachloroethene	0.2886	0.3241	25.00	28.08	ug/L	12	20	0.0500	u
Dibromochloromethane	0.3274	0.3360	25.00	25.66	ug/L	3	20	0.0500	u
1,2-Dibromoethane	0.2348	0.2886	25.00	30.74	ug/L	**23**	20	0.0500	c+ u ***
Chlorobenzene	0.9452	0.9250	25.00	24.47	ug/L	-2	20	0.3000	u
1,1,1,2-Tetrachloroethane	0.3177	0.3345	25.00	26.32	ug/L	5	20	0.0500	u
Ethylbenzene	1.5331	1.6140	25.00	26.32	ug/L	5	20	0.0500	u
m,p-Xylenes	0.6215	0.6264	50.00	50.39	ug/L	1	20	0.0500	u
o-Xylene	0.6147	0.6113	25.00	24.86	ug/L	-1	20	0.0500	u
Styrene	1.0713	1.0304	25.00	24.05	ug/L	-4	20	0.0500	u
Bromoform	0.2067	0.2243	25.00	27.13	ug/L	9	20	0.1000	u
Isopropylbenzene	3.1487	2.9032	25.00	23.05	ug/L	-8	20	0.0500	u

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	0.7956	0.7648	25.00	24.03	ug/L	-4	20	0.3000	u
1,2,3-Trichloropropane	0.8373	0.7937	25.00	23.70	ug/L	-5	20	0.0500	u
Propylbenzene	3.5559	3.5208	25.00	24.75	ug/L	-1	20	0.0500	u
Bromobenzene	0.8738	0.8530	25.00	24.40	ug/L	-2	20	0.0500	u
1,3,5-Trimethylbenzene	2.5146	2.4372	25.00	24.23	ug/L	-3	20	0.0500	u
2-Chlorotoluene	2.7003	2.6492	25.00	24.53	ug/L	-2	20	0.0500	u
4-Chlorotoluene	2.4377	2.3528	25.00	24.13	ug/L	-3	20	0.0500	u
tert-Butylbenzene	1.9871	1.9959	25.00	25.11	ug/L	0	20	0.0500	u
1,2,4-Trimethylbenzene	2.3539	2.2995	25.00	24.42	ug/L	-2	20	0.0500	u
sec-Butylbenzene	2.7013	2.7565	25.00	25.51	ug/L	2	20	0.0500	u
para-Isopropyl Toluene	2.1808	2.0952	25.00	24.02	ug/L	-4	20	0.0500	u
1,3-Dichlorobenzene	1.5582	1.5314	25.00	24.57	ug/L	-2	20	0.0500	u
1,4-Dichlorobenzene	1.6088	1.5465	25.00	24.03	ug/L	-4	20	0.0500	u
n-Butylbenzene	1.7157	1.8165	25.00	26.47	ug/L	6	20	0.0500	u
1,2-Dichlorobenzene	1.5010	1.4970	25.00	24.93	ug/L	0	20	0.0500	u
1,2-Dibromo-3-Chloropropane	0.1720	0.1494	25.00	23.23	ug/L	-7	20	0.0500	u
1,2,4-Trichlorobenzene	0.8244	0.8056	25.00	24.43	ug/L	-2	20	0.0500	u
Hexachlorobutadiene	0.2680	0.3915	25.00	36.52	ug/L	**46**	20	0.0500	c+ u v+ ***
Naphthalene	2.2611	2.0954	25.00	23.17	ug/L	-7	20	0.0500	u
1,2,3-Trichlorobenzene	0.7802	0.7681	25.00	24.61	ug/L	-2	20	0.0500	u
Dibromofluoromethane	0.4215	0.4611	50.00	54.70	ug/L	9	20	0.0500	u
1,2-Dichloroethane-d4	0.3281	0.3398	50.00	51.79	ug/L	4	20	0.0500	u
Toluene-d8	1.1648	1.2052	50.00	51.73	ug/L	3	20	0.0500	u
Bromofluorobenzene	1.1133	1.0933	50.00	49.10	ug/L	-2	20	0.0500	u

ISTD (ICAL kke22)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	857785	769443	-10.30	9.71	9.71	0.00
1,4-Difluorobenzene	1338370	1245749	-6.92	10.77	10.77	0.00
Chlorobenzene-d5	1081801	1190201	10.02	14.32	14.32	0.00
1,4-Dichlorobenzene-d4	483101	564397	16.83	16.76	16.75	-0.01

5% spike rule

Analyst: MJD Date: 12/23/08 Reviewer: CW Date: 12/23/08

+=high bias -=low bias c=CCV u=use v=ICV

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 458512086

Date : 12/20/08 Reference : fkk25
Sequence : MSVOA06 flk Analyzed : 11/20/08 22:19

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	811980	12.82	1320025	14.16	1182141	18.69	596162	21.48
		LOWER LIMIT	405990	12.32	660013	13.66	591071	18.19	298081	20.98
		UPPER LIMIT	1623960	13.32	2640050	14.66	2364282	19.19	1192324	21.98
002	CCV/BS	QC476703	993714	12.81	1638224	14.15	1387839	18.68	672540	21.47
003	BSD	QC476704	941331	12.81	1640965	14.15	1419260	18.68	669466	21.47
005	BLANK	QC476705	940205	12.81	1579707	14.15	1339035	18.68	642418	21.47
006	SAMPLE	208644-006	895775	12.81	1574752	14.15	1337990	18.68	654647	21.47
007	SAMPLE	208644-007	905942	12.81	1577220	14.15	1310488	18.68	685319	21.47
008	SAMPLE	208644-008	914552	12.81	1558449	14.15	1319983	18.68	641617	21.47
009	SAMPLE	208644-009	885506	12.81	1545671	14.15	1319493	18.68	645728	21.48
010	SAMPLE	208644-004	860349	12.81	1517136	14.15	1258194	18.68	667610	21.47
011	SAMPLE	208644-005	920936	12.81	1461554	14.15	1274308	18.68	630080	21.48
012	SAMPLE	208709-001	932809	12.81	1479372	14.15	1311235	18.68	621685	21.48
013	SAMPLE	208592-001	891602	12.81	1452001	14.15	1212752	18.68	608340	21.47
014	SAMPLE	208592-002	839464	12.81	1440458	14.15	1206119	18.68	633995	21.47
015	SAMPLE	208592-003	879321	12.81	1499892	14.16	1238306	18.68	641853	21.48
016	SAMPLE	208592-004	839711	12.81	1455034	14.15	1235223	18.68	617820	21.48
017	SAMPLE	208592-005	834932	12.81	1385947	14.15	1235793	18.68	607288	21.47
018	SAMPLE	208592-006	857313	12.81	1468026	14.16	1277417	18.68	630320	21.48
019	SAMPLE	208592-007	843374	12.82	1513858	14.15	1280416	18.68	654267	21.47
020	SAMPLE	208592-008	885710	12.81	1497639	14.15	1303333	18.68	634587	21.47
021	SAMPLE	208592-009	900874	12.81	1478769	14.15	1310898	18.68	621129	21.47
022	SAMPLE	208592-010	923115	12.81	1592006	14.15	1317654	18.69	635849	21.47

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 458513343

Date : 12/21/08 Reference : fkk25
Sequence : MSVOA06 fll Analyzed : 11/20/08 22:19

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	811980	12.82	1320025	14.16	1182141	18.69	596162	21.48
		LOWER LIMIT	405990	12.32	660013	13.66	591071	18.19	298081	20.98
		UPPER LIMIT	1623960	13.32	2640050	14.66	2364282	19.19	1192324	21.98
003	CCV/BS	QC476750	935571	12.82	1582513	14.17	1358582	18.70	673029	21.48
004	BSD	QC476751	945821	12.84	1548195	14.18	1372177	18.70	675161	21.49
006	BLANK	QC476749	921676	12.83	1579718	14.17	1321100	18.70	667329	21.49
007	SAMPLE	208715-005	902310	12.84	1547450	14.18	1297472	18.69	674320	21.49
008	SAMPLE	208709-002	977775	12.84	1630837	14.18	1358211	18.70	685944	21.49
009	SAMPLE	208709-008	950539	12.84	1561705	14.18	1354417	18.70	685288	21.49
010	SAMPLE	208709-009	905400	12.84	1539438	14.18	1315733	18.70	651063	21.49
011	SAMPLE	208709-011	907592	12.84	1578131	14.19	1344618	18.70	661367	21.50
012	SAMPLE	208709-012	906446	12.84	1527462	14.18	1262331	18.71	646425	21.49
013	SAMPLE	208709-013	911355	12.84	1498235	14.18	1284089	18.70	656297	21.49
014	SAMPLE	208709-014	906767	12.84	1527114	14.18	1289920	18.70	659807	21.49
015	SAMPLE	208541-002	962223	12.85	1532214	14.19	1291374	18.70	630178	21.50
016	SAMPLE	208541-003	890088	12.85	1539976	14.19	1301987	18.70	627083	21.50
017	SAMPLE	208709-004	884177	12.85	1515045	14.19	1271898	18.71	645643	21.50
018	SAMPLE	208592-010	916264	12.84	1546168	14.18	1344115	18.70	666974	21.49
019	SAMPLE	208649-003	941867	12.85	1554018	14.19	1317428	18.70	669583	21.50
020	SAMPLE	208709-010	903436	12.85	1562654	14.19	1285645	18.70	675466	21.50
021	SAMPLE	208639-002	963177	12.84	1574189	14.18	1365254	18.71	685213	21.49
022	SAMPLE	208674-004	886715	12.84	1541430	14.18	1318834	18.70	679905	21.50
023	SAMPLE	208674-005	890184	12.85	1530765	14.19	1297462	18.71	661228	21.50

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 838514519

Date : 12/22/08 Reference : kke22
Sequence : MSVOA11 klm Analyzed : 11/18/08 21:04

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	857785	9.71	1338370	10.77	1081801	14.32	483101	16.76
		LOWER LIMIT	428893	9.21	669185	10.27	540901	13.82	241551	16.26
		UPPER LIMIT	1715570	10.21	2676740	11.27	2163602	14.82	966202	17.26
006	CCV/LCS	QC476778	769443	9.71	1245749	10.77	1190201	14.32	564397	16.75
008	BLANK	QC476779	762784	9.71	1252516	10.77	1195573	14.32	472309	16.75
009	SAMPLE	208700-001	743928	9.71	1248563	10.77	1177985	14.32	469944	16.75
010	SAMPLE	208561-003	745881	9.71	1247736	10.77	1181710	14.32	466483	16.75
011	SAMPLE	208562-018	737779	9.71	1246016	10.77	1173721	14.32	459875	16.75
012	SAMPLE	208654-005	728009	9.71	1217642	10.76	1144147	14.32	451429	16.75
013	SAMPLE	208789-003	730605	9.71	1216711	10.76	1144117	14.31	455723	16.75
014	MSS	208790-001	714249	9.71	1191325	10.77	1129546	14.32	445746	16.75
015	SAMPLE	208790-002	707289	9.71	1185697	10.77	1119546	14.32	434892	16.75
016	SAMPLE	208576-009	697121	9.71	1168495	10.77	1106324	14.32	444233	16.75
017	SAMPLE	208789-001	685396	9.71	1153414	10.77	1102165	14.32	432643	16.75
018	SAMPLE	208789-002	680193	9.71	1137429	10.77	1083516	14.32	421852	16.75
019	SAMPLE	208681-001	664938	9.71	1115646	10.77	1076066	14.32	412063	16.75
020	SAMPLE	208681-002	655185	9.71	1104868	10.77	1065345	14.32	421869	16.75
021	SAMPLE	208681-003	660593	9.71	1124766	10.77	1078521	14.31	423459	16.75
022	SAMPLE	208708-001	651809	9.71	1094218	10.77	1037463	14.31	416930	16.75
023	SAMPLE	208708-002	652053	9.71	1096046	10.77	1048786	14.32	426857	16.75
024	SAMPLE	208708-003	647886	9.71	1083938	10.77	1035755	14.32	410287	16.75
025	SAMPLE	208592-009	639237	9.71	1073049	10.77	1021724	14.32	416156	16.75
026	SAMPLE	208708-004	652177	9.71	1080286	10.77	1019729	14.32	397685	16.75
027	SAMPLE	208709-010	648975	9.71	1100076	10.77	1071863	14.32	448209	16.75
028	MS	QC476863	697076	9.71	1146877	10.77	1108787	14.32	531882	16.75
029	MSD	QC476864	723196	9.71	1188521	10.77	1146961	14.31	540930	16.75

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 458468482

Instrument : MSVOA06 Begun : 11/20/08 08:02
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	fkk01	X	IB			11/20/08 08:02	1.0	1	
002	fkk02	X	BFB			11/20/08 08:57	1.0	2	
003	fkk03	X	20PPB			11/20/08 09:14	1.0	3 4 5 6 1	
004	fkk04	X	BFB			11/20/08 10:48	1.0	2	
005	fkk05	X	20PPB			11/20/08 11:04	1.0	3 4 5 6 1	
006	fkk06	X	BFB			11/20/08 11:44	1.0	2	
007	fkk07	X	BFB			11/20/08 11:56	1.0	2	
008	fkk08	X	20PPB			11/20/08 12:13	1.0	3 4 5 6 1	
009	fkk09	X	BFB			11/20/08 13:19	1.0	2	
010	fkk10	X	20PPB			11/20/08 13:36	1.0	3 4 5 6 1	
011	fkk11	X	IB			11/20/08 14:29	1.0	1	
012	fkk12	X	IB			11/20/08 15:03	1.0	1	
013	fkk13	X	LOW PT			11/20/08 15:37	1.0	1	
014	fkk14	TUN	BFB			11/20/08 16:09	1.0	2	
015	fkk15	X	IB			11/20/08 16:38	1.0	1	
016	fkk16	X	IB			11/20/08 17:12	1.0	1	
017	fkk17	X	IB			11/20/08 17:46	1.0	1	
018	fkk18	IB	CALIB			11/20/08 18:20	1.0	1	
019	fkk19	ICAL	0.25PPB			11/20/08 18:54	1.0	3 4 7 6 1	
020	fkk20	ICAL	0.5PPB			11/20/08 19:28	1.0	3 4 7 6 1	
021	fkk21	ICAL	2PPB			11/20/08 20:02	1.0	3 4 7 6 1	
022	fkk22	ICAL	5PPB			11/20/08 20:36	1.0	3 4 7 6 1	
023	fkk23	ICAL	10PPB			11/20/08 21:11	1.0	3 4 7 6 1	
024	fkk24	ICAL	20PPB			11/20/08 21:45	1.0	3 4 7 6 1	
025	fkk25	ICAL	50PPB			11/20/08 22:19	1.0	3 4 7 6 1	
026	fkk26	ICAL	75PPB			11/20/08 22:53	1.0	3 4 7 6 1	
027	fkk27	ICAL	100PPB			11/20/08 23:28	1.0	3 4 7 6 1	
028	fkk28	ICV	ICVGAS25PPB			11/21/08 00:02	1.0	8 1	
029	fkk29	ICV	ICV25PPB			11/21/08 00:36	1.0	9 10 11 1	
030	fkk30	X	IB			11/21/08 01:10	1.0	1	
031	fkk31	X	IB			11/21/08 01:45	1.0	1	
032	fkk32	X	IB			11/21/08 02:19	1.0	1	

BO 11/21/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 32.

BO 11/21/08 : fkk14, maximum sensitivity autotune

Analyst: BO Date: 11/21/08 Reviewer: ACM Date: 11/21/08

Standards used: 1=S10447 2=S9454 3=S10756 4=S10619 5=S10355 6=S9073 7=S10653 8=S10631 9=S10654 10=S10798 11=S10788

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CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 458512086

Instrument : MSVOA06 Begun : 12/20/08 14:46
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	flk01	TUN	BFB			12/20/08 14:46	1.0	1	
002	flk02	CCV/BS	QC476703	Water	146297	12/20/08 15:04	1.0	2 3 4 5 6	
003	flk03	BSD	QC476704	Water	146297	12/20/08 15:38	1.0	2 3 4 5 6	
004	flk04	X	IB			12/20/08 16:12	1.0	6	
005	flk05	BLANK	QC476705	Water	146297	12/20/08 16:46	1.0	6	
006	flk06	SAMPLE	208644-006	Water	146297	12/20/08 17:20	1.0	6	
007	flk07	SAMPLE	208644-007	Water	146297	12/20/08 17:54	1.0	6	
008	flk08	SAMPLE	208644-008	Water	146297	12/20/08 18:29	1.0	6	
009	flk09	SAMPLE	208644-009	Water	146297	12/20/08 19:03	1.0	6	
010	flk10	SAMPLE	208644-004	Water	146297	12/20/08 19:37	1.0	6	
011	flk11	SAMPLE	208644-005	Water	146297	12/20/08 20:12	1.0	6	headspace <= 1 mL
012	flk12	SAMPLE	208709-001	Water	146297	12/20/08 20:46	1.0	6	
013	flk13	SAMPLE	208592-001	Water	146297	12/20/08 21:20	1.0	6	
014	flk14	SAMPLE	208592-002	Water	146297	12/20/08 21:55	1.0	6	
015	flk15	SAMPLE	208592-003	Water	146297	12/20/08 22:29	1.0	6	
016	flk16	SAMPLE	208592-004	Water	146297	12/20/08 23:04	1.0	6	
017	flk17	SAMPLE	208592-005	Water	146297	12/20/08 23:38	1.0	6	
018	flk18	SAMPLE	208592-006	Water	146297	12/21/08 00:13	1.0	6	
019	flk19	SAMPLE	208592-007	Water	146297	12/21/08 00:47	1.0	6	
020	flk20	SAMPLE	208592-008	Water	146297	12/21/08 01:22	1.0	6	
021	flk21	SAMPLE	208592-009	Water	146297	12/21/08 01:56	1.0	6	
022	flk22	SAMPLE	208592-010	Water	146297	12/21/08 02:31	1.0	6	1:MTBE=110
023	flk23	X	IB			12/21/08 03:05	1.0	6	
024	flk24	X	IB			12/21/08 03:39	1.0	6	
025	flk25	X	IB			12/21/08 04:13	1.0	6	

BO 12/22/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 25.

Analyst: BO Date: 12/22/08 Reviewer: LW Date: 12/22/08

Standards used: 1=S10902 2=S10935 3=S10844 4=S10798 5=S10985 6=S10715

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CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 458513343

Instrument : MSVOA06 Begun : 12/21/08 11:43
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	fll01	X	IB			12/21/08 11:43	1.0	1	
002	fll02	TUN	BFB			12/21/08 12:17	1.0	2	
003	fll03	CCV/BS	QC476750	Water	146311	12/21/08 12:48	1.0	3 4 5 6 1	
004	fll04	BSD	QC476751	Water	146311	12/21/08 13:22	1.0	3 4 5 6 1	
005	fll05	X	IB			12/21/08 13:56	1.0	1	
006	fll06	BLANK	QC476749	Water	146311	12/21/08 14:30	1.0	1	
007	fll07	SAMPLE	208715-005	Water	146311	12/21/08 15:04	1.0	1	
008	fll08	SAMPLE	208709-002	Water	146311	12/21/08 15:38	1.0	1	
009	fll09	SAMPLE	208709-008	Water	146311	12/21/08 16:12	1.0	1	
010	fll10	SAMPLE	208709-009	Water	146311	12/21/08 16:46	1.0	1	
011	fll11	SAMPLE	208709-011	Water	146311	12/21/08 17:21	1.0	1	
012	fll12	SAMPLE	208709-012	Water	146311	12/21/08 17:55	1.0	1	
013	fll13	SAMPLE	208709-013	Water	146311	12/21/08 18:30	1.0	1	
014	fll14	SAMPLE	208709-014	Water	146311	12/21/08 19:04	1.0	1	
015	fll15	SAMPLE	208541-002	Water	146311	12/21/08 19:38	1.0	1	
016	fll16	SAMPLE	208541-003	Water	146311	12/21/08 20:12	1.0	1	
017	fll17	SAMPLE	208709-004	Water	146311	12/21/08 20:47	1.0	1	
018	fll18	SAMPLE	208592-010	Water	146311	12/21/08 21:21	2.0	1	
019	fll19	SAMPLE	208649-003	Water	146311	12/21/08 21:55	2.500	1	
020	fll20	SAMPLE	208709-010	Water	146311	12/21/08 22:29	10.0	1	
021	fll21	SAMPLE	208639-002	Water	146311	12/21/08 23:04	50.0	1	1:TCE=130
022	fll22	SAMPLE	208674-004	Water	146311	12/21/08 23:38	200.0	1	headspace <= 1 mL
023	fll23	SAMPLE	208674-005	Water	146311	12/22/08 00:12	833.3	1	headspace <= 1 mL
024	fll24	X	IB			12/22/08 00:47	1.0	1	
025	fll25	X	IB			12/22/08 01:21	1.0	1	
026	fll26	X	IB			12/22/08 01:55	1.0	1	

BO 12/22/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 26.

Analyst: BO Date: 12/22/08 Reviewer: LW Date: 12/22/08

Standards used: 1=S10715 2=S10902 3=S10935 4=S10844 5=S10798 6=S10985

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CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 838465788

Instrument : MSVOA11 Begun : 11/18/08 11:08
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	kke01	X	IB			11/18/08 11:08	1.0	1	
002	kke02	X	BFB			11/18/08 11:49	1.0	2	
003	kke03	X	BFB			11/18/08 12:06	1.0	2	
004	kke04	X	BFB			11/18/08 12:56	1.0	2	
005	kke05	X	BFB			11/18/08 13:10	1.0	2	
006	kke06	X	BFB			11/18/08 13:43	1.0	2	
007	kke07	X	BFB			11/18/08 14:03	1.0	2	
008	kke08	X	RT			11/18/08 14:33	1.0	1	
009	kke09	X	IB			11/18/08 15:01	1.0	1	
010	kke10	X	LP			11/18/08 15:29	1.0	1	
011	kke11	X	BFB			11/18/08 16:02	1.0	2	
012	kke12	TUN	BFB			11/18/08 16:19	1.0	2	
013	kke13	X	IB			11/18/08 16:51	1.0	1	
014	kke14	X	IB			11/18/08 17:19	1.0	1	
015	kke15	IB	CALIB			11/18/08 17:47	1.0	1	
016	kke16	ICAL				11/18/08 18:16	1.0	3 4 5 6 1	
017	kke17	ICAL				11/18/08 18:44	1.0	3 4 5 6 1	
018	kke18	ICAL				11/18/08 19:12	1.0	3 4 5 6 1	
019	kke19	ICAL				11/18/08 19:40	1.0	3 4 5 6 1	
020	kke20	ICAL				11/18/08 20:08	1.0	3 4 5 6 1	
021	kke21	ICAL				11/18/08 20:36	1.0	3 4 5 6 1	
022	kke22	ICAL				11/18/08 21:04	1.0	3 4 5 6 1	
023	kke23	ICAL				11/18/08 21:32	1.0	3 4 5 6 1	
024	kke24	ICAL				11/18/08 22:01	1.0	3 4 5 6 1	
025	kke25	ICV				11/18/08 22:29	1.0	7 1	
026	kke26	ICV				11/18/08 22:57	1.0	8 9 10 1	
027	kke27	X	IB			11/18/08 23:25	1.0	1	
028	kke28	X	IB			11/18/08 23:53	1.0	1	
029	kke29	X	IB			11/19/08 00:22	1.0	1	

ACM 11/19/08 : Adjusted tune prior to runs 4, 6, and 11.

ACM 11/24/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 24.

Analyst: ACM Date: 11/19/08 Reviewer: LW Date: 11/20/08

Standards used: 1=S10764 2=S9454 3=S10756 4=S10619 5=S9073 6=S10355 7=S10631 8=S10654 9=S10533 10=S10788

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 838514519

Instrument : MSVOA11 Begun : 12/22/08 07:19
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	klm01	X	IB			12/22/08 07:19	1.0	1	
002	klm02	X	BFB			12/22/08 07:53	1.0	2	
003	klm03	X	BFB			12/22/08 08:43	1.0	2	
004	klm04	X	QC476778	Water	146323	12/22/08 08:56	1.0	3 4 5 6 1	
005	klm05	TUN	BFB			12/22/08 09:43	1.0	2	
006	klm06	CCV/LCS	QC476778	Water	146323	12/22/08 09:57	1.0	3 4 5 6 1	
007	klm07	X	IB			12/22/08 10:36	1.0	1	
008	klm08	BLANK	QC476779	Water	146323	12/22/08 11:15	1.0	1	
009	klm09	SAMPLE	208700-001	Water	146323	12/22/08 12:00	1.0	1	
010	klm10	SAMPLE	208561-003	Water	146323	12/22/08 12:28	1.0	1	
011	klm11	SAMPLE	208562-018	Water	146323	12/22/08 12:56	1.0	1	
012	klm12	SAMPLE	208654-005	Water	146323	12/22/08 13:24	1.0	1	
013	klm13	SAMPLE	208789-003	Water	146323	12/22/08 13:52	1.0	1	
014	klm14	MSS	208790-001	Water	146323	12/22/08 14:21	1.0	1	
015	klm15	SAMPLE	208790-002	Water	146323	12/22/08 14:49	1.0	1	
016	klm16	SAMPLE	208576-009	Water	146323	12/22/08 15:17	1.0	1	
017	klm17	SAMPLE	208789-001	Water	146323	12/22/08 15:45	1.0	1	
018	klm18	SAMPLE	208789-002	Water	146323	12/22/08 16:13	1.0	1	
019	klm19	SAMPLE	208681-001	Water	146323	12/22/08 16:41	1.0	1	
020	klm20	SAMPLE	208681-002	Water	146323	12/22/08 17:09	1.0	1	
021	klm21	SAMPLE	208681-003	Water	146323	12/22/08 17:37	1.0	1	
022	klm22	SAMPLE	208708-001	Water	146323	12/22/08 18:06	1.0	1	
023	klm23	SAMPLE	208708-002	Water	146323	12/22/08 18:34	1.0	1	
024	klm24	SAMPLE	208708-003	Water	146323	12/22/08 19:02	1.0	1	
025	klm25	SAMPLE	208592-009	Water	146323	12/22/08 19:30	1.0	1	
026	klm26	SAMPLE	208708-004	Water	146323	12/22/08 19:58	1.0	1	3:DCE12C=3400
027	klm27	SAMPLE	208709-010	Water	146323	12/22/08 20:26	3.333	1	
028	klm28	MS	QC476863	Water	146323	12/22/08 20:54	1.0	1 3 4 5 6	
029	klm29	MSD	QC476864	Water	146323	12/22/08 21:22	1.0	1 3 4 5 6	
030	klm30	X	IB			12/22/08 21:50	1.0	1	
031	klm31	X	IB			12/22/08 22:19	1.0	1	
032	klm32	X	IB			12/22/08 22:47	1.0	1	

BO 12/23/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 32.

Analyst: BO Date: 12/23/08 Reviewer: LW Date: 12/23/08

Standards used: 1=S10764 2=S10902 3=S10844 4=S10935 5=S10798 6=S10985

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GC/MS VOLATILE ORGANICS

Batch #: 196297

Water Sample Prep Sheet

	Sample Number	Sample Vial	pH	Head space?	Shelf	Dil'n Flask	MS#	Comments	Initials & Date
1	208644 - 4	B	<2		7		6	1X AE GC error	fen 12/20
2	5	A		1mL				AE Not run, but sampled	
3	6	B						in error	
4	7	A							
5	8	B							
6	9								
7	~~208709 - 1~~								
8	~~2~~								
9	208552 - 1	A	<2	1mL	6			DB AE job	
10	2	B						1X	
11	3								
12	4								
13	5								
14	6								
15	7								
16	8								
17	9								
18	10								
19	208709 - 1	B			8			1X	
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									

GC/MS VOLATILE ORGANICS Batch #: 146311 **Water Sample Prep Sheet**

	Sample Number	Vial	pH	Head space?	Dilution flask ~~Shelf~~	MS#	Comments	Initials & Date
1	208709-2	C	<2			6	RR @ 1x OD	TEW 12-21-08
2	-4						1x OD - Bz @ 80 PPB	
3	208592-10		<2		7		RR @ 2x MTBE >LR @ 55 PPB	
4	208674-4			<1mL	8		200x Freon 113 ct	
5	-5				9		833.3x	
6	208715-5		<2	LV			1x	
7	208709-8	B					1x	
8	-9						1x	
9	-10		<2		10		10x	
10	-11						1x	
11	-12						1x	
12	-13						1x	
13	-14						1x	
14	208541-2						1x	
15	-3						1x	
16	208639-2		<2		11		50x	
17	~~-3~~						~~7.14x~~	
18	208649-3	C	<2	LV	12	6	RR @ 2.5x TCE >LR	TEW 12-21-08
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								

GC/MS VOLATILE ORGANICS

Batch #: 146323

Water Sample Prep Sheet

	Sample Number	Sample Vial	pH	Head space?	Shelf	Dil'n Flask	MS#	Comments	Initials & Date
1	208592-9	C	<2				11	MM 1x, Acid cwl	12/22/08
2	208709-10		<2			12		MM 3.3x, Bzn	
3	208561-3	B						TB NO QUADS	
4	208562-18							TB NO QUADS	
5	208654-5	C						TB NO QUADS	
6	208790-1	A						MSS 1x	
7	-1	BCD	<2					MS/MSD 1x	
8	-2	A						1x	
9	208700-1	A						TB	
10	-2							1x PUT OFF	
11	-3								
12	-4								
13	-5								
14	-6								
15	-7								
16	-8								
17	-9								
18	208789-1	B	<2					1x ~~PUT OFF~~	
19	-2								
20	-3							TB	
21	208681-1	A					11	TB	
22	-2							1x	
23	-3							1x	
24	208708-1	B							
25	-2								
26	-3								
27	-4								
28	208576-9	C	<2					MM 1x, 11DCA co-	
29	208708-4	B					11	1x	
30									
31									
32									
33									
34									
35									

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 208749
ANALYTICAL REPORT

CH2M Hill	Project : 371016.SH.60.61.QS
2625 South Plaza Drive	Location : Quarterly UST
Tempe, AZ 85282-3397	Level : III

Sample ID	Lab ID
TB-121508	208749-001
ASE-65A-8D1	208749-002
ASE-62A-8D1	208749-003
ASE-55A-8D1	208749-004
ASE-108A-8D1	208749-005
PL-511-8D1	208749-006
PL-105A-8D1	208749-007
ASE-92A-8D1	208749-008
PL-512A-8D1	208749-009

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 01/06/2009
Project Manager

Signature: _____ Date: 01/06/2009
Senior Program Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**208749**
Client:	**CH2M Hill**
Project:	**371016.SH.60.61.QS**
Location:	**Quarterly UST**
Request Date:	**12/18/08**
Samples Received:	**12/18/08**

This data package contains sample and QC results for nine water samples, requested for the above referenced project on 12/18/08. See attached cooler receipt form for any sample receipt problems or discrepancies.

TPH-Extractables by GC (EPA 8015B):
The chromatographic baseline has been redrawn for all samples and standards to accurately quantitate all target hydrocarbons.

No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
Low responses were observed for iodomethane and vinyl acetate in the ICV analyzed 11/21/08 00:36; these analytes were not detected at or above the RL in the associated samples, and affected data was qualified with "b".

High responses were observed for n-butylbenzene and sec-butylbenzene in the ICV analyzed 11/14/08 13:57; these analytes were not detected at or above the RL in the associated samples, and affected data was qualified with "b".

Low response was observed for vinyl acetate in the CCV analyzed 12/24/08 08:21; this analyte met minimum response criteria, and affected data was qualified with "b". High response was observed for hexachlorobutadiene; this analyte was not detected at or above the RL in the associated samples, and affected data was qualified with "b".

Low responses were observed for Freon 12 and vinyl acetate in the CCV analyzed 12/24/08 14:35; these analytes met minimum response criteria. High response was observed for bromomethane; this analyte was not detected at or above the RL in the associated samples.

Low responses were observed for a number of analytes in the CCV analyzed 12/29/08 10:40; these analytes met minimum response criteria, and affected data was qualified with "b". High response was observed for vinyl acetate; this analyte was not detected at or above the RL in the associated samples, and affected data was qualified with "b".

Low response was observed for iodomethane in the CCV analyzed 12/29/08 15:10; this analyte met minimum response criteria, and affected data was qualified with "b". High responses were observed for 2,2-dichloropropane and trichlorofluoromethane; affected data was qualified with "b".

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**208749**
Client:	**CH2M Hill**
Project:	**371016.SH.60.61.QS**
Location:	**Quarterly UST**
Request Date:	**12/18/08**
Samples Received:	**12/18/08**

Volatile Organics by GC/MS (EPA 8260B):

High recovery was observed for hexachlorobutadiene in the LCS for batch 146419; this analyte was not detected at or above the RL in the associated samples.

Low recoveries were observed for styrene and vinyl acetate in the MS/MSD of ASE-65A-8D1 (lab # 208749-002); the LCS was within limits, and the associated RPDs were within limits. High recoveries were observed for a number of analytes in the MS of ASE-65A-8D1 (lab # 208749-002); the associated RPDs were within limits.

Low recoveries were observed for trichloroethene in the MS/MSD for batch 146470; the parent sample was not a project sample, the BS/BSD were within limits, and the associated RPD was within limits. High recoveries were observed for carbon tetrachloride and 1,1,1-trichloroethane; the BS/BSD were within limits, the associated RPDs were within limits, and these analytes were not detected at or above the RL in the associated sample.

No other analytical problems were encountered.

Chain of Custody

208749

Curtis & Tompkins Laboratories
2323 5th St.
Berkeley, CA 94710
510-204-2221

Honeywell — Chain Of Custody / Analysis Request

AESI Ref:	39784.54128
COC#	37380
Lab Proj # (SDG):	
Lab ID	CTBERK
Site ID	SKYHARBOR
Lab Job #	
Authorized User:	Honeywell
Text & Excel File Drive	Excel & Text File Order

Privileged & Confidential

Site Name: Sky Harbor
Phase:
Location of Site: Phoenix, AZ
Sampling Program: Quarterly UST

Sampling Co.: H+A
EDD To: Jennifer Peterson, jennifer.Peterson@ch2m.com
Sampler: M. Weise - M. Hall
PO #: 4990342
Analysis Turnaround Time (TAT): 7
Consultant
Full Report TAT: 7

Client Contact: (name, co., address)
CH2M HILL
2625 South Plaza Drive, Suite 300
Tempe, AZ 85282
Preliminary Data To: Jennifer Peterson, CH2M HILL
Sample Receipt Acknowledgement To: Jennifer Peterson, CH2M HILL
Hard Copy To: Jennifer Peterson, CH2M HILL
Invoice To: Honeywell/Copy J Peterson

Copyright AESI: Version 8.0 Unauthorized use strictly prohibited.

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite/Grab	Field Filtered Sample ?	Total VOCs (SW8260)	TRPH DRO C10-C22 - ORO C22-C32 (8015B)	MS/MSD	Sampling Method (code)	Lab Sample Numbers
											Units						
1	TB	--	--	TB-121508	12/15/8	0550	BLKWATER	WATER	TB	1	G	N	X				
2	ASE-65A	97	--	ASE-65A-8D1	12/15/8	0640	GW	WATER	REG	15	G	N	X	X	X		
3	ASE-62A	91	--	ASE-62A-8D1	12/15/8	0728	GW	WATER	REG	5	G	N	X	X			
4	ASE-55A	77	--	ASE-55A-8D1	12/15/8	0806	GW	WATER	REG	5	G	N	X	X			
5	ASE-108A	98	--	ASE-108A-8D1	12/15/8	0838	GW	WATER	REG	5	G	N	X	X			
6		--	--	PL-511-8D1	12/15/8	0848	GW	WATER	REG	5	G	N	X	X			
7	PL-105A	77	--	PL-105A-8D1	12/15/8	0920	GW	WATER	REG	5	G	N	X	X			
8	ASE-92A	101	--	ASE-92A-8D1	12/15/8	1010	GW	WATER	REG	5	G	N	X	X			
9	ERB	--	--	PL-512A-8D1	12/15/8	1021	BLKWATER	WATER	ERB	5	G	N	X	X			
10																	
11																	
12																	

Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Custody Seals Intact
	MHA	12/17/08 1410		FEDEX	12/17/08 1450	Cooler Temp.	
Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Custody Seals Intact
			12/18/8 0930			Cooler Temp.	

Preservatives: (Other; Specify):

0 (none); 1 (4 Deg C); 2 (HCl pH<2); 3 (HNO3 pH<2); 4 (H2SO4 pH<2); 5 (NaOH pH>12); 6 (NaOH, Zn Acetate); 7 (H2SO4 (pH<2), 4 Deg C)); 8 (HCl pH<2); 9 (HCl 4 Deg C); 10 (HNO3 (pH<2), 4Deg C); 11 (4C NaOH (pH>12) & Ascorbic Acid); 12 (4C H2SO4 (pH<2) & Na2S2O3); 13 (Zn Acetate); sp (special instructions)

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 208749 Date Received 12/17/08 Number of coolers 4
Client CH2M HILL Project

Date Opened 12/18/08 By (print) DHUONG (sign) D. Le
Date Logged in By (print) S EVANS (sign)

1. Did cooler come with a shipping slip (airbill, etc) MASTER # YES NO
   Shipping info FED EX 8670 5499 7043
2A. Were custody seals present? ... ☑ YES (circle) on cooler on samples ☐ NO
   How many 4 Name unreadable Date 12/17/08
2B. Were custody seals intact upon arrival? YES NO N/A
3. Were custody papers dry and intact when received? YES NO
4. Were custody papers filled out properly (ink, signed, etc)? YES NO
5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO
6. Indicate the packing in cooler: (if other, describe)

   ☑ Bubble Wrap ☐ Foam blocks ☑ Bags ☐ None
   ☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels
7. Temperature documentation:

   Type of ice used: ☑ Wet ☐ Blue/Gel ☐ None Temp(°C) 2.2, 4.5, 3.2, 4.2

   ☐ Samples Received on ice & cold without a temperature blank

   ☐ Samples received on ice directly from the field. Cooling process had begun
8. Were Method 5035 sampling containers present? YES NO
   If YES, what time were they transferred to freezer?
9. Did all bottles arrive unbroken/unopened? YES NO
10. Are samples in the appropriate containers for indicated tests? YES NO
11. Are sample labels present, in good condition and complete? YES NO
12. Do the sample labels agree with custody papers? YES NO
13. Was sufficient amount of sample sent for tests requested? YES NO
14. Are the samples appropriately preserved? YES NO N/A
15. Are bubbles > 6mm absent in VOA samples? YES NO N/A
16. Was the client contacted concerning this sample delivery? YES NO
    If YES, Who was called? By Date:

COMMENTS

SAMPLE #9 DOES NOT MATCH COC ID, LOGGED IN PER COC ID

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1

Rev. 6 Number 1 of 3
Effective: 23 July 2008
Z:\qc\forms\checklists\Cooler Receipt Checklist_rv6.doc

Laboratory Job Number 208749

ANALYTICAL REPORT

TPH-Extractables by GC

Matrix: Water

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	12/15/08
Units:	ug/L	Received:	12/18/08
Diln Fac:	1.000	Prepared:	12/19/08

Field ID:	ASE-65A-8D1	Batch#:	146285
Type:	SAMPLE	Analyzed:	12/24/08
Lab ID:	208749-002		

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	35 J	50		E4
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	101	50-120	
Hexacosane	105	58-127	

Field ID:	ASE-62A-8D1	Batch#:	146285
Type:	SAMPLE	Analyzed:	12/24/08
Lab ID:	208749-003		

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	62 Y	50		
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	114	50-120	
Hexacosane	121	58-127	

Field ID:	ASE-55A-8D1	Batch#:	146274
Type:	SAMPLE	Analyzed:	12/22/08
Lab ID:	208749-004		

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	3,600 Y	50		
Motor Oil C22-C32	130 J	300	40	E4

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	97	50-120	
Hexacosane	107	58-127	

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	12/15/08
Units:	ug/L	Received:	12/18/08
Diln Fac:	1.000	Prepared:	12/19/08

Field ID:	ASE-108A-8D1	Batch#:	146274
Type:	SAMPLE	Analyzed:	12/22/08
Lab ID:	208749-005		

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	1,800 Y	50		
Motor Oil C22-C32	87 J	300	40	E4

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	95	50-120	
Hexacosane	105	58-127	

Field ID:	PL-511-8D1	Batch#:	146274
Type:	SAMPLE	Analyzed:	12/22/08
Lab ID:	208749-006		

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	1,700 Y	50		
Motor Oil C22-C32	45 J	300	40	E4

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	92	50-120	
Hexacosane	100	58-127	

Field ID:	PL-105A-8D1	Batch#:	146274
Type:	SAMPLE	Analyzed:	12/22/08
Lab ID:	208749-007		

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	1,900 Y	50		
Motor Oil C22-C32	87 J	300	40	E4

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	92	50-120	
Hexacosane	97	58-127	

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	12/15/08
Units:	ug/L	Received:	12/18/08
Diln Fac:	1.000	Prepared:	12/19/08

Field ID:	ASE-92A-8D1	Batch#:	146274
Type:	SAMPLE	Analyzed:	12/23/08
Lab ID:	208749-008		

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	2,400 Y	50		
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	94	50-120	
Hexacosane	101	58-127	

Field ID:	PL-512A-8D1	Batch#:	146274
Type:	SAMPLE	Analyzed:	12/23/08
Lab ID:	208749-009		

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	17 J	50		E4
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	97	50-120	
Hexacosane	102	58-127	

Type:	BLANK	Batch#:	146274
Lab ID:	QC476602	Analyzed:	12/22/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	ND	50		
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	99	50-120	
Hexacosane	103	58-127	

Type:	BLANK	Batch#:	146285
Lab ID:	QC476648	Analyzed:	12/24/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	ND	50		
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	109	50-120	
Hexacosane	118	58-127	

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC476603	Batch#:	146274
Matrix:	Water	Prepared:	12/19/08
Units:	ug/L	Analyzed:	12/22/08

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Diesel C10-C22	2,500	2,431	97	54-120	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	100	50-120	
Hexacosane	101	58-127	

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Field ID:	ASE-127A-8D1	Batch#:	146274
MSS Lab ID:	208752-002	Sampled:	12/12/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Prepared:	12/19/08
Diln Fac:	1.000	Analyzed:	12/22/08

Type: MS Lab ID: QC476604

Analyte	MSS Result	Spiked	Result	%REC	Limits	ADEQ Flags
Diesel C10-C22	23.08	2,500	2,578	102	54-120	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	107	50-120	
Hexacosane	119	58-127	

Type: MSD Lab ID: QC476605

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
Diesel C10-C22	2,500	2,319	92	54-120	11	31	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	96	50-120	
Hexacosane	95	58-127	

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC476606	Batch#:	146274
Matrix:	Water	Prepared:	12/19/08
Units:	ug/L	Analyzed:	12/22/08

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Motor Oil C22-C32	2,500	2,825	113	60-140	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	94	50-120	
Hexacosane	88	58-127	

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC476649	Batch#:	146285
Matrix:	Water	Prepared:	12/19/08
Units:	ug/L	Analyzed:	12/24/08

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Diesel C10-C22	2,500	2,559	102	54-120	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	106	50-120	
Hexacosane	111	58-127	

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Field ID:	ASE-65A-8D1	Batch#:	146285
MSS Lab ID:	208749-002	Sampled:	12/15/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Prepared:	12/19/08
Diln Fac:	1.000	Analyzed:	12/24/08

Type: MS Lab ID: QC476650

Analyte	MSS Result	Spiked	Result	%REC	Limits	ADEQ Flags
Diesel C10-C22	35.35	2,500	2,323	92	54-120	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	97	50-120	
Hexacosane	102	58-127	

Type: MSD Lab ID: QC476651

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
Diesel C10-C22	2,500	2,520	99	54-120	8	31	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	104	50-120	
Hexacosane	106	58-127	

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

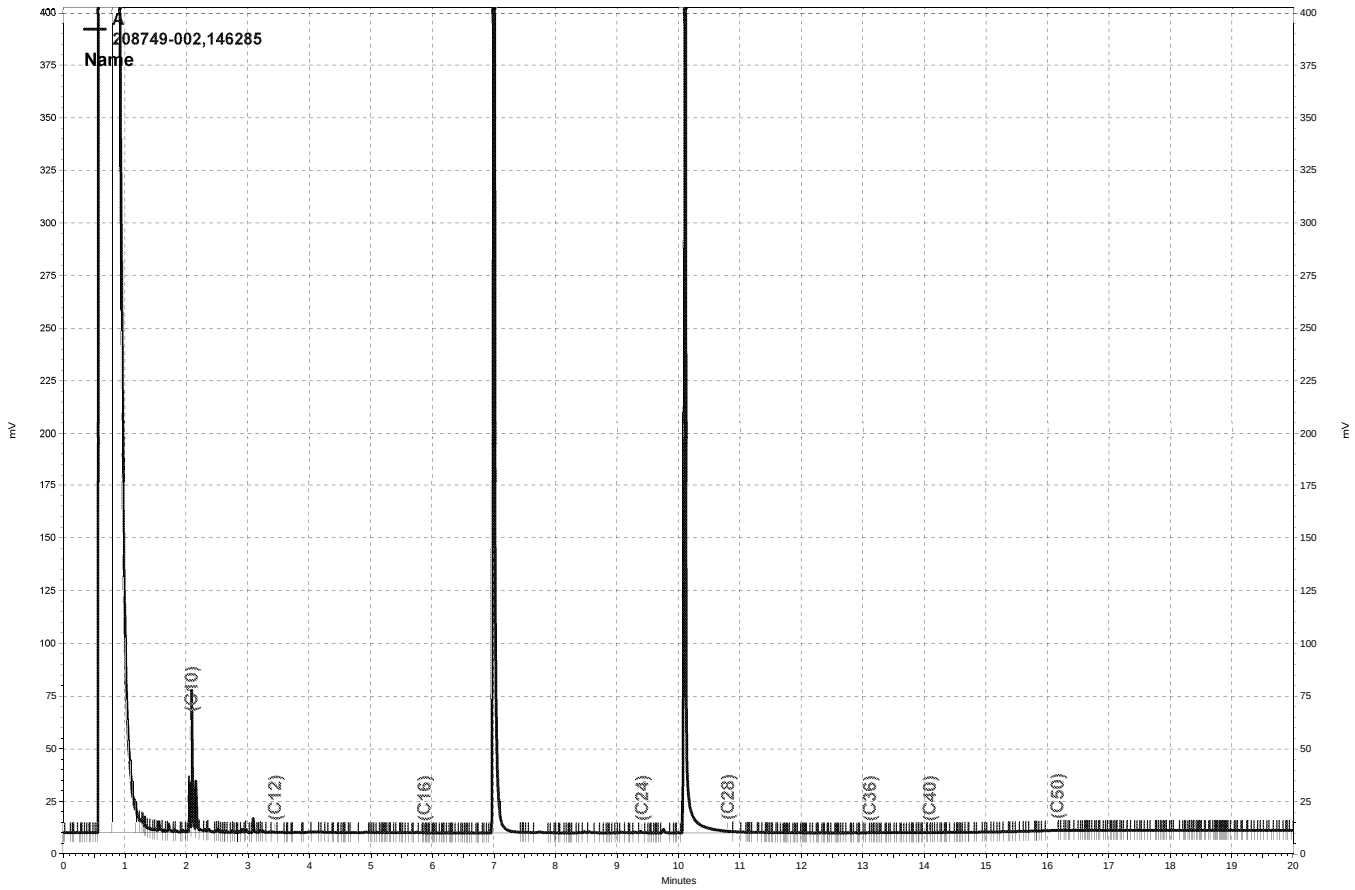
Batch QC Report

Total Extractable Hydrocarbons

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC476652	Batch#:	146285
Matrix:	Water	Prepared:	12/19/08
Units:	ug/L	Analyzed:	12/24/08

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Motor Oil C22-C32	2,500	2,975	119	60-140	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	105	50-120	
Hexacosane	94	58-127	



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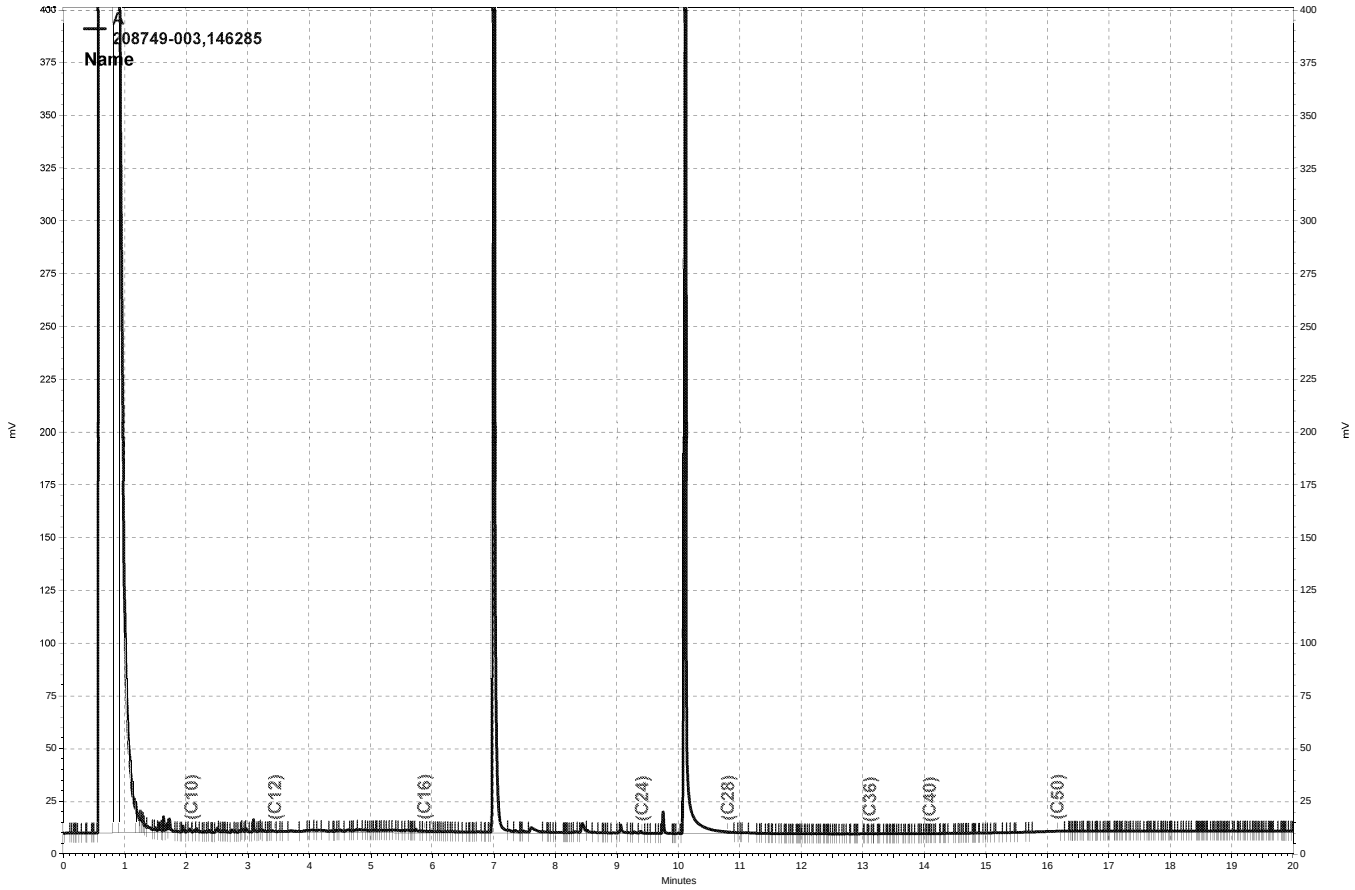

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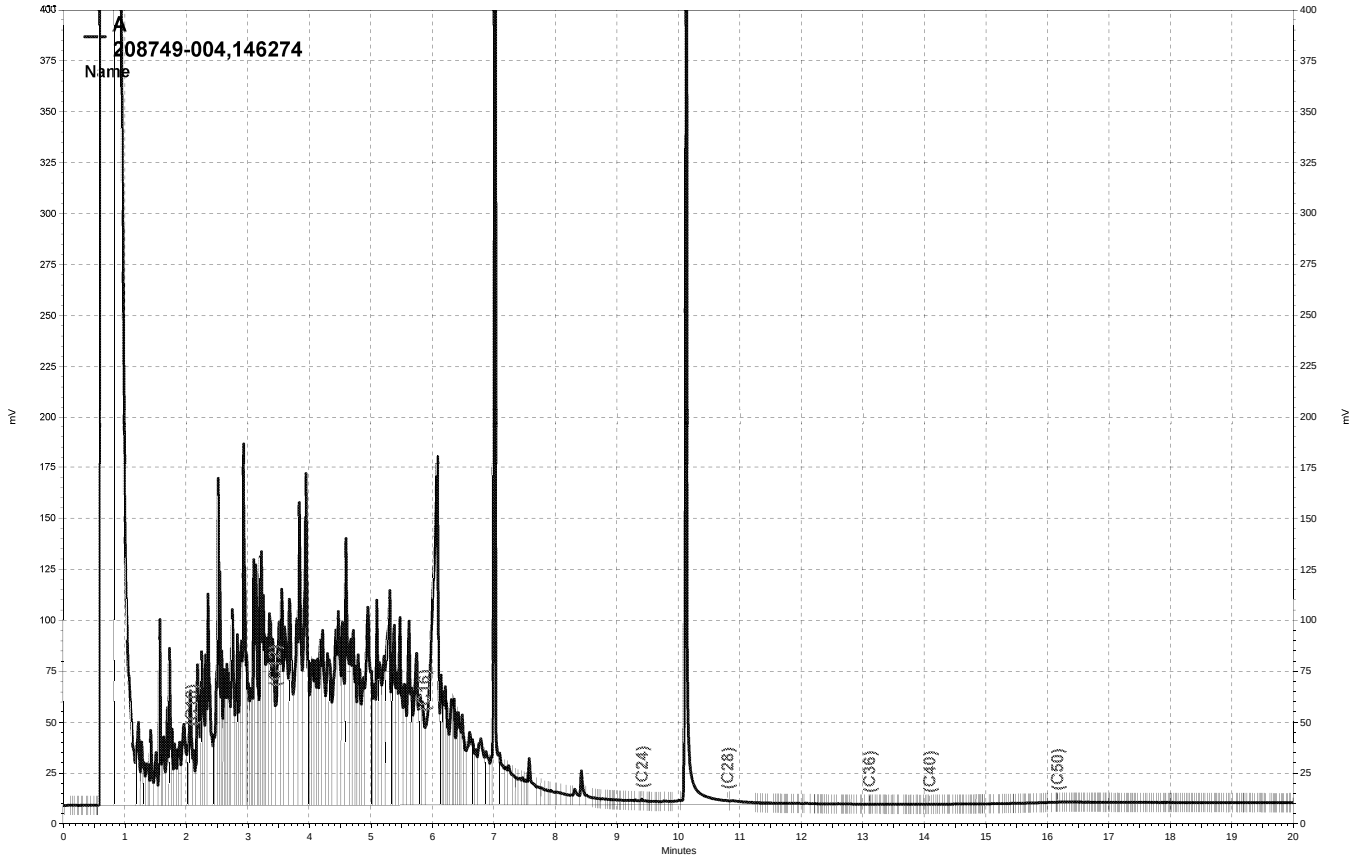

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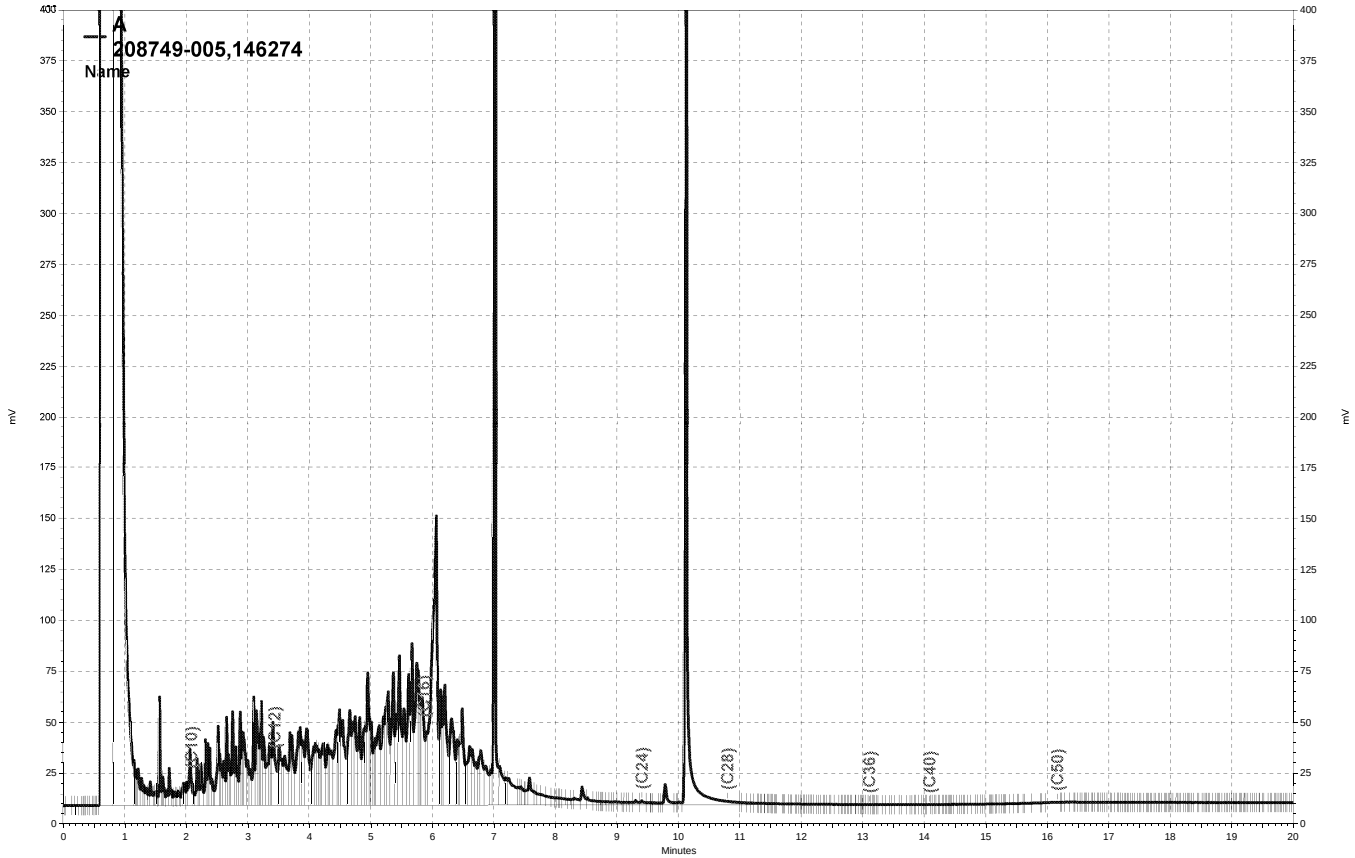

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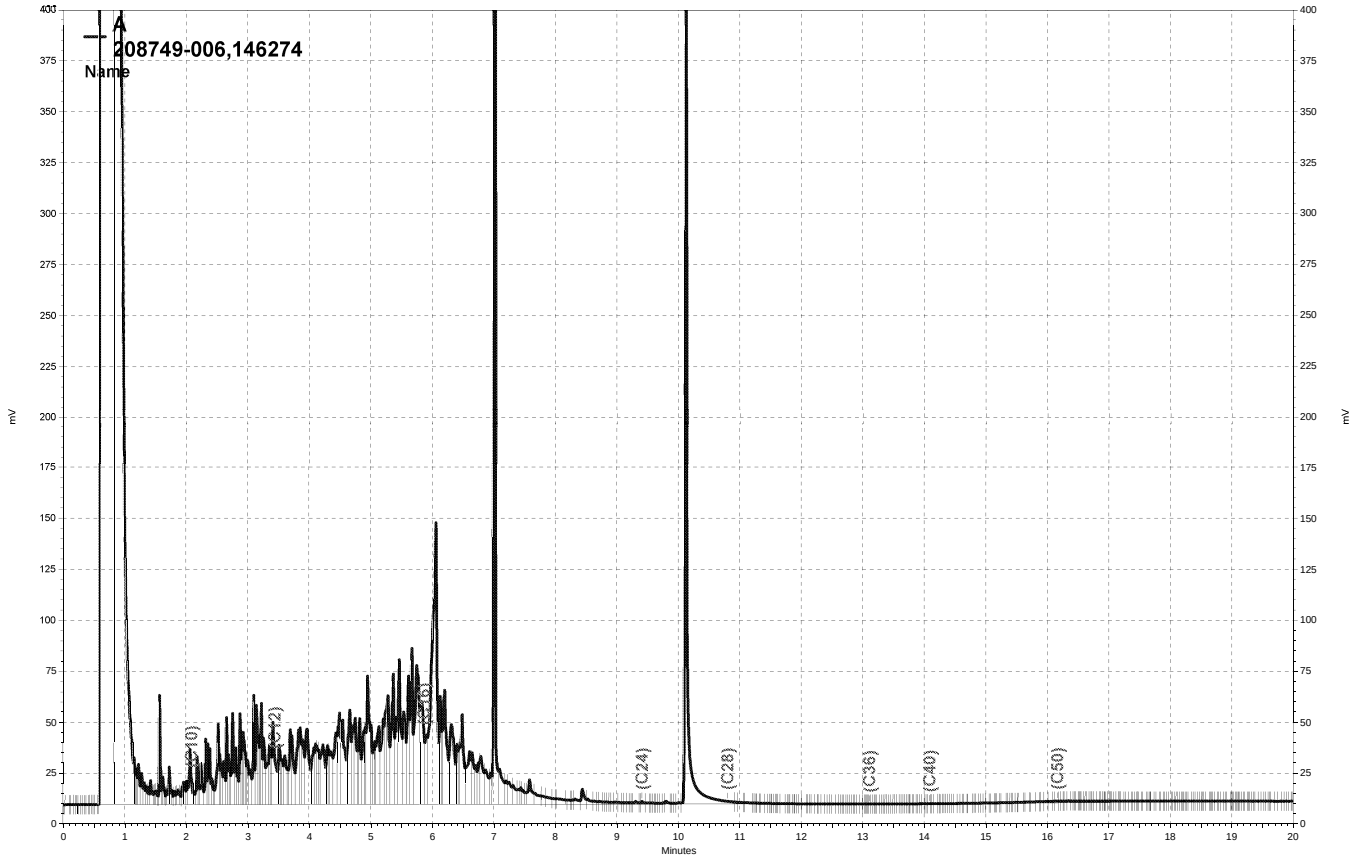

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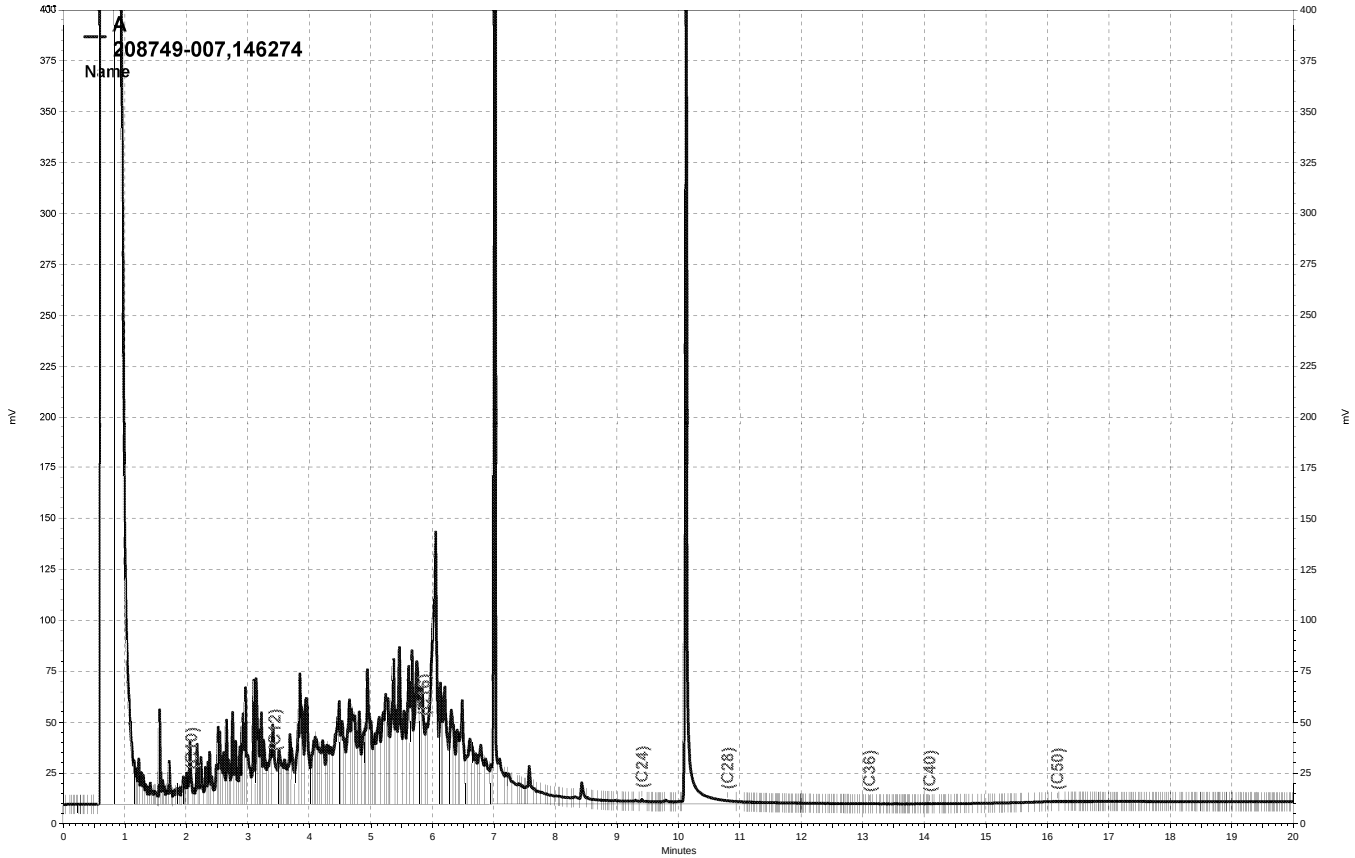

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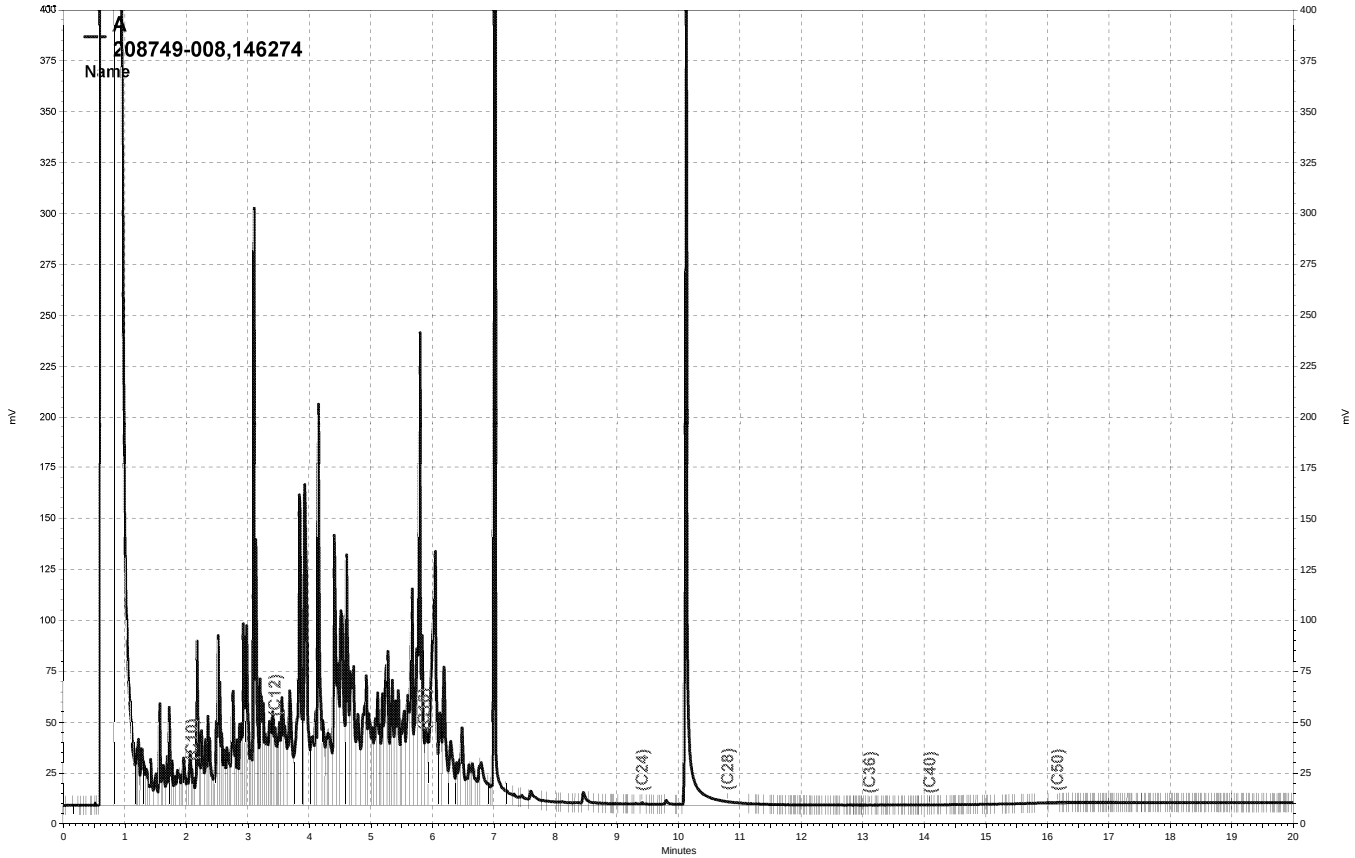

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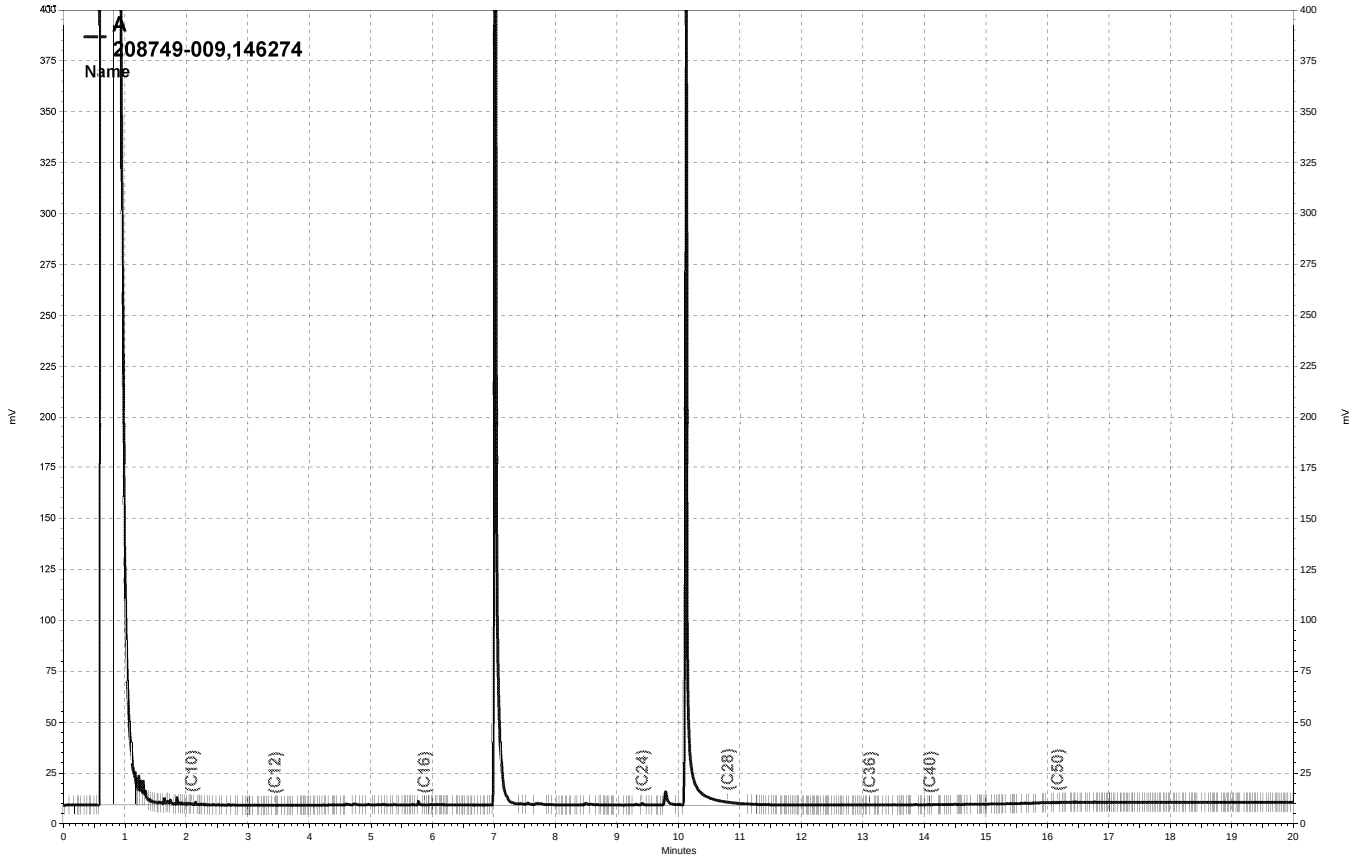

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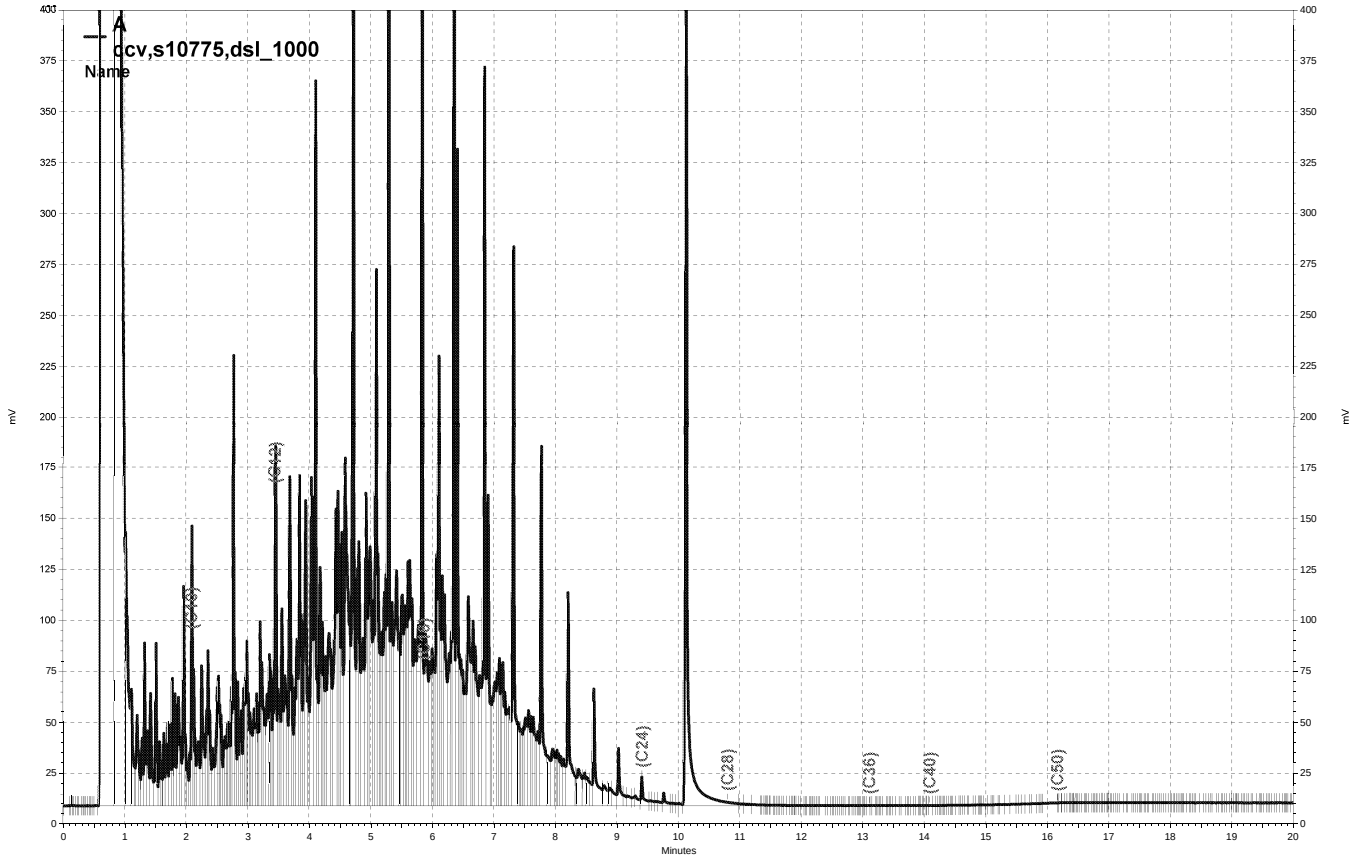

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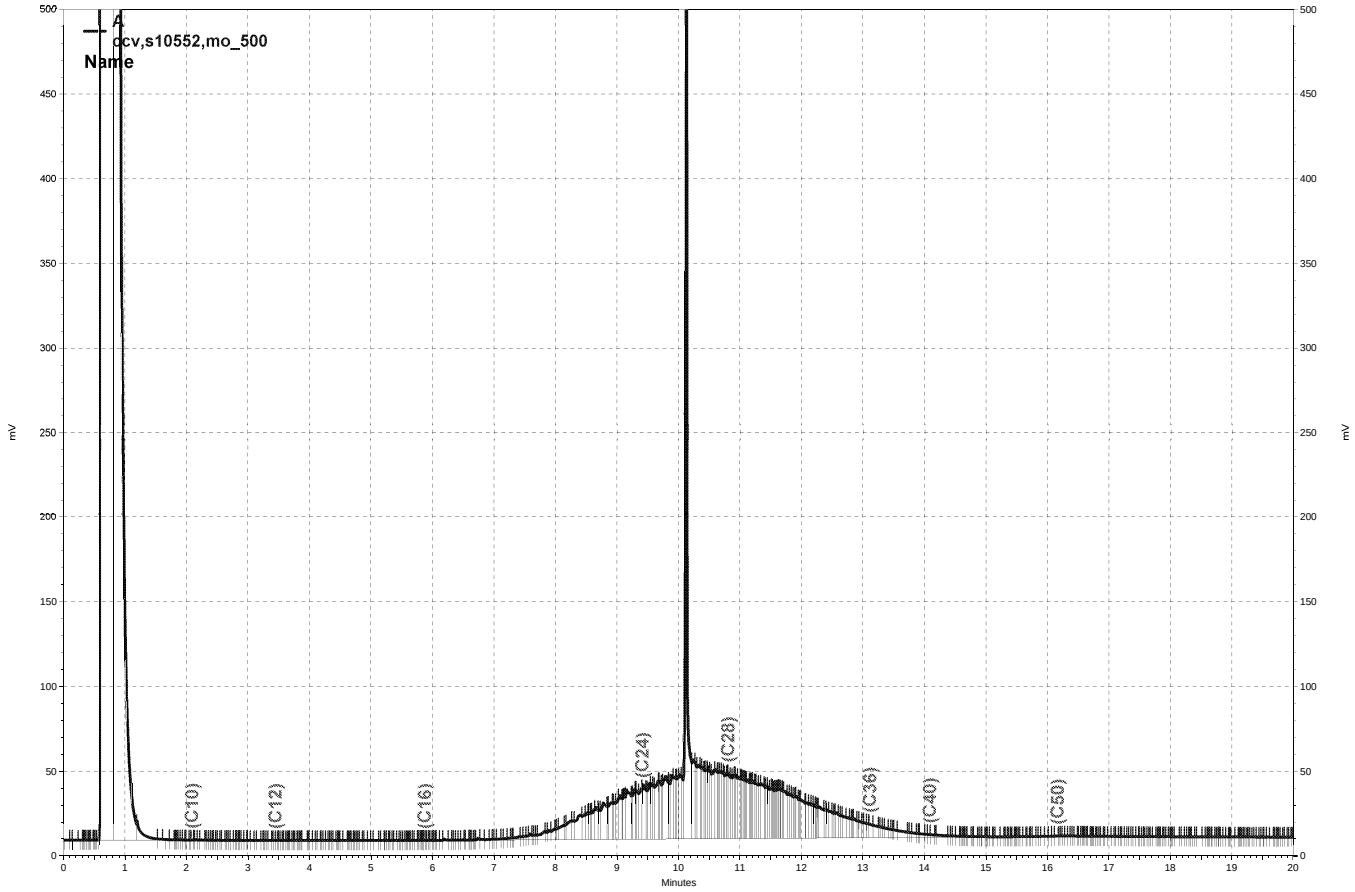

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CURTIS & TOMPKINS INITIAL CALIBRATION FOR 208749 GCSV Water: EPA 8015B

Inst : GC26A
Calnum : 868466089004
Units : mg/L

Name : 26A diesel_323
Date : 18-NOV-2008 19:38
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	323a008	868466089008	DSL_10	18-NOV-2008 19:38	S9527
L2	323a009	868466089009	DSL_100	18-NOV-2008 20:06	S9528
L3	323a010	868466089010	DSL_500	18-NOV-2008 20:35	S9529
L4	323a011	868466089011	DSL_1000	18-NOV-2008 21:04	S9530
L5	323a012	868466089012	DSL_5000	18-NOV-2008 21:33	S9526
L6	323a013	868466089013	DSL_7500	18-NOV-2008 22:01	S9531

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C22	27669	29864	28006	25990	26629	23471	AVRG		3.71E-5		26938	8	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C10-C22	10.00	3	100.0	11	500.0	4	1000	-4	5000	-1	7500	-13

Analyst: ATL Date: 11/24/08 Reviewer: CW Date: 11/24/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 208749 GCSV Water
EPA 8015B

Inst : GC26A Name : 26A diesel_323
Calnum : 868466089004 Cal Date : 18-NOV-2008

ICV 868466089015 (323a015 18-NOV-2008) stds: S10153

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C10-C22	26938	28040	500.0	520.5	mg/L	4	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 208749 GCSV Water: EPA 8015B

Inst : GC26A
Calnum : 868466089003
Units : mg/L

Name : OTP(26A)_323
Date : 19-NOV-2008 09:23
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	323a039	868466089039	OTP_5	19-NOV-2008 09:23	S9739
L2	323a040	868466089040	OTP_10	19-NOV-2008 09:52	S9740
L3	323a041	868466089041	OTP_25	19-NOV-2008 10:20	S9741
L4	323a042	868466089042	OTP_50	19-NOV-2008 10:49	S9742
L5	323a043	868466089043	OTP_100	19-NOV-2008 11:18	S9745
L6	323a044	868466089044	OTP_200	19-NOV-2008 11:47	S9744

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	29916	32641	30352	26603	29783	29496	AVRG		3.36E-5		29798	6	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	5.000	0	10.00	10	25.00	2	50.00	-11	100.0	0	200.0	-1

ATL 11/21/08 : OTP_25 point was used to update RT for asurotp323.met.

Analyst: ATL Date: 11/21/08 Reviewer: CW Date: 11/24/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 208749 GCSV Water: EPA 8015B

Inst : GC26A
Calnum : 868487360001
Units : mg/L

Name : MO(26a)_338
Date : 03-DEC-2008 18:28
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	338a013	868487360013	MO_50	03-DEC-2008 18:28	S10563
L2	338a015	868487360015	MO_500	03-DEC-2008 19:26	S10564
L3	338a016	868487360016	MO_1000	03-DEC-2008 19:55	S10566
L4	338a017	868487360017	MO_5000	03-DEC-2008 20:23	S10567
L5	338a018	868487360018	MO_7500	03-DEC-2008 20:52	S10568
L6	338a030	868487360030	MO_250	04-DEC-2008 13:02	S10565

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C22-C32	11273	12715	12308	12247	11468	11999	AVRG		8.33E-5		12002	5	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C22-C32	50.00	-6	500.0	6	1000	3	5000	2	7500	-4	250.0	0

ATL 12/04/08 : Manually integrated all motor oil points except MO_250 for fuel hump. MO_250 pt. was re-run to confirm misinject run #14.

Analyst: ATL Date: 12/04/08 Reviewer: CP Date: 12/04/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208749 GCSV Water
EPA 8015B

Inst : GC26A Run Name : DSL_1000 IDF : 1.0
Seqnum : 868514507018 File : 357a018 Time : 22-DEC-2008 14:45
Standards: S10775

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C22	868466089004	18-NOV-2008	26938	27961	1000	1038	mg/L	4	15	
Hexacosane	868470899001	21-NOV-2008	20727	21687	50.00	52.32	mg/L	5	15	

Analyst: CP Date: 12/22/08 Reviewer: ATL Date: 12/23/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208749 GCSV Water
EPA 8015B

Inst : GC26A Run Name : MO_500 IDF : 1.0
Seqnum : 868514507019 File : 357a019 Time : 22-DEC-2008 15:13
Standards: S10552

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C22-C32	868487360001	03-DEC-2008	12002	12935	500.0	538.9	mg/L	8	15	
Hexacosane	868470899001	21-NOV-2008	20727	17882	50.00	43.14	mg/L	-14	15	

JDG 12/22/08 : Corrected automatically drawn baseline .

Analyst: JDG Date: 12/22/08 Reviewer: ATL Date: 12/23/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208749 GCSV Water
EPA 8015B

Inst : GC26A Run Name : OTP_50 IDF : 1.0
Seqnum : 868514507022 File : 357a022 Time : 22-DEC-2008 16:45
Cal : 868466089003 Caldate : 19-NOV-2008
Standards: S10089

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
o-Terphenyl	29798	30099	50.00	50.50	mg/L	1	15	

Analyst: JDG Date: 12/22/08 Reviewer: ATL Date: 01/02/09

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208749 GCSV Water
EPA 8015B

Inst : GC26A Run Name : OTP_50 IDF : 1.0
Seqnum : 868514507035 File : 357a035 Time : 22-DEC-2008 23:34
Cal : 868466089003 Caldate : 19-NOV-2008
Standards: S10089

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
o-Terphenyl	29798	25937	50.00	43.52	mg/L	-13	15	

Analyst: ATL Date: 12/23/08 Reviewer: CP Date: 01/02/09

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208749 GCSV Water
EPA 8015B

Inst : GC26A Run Name : DSL_250 IDF : 1.0
Seqnum : 868514507036 File : 357a036 Time : 23-DEC-2008 00:03
Standards: S10773

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C22	868466089004	18-NOV-2008	26938	24974	250.0	231.8	mg/L	-7	15	
Hexacosane	868470899001	21-NOV-2008	20727	17879	50.00	43.13	mg/L	-14	15	

Analyst: ATL Date: 12/23/08 Reviewer: CP Date: 01/02/09

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208749 GCSV Water
EPA 8015B

Inst : GC26A Run Name : MO_500 IDF : 1.0
Seqnum : 868514507037 File : 357a037 Time : 23-DEC-2008 00:31
Standards: S10552

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C22-C32	868487360001	03-DEC-2008	12002	11325	500.0	471.8	mg/L	-6	15	
Hexacosane	868470899001	21-NOV-2008	20727	15170	50.00	36.60	mg/L	**-27**	15	c-

ATL 12/23/08 : Manually integrated fuel hump.

Analyst: ATL Date: 12/23/08 Reviewer: CP Date: 01/02/09

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208749 GCSV Water
EPA 8015B

Inst : GC26A Run Name : DSL_500 IDF : 1.0
Seqnum : 868514507049 File : 357a049 Time : 23-DEC-2008 06:10
Standards: S10774

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C22	868466089004	18-NOV-2008	26938	27037	500.0	501.8	mg/L	0	15	
Hexacosane	868470899001	21-NOV-2008	20727	19026	50.00	45.90	mg/L	-8	15	

Analyst: ATL Date: 12/23/08 Reviewer: EAH Date: 01/06/09

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208749 GCSV Water
EPA 8015B

Inst : GC26A Run Name : MO_500 IDF : 1.0
Seqnum : 868514507050 File : 357a050 Time : 23-DEC-2008 06:39
Standards: S10552

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C22-C32	868487360001	03-DEC-2008	12002	12028	500.0	501.1	mg/L	0	15	
Hexacosane	868470899001	21-NOV-2008	20727	16122	50.00	38.89	mg/L	**-22**	15	c-

ATL 12/23/08 : Manually integrated fuel hump.

Analyst: ATL Date: 12/23/08 Reviewer: EAH Date: 01/06/09

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208749 GCSV Water
EPA 8015B

Inst : GC26A Run Name : OTP_50 IDF : 1.0
Seqnum : 868514507051 File : 357a051 Time : 23-DEC-2008 07:07
Cal : 868466089003 Caldate : 19-NOV-2008
Standards: S10089

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
o-Terphenyl	29798	25267	50.00	42.40	mg/L	-15	15	

ATL 01/05/09 [o-Terphenyl A]: Corrected automatically drawn baseline .

Analyst: ATL Date: 12/23/08 Reviewer: EAH Date: 01/06/09

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208749 GCSV Water
EPA 8015B

Inst : GC26A Run Name : DSL_1000 IDF : 1.0
Seqnum : 868517362013 File : 359a013 Time : 24-DEC-2008 12:43
Standards: S10775

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C22	868466089004	18-NOV-2008	26938	28286	1000	1050	mg/L	5	15	
Hexacosane	868470899001	21-NOV-2008	20727	22506	50.00	54.29	mg/L	9	15	

Analyst: ATL Date: 12/29/08 Reviewer: JDG Date: 12/31/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208749 GCSV Water
EPA 8015B

Inst : GC26A Run Name : OTP_50 IDF : 1.0
Seqnum : 868517362015 File : 359a015 Time : 24-DEC-2008 13:40
Cal : 868466089003 Caldate : 19-NOV-2008
Standards: S10089

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
o-Terphenyl	29798	31505	50.00	52.86	mg/L	6	15	

Analyst: ATL Date: 12/29/08 Reviewer: JDG Date: 12/31/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208749 GCSV Water
EPA 8015B

Inst : GC26A Run Name : MO_500 IDF : 1.0
Seqnum : 868517362016 File : 359a016 Time : 24-DEC-2008 14:08
Standards: S10552

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C22-C32	868487360001	03-DEC-2008	12002	13816	500.0	575.6	mg/L	15	15	
Hexacosane	868470899001	21-NOV-2008	20727	19554	50.00	47.17	mg/L	-6	15	

ATL 12/29/08 : Manually integrated fuel hump.

Analyst: ATL Date: 12/29/08 Reviewer: JDG Date: 12/31/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208749 GCSV Water
EPA 8015B

Inst : GC26A Run Name : DSL_500 IDF : 1.0
Seqnum : 868517362027 File : 359a027 Time : 24-DEC-2008 20:44
Standards: S10774

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C22	868466089004	18-NOV-2008	26938	28700	500.0	532.7	mg/L	7	15	
Hexacosane	868470899001	21-NOV-2008	20727	22089	50.00	53.29	mg/L	7	15	

Analyst: ATL Date: 12/29/08 Reviewer: JDG Date: 12/29/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208749 GCSV Water
EPA 8015B

Inst : GC26A Run Name : MO_500 IDF : 1.0
Seqnum : 868517362028 File : 359a028 Time : 24-DEC-2008 21:13
Standards: S10552

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C22-C32	868487360001	03-DEC-2008	12002	12184	500.0	507.6	mg/L	2	15	
Hexacosane	868470899001	21-NOV-2008	20727	17366	50.00	41.89	mg/L	**-16**	15	c-

Analyst: ATL Date: 12/29/08 Reviewer: JDG Date: 12/29/08

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208749 GCSV Water
EPA 8015B

Inst : GC26A Run Name : OTP_50 IDF : 1.0
Seqnum : 868517362029 File : 359a029 Time : 24-DEC-2008 21:41
Cal : 868466089003 Caldate : 19-NOV-2008
Standards: S10089

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
o-Terphenyl	29798	33420	50.00	56.08	mg/L	12	15	

Analyst: ATL Date: 12/29/08 Reviewer: JDG Date: 12/31/08

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868466089

Instrument : GC26A Begun : 11/18/08 16:09
Method : EPA 8015B SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	323a001	X	PRIMER			11/18/08 16:09	1.0		
002	323a002	X	IB			11/18/08 16:38	1.0		
003	323a003	X	IB			11/18/08 17:06	1.0		
007	323a007	IB	CALIB			11/18/08 19:09	1.0		
008	323a008	ICAL	DSL_10			11/18/08 19:38	1.0	1	
009	323a009	ICAL	DSL_100			11/18/08 20:06	1.0	2	
010	323a010	ICAL	DSL_500			11/18/08 20:35	1.0	3	
011	323a011	ICAL	DSL_1000			11/18/08 21:04	1.0	4	
012	323a012	ICAL	DSL_5000			11/18/08 21:33	1.0	5	
013	323a013	ICAL	DSL_7500			11/18/08 22:01	1.0	6	
015	323a015	ICV	DSL_500			11/18/08 22:59	1.0	7	
017	323a017	IB	CALIB			11/18/08 23:56	1.0		
032	323a032	ICAL	JP5_10			11/19/08 06:03	1.0	8	
033	323a033	ICAL	JP5_100			11/19/08 06:31	1.0	9	
034	323a034	ICAL	JP5_500			11/19/08 07:00	1.0	10	
035	323a035	ICAL	JP5_1500			11/19/08 07:28	1.0	11	
036	323a036	ICAL	JP5_2500			11/19/08 07:57	1.0	12	
037	323a037	ICAL	JP5_5000			11/19/08 08:26	1.0	13	
038	323a038	IB	CALIB			11/19/08 08:54	1.0		
039	323a039	ICAL	OTP_5			11/19/08 09:23	1.0	14	
040	323a040	ICAL	OTP_10			11/19/08 09:52	1.0	15	
041	323a041	ICAL	OTP_25			11/19/08 10:20	1.0	16	
042	323a042	ICAL	OTP_50			11/19/08 10:49	1.0	17	
043	323a043	ICAL	OTP_100			11/19/08 11:18	1.0	18	
044	323a044	ICAL	OTP_200			11/19/08 11:47	1.0	19	
045	323a045	IB	CALIB			11/19/08 12:16	1.0		
046	323a046	CMARKER	C8-C50			11/19/08 12:44	1.0	20	

ATL 11/21/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 46.

Analyst: ATL Date: 11/21/08 Reviewer: CW Date: 11/24/08

Standards used: 1=S9527 2=S9528 3=S9529 4=S9530 5=S9526 6=S9531 7=S10153 8=S10506 9=S10507 10=S10508 11=S10509 12=S10510 13=S10505 14=S9739 15=S9740 16=S9741 17=S9742 18=S9745 19=S9744 20=S10268

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CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868487360

Instrument : GC26A Begun : 12/03/08 10:40
Method : EPA 8015B SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	338a001	X	IB			12/03/08 10:40	1.0		
002	338a002	X	IB			12/03/08 11:09	1.0		
003	338a003	X	CMARKER			12/03/08 11:37	1.0	1	
004	338a004	CCV	JP5_250			12/03/08 12:06	1.0	2	
005	338a005	CCV	OTP_50			12/03/08 12:36	1.0	3	
006	338a006	CCV	DSL_250			12/03/08 13:05	1.0	4	
007	338a007	CCV	MO_500			12/03/08 14:34	1.0	5	
009	338a009	CCV	DSL_250			12/03/08 15:32	1.0	6	
010	338a010	CCV	DSL_500			12/03/08 16:01	1.0	7	
011	338a011	CCV	DSL_1000			12/03/08 16:31	1.0	8	
012	338a012	IB	CALIB			12/03/08 17:54	1.0		
013	338a013	ICAL	MO_50			12/03/08 18:28	1.0	9	
014	338a014	X	ICAL			12/03/08 18:57	1.0	10	
015	338a015	ICAL	MO_500			12/03/08 19:26	1.0	11	
016	338a016	ICAL	MO_1000			12/03/08 19:55	1.0	12	
017	338a017	ICAL	MO_5000			12/03/08 20:23	1.0	13	
018	338a018	ICAL	MO_7500			12/03/08 20:52	1.0	14	
019	338a019	IB	CALIB			12/03/08 21:21	1.0		
020	338a020	ICAL	BUNK_50			12/03/08 21:50	1.0	15	
021	338a021	ICAL	BUNK_500			12/03/08 22:19	1.0	16	
022	338a022	ICAL	BUNK_1250			12/03/08 22:48	1.0	17	
023	338a023	ICAL	BUNK_2500			12/03/08 23:16	1.0	18	
024	338a024	ICAL	BUNK_5000			12/03/08 23:45	1.0	19	
025	338a025	IB	CALIB			12/04/08 00:14	1.0		
026	338a026	CMARKER	C8-C50			12/04/08 00:43	1.0	1	
027	338a027	IB	CALIB			12/04/08 01:12	1.0		
028	338a028	X	TANKCHECK			12/04/08 01:40	1.0		
029	338a029	IB	CALIB			12/04/08 12:34	1.0		
030	338a030	ICAL	MO_250			12/04/08 13:02	1.0	10	

ATL 12/04/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 30.

Analyst: ATL Date: 12/04/08 Reviewer: CP Date: 12/04/08

Standards used: 1=S10268 2=S10245 3=S10089 4=S10218 5=S10552 6=S10773 7=S10774 8=S10775 9=S10563 10=S10565 11=S10564 12=S10566 13=S10567 14=S10568 15=S10515 16=S10516 17=S10517 18=S10518 19=S10514

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CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868514507

Instrument : GC26A Begun : 12/22/08 07:07
Method : EPA 8015B SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	357a001	X	IB				12/22/08 07:07	1.0	
002	357a002	X	IB				12/22/08 07:35	1.0	
003	357a003	X	CMARKER				12/22/08 08:07	1.0	1
004	357a004	CCV	DSL_500				12/22/08 08:35	1.0	2
005	357a005	CCV	MO_500				12/22/08 09:04	1.0	3
006	357a006	CCV	JP5_250				12/22/08 09:32	1.0	4
007	357a007	BS	QC476066		Water	146148	12/22/08 10:17	1.0	
008	357a008	BSD	QC476067		Water	146148	12/22/08 10:53	1.0	
009	357a009	SAMPLE	208593-006		Water	146148	12/22/08 11:21	1.0	
010	357a010	X	IB				12/22/08 11:49	1.0	
011	357a011	SAMPLE	208525-001		Water	146148	12/22/08 12:18	1.0	
012	357a012	SAMPLE	208525-002		Water	146148	12/22/08 12:46	1.0	
013	357a013	SAMPLE	208525-003		Water	146148	12/22/08 13:15	1.0	
016	357a016	SAMPLE	208651-056		Water	146148	12/22/08 13:47	1.0	
017	357a017	SAMPLE	208651-058		Water	146148	12/22/08 14:16	1.0	
018	357a018	CCV	DSL_1000				12/22/08 14:45	1.0	5
019	357a019	CCV	MO_500				12/22/08 15:13	1.0	3
020	357a020	CCV	JP5_250				12/22/08 15:42	1.0	4
021	357a021	X	CMARKER				12/22/08 16:10	1.0	1
022	357a022	CCV	OTP_50				12/22/08 16:45	1.0	6
023	357a023	BLANK	QC476602		Water	146274	12/22/08 17:55	1.0	
024	357a024	LCS	QC476603		Water	146274	12/22/08 18:23	1.0	
025	357a025	MSS	208752-002		Water	146274	12/22/08 18:52	1.0	
026	357a026	MS	QC476604		Water	146274	12/22/08 19:20	1.0	
027	357a027	MSD	QC476605		Water	146274	12/22/08 19:48	1.0	
028	357a028	LCS	QC476606		Water	146274	12/22/08 20:17	1.0	
029	357a029	SAMPLE	208749-004		Water	146274	12/22/08 20:45	1.0	
030	357a030	SAMPLE	208749-005		Water	146274	12/22/08 21:13	1.0	
031	357a031	SAMPLE	208749-006		Water	146274	12/22/08 21:41	1.0	
032	357a032	SAMPLE	208749-007		Water	146274	12/22/08 22:10	1.0	
033	357a033	X	CCV				12/22/08 22:38	1.0	7
034	357a034	X	CCV				12/22/08 23:06	1.0	3
035	357a035	CCV	OTP_50				12/22/08 23:34	1.0	6
036	357a036	CCV	DSL_250				12/23/08 00:03	1.0	7
037	357a037	CCV	MO_500				12/23/08 00:31	1.0	3
038	357a038	X	CCV				12/23/08 01:00	1.0	6
039	357a039	SAMPLE	208749-008		Water	146274	12/23/08 01:28	1.0	
040	357a040	SAMPLE	208749-009		Water	146274	12/23/08 01:56	1.0	
041	357a041	SAMPLE	208750-002		Water	146274	12/23/08 02:25	1.0	
042	357a042	SAMPLE	208750-003		Water	146274	12/23/08 02:53	1.0	
043	357a043	SAMPLE	208750-004		Water	146274	12/23/08 03:21	1.0	
044	357a044	SAMPLE	208750-005		Water	146274	12/23/08 03:49	1.0	
045	357a045	SAMPLE	208750-006		Water	146274	12/23/08 04:17	1.0	
046	357a046	SAMPLE	208750-007		Water	146274	12/23/08 04:45	1.0	
047	357a047	SAMPLE	208752-003		Water	146274	12/23/08 05:14	1.0	
048	357a048	SAMPLE	208752-004		Water	146274	12/23/08 05:42	1.0	
049	357a049	CCV	DSL_500				12/23/08 06:10	1.0	2
050	357a050	CCV	MO_500				12/23/08 06:39	1.0	3
051	357a051	CCV	OTP_50				12/23/08 07:07	1.0	6
052	357a052	SAMPLE	208752-005		Water	146274	12/23/08 09:34	1.0	
053	357a053	SAMPLE	208752-006		Water	146274	12/23/08 10:02	1.0	
054	357a054	SAMPLE	208752-007		Water	146274	12/23/08 10:30	1.0	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868514507

Instrument : GC26A Begun : 12/22/08 07:07
Method : EPA 8015B SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
055	357a055	SAMPLE	208752-008		Water	146274	12/23/08 10:59	1.0		
056	357a056	SAMPLE	208752-009		Water	146274	12/23/08 11:27	1.0		
057	357a057	SAMPLE	208504-011	S	Water	146032	12/23/08 11:56	1.0		
058	357a058	X	CMARKER				12/23/08 12:33	1.0	1	
059	357a059	CCV	DSL_1000				12/23/08 13:02	1.0	5	
060	357a060	CCV	MO_500				12/23/08 13:30	1.0	3	
061	357a061	CCV	OTP_50				12/23/08 13:59	1.0	6	
062	357a062	CCV	DSL_1000				12/23/08 16:25	1.0	5	
063	357a063	CCV	DSL_1000				12/23/08 16:54	1.0	5	

JDG 12/22/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 13.

ATL 01/05/09 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 14 through 63.

Standards used: 1=S10268 2=S10774 3=S10552 4=S10245 5=S10775 6=S10089 7=S10773

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868517362

Instrument : GC26A Begun : 12/24/08 06:42
Method : EPA 8015B SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	359a001	X	IB				12/24/08 06:42	1.0		
002	359a002	X	IB				12/24/08 07:11	1.0		
003	359a003	X	CMARKER				12/24/08 07:39	1.0	1	
004	359a004	CCV	DSL_500				12/24/08 08:07	1.0	2	
005	359a005	CCV	MO_500				12/24/08 08:36	1.0	3	
006	359a006	CCV	OTP_50				12/24/08 09:04	1.0	4	
007	359a007	X	TANKCHECK				12/24/08 09:33	1.0		
008	359a008	SAMPLE	208752-005		Water	146274	12/24/08 10:01	1.0		
009	359a009	SAMPLE	208752-006		Water	146274	12/24/08 10:30	1.0		
010	359a010	SAMPLE	208752-007		Water	146274	12/24/08 10:58	1.0		
011	359a011	SAMPLE	208752-008		Water	146274	12/24/08 11:27	1.0		
012	359a012	SAMPLE	208752-009		Water	146274	12/24/08 11:56	1.0		
013	359a013	CCV	DSL_1000				12/24/08 12:43	1.0	5	
014	359a014	X	CCV				12/24/08 13:11	1.0	3	
015	359a015	CCV	OTP_50				12/24/08 13:40	1.0	4	
016	359a016	CCV	MO_500				12/24/08 14:08	1.0	3	
017	359a017	SAMPLE	208738-001	S	Water	146353	12/24/08 15:37	1.0		
018	359a018	SAMPLE	208738-002	S	Water	146353	12/24/08 16:05	1.0		
019	359a019	SAMPLE	208738-003	S	Water	146353	12/24/08 16:55	1.0		
020	359a020	BLANK	QC476648		Water	146285	12/24/08 17:26	1.0		
021	359a021	LCS	QC476649		Water	146285	12/24/08 17:54	1.0		
022	359a022	MSS	208749-002		Water	146285	12/24/08 18:22	1.0		
023	359a023	MS	QC476650		Water	146285	12/24/08 18:51	1.0		
024	359a024	MSD	QC476651		Water	146285	12/24/08 19:19	1.0		
025	359a025	LCS	QC476652		Water	146285	12/24/08 19:48	1.0		
026	359a026	SAMPLE	208749-003		Water	146285	12/24/08 20:16	1.0		
027	359a027	CCV	DSL_500				12/24/08 20:44	1.0	2	
028	359a028	CCV	MO_500				12/24/08 21:13	1.0	3	
029	359a029	CCV	OTP_50				12/24/08 21:41	1.0	4	
030	359a030	X	CCV				12/24/08 22:10	1.0	2	
031	359a031	X	CCV				12/24/08 22:38	1.0	3	
032	359a032	X	CCV				12/24/08 23:07	1.0	4	
033	359a033	BLANK	QC476904		Water	146353	12/24/08 23:35	1.0		
034	359a034	SAMPLE	208738-004	S	Water	146353	12/25/08 00:04	1.0		
035	359a035	SAMPLE	208738-005	S	Water	146353	12/25/08 00:32	1.0		
036	359a036	SAMPLE	208738-006	S	Water	146353	12/25/08 01:01	1.0		
037	359a037	SAMPLE	208738-007	S	Water	146353	12/25/08 01:29	1.0		
038	359a038	SAMPLE	208736-001		Water	146353	12/25/08 01:58	1.0		
039	359a039	SAMPLE	208736-002		Water	146353	12/25/08 02:26	1.0		
040	359a040	X	CMARKER				12/25/08 02:54	1.0	1	
041	359a041	CCV	DSL_1000				12/25/08 03:23	1.0	5	
042	359a042	CCV	MO_500				12/25/08 03:51	1.0	3	
043	359a043	X	CCV				12/25/08 04:20	1.0	2	
044	359a044	X	CCV				12/25/08 04:48	1.0	3	

ATL 12/29/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 44.

Standards used: 1=S10268 2=S10774 3=S10552 4=S10089 5=S10775

SAMPLE PREPARATION SUMMARY

Batch # : 146274
Started By : DJT
Method : 3520C
Spike #1 ID : S10879

Prep Date : 19-DEC-2008 13:40
Spike #2 ID : S10905

Analysis : 8015AZ
Finished By : DJT
Units : mL
Spike #3 ID : S10956

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
208749-004		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208749-005		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208749-006		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208749-007		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208749-008		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208749-009		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208750-002		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208750-003		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208750-004		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208750-005		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208750-006		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208750-007		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208752-002		Water	500	2.5	1	0.005	7	.5		.5		TEHM	mss
208752-003		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208752-004		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208752-005		Water	500	2.5	1	0.005	7	.5		.5		TEHM	See comment 1 below
208752-006		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208752-007		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208752-008		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208752-009		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
QC476602	BLANK	Water	500	2.5	1	0.005		.5		.5		8015AZ	
QC476603	LCS	Water	500	2.5	1	0.005		.5	.5	.5		8015AZ	
QC476604	MS	Water	500	2.5	1	0.005	7	.5	.5	.5		8015AZ	
QC476605	MSD	Water	500	2.5	1	0.005	7	.5	.5	.5		8015AZ	
QC476606	LCS	Water	500	2.5	1	0.005		.5		.5		8015AZ	+.5 mL S10787A

Comment 1: small spill during pour (poss loss surr)

Analyst: ATL Date: 01/02/09 Reviewer: CP Date: 01/02/09

TEH (8015) Water Prep Log

Curtis & Tompkins, Ltd.

LIMS Batch No: 146274
LIMS Analysis: 8015AZ
Date Extracted: 12/19/08

Extraction Method:
☐ mod. EPA 3510c sep. funnel
☒ mod. EPA 3520c cont. L/L

Cleanup Method (if needed):
☐ EPA 3630c Silica Gel

Sample #	Container ID	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
208752-002	K	500	7	2.5		MSS
003	E					
004	D					
005	↓					
006	E					
007						
008						
009	↓					
208749-004	D					
005						
006	↓					
007	E					
008	↓					
009	D					
208750-002	E					
003	D					
004	E					
005	D					SMALL SPILL DURING POUR (PESS LOSS SURR)
006						
007	↓		↓			
MB QC476602	NA		NA			
LCS 3	↓		↓			
MS 4	M		7			208752-002
MSD 5	N		↓			↓
* LCS 6	NA	↓	NA	↓		

RFW 12/24/08

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.5/0.5 mL of TEH_SURR was added to all samples	S108798/S10956A	DJT 12/19/08
*0.5/0.5 mL of TEH_SP was added to all spikes	S109058/S10787A*	↓
pH of all samples adjusted to pH ≤ 2 with H_2SO_4	FS085385	↓
☒ 3520c: Samples were continually extracted about 450 mL of CH_2Cl_2	EM48291	↓
Extraction Start Time:	1340	↓
Extraction End Time:	0840	RFW 12/20/08
☐ 3510c: Samples were extracted 3 times with 60 mL of CH_2Cl_2	NA	DJT 12/22/08
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EM48315847	↓
Concentrated to final volume at temperature (degrees C)	100°	↓
Relinquished to TEH Department	✓	↓

12/19/08
Extraction Chemist **Date**

Contined from Page ____
Continued on Page ____

12/24/08
Reviewed by **Date**

SAMPLE PREPARATION SUMMARY

Batch # : 146285
Started By : DJT
Method : 3520C
Spike #1 ID : S10879

Prep Date : 19-DEC-2008 17:00
SOP Version : TEH_3520_rv12
Spike #2 ID : S10905

Analysis : TEH
Finished By : SFL
Units : mL
Spike #3 ID : S10956

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
208627-001		Water	500	2.5	1	0.005	6	.5				TEHM	
208729-001		Water	500	2.5	1	0.005	7	.5				TEH	
208729-002		Water	500	2.5	1	0.005	7	.5				TEH	
208729-003		Water	500	2.5	1	0.005	7	.5				TEH	
208735-001		Water	500	2.5	1	0.005	7	.5				TEH	
208735-002		Water	500	2.5	1	0.005	7	.5				TEH	
208735-003		Water	500	2.5	1	0.005	7	.5				TEH	
208737-001		Water	500	2.5	1	0.005	7	.5				TEH	
208737-002		Water	500	2.5	1	0.005	7	.5				TEH	
208737-003		Water	500	2.5	1	0.005	7	.5				TEH	
208737-004		Water	500	2.5	1	0.005	7	.5				TEH	
208737-005		Water	500	2.5	1	0.005	7	.5				TEH	
208737-006		Water	500	2.5	1	0.005	7	.5				TEH	
208737-007		Water	500	2.5	1	0.005	7	.5				TEH	
208749-002		Water	500	2.5	1	0.005	7	.5		.5		TEHM	mss
208749-003		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208761-001		Water	500	2.5	1	0.005	7	.5				TEH	
208761-002		Water	500	2.5	1	0.005	7	.5				TEH	
208761-003		Water	500	2.5	1	0.005	7	.5				TEH	
QC476648	BLANK	Water	500	2.5	1	0.005		.5		.5		8015AZ	
QC476649	LCS	Water	500	2.5	1	0.005		.5	.5	.5		8015AZ	
QC476650	MS	Water	500	2.5	1	0.005	7	.5	.5	.5		8015AZ	
QC476651	MSD	Water	500	2.5	1	0.005	7	.5	.5	.5		8015AZ	
QC476652	LCS	Water	500	2.5	1	0.005		.5		.5		8015AZ	+.5 mL S10787A

Analyst: DNT Date: 12/31/08 Reviewer: JDG Date: 12/31/08

TEH (8015) Water Prep Log Curtis & Tompkins, Ltd.

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LIMS Batch No: 146285
LIMS Analysis: TEH/M/8015A2
Date Extracted: 12/19/08

Extraction Method:
☐ mod. EPA 3510c sep. funnel
☒ mod. EPA 3520c cont. L/L

Cleanup Method (if needed):
☐ EPA 3630c Silica Gel

Sample #	Container ID	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
208627-001	C	500	6	2.5		
~~208644-004~~	A					NOT IN BATCH DNT 12/19/08
208729-001	M		7	2.5		
002	N					
003						
208735-001	E					
002						
003						
208737-001	D					
002						
003						
004						
005						
006						
007						
★ 208749-002	M Ø 12/19/08					MSS
003	E					
208761-001	O					
002	G					
003	O					
★ MB QC476648	NA		NA			
LCS 49						
MS 50	J		7			
MSD 51	K					
Δ LCS 52	NA		NA			

	Mfg & Lot# / LIMS # / Time	Date/ Initials
★0.5/0.5 mL of TEH_SURR was added to all samples	5108798/5109564★	DNT 12/19/08
Δ0.5/0.5 mL of TEH_SP was added to all spikes	5109058/5107874Δ	
pH of all samples adjusted to pH ≤ 2 with H_2SO_4	FS 055385	
☒ 3520c: Samples were continually extracted about 450 mL of CH_2Cl_2	EM48291	
Extraction Start Time:	1700	
Extraction End Time:	12/20/08 1430	BFW 12/20/08
☐ 3510c: Samples were extracted 3 times with 60 mL of CH_2Cl_2	N/A	BFW 12/24/08
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EM483847	
Concentrated to final volume at temperature (degrees C)	100°	
Relinquished to TEH Department		

12/19/08
Extraction Chemist **Date**

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Continued on Page

DNT 12/31/08
Reviewed by **Date**

Laboratory Job Number 208749

ANALYTICAL REPORT

Volatile Organics by GC/MS

Matrix: Water

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	TB-121508	Batch#:	146419
Lab ID:	208749-001	Sampled:	12/15/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/24/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	TB-121508	Batch#:	146419
Lab ID:	208749-001	Sampled:	12/15/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/24/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1 V1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	103	77-120	
1,2-Dichloroethane-d4	100	70-127	
Toluene-d8	100	83-125	
Bromofluorobenzene	101	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-65A-8D1	Batch#:	146419
Lab ID:	208749-002	Sampled:	12/15/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/24/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	0.8	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	M2 V9
1,1-Dichloroethane	2.8	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	0.6	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	0.9	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	M1
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	M1
1,2-Dichloroethane	ND	0.5	
Benzene	1.4	0.5	
Trichloroethene	2.3	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-65A-8D1	Batch#:	146419
Lab ID:	208749-002	Sampled:	12/15/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/24/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	M2
Bromoform	ND	1.0	
Isopropylbenzene	0.8	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	0.9	0.5	M1
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	M1
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	M1
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1 V1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	104	77-120	
1,2-Dichloroethane-d4	107	70-127	
Toluene-d8	100	83-125	
Bromofluorobenzene	102	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-62A-8D1	Batch#:	146419
Lab ID:	208749-003	Sampled:	12/15/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/24/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	
Vinyl Chloride	2.8	0.5	
Bromomethane	ND	1.0	V1
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	12	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	14	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	1.0	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	0.9	0.5	
Trichloroethene	1.3	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-62A-8D1	Batch#:	146419
Lab ID:	208749-003	Sampled:	12/15/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/24/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	0.7	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	0.8	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	102	77-120	
1,2-Dichloroethane-d4	102	70-127	
Toluene-d8	101	83-125	
Bromofluorobenzene	99	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-55A-8D1	Batch#:	146419
Lab ID:	208749-004	Sampled:	12/15/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/24/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	
Vinyl Chloride	6.8	0.5	
Bromomethane	ND	1.0	V1
Chloroethane	5.5	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	0.8	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	53	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	42	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	1.6	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	22	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-55A-8D1	Batch#:	146419
Lab ID:	208749-004	Sampled:	12/15/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/24/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	0.7	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	21	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	15	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	1.0	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	9.7	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	7.8	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1
Naphthalene	18	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	104	77-120	
1,2-Dichloroethane-d4	101	70-127	
Toluene-d8	107	83-125	
Bromofluorobenzene	105	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-108A-8D1	Batch#:	146419
Lab ID:	208749-005	Sampled:	12/15/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/24/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	
Vinyl Chloride	2.7	0.5	
Bromomethane	ND	1.0	V1
Chloroethane	4.5	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	2.9	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	75	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	22	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	0.8	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	3.2	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	54	0.5	
Trichloroethene	1.1	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-108A-8D1	Batch#:	146419
Lab ID:	208749-005	Sampled:	12/15/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/24/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	11	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	3.7	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	0.7	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	5.2	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	2.8	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1
Naphthalene	10	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	97	77-120	
1,2-Dichloroethane-d4	92	70-127	
Toluene-d8	101	83-125	
Bromofluorobenzene	98	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	PL-511-8D1	Batch#:	146419
Lab ID:	208749-006	Sampled:	12/15/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/24/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	
Vinyl Chloride	2.6	0.5	
Bromomethane	ND	1.0	V1
Chloroethane	4.6	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	2.7	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	77	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	21	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	0.8	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	2.8	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	50	0.5	
Trichloroethene	1.0	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	PL-511-8D1	Batch#:	146419
Lab ID:	208749-006	Sampled:	12/15/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/24/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	11	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	3.6	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	0.7	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	5.2	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	2.8	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1
Naphthalene	11	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	96	77-120	
1,2-Dichloroethane-d4	88	70-127	
Toluene-d8	96	83-125	
Bromofluorobenzene	95	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	PL-105A-8D1	Batch#:	146419
Lab ID:	208749-007	Sampled:	12/15/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/24/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	
Vinyl Chloride	1.5	0.5	
Bromomethane	ND	1.0	V1
Chloroethane	3.8	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	91	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	14	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	83	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	PL-105A-8D1	Batch#:	146419
Lab ID:	208749-007	Sampled:	12/15/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/24/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	9.2	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	4.7	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	1.0	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	6.0	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	2.4	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1
Naphthalene	10	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	97	77-120	
1,2-Dichloroethane-d4	89	70-127	
Toluene-d8	103	83-125	
Bromofluorobenzene	94	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-92A-8D1	Units:	ug/L
Lab ID:	208749-008	Sampled:	12/15/08
Matrix:	Water	Received:	12/18/08

Analyte	Result	RL	Diln Fac	Batch#	Analyzed	ADEQ Flags
Freon 12	ND	1.0	1.000	146419	12/24/08	V9
Chloromethane	ND	1.0	1.000	146419	12/24/08	
Vinyl Chloride	0.8	0.5	1.000	146419	12/24/08	
Bromomethane	ND	1.0	1.000	146419	12/24/08	V1
Chloroethane	2.2	1.0	1.000	146419	12/24/08	
Trichlorofluoromethane	ND	1.0	1.000	146419	12/24/08	
Iodomethane	ND	10	1.000	146419	12/24/08	
Acetone	ND	10	1.000	146419	12/24/08	
1,1-Dichloroethene	ND	0.5	1.000	146419	12/24/08	
Methylene Chloride	ND	10	1.000	146419	12/24/08	
Carbon Disulfide	ND	0.5	1.000	146419	12/24/08	
MTBE	190	2.0	4.000	146470	12/29/08	D1
trans-1,2-Dichloroethene	ND	0.5	1.000	146419	12/24/08	
Vinyl Acetate	ND	10	1.000	146419	12/24/08	V9
1,1-Dichloroethane	3.2	0.5	1.000	146419	12/24/08	
2-Butanone	ND	10	1.000	146419	12/24/08	
cis-1,2-Dichloroethene	ND	0.5	1.000	146419	12/24/08	
2,2-Dichloropropane	ND	0.5	1.000	146419	12/24/08	
Chloroform	ND	0.5	1.000	146419	12/24/08	
Bromochloromethane	ND	0.5	1.000	146419	12/24/08	
1,1,1-Trichloroethane	ND	0.5	1.000	146419	12/24/08	
1,1-Dichloropropene	ND	0.5	1.000	146419	12/24/08	
Carbon Tetrachloride	ND	0.5	1.000	146419	12/24/08	
1,2-Dichloroethane	ND	0.5	1.000	146419	12/24/08	
Benzene	170	2.0	4.000	146470	12/29/08	D1
Trichloroethene	ND	0.5	1.000	146419	12/24/08	
1,2-Dichloropropane	ND	0.5	1.000	146419	12/24/08	
Bromodichloromethane	ND	0.5	1.000	146419	12/24/08	
Dibromomethane	ND	0.5	1.000	146419	12/24/08	
4-Methyl-2-Pentanone	ND	10	1.000	146419	12/24/08	
cis-1,3-Dichloropropene	ND	0.5	1.000	146419	12/24/08	
Toluene	ND	0.5	1.000	146419	12/24/08	
trans-1,3-Dichloropropene	ND	0.5	1.000	146419	12/24/08	
1,1,2-Trichloroethane	ND	0.5	1.000	146419	12/24/08	
2-Hexanone	ND	10	1.000	146419	12/24/08	
1,3-Dichloropropane	ND	0.5	1.000	146419	12/24/08	
Tetrachloroethene	ND	0.5	1.000	146419	12/24/08	
Dibromochloromethane	ND	0.5	1.000	146419	12/24/08	
1,2-Dibromoethane	ND	0.5	1.000	146419	12/24/08	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-92A-8D1	Units:	ug/L
Lab ID:	208749-008	Sampled:	12/15/08
Matrix:	Water	Received:	12/18/08

Analyte	Result	RL	Diln Fac	Batch#	Analyzed	ADEQ Flags
Chlorobenzene	ND	0.5	1.000	146419	12/24/08	
1,1,1,2-Tetrachloroethane	ND	0.5	1.000	146419	12/24/08	
Ethylbenzene	2.6	0.5	1.000	146419	12/24/08	
m,p-Xylenes	1.1	0.5	1.000	146419	12/24/08	
o-Xylene	ND	0.5	1.000	146419	12/24/08	
Styrene	ND	0.5	1.000	146419	12/24/08	
Bromoform	ND	1.0	1.000	146419	12/24/08	
Isopropylbenzene	11	0.5	1.000	146419	12/24/08	
1,1,2,2-Tetrachloroethane	ND	0.5	1.000	146419	12/24/08	
1,2,3-Trichloropropane	ND	0.5	1.000	146419	12/24/08	
Propylbenzene	10	0.5	1.000	146419	12/24/08	
Bromobenzene	ND	0.5	1.000	146419	12/24/08	
1,3,5-Trimethylbenzene	ND	0.5	1.000	146419	12/24/08	
2-Chlorotoluene	ND	0.5	1.000	146419	12/24/08	
4-Chlorotoluene	ND	0.5	1.000	146419	12/24/08	
tert-Butylbenzene	0.8	0.5	1.000	146419	12/24/08	
1,2,4-Trimethylbenzene	1.5	0.5	1.000	146419	12/24/08	
sec-Butylbenzene	4.1	0.5	1.000	146419	12/24/08	
para-Isopropyl Toluene	0.6	0.5	1.000	146419	12/24/08	
1,3-Dichlorobenzene	ND	0.5	1.000	146419	12/24/08	
1,4-Dichlorobenzene	ND	0.5	1.000	146419	12/24/08	
n-Butylbenzene	5.4	0.5	1.000	146419	12/24/08	
1,2-Dichlorobenzene	ND	0.5	1.000	146419	12/24/08	
1,2-Dibromo-3-Chloropropane	ND	2.0	1.000	146419	12/24/08	
1,2,4-Trichlorobenzene	ND	0.5	1.000	146419	12/24/08	
Hexachlorobutadiene	ND	2.0	1.000	146419	12/24/08	L1
Naphthalene	69	2.0	1.000	146419	12/24/08	
1,2,3-Trichlorobenzene	ND	0.5	1.000	146419	12/24/08	
Xylene (total)	1.1	0.5	1.000	146419	12/24/08	

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed	ADEQ Flags
Dibromofluoromethane	96	77-120	1.000	146419	12/24/08	
1,2-Dichloroethane-d4	86	70-127	1.000	146419	12/24/08	
Toluene-d8	99	83-125	1.000	146419	12/24/08	
Bromofluorobenzene	98	78-120	1.000	146419	12/24/08	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	PL-512A-8D1	Batch#:	146470
Lab ID:	208749-009	Sampled:	12/15/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/29/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	V9
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V1
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	PL-512A-8D1	Batch#:	146470
Lab ID:	208749-009	Sampled:	12/15/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/29/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	V9
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	V9
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	V9
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	100	77-120	
1,2-Dichloroethane-d4	107	70-127	
Toluene-d8	100	83-125	
Bromofluorobenzene	104	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC477156	Batch#:	146419
Matrix:	Water	Analyzed:	12/24/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC477156	Batch#:	146419
Matrix:	Water	Analyzed:	12/24/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1 V1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	101	77-120	
1,2-Dichloroethane-d4	103	70-127	
Toluene-d8	104	83-125	
Bromofluorobenzene	101	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC477157	Batch#:	146419
Matrix:	Water	Analyzed:	12/24/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	V1
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC477157	Batch#:	146419
Matrix:	Water	Analyzed:	12/24/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	102	77-120	
1,2-Dichloroethane-d4	101	70-127	
Toluene-d8	101	83-125	
Bromofluorobenzene	103	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC477362	Batch#:	146470
Matrix:	Water	Analyzed:	12/29/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	V9
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V1
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC477362	Batch#:	146470
Matrix:	Water	Analyzed:	12/29/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	V9
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	V9
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	V9
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	101	77-120	
1,2-Dichloroethane-d4	106	70-127	
Toluene-d8	100	83-125	
Bromofluorobenzene	106	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC477491	Batch#:	146470
Matrix:	Water	Analyzed:	12/29/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	V1
Iodomethane	ND	10	V9
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	V1
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC477491	Batch#:	146470
Matrix:	Water	Analyzed:	12/29/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	100	77-120	
1,2-Dichloroethane-d4	113	70-127	
Toluene-d8	106	83-125	
Bromofluorobenzene	103	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC477155	Batch#:	146419
Matrix:	Water	Analyzed:	12/24/08
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Freon 12	25.00	21.34	85	56-140	
Chloromethane	25.00	23.28	93	46-142	
Vinyl Chloride	25.00	27.69	111	49-136	
Bromomethane	25.00	28.35	113	42-154	
Chloroethane	25.00	27.61	110	51-133	
Trichlorofluoromethane	25.00	26.28	105	63-135	
Iodomethane	25.00	28.41 b	114	70-130	
Acetone	25.00	24.21	97	48-130	
1,1-Dichloroethene	25.00	27.58	110	68-133	
Methylene Chloride	25.00	26.63	107	71-120	
Carbon Disulfide	25.00	27.77	111	56-120	
MTBE	25.00	22.76	91	58-120	
trans-1,2-Dichloroethene	25.00	27.67	111	80-120	
Vinyl Acetate	25.00	19.77 b	79	63-124	V9
1,1-Dichloroethane	25.00	26.05	104	77-120	
2-Butanone	25.00	23.31	93	57-120	
cis-1,2-Dichloroethene	25.00	26.84	107	75-120	
2,2-Dichloropropane	25.00	29.40	118	72-128	
Chloroform	25.00	26.09	104	78-120	
Bromochloromethane	25.00	24.93	100	78-120	
1,1,1-Trichloroethane	25.00	28.56	114	78-120	
1,1-Dichloropropene	25.00	28.07	112	75-120	
Carbon Tetrachloride	25.00	30.02	120	80-120	
1,2-Dichloroethane	25.00	26.24	105	74-120	
Benzene	25.00	25.59	102	77-120	
Trichloroethene	25.00	26.96	108	78-122	
1,2-Dichloropropane	25.00	24.60	98	76-120	
Bromodichloromethane	25.00	26.97	108	78-120	
Dibromomethane	25.00	27.69	111	77-120	
4-Methyl-2-Pentanone	25.00	22.46	90	65-120	
cis-1,3-Dichloropropene	25.00	25.50	102	76-120	
Toluene	25.00	26.85	107	73-120	
trans-1,3-Dichloropropene	25.00	24.05	96	72-120	
1,1,2-Trichloroethane	25.00	26.51	106	76-120	
2-Hexanone	25.00	23.71	95	57-121	
1,3-Dichloropropane	25.00	25.99	104	75-120	
Tetrachloroethene	25.00	27.72	111	77-120	

*= Value outside of QC limits; see narrative
b= See narrative

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC477155	Batch#:	146419
Matrix:	Water	Analyzed:	12/24/08
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Dibromochloromethane	25.00	25.33	101	76-120	
1,2-Dibromoethane	25.00	26.46	106	77-120	
Chlorobenzene	25.00	26.06	104	78-120	
1,1,1,2-Tetrachloroethane	25.00	26.13	105	77-120	
Ethylbenzene	25.00	26.66	107	78-120	
m,p-Xylenes	50.00	55.23	110	77-120	
o-Xylene	25.00	25.77	103	77-120	
Styrene	25.00	27.22	109	77-120	
Bromoform	25.00	26.24	105	74-121	
Isopropylbenzene	25.00	24.59	98	71-120	
1,1,2,2-Tetrachloroethane	25.00	25.71	103	73-120	
1,2,3-Trichloropropane	25.00	25.00	100	72-120	
Propylbenzene	25.00	27.60	110	76-120	
Bromobenzene	25.00	25.79	103	75-120	
1,3,5-Trimethylbenzene	25.00	26.25	105	77-120	
2-Chlorotoluene	25.00	25.08	100	76-120	
4-Chlorotoluene	25.00	25.73	103	78-120	
tert-Butylbenzene	25.00	27.40	110	76-120	
1,2,4-Trimethylbenzene	25.00	28.24	113	77-120	
sec-Butylbenzene	25.00	29.33	117	80-120	
para-Isopropyl Toluene	25.00	28.96	116	76-120	
1,3-Dichlorobenzene	25.00	24.60	98	75-120	
1,4-Dichlorobenzene	25.00	24.42	98	77-120	
n-Butylbenzene	25.00	29.90	120	76-120	
1,2-Dichlorobenzene	25.00	24.85	99	76-120	
1,2-Dibromo-3-Chloropropane	25.00	22.50	90	65-120	
1,2,4-Trichlorobenzene	25.00	25.03	100	73-121	
Hexachlorobutadiene	25.00	31.02 b	124 *	73-123	L1 V3
Naphthalene	25.00	23.89	96	62-121	
1,2,3-Trichlorobenzene	25.00	25.65	103	66-123	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	101	77-120	
1,2-Dichloroethane-d4	103	70-127	
Toluene-d8	108	83-125	
Bromofluorobenzene	92	78-120	

*= Value outside of QC limits; see narrative
b= See narrative

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-65A-8D1	Batch#:	146419
MSS Lab ID:	208749-002	Sampled:	12/15/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/24/08
Diln Fac:	1.000		

Type: MS Lab ID: QC477174

Analyte	MSS Result	Spiked	Result	%REC	Limits	ADEQ Flags
Freon 12	<0.2000	25.00	27.31	109	56-140	
Chloromethane	<0.2000	25.00	26.81	107	46-142	
Vinyl Chloride	<0.1394	25.00	31.94	128	49-136	
Bromomethane	<0.2000	25.00	30.37	121	42-154	
Chloroethane	<0.2153	25.00	30.45	122	51-133	
Trichlorofluoromethane	0.2901	25.00	33.62	133	63-135	
Iodomethane	<2.000	25.00	19.88 b	80	60-140	
Acetone	<1.000	25.00	18.94	76	48-130	
1,1-Dichloroethene	0.1647	25.00	30.46	121	68-133	
Methylene Chloride	<1.000	25.00	27.69	111	71-120	
Carbon Disulfide	<0.1000	25.00	27.52	110	56-120	
MTBE	0.7717	25.00	23.81	92	58-120	
trans-1,2-Dichloroethene	<0.1082	25.00	28.43	114	80-120	
Vinyl Acetate	<2.000	25.00	14.98 b	60 *	63-124	M2 V9
1,1-Dichloroethane	2.773	25.00	29.76	108	77-120	
2-Butanone	<2.000	25.00	23.65	95	57-120	
cis-1,2-Dichloroethene	0.5888	25.00	28.61	112	75-120	
2,2-Dichloropropane	<0.1021	25.00	31.95	128	72-128	
Chloroform	0.8701	25.00	27.88	108	78-120	
Bromochloromethane	<0.1195	25.00	26.46	106	78-120	
1,1,1-Trichloroethane	<0.1358	25.00	30.51	122 *	78-120	M1
1,1-Dichloropropene	<0.1367	25.00	29.40	118	75-120	
Carbon Tetrachloride	<0.1295	25.00	30.13	121 *	80-120	M1
1,2-Dichloroethane	<0.1080	25.00	26.80	107	74-120	
Benzene	1.438	25.00	28.28	107	77-120	
Trichloroethene	2.308	25.00	28.34	104	78-122	
1,2-Dichloropropane	<0.1143	25.00	25.70	103	76-120	
Bromodichloromethane	<0.1539	25.00	28.19	113	78-120	
Dibromomethane	<0.1298	25.00	26.20	105	77-120	
4-Methyl-2-Pentanone	<2.000	25.00	23.37	93	65-120	
cis-1,3-Dichloropropene	<0.1420	25.00	25.41	102	76-120	
Toluene	<0.1116	25.00	27.52	110	73-120	
trans-1,3-Dichloropropene	<0.1000	25.00	23.80	95	72-120	
1,1,2-Trichloroethane	<0.1347	25.00	26.12	104	76-120	
2-Hexanone	<2.000	25.00	22.94	92	57-121	
1,3-Dichloropropane	<0.1000	25.00	25.93	104	75-120	
Tetrachloroethene	0.2977	25.00	29.66	117	77-120	
Dibromochloromethane	<0.1230	25.00	24.98	100	76-120	
1,2-Dibromoethane	<0.1000	25.00	26.34	105	77-120	
Chlorobenzene	<0.1000	25.00	24.82	99	78-120	
1,1,1,2-Tetrachloroethane	<0.1000	25.00	25.81	103	77-120	
Ethylbenzene	0.2165	25.00	28.19	112	78-120	
m,p-Xylenes	<0.1581	50.00	57.71	115	77-120	
o-Xylene	<0.1000	25.00	25.68	103	77-120	
Styrene	<0.1000	25.00	12.66	51 *	77-120	M2
Bromoform	<0.2000	25.00	26.15	105	74-121	
Isopropylbenzene	0.8442	25.00	27.99	109	71-120	
1,1,2,2-Tetrachloroethane	<0.1281	25.00	27.14	109	73-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-65A-8D1	Batch#:	146419
MSS Lab ID:	208749-002	Sampled:	12/15/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/24/08
Diln Fac:	1.000		

Analyte	MSS Result	Spiked	Result	%REC	Limits	ADEQ Flags
1,2,3-Trichloropropane	<0.1000	25.00	26.16	105	72-120	
Propylbenzene	0.9030	25.00	31.70	123 *	76-120	M1
Bromobenzene	<0.1006	25.00	27.74	111	75-120	
1,3,5-Trimethylbenzene	<0.1000	25.00	29.74	119	77-120	
2-Chlorotoluene	<0.1000	25.00	28.79	115	76-120	
4-Chlorotoluene	<0.1000	25.00	27.27	109	78-120	
tert-Butylbenzene	<0.1000	25.00	29.35	117	76-120	
1,2,4-Trimethylbenzene	0.1245	25.00	30.16	120	77-120	
sec-Butylbenzene	0.2453	25.00	31.60	125 *	80-120	M1
para-Isopropyl Toluene	<0.1256	25.00	29.89	120	76-120	
1,3-Dichlorobenzene	<0.1000	25.00	25.59	102	75-120	
1,4-Dichlorobenzene	<0.1000	25.00	26.82	107	77-120	
n-Butylbenzene	0.1717	25.00	31.49	125 *	76-120	M1
1,2-Dichlorobenzene	<0.1000	25.00	26.45	106	76-120	
1,2-Dibromo-3-Chloropropane	<0.5389	25.00	25.53	102	65-120	
1,2,4-Trichlorobenzene	<0.1114	25.00	26.26	105	73-121	
Hexachlorobutadiene	<0.4000	25.00	28.56 b	114	73-123	V3
Naphthalene	1.320	25.00	27.67	105	62-121	
1,2,3-Trichlorobenzene	<0.1000	25.00	26.82	107	66-123	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	102	77-120	
1,2-Dichloroethane-d4	102	70-127	
Toluene-d8	103	83-125	
Bromofluorobenzene	103	78-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-65A-8D1	Batch#:	146419
MSS Lab ID:	208749-002	Sampled:	12/15/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/24/08
Diln Fac:	1.000		

Type: MSD Lab ID: QC477175

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
Freon 12	25.00	25.33	101	56-140	8	24	
Chloromethane	25.00	25.26	101	46-142	6	24	
Vinyl Chloride	25.00	30.10	120	49-136	6	24	
Bromomethane	25.00	32.23	129	42-154	6	24	
Chloroethane	25.00	28.94	116	51-133	5	25	
Trichlorofluoromethane	25.00	31.92	127	63-135	5	20	
Iodomethane	25.00	19.96 b	80	60-140	0	30	
Acetone	25.00	18.00	72	48-130	5	41	
1,1-Dichloroethene	25.00	28.68	114	68-133	6	20	
Methylene Chloride	25.00	26.71	107	71-120	4	20	
Carbon Disulfide	25.00	25.46	102	56-120	8	20	
MTBE	25.00	22.96	89	58-120	4	21	
trans-1,2-Dichloroethene	25.00	27.65	111	80-120	3	24	
Vinyl Acetate	25.00	15.22 b	61 *	63-124	2	24	M2 V9
1,1-Dichloroethane	25.00	29.14	105	77-120	2	20	
2-Butanone	25.00	22.97	92	57-120	3	32	
cis-1,2-Dichloroethene	25.00	27.86	109	75-120	3	20	
2,2-Dichloropropane	25.00	30.18	121	72-128	6	24	
Chloroform	25.00	27.00	105	78-120	3	20	
Bromochloromethane	25.00	25.43	102	78-120	4	20	
1,1,1-Trichloroethane	25.00	29.01	116	78-120	5	20	
1,1-Dichloropropene	25.00	26.96	108	75-120	9	21	
Carbon Tetrachloride	25.00	28.80	115	80-120	5	21	
1,2-Dichloroethane	25.00	25.37	101	74-120	5	20	
Benzene	25.00	26.52	100	77-120	6	20	
Trichloroethene	25.00	27.38	100	78-122	3	20	
1,2-Dichloropropane	25.00	24.48	98	76-120	5	20	
Bromodichloromethane	25.00	28.55	114	78-120	1	20	
Dibromomethane	25.00	26.76	107	77-120	2	20	
4-Methyl-2-Pentanone	25.00	21.66	87	65-120	8	22	
cis-1,3-Dichloropropene	25.00	24.59	98	76-120	3	20	
Toluene	25.00	26.17	105	73-120	5	20	
trans-1,3-Dichloropropene	25.00	23.02	92	72-120	3	20	
1,1,2-Trichloroethane	25.00	26.04	104	76-120	0	20	
2-Hexanone	25.00	21.48	86	57-121	7	25	
1,3-Dichloropropane	25.00	24.67	99	75-120	5	20	
Tetrachloroethene	25.00	25.79	102	77-120	14	20	
Dibromochloromethane	25.00	24.28	97	76-120	3	20	
1,2-Dibromoethane	25.00	25.95	104	77-120	2	20	
Chlorobenzene	25.00	24.06	96	78-120	3	20	
1,1,1,2-Tetrachloroethane	25.00	24.72	99	77-120	4	20	
Ethylbenzene	25.00	25.52	101	78-120	10	26	
m,p-Xylenes	50.00	51.75	103	77-120	11	20	
o-Xylene	25.00	25.94	104	77-120	1	20	
Styrene	25.00	11.56	46 *	77-120	9	20	M2
Bromoform	25.00	24.17	97	74-121	8	21	
Isopropylbenzene	25.00	26.76	104	71-120	4	20	
1,1,2,2-Tetrachloroethane	25.00	26.49	106	73-120	2	20	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-65A-8D1	Batch#:	146419
MSS Lab ID:	208749-002	Sampled:	12/15/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/24/08
Diln Fac:	1.000		

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
1,2,3-Trichloropropane	25.00	25.22	101	72-120	4	20	
Propylbenzene	25.00	28.42	110	76-120	11	20	
Bromobenzene	25.00	25.46	102	75-120	9	20	
1,3,5-Trimethylbenzene	25.00	29.02	116	77-120	2	20	
2-Chlorotoluene	25.00	27.96	112	76-120	3	20	
4-Chlorotoluene	25.00	26.56	106	78-120	3	20	
tert-Butylbenzene	25.00	27.64	111	76-120	6	21	
1,2,4-Trimethylbenzene	25.00	28.56	114	77-120	5	20	
sec-Butylbenzene	25.00	29.28	116	80-120	8	21	
para-Isopropyl Toluene	25.00	26.07	104	76-120	14	20	
1,3-Dichlorobenzene	25.00	24.89	100	75-120	3	20	
1,4-Dichlorobenzene	25.00	24.94	100	77-120	7	23	
n-Butylbenzene	25.00	28.71	114	76-120	9	21	
1,2-Dichlorobenzene	25.00	25.80	103	76-120	2	20	
1,2-Dibromo-3-Chloropropane	25.00	24.95	100	65-120	2	22	
1,2,4-Trichlorobenzene	25.00	24.92	100	73-121	5	20	
Hexachlorobutadiene	25.00	27.10 b	108	73-123	5	25	V3
Naphthalene	25.00	26.96	103	62-121	3	32	
1,2,3-Trichlorobenzene	25.00	25.76	103	66-123	4	29	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	101	77-120	
1,2-Dichloroethane-d4	99	70-127	
Toluene-d8	99	83-125	
Bromofluorobenzene	100	78-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	146470
Units:	ug/L	Analyzed:	12/29/08
Diln Fac:	1.000		

Type: BS Lab ID: QC477360

Analyte	Spiked	Result		%REC	Limits	ADEQ Flags
Freon 12	20.00	13.94		70	56-140	
Chloromethane	20.00	16.04		80	46-142	
Vinyl Chloride	20.00	20.37		102	49-136	
Bromomethane	20.00	24.02		120	42-154	
Chloroethane	20.00	17.92		90	51-133	
Trichlorofluoromethane	20.00	20.05		100	63-135	
Iodomethane	20.00	22.09	b	110	70-130	V9
Acetone	20.00	16.75		84	48-130	
1,1-Dichloroethene	20.00	20.62		103	68-133	
Methylene Chloride	20.00	21.58		108	71-120	
Carbon Disulfide	20.00	19.54		98	56-120	
MTBE	20.00	16.63		83	58-120	
trans-1,2-Dichloroethene	20.00	20.13		101	80-120	
Vinyl Acetate	20.00	17.64	b	88	63-124	V3
1,1-Dichloroethane	20.00	20.19		101	77-120	
2-Butanone	20.00	15.96		80	57-120	
cis-1,2-Dichloroethene	20.00	20.06		100	75-120	
2,2-Dichloropropane	20.00	23.50		117	72-128	
Chloroform	20.00	20.52		103	78-120	
Bromochloromethane	20.00	20.38		102	78-120	
1,1,1-Trichloroethane	20.00	21.41		107	78-120	
1,1-Dichloropropene	20.00	21.04		105	75-120	
Carbon Tetrachloride	20.00	22.84		114	80-120	
1,2-Dichloroethane	20.00	21.61		108	74-120	
Benzene	20.00	20.31		102	77-120	
Trichloroethene	20.00	20.32		102	78-122	
1,2-Dichloropropane	20.00	19.46		97	76-120	
Bromodichloromethane	20.00	21.67		108	78-120	
Dibromomethane	20.00	20.17		101	77-120	
4-Methyl-2-Pentanone	20.00	17.42		87	65-120	
cis-1,3-Dichloropropene	20.00	20.43		102	76-120	
Toluene	20.00	21.67		108	73-120	
trans-1,3-Dichloropropene	20.00	18.67		93	72-120	
1,1,2-Trichloroethane	20.00	20.88		104	76-120	
2-Hexanone	20.00	15.93		80	57-121	
1,3-Dichloropropane	20.00	19.77		99	75-120	
Tetrachloroethene	20.00	21.34		107	77-120	
Dibromochloromethane	20.00	19.79		99	76-120	
1,2-Dibromoethane	20.00	19.88		99	77-120	
Chlorobenzene	20.00	19.30		97	78-120	
1,1,1,2-Tetrachloroethane	20.00	19.46		97	77-120	
Ethylbenzene	20.00	20.15		101	78-120	
m,p-Xylenes	40.00	38.96		97	77-120	
o-Xylene	20.00	20.09		100	77-120	
Styrene	20.00	19.30		97	77-120	
Bromoform	20.00	19.41		97	74-121	
Isopropylbenzene	20.00	17.89		89	71-120	
1,1,2,2-Tetrachloroethane	20.00	17.96		90	73-120	
1,2,3-Trichloropropane	20.00	18.02		90	72-120	
Propylbenzene	20.00	20.74		104	76-120	
Bromobenzene	20.00	21.31		107	75-120	

b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	146470
Units:	ug/L	Analyzed:	12/29/08
Diln Fac:	1.000		

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
1,3,5-Trimethylbenzene	20.00	20.93	105	77-120	
2-Chlorotoluene	20.00	20.23	101	76-120	
4-Chlorotoluene	20.00	20.01	100	78-120	
tert-Butylbenzene	20.00	20.46	102	76-120	
1,2,4-Trimethylbenzene	20.00	21.25	106	77-120	
sec-Butylbenzene	20.00	21.11 b	106	80-120	V9
para-Isopropyl Toluene	20.00	21.36	107	76-120	
1,3-Dichlorobenzene	20.00	20.30	102	75-120	
1,4-Dichlorobenzene	20.00	20.18	101	77-120	
n-Butylbenzene	20.00	20.62 b	103	76-120	V9
1,2-Dichlorobenzene	20.00	20.50	102	76-120	
1,2-Dibromo-3-Chloropropane	20.00	17.23	86	65-120	
1,2,4-Trichlorobenzene	20.00	20.94	105	73-121	
Hexachlorobutadiene	20.00	22.03 b	110	73-123	V9
Naphthalene	20.00	20.20	101	62-121	
1,2,3-Trichlorobenzene	20.00	20.68	103	66-123	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	99	77-120	
1,2-Dichloroethane-d4	104	70-127	
Toluene-d8	105	83-125	
Bromofluorobenzene	101	78-120	

b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	146470
Units:	ug/L	Analyzed:	12/29/08
Diln Fac:	1.000		

Type: BSD Lab ID: QC477361

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
Freon 12	20.00	14.40	72	56-140	3	24	
Chloromethane	20.00	16.38	82	46-142	2	24	
Vinyl Chloride	20.00	21.52	108	49-136	5	24	
Bromomethane	20.00	22.83	114	42-154	5	24	
Chloroethane	20.00	18.03	90	51-133	1	25	
Trichlorofluoromethane	20.00	20.51	103	63-135	2	20	
Iodomethane	20.00	25.39 b	127	70-130	14	20	V9
Acetone	20.00	17.42	87	48-130	4	41	
1,1-Dichloroethene	20.00	21.66	108	68-133	5	20	
Methylene Chloride	20.00	22.35	112	71-120	3	20	
Carbon Disulfide	20.00	19.87	99	56-120	2	20	
MTBE	20.00	17.12	86	58-120	3	21	
trans-1,2-Dichloroethene	20.00	20.19	101	80-120	0	24	
Vinyl Acetate	20.00	17.57 b	88	63-124	0	24	V3
1,1-Dichloroethane	20.00	21.16	106	77-120	5	20	
2-Butanone	20.00	16.66	83	57-120	4	32	
cis-1,2-Dichloroethene	20.00	21.01	105	75-120	5	20	
2,2-Dichloropropane	20.00	23.56	118	72-128	0	24	
Chloroform	20.00	20.74	104	78-120	1	20	
Bromochloromethane	20.00	20.89	104	78-120	2	20	
1,1,1-Trichloroethane	20.00	21.74	109	78-120	2	20	
1,1-Dichloropropene	20.00	20.66	103	75-120	2	21	
Carbon Tetrachloride	20.00	22.18	111	80-120	3	21	
1,2-Dichloroethane	20.00	21.71	109	74-120	0	20	
Benzene	20.00	21.25	106	77-120	4	20	
Trichloroethene	20.00	20.89	104	78-122	3	20	
1,2-Dichloropropane	20.00	19.06	95	76-120	2	20	
Bromodichloromethane	20.00	21.43	107	78-120	1	20	
Dibromomethane	20.00	20.44	102	77-120	1	20	
4-Methyl-2-Pentanone	20.00	17.48	87	65-120	0	22	
cis-1,3-Dichloropropene	20.00	20.06	100	76-120	2	20	
Toluene	20.00	21.07	105	73-120	3	20	
trans-1,3-Dichloropropene	20.00	19.52	98	72-120	4	20	
1,1,2-Trichloroethane	20.00	19.71	99	76-120	6	20	
2-Hexanone	20.00	15.58	78	57-121	2	25	
1,3-Dichloropropane	20.00	19.44	97	75-120	2	20	
Tetrachloroethene	20.00	20.82	104	77-120	2	20	
Dibromochloromethane	20.00	20.17	101	76-120	2	20	
1,2-Dibromoethane	20.00	19.77	99	77-120	1	20	
Chlorobenzene	20.00	20.45	102	78-120	6	20	
1,1,1,2-Tetrachloroethane	20.00	20.03	100	77-120	3	20	
Ethylbenzene	20.00	21.16	106	78-120	5	26	
m,p-Xylenes	40.00	40.82	102	77-120	5	20	
o-Xylene	20.00	19.77	99	77-120	2	20	
Styrene	20.00	19.67	98	77-120	2	20	
Bromoform	20.00	19.92	100	74-121	3	21	
Isopropylbenzene	20.00	18.66	93	71-120	4	20	
1,1,2,2-Tetrachloroethane	20.00	18.14	91	73-120	1	20	
1,2,3-Trichloropropane	20.00	18.31	92	72-120	2	20	
Propylbenzene	20.00	20.58	103	76-120	1	20	
Bromobenzene	20.00	21.63	108	75-120	1	20	

b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	146470
Units:	ug/L	Analyzed:	12/29/08
Diln Fac:	1.000		

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
1,3,5-Trimethylbenzene	20.00	21.08	105	77-120	1	20	
2-Chlorotoluene	20.00	20.55	103	76-120	2	20	
4-Chlorotoluene	20.00	20.00	100	78-120	0	20	
tert-Butylbenzene	20.00	21.21	106	76-120	4	21	
1,2,4-Trimethylbenzene	20.00	21.51	108	77-120	1	20	
sec-Butylbenzene	20.00	20.85 b	104	80-120	1	21	V9
para-Isopropyl Toluene	20.00	20.93	105	76-120	2	20	
1,3-Dichlorobenzene	20.00	20.42	102	75-120	1	20	
1,4-Dichlorobenzene	20.00	20.06	100	77-120	1	23	
n-Butylbenzene	20.00	21.07 b	105	76-120	2	21	V9
1,2-Dichlorobenzene	20.00	19.73	99	76-120	4	20	
1,2-Dibromo-3-Chloropropane	20.00	17.46	87	65-120	1	22	
1,2,4-Trichlorobenzene	20.00	22.12	111	73-121	5	20	
Hexachlorobutadiene	20.00	22.67 b	113	73-123	3	25	V9
Naphthalene	20.00	20.25	101	62-121	0	32	
1,2,3-Trichlorobenzene	20.00	21.16	106	66-123	2	29	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	99	77-120	
1,2-Dichloroethane-d4	104	70-127	
Toluene-d8	106	83-125	
Bromofluorobenzene	100	78-120	

b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	146470
MSS Lab ID:	208744-008	Sampled:	12/17/08
Matrix:	Water	Received:	12/17/08
Units:	ug/L	Analyzed:	12/30/08
Diln Fac:	1.000		

Type: MS Lab ID: QC477492

Analyte	MSS Result	Spiked	Result	%REC	Limits	ADEQ Flags
Freon 12	<0.1098	25.00	21.25	85	56-140	
Chloromethane	<0.1231	25.00	24.54	98	46-142	
Vinyl Chloride	<0.1008	25.00	30.80	123	49-136	
Bromomethane	<0.1959	25.00	29.85	119	42-154	
Chloroethane	<0.09607	25.00	26.43	106	51-133	
Trichlorofluoromethane	<0.07825	25.00	30.03 b	120	63-135	V3
Iodomethane	<0.1632	25.00	30.48 b	122	60-140	V9
Acetone	<0.4259	25.00	23.01	92	48-130	
1,1-Dichloroethene	<0.1026	25.00	30.00	120	68-133	
Methylene Chloride	0.1643	25.00	29.77	118	71-120	
Carbon Disulfide	<0.05354	25.00	28.35	113	56-120	
MTBE	<0.04976	25.00	22.45	90	58-120	
trans-1,2-Dichloroethene	0.3794	25.00	28.59	113	80-120	
Vinyl Acetate	<0.4776	25.00	20.20	81	63-124	
1,1-Dichloroethane	<0.1236	25.00	28.65	115	77-120	
2-Butanone	<0.3127	25.00	22.47	90	57-120	
cis-1,2-Dichloroethene	4.169	25.00	31.55	110	75-120	
2,2-Dichloropropane	<0.08090	25.00	30.20 b	121	72-128	V3
Chloroform	0.1022	25.00	28.76	115	78-120	
Bromochloromethane	<0.1208	25.00	25.82	103	78-120	
1,1,1-Trichloroethane	<0.1015	25.00	30.68	123 *	78-120	M1
1,1-Dichloropropene	<0.1087	25.00	29.04	116	75-120	
Carbon Tetrachloride	<0.1217	25.00	31.74	127 *	80-120	M1
1,2-Dichloroethane	<0.08180	25.00	29.20	117	74-120	
Benzene	<0.02493	25.00	27.11	108	77-120	
Trichloroethene	44.89	25.00	64.06	77 *	78-122	M2
1,2-Dichloropropane	<0.05883	25.00	25.78	103	76-120	
Bromodichloromethane	<0.09132	25.00	27.61	110	78-120	
Dibromomethane	<0.07267	25.00	26.36	105	77-120	
4-Methyl-2-Pentanone	<0.1150	25.00	22.92	92	65-120	
cis-1,3-Dichloropropene	<0.04572	25.00	25.13	101	76-120	
Toluene	<0.06218	25.00	28.55	114	73-120	
trans-1,3-Dichloropropene	<0.05784	25.00	23.40	94	72-120	
1,1,2-Trichloroethane	<0.1239	25.00	26.67	107	76-120	
2-Hexanone	<0.2722	25.00	20.74	83	57-121	
1,3-Dichloropropane	<0.05638	25.00	26.42	106	75-120	
Tetrachloroethene	<0.1340	25.00	27.31	109	77-120	
Dibromochloromethane	<0.05904	25.00	24.75	99	76-120	
1,2-Dibromoethane	<0.04429	25.00	24.84	99	77-120	
Chlorobenzene	<0.07061	25.00	25.38	102	78-120	
1,1,1,2-Tetrachloroethane	<0.03770	25.00	26.25	105	77-120	
Ethylbenzene	<0.05668	25.00	28.65	115	78-120	
m,p-Xylenes	<0.1095	50.00	52.85	106	77-120	
o-Xylene	<0.09534	25.00	25.39	102	77-120	
Styrene	<0.05396	25.00	25.20	101	77-120	
Bromoform	<0.06648	25.00	24.15	97	74-121	
Isopropylbenzene	<0.07341	25.00	24.28	97	71-120	
1,1,2,2-Tetrachloroethane	<0.02879	25.00	24.84	99	73-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	146470
MSS Lab ID:	208744-008	Sampled:	12/17/08
Matrix:	Water	Received:	12/17/08
Units:	ug/L	Analyzed:	12/30/08
Diln Fac:	1.000		

Analyte	MSS Result	Spiked	Result	%REC	Limits	ADEQ Flags
1,2,3-Trichloropropane	<0.08642	25.00	23.84	95	72-120	
Propylbenzene	<0.08697	25.00	27.70	111	76-120	
Bromobenzene	<0.1262	25.00	27.14	109	75-120	
1,3,5-Trimethylbenzene	<0.08740	25.00	28.02	112	77-120	
2-Chlorotoluene	<0.08245	25.00	27.73	111	76-120	
4-Chlorotoluene	<0.07341	25.00	26.46	106	78-120	
tert-Butylbenzene	<0.06633	25.00	27.50	110	76-120	
1,2,4-Trimethylbenzene	<0.07576	25.00	28.27	113	77-120	
sec-Butylbenzene	<0.07314	25.00	28.65 b	115	80-120	
para-Isopropyl Toluene	<0.06627	25.00	27.25	109	76-120	
1,3-Dichlorobenzene	<0.1084	25.00	26.20	105	75-120	
1,4-Dichlorobenzene	<0.04456	25.00	24.58	98	77-120	
n-Butylbenzene	<0.06512	25.00	29.37 b	117	76-120	
1,2-Dichlorobenzene	<0.1247	25.00	26.81	107	76-120	
1,2-Dibromo-3-Chloropropane	<0.3780	25.00	25.50	102	65-120	
1,2,4-Trichlorobenzene	<0.09898	25.00	27.05	108	73-121	
Hexachlorobutadiene	<0.1866	25.00	27.36	109	73-123	
Naphthalene	<0.4155	25.00	27.32	109	62-121	
1,2,3-Trichlorobenzene	<0.1586	25.00	26.73	107	66-123	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	104	77-120	
1,2-Dichloroethane-d4	113	70-127	
Toluene-d8	106	83-125	
Bromofluorobenzene	103	78-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	146470
MSS Lab ID:	208744-008	Sampled:	12/17/08
Matrix:	Water	Received:	12/17/08
Units:	ug/L	Analyzed:	12/30/08
Diln Fac:	1.000		

Type: MSD Lab ID: QC477493

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
Freon 12	25.00	20.07	80	56-140	6	24	
Chloromethane	25.00	23.04	92	46-142	6	24	
Vinyl Chloride	25.00	29.12	116	49-136	6	24	
Bromomethane	25.00	31.89	128	42-154	7	24	
Chloroethane	25.00	24.28	97	51-133	8	25	
Trichlorofluoromethane	25.00	29.17 b	117	63-135	3	20	V3
Iodomethane	25.00	32.45 b	130	60-140	6	30	V9
Acetone	25.00	20.60	82	48-130	11	41	
1,1-Dichloroethene	25.00	29.29	117	68-133	2	20	
Methylene Chloride	25.00	28.61	114	71-120	4	20	
Carbon Disulfide	25.00	27.10	108	56-120	5	20	
MTBE	25.00	20.67	83	58-120	8	21	
trans-1,2-Dichloroethene	25.00	28.11	111	80-120	2	24	
Vinyl Acetate	25.00	18.35	73	63-124	10	24	
1,1-Dichloroethane	25.00	27.07	108	77-120	6	20	
2-Butanone	25.00	21.44	86	57-120	5	32	
cis-1,2-Dichloroethene	25.00	30.65	106	75-120	3	20	
2,2-Dichloropropane	25.00	28.04 b	112	72-128	7	24	V3
Chloroform	25.00	27.42	109	78-120	5	20	
Bromochloromethane	25.00	25.11	100	78-120	3	20	
1,1,1-Trichloroethane	25.00	29.57	118	78-120	4	20	
1,1-Dichloropropene	25.00	28.86	115	75-120	1	21	
Carbon Tetrachloride	25.00	30.73	123 *	80-120	3	21	M1
1,2-Dichloroethane	25.00	28.63	115	74-120	2	20	
Benzene	25.00	28.21	113	77-120	4	20	
Trichloroethene	25.00	63.43	74 *	78-122	1	20	M2
1,2-Dichloropropane	25.00	25.78	103	76-120	0	20	
Bromodichloromethane	25.00	27.74	111	78-120	0	20	
Dibromomethane	25.00	25.65	103	77-120	3	20	
4-Methyl-2-Pentanone	25.00	23.00	92	65-120	0	22	
cis-1,3-Dichloropropene	25.00	24.91	100	76-120	1	20	
Toluene	25.00	26.84	107	73-120	6	20	
trans-1,3-Dichloropropene	25.00	23.96	96	72-120	2	20	
1,1,2-Trichloroethane	25.00	26.19	105	76-120	2	20	
2-Hexanone	25.00	20.00	80	57-121	4	25	
1,3-Dichloropropane	25.00	25.04	100	75-120	5	20	
Tetrachloroethene	25.00	26.23	105	77-120	4	20	
Dibromochloromethane	25.00	23.77	95	76-120	4	20	
1,2-Dibromoethane	25.00	24.53	98	77-120	1	20	
Chlorobenzene	25.00	24.95	100	78-120	2	20	
1,1,1,2-Tetrachloroethane	25.00	24.45	98	77-120	7	20	
Ethylbenzene	25.00	25.89	104	78-120	10	26	
m,p-Xylenes	50.00	49.87	100	77-120	6	20	
o-Xylene	25.00	24.75	99	77-120	3	20	
Styrene	25.00	24.03	96	77-120	5	20	
Bromoform	25.00	23.46	94	74-121	3	21	
Isopropylbenzene	25.00	23.75	95	71-120	2	20	
1,1,2,2-Tetrachloroethane	25.00	23.54	94	73-120	5	20	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208749	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	146470
MSS Lab ID:	208744-008	Sampled:	12/17/08
Matrix:	Water	Received:	12/17/08
Units:	ug/L	Analyzed:	12/30/08
Diln Fac:	1.000		

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
1,2,3-Trichloropropane	25.00	22.87	91	72-120	4	20	
Propylbenzene	25.00	26.18	105	76-120	6	20	
Bromobenzene	25.00	25.89	104	75-120	5	20	
1,3,5-Trimethylbenzene	25.00	26.84	107	77-120	4	20	
2-Chlorotoluene	25.00	26.58	106	76-120	4	20	
4-Chlorotoluene	25.00	25.35	101	78-120	4	20	
tert-Butylbenzene	25.00	25.35	101	76-120	8	21	
1,2,4-Trimethylbenzene	25.00	26.87	107	77-120	5	20	
sec-Butylbenzene	25.00	27.14 b	109	80-120	5	21	
para-Isopropyl Toluene	25.00	26.08	104	76-120	4	20	
1,3-Dichlorobenzene	25.00	24.38	98	75-120	7	20	
1,4-Dichlorobenzene	25.00	24.32	97	77-120	1	23	
n-Butylbenzene	25.00	27.12 b	108	76-120	8	21	
1,2-Dichlorobenzene	25.00	24.75	99	76-120	8	20	
1,2-Dibromo-3-Chloropropane	25.00	22.55	90	65-120	12	22	
1,2,4-Trichlorobenzene	25.00	25.76	103	73-121	5	20	
Hexachlorobutadiene	25.00	26.00	104	73-123	5	25	
Naphthalene	25.00	24.87	99	62-121	9	32	
1,2,3-Trichlorobenzene	25.00	24.10	96	66-123	10	29	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	103	77-120	
1,2-Dichloroethane-d4	115	70-127	
Toluene-d8	102	83-125	
Bromofluorobenzene	107	78-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

CURTIS & TOMPKINS BFB TUNE FOR 208749 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 458468482014 File : fkk14 Time : 20-NOV-2008 16:09

Standards: S9454

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	13627	15.43	
75	30% - 60% of mass 95	34213	38.75	
95		88293		
96	5% - 9% of mass 95	5645	6.39	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	77104	87.33	
175	5% - 9% of mass 174	5993	7.77	
176	> 95% and < 101% of mass 174	76701	99.48	
177	5% - 9% of mass 176	5145	6.71	

Analyst: BO Date: 11/21/08 Reviewer: ACM Date: 11/21/08

CURTIS & TOMPKINS BFB TUNE FOR 208749 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 458517413002 File : flo02 Time : 24-DEC-2008 08:04

Standards: S10902

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	49565	15.75	
75	30% - 60% of mass 95	117616	37.36	
95		314794		
96	5% - 9% of mass 95	20619	6.55	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	273578	86.91	
175	5% - 9% of mass 174	20386	7.45	
176	> 95% and < 101% of mass 174	265600	97.08	
177	5% - 9% of mass 176	17785	6.70	

Analyst: BO Date: 12/24/08 Reviewer: ACM Date: 12/29/08

CURTIS & TOMPKINS BFB TUNE FOR 208749 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 458517413013 File : flo13 Time : 24-DEC-2008 14:18

Standards: S10902

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	57176	16.10	
75	30% - 60% of mass 95	131701	37.10	
95		355029		
96	5% - 9% of mass 95	23719	6.68	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	314090	88.47	
175	5% - 9% of mass 174	23896	7.61	
176	> 95% and < 101% of mass 174	299285	95.29	
177	5% - 9% of mass 176	18964	6.34	

Analyst: BO Date: 12/29/08 Reviewer: ACM Date: 12/29/08

CURTIS & TOMPKINS BFB TUNE FOR 208749 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : BFB IDF : 1.0
Seqnum : 488459048002 File : ikd02 Time : 13-NOV-2008 22:57

Standards: S9454

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	20742	18.11	
75	30% - 60% of mass 95	47576	41.54	
95		114520		
96	5% - 9% of mass 95	7803	6.81	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	82538	72.07	
175	5% - 9% of mass 174	6666	8.08	
176	> 95% and < 101% of mass 174	79117	95.86	
177	5% - 9% of mass 176	5587	7.06	

Analyst: MJM Date: 11/14/08 Reviewer: ACM Date: 11/14/08

CURTIS & TOMPKINS BFB TUNE FOR 208749 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : BFB IDF : 1.0
Seqnum : 488459956002 File : ike02 Time : 14-NOV-2008 11:50

Standards: S9454

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	46399	19.47	
75	30% - 60% of mass 95	102181	42.88	
95		238306		
96	5% - 9% of mass 95	16219	6.81	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	159722	67.02	
175	5% - 9% of mass 174	11567	7.24	
176	> 95% and < 101% of mass 174	155277	97.22	
177	5% - 9% of mass 176	10404	6.70	

Analyst: MJM Date: 11/14/08 Reviewer: ACM Date: 11/14/08

CURTIS & TOMPKINS BFB TUNE FOR 208749 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : BFB IDF : 1.0
Seqnum : 488524736002 File : ilt02 Time : 29-DEC-2008 10:21

Standards: S10902

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	29749	17.22	
75	30% - 60% of mass 95	72448	41.94	
95		172736		
96	5% - 9% of mass 95	10965	6.35	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	126517	73.24	
175	5% - 9% of mass 174	8815	6.97	
176	> 95% and < 101% of mass 174	126274	99.81	
177	5% - 9% of mass 176	7644	6.05	

Analyst: MJM Date: 12/29/08 Reviewer: ACM Date: 12/30/08

CURTIS & TOMPKINS BFB TUNE FOR 208749 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : BFB IDF : 1.0
Seqnum : 488524736010 File : ilt10 Time : 29-DEC-2008 14:41

Standards: S10902

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	18602	16.41	
75	30% - 60% of mass 95	46920	41.39	
95		113357		
96	5% - 9% of mass 95	7677	6.77	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	93005	82.05	
175	5% - 9% of mass 174	7066	7.60	
176	> 95% and < 101% of mass 174	90448	97.25	
177	5% - 9% of mass 176	5454	6.03	

Analyst: MJM Date: 12/29/08 Reviewer: ACM Date: 12/30/08

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 208749 MSVOA Water: EPA 8260B

Inst : MSVOA06 Name : 826GOX6W
Calnum : 458468482002 Date : 20-NOV-2008 18:54 Type : WATER
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	fkk19	458468482019	0.25PPB	20-NOV-2008 18:54	S10756 (2000000X), S10619 (2000000X), S10653 (1000000X), S9073 (2000000X), S10447 (1000X)
L2	fkk20	458468482020	0.5PPB	20-NOV-2008 19:28	S10756 (1000000X), S10619 (1000000X), S10653 (500000X), S9073 (1000000X), S10447 (1000X)
L3	fkk21	458468482021	2PPB	20-NOV-2008 20:02	S10756 (250000X), S10619 (250000X), S10653 (250000X), S9073 (500000X), S10447 (1000X)
L4	fkk22	458468482022	5PPB	20-NOV-2008 20:36	S10756 (100000X), S10619 (100000X), S10653 (100000X), S9073 (200000X), S10447 (1000X)
L5	fkk23	458468482023	10PPB	20-NOV-2008 21:11	S10756 (50000X), S10619 (50000X), S10653 (50000X), S9073 (100000X), S10447 (1000X)
L6	fkk24	458468482024	20PPB	20-NOV-2008 21:45	S10756 (25000X), S10619 (25000X), S10653 (25000X), S9073 (50000X), S10447 (1000X)
L7	fkk25	458468482025	50PPB	20-NOV-2008 22:19	S10756 (10000X), S10619 (10000X), S10653 (10000X), S9073 (20000X), S10447 (1000X)
L8	fkk26	458468482026	75PPB	20-NOV-2008 22:53	S10756 (6667X), S10619 (6667X), S10653 (6667X), S9073 (13330X), S10447 (1000X)
L9	fkk27	458468482027	100PPB	20-NOV-2008 23:28	S10756 (5000X), S10619 (5000X), S10653 (5000X), S9073 (10000X), S10447 (1000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12	0.6477m	0.5656m	0.8454m	0.5532	0.5981	0.5029	0.6945	0.8107		QUAD	0.07610	1.80204	-0.00946	0.6523	0.998	15	0.05	0.99	
Chloromethane		0.9120	1.0398m	0.8574m	0.9261	0.7973	0.8813	0.8769	0.9183	AVRG		1.10970		0.9011	8	15	0.10	0.99	
Vinyl Chloride	0.6186	0.5959m	0.7893m	0.5598m	0.6264	0.5569	0.6827	0.7578	0.7322	AVRG		1.52036		0.6577	13	15	0.05	0.99	
Bromomethane		0.1930m	0.2567m	0.2550m	0.3034	0.2679	0.3026	0.3182	0.3165	AVRG		3.61455		0.2767	15	15	0.05	0.99	
Chloroethane		0.2923	0.4104m	0.3212m	0.3726	0.3217	0.3698	0.3835	0.3545	AVRG		2.83075		0.3533	11	15	0.05	0.99	
Trichlorofluoromethane	0.8273	0.6040	0.8892	0.5834	0.6697	0.5610	0.7684	0.8422		QUAD	0.22995	1.57748	-0.00635	0.7181	0.998	15	0.05	0.99	
Acetone			0.3710	0.3072	0.3329	0.3066	0.3294	0.3094	0.3034	AVRG		3.09739		0.3229	8	15	0.05	0.99	
1,1-Dichloroethene		0.5390	0.5372	0.4875	0.5458	0.5394	0.5632	0.5255	0.5359	AVRG		1.87202		0.5342	4	15	0.05	0.99	
Iodomethane	0.2512m	0.2547	0.1985	0.2369	0.4263	0.5013	0.6536			QUAD	0.98411	2.12895	-0.01928	0.3604	0.998	15	0.05	0.99	
Methylene Chloride			0.7555	0.7020	0.7777	0.7282	0.7274	0.7409	0.6984	AVRG		1.36448		0.7329	4	15	0.05	0.99	
Carbon Disulfide		1.9732	2.0441	1.9382	2.1352	2.1460	2.1501	2.1023	2.0997	AVRG		0.48225		2.0736	4	15	0.05	0.99	
MTBE		1.8448	1.9060	1.8521	2.0989	1.9539	1.9188	1.8955	1.8013	AVRG		0.52386		1.9089	5	15	0.05	0.99	
trans-1,2-Dichloroethene		0.5724	0.6436	0.5699	0.6624	0.6271	0.6206	0.6152	0.6125	AVRG		1.62478		0.6155	5	15	0.05	0.99	
Vinyl Acetate			1.4646	1.3551	1.4651	1.4441	1.3282	1.1582	1.2586	AVRG		0.73887		1.3534	9	15	0.05	0.99	
1,1-Dichloroethane		1.1776	1.3258	1.1169	1.2878	1.2281	1.2081	1.1790	1.1551	AVRG		0.82659		1.2098	6	15	0.10	0.99	
2-Butanone			0.4453	0.3964	0.4502	0.4328	0.4482	0.3979	0.4069	AVRG		2.35082		0.4254	6	15	0.05	0.99	
2,2-Dichloropropane		0.6786	0.6640	0.6592	0.7122	0.6598	0.7015	0.6263	0.6552	AVRG		1.49344		0.6696	4	15	0.05	0.99	
cis-1,2-Dichloroethene		0.7223	0.7479	0.6878	0.7508	0.7135	0.7124	0.6781	0.6675	AVRG		1.40840		0.7100	4	15	0.05	0.99	
Chloroform		1.1011	1.1817	0.9979	1.1557	1.1104	1.1029	1.0849	1.0483	AVRG		0.91087		1.0978	5	15	0.05	0.99	
Bromochloromethane		0.4453	0.4569	0.4219	0.4393	0.4106	0.4205	0.4021	0.3778	AVRG		2.37086		0.4218	6	15	0.05	0.99	
1,1,1-Trichloroethane		0.6786	0.6238	0.6419	0.6958	0.6787	0.7016	0.6478	0.6849	AVRG		1.49443		0.6692	4	15	0.05	0.99	
1,1-Dichloropropene		0.4729	0.4341	0.4096	0.4634	0.4519	0.4448	0.4139	0.4414	AVRG		2.26500		0.4415	5	15	0.05	0.99	
Carbon Tetrachloride		0.3579	0.3097	0.3470	0.3746	0.3690	0.4029	0.3392	0.3707	AVRG		2.78631		0.3589	8	15	0.05	0.99	
1,2-Dichloroethane		0.4235	0.4701	0.4850	0.5038	0.4928	0.4932	0.4776	0.4512	AVRG		2.10680		0.4747	6	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		1.4164	1.5484	1.4447	1.5657	1.5800	1.5338	1.4807	1.4213	AVRG		0.66716		1.4989	4	15	0.05	0.99	
Trichloroethene		0.3697	0.3608	0.3472	0.3727	0.3785	0.3762	0.3664	0.3544	AVRG		2.73401		0.3658	3	15	0.05	0.99	
1,2-Dichloropropane		0.4435	0.4550	0.4382	0.4770	0.4693	0.4468	0.4365	0.3983	AVRG		2.24433		0.4456	5	15	0.05	0.99	
Bromodichloromethane		0.4415	0.4802	0.4840	0.5273	0.5310	0.5354	0.5045	0.4853	AVRG		2.00542		0.4986	6	15	0.05	0.99	
Dibromomethane		0.2300	0.2969	0.2910	0.3043	0.3130	0.3027	0.2996	0.2881	AVRG		3.44004		0.2907	9	15	0.05	0.99	
4-Methyl-2-Pentanone			0.4959	0.4811	0.5008	0.5289	0.5033	0.4753	0.4843	AVRG		2.01743		0.4957	4	15	0.05	0.99	
cis-1,3-Dichloropropene		0.6246	0.6565	0.6505	0.6813	0.6704	0.6664	0.6453	0.6113	AVRG		1.53661		0.6508	4	15	0.05	0.99	
Toluene		0.8146	0.8853	0.8122	0.9430	0.8216	0.8864	0.8331	0.7821	AVRG		1.18022		0.8473	6	15	0.05	0.99	
trans-1,3-Dichloropropene		0.5134	0.5798	0.5280	0.6186	0.5837	0.6048	0.5817	0.5529	AVRG		1.75321		0.5704	6	15	0.05	0.99	
1,1,2-Trichloroethane		0.1829	0.1999	0.2064	0.2296	0.2242	0.2147	0.2110	0.2022	AVRG		4.78775		0.2089	7	15	0.05	0.99	
2-Hexanone			0.4174	0.3862	0.4263	0.4429	0.4268	0.4108	0.3985	AVRG		2.40632		0.4156	5	15	0.05	0.99	
1,3-Dichloropropane		0.7309	0.7680	0.7370	0.8303	0.7496	0.7260	0.7478	0.7151	AVRG		1.33229		0.7506	5	15	0.05	0.99	
Tetrachloroethene		0.4671	0.3880	0.3940	0.4274	0.4027	0.4365	0.3896	0.4448	AVRG		2.38796		0.4188	7	15	0.05	0.99	
Dibromochloromethane		0.5128	0.5363	0.5575	0.6187	0.5950	0.5587	0.5842	0.5715	AVRG		1.76417		0.5668	6	15	0.05	0.99	
1,2-Dibromoethane		0.3918	0.4380	0.4352	0.4647	0.4605	0.4395	0.4345	0.4239	AVRG		2.29346		0.4360	5	15	0.05	0.99	
Chlorobenzene		1.2018	1.3036	1.2462	1.3654	1.2216	1.2035	1.1940	1.1691	AVRG		0.80766		1.2382	5	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.4243	0.4402	0.4451	0.4881	0.4392	0.4457	0.4558	0.4371	AVRG		2.23746		0.4469	4	15	0.05	0.99	
Ethylbenzene		1.8818	1.8141	1.7404	1.8654	1.7387	1.7386	1.6694	1.7063	AVRG		0.56518		1.7693	4	15	0.05	0.99	
m,p-Xylenes	0.6758	0.7117	0.7093	0.6555	0.7591	0.6902	0.6493	0.6463	0.6219	AVRG		1.47082		0.6799	6	15	0.05	0.99	
o-Xylene		0.7474	0.7130	0.7380	0.8050	0.7101	0.7081	0.6705	0.6743	AVRG		1.38732		0.7208	6	15	0.05	0.99	
Styrene		1.1668	1.2083	1.2783	1.3591	1.2751	1.2064	1.2359	1.1947	AVRG		0.80609		1.2406	5	15	0.05	0.99	
Bromoform		0.3384	0.4010	0.3872	0.4298	0.4176	0.4104	0.4216	0.4280	AVRG		2.47363		0.4043	7	15	0.10	0.99	
Isopropylbenzene		3.0309	3.1358	2.8764	3.1730	3.2802	3.1139	2.6768	3.0122	AVRG		0.32923		3.0374	6	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		1.2187	1.3367	1.2470	1.3233	1.3741	1.2816	1.1398	1.1738	AVRG		0.79248		1.2619	7	15	0.30	0.99	
1,2,3-Trichloropropane		0.9947	1.0412	0.9590	1.0409	1.0688	0.9486	0.8885	0.9096	AVRG		1.01894		0.9814	7	15	0.05	0.99	
Propylbenzene		3.6590	3.6765	3.6088	3.8859	3.6238	3.5999	2.9929	3.2114	AVRG		0.28310		3.5323	8	15	0.05	0.99	
Bromobenzene		1.0963	1.1176	1.1603	1.1995	1.1560	1.0828	1.0219	0.9894	AVRG		0.90664		1.1030	6	15	0.05	0.99	
1,3,5-Trimethylbenzene		2.7137	2.5669	2.3754	2.5792	2.5702	2.4624	2.0936	2.1615	AVRG		0.40977		2.4404	9	15	0.05	0.99	
2-Chlorotoluene		2.6839	2.7820	2.5064	2.7425	2.6461	2.4760	2.2110	2.1634	AVRG		0.39582		2.5264	9	15	0.05	0.99	
4-Chlorotoluene		2.5391	2.6318	2.3726	2.6948	2.5134	2.4123	2.2333	2.2632	AVRG		0.40691		2.4576	7	15	0.05	0.99	
tert-Butylbenzene		2.0682	2.1355	2.0728	2.3030	2.1681	2.1491	1.7917	2.0084	AVRG		0.47913		2.0871	7	15	0.05	0.99	
1,2,4-Trimethylbenzene		2.4841	2.6946	2.4595	2.8300	2.7523	2.4361	2.3412	2.3804	AVRG		0.39258		2.5473	7	15	0.05	0.99	
sec-Butylbenzene		2.6941	2.9373	2.8182	3.2195	3.0012	2.9793	2.5388	2.8537	AVRG		0.34719		2.8803	7	15	0.05	0.99	
para-Isopropyl Toluene		2.3222	2.4065	2.4900	2.8276	2.5056	2.4662	2.2356	2.4075	AVRG		0.40689		2.4577	7	15	0.05	0.99	
1,3-Dichlorobenzene		1.8624	1.9265	1.8008	2.0384	2.0149	1.7742	1.7265	1.7346	AVRG		0.53770		1.8598	7	15	0.05	0.99	
1,4-Dichlorobenzene		1.9640	1.9539	1.7998	2.0434	2.0272	1.8866	1.8327	1.7681	AVRG		0.52371		1.9095	5	15	0.05	0.99	
n-Butylbenzene		2.0336	2.0045	1.9628	2.3176	2.0874	2.1481	1.9081	2.0601	AVRG		0.48420		2.0653	6	15	0.05	0.99	
1,2-Dichlorobenzene		1.6521	1.8060	1.8047	1.9114	1.8783	1.7213	1.7061	1.6942	AVRG		0.56441		1.7718	5	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.2027	0.2132	0.1812	0.1817	0.2018	0.1917	0.1875	0.1815	AVRG		5.19028		0.1927	6	15	0.05	0.99	
1,2,4-Trichlorobenzene		0.9808	1.0314	0.9145	1.0720	0.9912	0.9648	0.9062	0.9141	AVRG		1.02892		0.9719	6	15	0.05	0.99	
Hexachlorobutadiene		0.3912	0.3325	0.3555	0.3981	0.3490	0.3611	0.2936	0.3587	AVRG		2.81722		0.3550	9	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene		2.4957	2.6121	2.5931	2.9375	3.0324	2.8585	2.8640	2.8128	AVRG		0.36026		2.7758	7	15	0.05	0.99	
1,2,3-Trichlorobenzene		0.9184	0.8977	0.8231	0.9863	1.0044	0.8833	0.8869	0.9203	AVRG		1.09283		0.9151	6	15	0.05	0.99	
Dibromofluoromethane	0.6058	0.6022	0.6119	0.6105	0.5974	0.6059	0.5972	0.5918	0.5932	AVRG		1.66175		0.6018	1	15	0.05	0.99	
1,2-Dichloroethane-d4	0.3077	0.3168	0.3283	0.3237	0.3184	0.3303	0.3215	0.3005	0.3060	AVRG		3.15437		0.3170	3	15	0.05	0.99	
Toluene-d8	1.0044	0.9486	1.0031	1.0163	0.9886	1.0385	0.9811	1.0217	1.0037	AVRG		0.99934		1.0007	3	15	0.05	0.99	
Bromofluorobenzene	1.0593	0.9793	1.0003	1.0272	1.0410	1.0415	0.9604	0.8944	0.9258	AVRG		1.00794		0.9921	6	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Freon 12	0.500	32	1.000	9	2.000	55	5.000	0	10.00	5	20.00	-14	50.00	2	75.00	0		
Chloromethane			1.000	1	2.000	15	5.000	-5	10.00	3	20.00	-12	50.00	-2	75.00	-3	100.0	2
Vinyl Chloride	0.500	-6	1.000	-9	2.000	20	5.000	-15	10.00	-5	20.00	-15	50.00	4	75.00	15	100.0	11
Bromomethane			1.000	-30	2.000	-7	5.000	-8	10.00	10	20.00	-3	50.00	9	75.00	15	100.0	14
Chloroethane			1.000	-17	2.000	16	5.000	-9	10.00	5	20.00	-9	50.00	5	75.00	9	100.0	0
Trichlorofluoromethane	0.500	76	1.000	18	2.000	51	5.000	-4	10.00	5	20.00	-14	50.00	3	75.00	-1		
Acetone					2.000	15	5.000	-5	10.00	3	20.00	-5	50.00	2	75.00	-4	100.0	-6
1,1-Dichloroethene			0.500	1	2.000	1	5.000	-9	10.00	2	20.00	1	50.00	5	75.00	-2	100.0	0
Iodomethane	0.250	347	0.500	151	2.000	-9	5.000	-30	10.00	-3	20.00	2	50.00	0				
Methylene Chloride					2.000	3	5.000	-4	10.00	6	20.00	-1	50.00	-1	75.00	1	100.0	-5
Carbon Disulfide			0.500	-5	2.000	-1	5.000	-7	10.00	3	20.00	3	50.00	4	75.00	1	100.0	1
MTBE			0.500	-3	2.000	0	5.000	-3	10.00	10	20.00	2	50.00	1	75.00	-1	100.0	-6
trans-1,2-Dichloroethene			0.500	-7	2.000	5	5.000	-7	10.00	8	20.00	2	50.00	1	75.00	0	100.0	0
Vinyl Acetate					2.000	8	5.000	0	10.00	8	20.00	7	50.00	-2	75.00	-14	100.0	-7
1,1-Dichloroethane			0.500	-3	2.000	10	5.000	-8	10.00	6	20.00	2	50.00	0	75.00	-3	100.0	-5
2-Butanone					2.000	5	5.000	-7	10.00	6	20.00	2	50.00	5	75.00	-6	100.0	-4
2,2-Dichloropropane			0.500	1	2.000	-1	5.000	-2	10.00	6	20.00	-1	50.00	5	75.00	-6	100.0	-2
cis-1,2-Dichloroethene			0.500	2	2.000	5	5.000	-3	10.00	6	20.00	0	50.00	0	75.00	-5	100.0	-6
Chloroform			0.500	0	2.000	8	5.000	-9	10.00	5	20.00	1	50.00	0	75.00	-1	100.0	-5
Bromochloromethane			0.500	6	2.000	8	5.000	0	10.00	4	20.00	-3	50.00	0	75.00	-5	100.0	-10
1,1,1-Trichloroethane			0.500	1	2.000	-7	5.000	-4	10.00	4	20.00	1	50.00	5	75.00	-3	100.0	2
1,1-Dichloropropene			0.500	7	2.000	-2	5.000	-7	10.00	5	20.00	2	50.00	1	75.00	-6	100.0	0
Carbon Tetrachloride			0.500	0	2.000	-14	5.000	-3	10.00	4	20.00	3	50.00	12	75.00	-5	100.0	3
1,2-Dichloroethane			0.500	-11	2.000	-1	5.000	2	10.00	6	20.00	4	50.00	4	75.00	1	100.0	-5
Benzene			0.500	-6	2.000	3	5.000	-4	10.00	4	20.00	5	50.00	2	75.00	-1	100.0	-5
Trichloroethene			0.500	1	2.000	-1	5.000	-5	10.00	2	20.00	3	50.00	3	75.00	0	100.0	-3
1,2-Dichloropropane			0.500	0	2.000	2	5.000	-2	10.00	7	20.00	5	50.00	0	75.00	-2	100.0	-11
Bromodichloromethane			0.500	-11	2.000	-4	5.000	-3	10.00	6	20.00	6	50.00	7	75.00	1	100.0	-3
Dibromomethane			0.500	-21	2.000	2	5.000	0	10.00	5	20.00	8	50.00	4	75.00	3	100.0	-1
4-Methyl-2-Pentanone					2.000	0	5.000	-3	10.00	1	20.00	7	50.00	2	75.00	-4	100.0	-2
cis-1,3-Dichloropropene			0.500	-4	2.000	1	5.000	0	10.00	5	20.00	3	50.00	2	75.00	-1	100.0	-6
Toluene			0.500	-4	2.000	4	5.000	-4	10.00	11	20.00	-3	50.00	5	75.00	-2	100.0	-8
trans-1,3-Dichloropropene			0.500	-10	2.000	2	5.000	-7	10.00	8	20.00	2	50.00	6	75.00	2	100.0	-3
1,1,2-Trichloroethane			0.500	-12	2.000	-4	5.000	-1	10.00	10	20.00	7	50.00	3	75.00	1	100.0	-3
2-Hexanone					2.000	0	5.000	-7	10.00	3	20.00	7	50.00	3	75.00	-1	100.0	-4
1,3-Dichloropropane			0.500	-3	2.000	2	5.000	-2	10.00	11	20.00	0	50.00	-3	75.00	0	100.0	-5
Tetrachloroethene			0.500	12	2.000	-7	5.000	-6	10.00	2	20.00	-4	50.00	4	75.00	-7	100.0	6
Dibromochloromethane			0.500	-10	2.000	-5	5.000	-2	10.00	9	20.00	5	50.00	-1	75.00	3	100.0	1
1,2-Dibromoethane			0.500	-10	2.000	0	5.000	0	10.00	7	20.00	6	50.00	1	75.00	0	100.0	-3
Chlorobenzene			0.500	-3	2.000	5	5.000	1	10.00	10	20.00	-1	50.00	-3	75.00	-4	100.0	-6
1,1,1,2-Tetrachloroethane			0.500	-5	2.000	-2	5.000	0	10.00	9	20.00	-2	50.00	0	75.00	2	100.0	-2
Ethylbenzene			0.500	6	2.000	3	5.000	-2	10.00	5	20.00	-2	50.00	-2	75.00	-6	100.0	-4

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
m,p-Xylenes	0.500	-1	1.000	5	4.000	4	10.00	-4	20.00	12	40.00	2	100.0	-4	150.0	-5	200.0	-9
o-Xylene			0.500	4	2.000	-1	5.000	2	10.00	12	20.00	-1	50.00	-2	75.00	-7	100.0	-6
Styrene			0.500	-6	2.000	-3	5.000	3	10.00	10	20.00	3	50.00	-3	75.00	0	100.0	-4
Bromoform			0.500	-16	2.000	-1	5.000	-4	10.00	6	20.00	3	50.00	2	75.00	4	100.0	6
Isopropylbenzene			0.500	0	2.000	3	5.000	-5	10.00	4	20.00	8	50.00	3	75.00	-12	100.0	-1
1,1,2,2-Tetrachloroethane			0.500	-3	2.000	6	5.000	-1	10.00	5	20.00	9	50.00	2	75.00	-10	100.0	-7
1,2,3-Trichloropropane			0.500	1	2.000	6	5.000	-2	10.00	6	20.00	9	50.00	-3	75.00	-9	100.0	-7
Propylbenzene			0.500	4	2.000	4	5.000	2	10.00	10	20.00	3	50.00	2	75.00	-15	100.0	-9
Bromobenzene			0.500	-1	2.000	1	5.000	5	10.00	9	20.00	5	50.00	-2	75.00	-7	100.0	-10
1,3,5-Trimethylbenzene			0.500	11	2.000	5	5.000	-3	10.00	6	20.00	5	50.00	1	75.00	-14	100.0	-11
2-Chlorotoluene			0.500	6	2.000	10	5.000	-1	10.00	9	20.00	5	50.00	-2	75.00	-12	100.0	-14
4-Chlorotoluene			0.500	3	2.000	7	5.000	-3	10.00	10	20.00	2	50.00	-2	75.00	-9	100.0	-8
tert-Butylbenzene			0.500	-1	2.000	2	5.000	-1	10.00	10	20.00	4	50.00	3	75.00	-14	100.0	-4
1,2,4-Trimethylbenzene			0.500	-2	2.000	6	5.000	-3	10.00	11	20.00	8	50.00	-4	75.00	-8	100.0	-7
sec-Butylbenzene			0.500	-6	2.000	2	5.000	-2	10.00	12	20.00	4	50.00	3	75.00	-12	100.0	-1
para-Isopropyl Toluene			0.500	-6	2.000	-2	5.000	1	10.00	15	20.00	2	50.00	0	75.00	-9	100.0	-2
1,3-Dichlorobenzene			0.500	0	2.000	4	5.000	-3	10.00	10	20.00	8	50.00	-5	75.00	-7	100.0	-7
1,4-Dichlorobenzene			0.500	3	2.000	2	5.000	-6	10.00	7	20.00	6	50.00	-1	75.00	-4	100.0	-7
n-Butylbenzene			0.500	-2	2.000	-3	5.000	-5	10.00	12	20.00	1	50.00	4	75.00	-8	100.0	0
1,2-Dichlorobenzene			0.500	-7	2.000	2	5.000	2	10.00	8	20.00	6	50.00	-3	75.00	-4	100.0	-4
1,2-Dibromo-3-Chloropropane			0.500	5	2.000	11	5.000	-6	10.00	-6	20.00	5	50.00	-1	75.00	-3	100.0	-6
1,2,4-Trichlorobenzene			0.500	1	2.000	6	5.000	-6	10.00	10	20.00	2	50.00	-1	75.00	-7	100.0	-6
Hexachlorobutadiene			0.500	10	2.000	-6	5.000	0	10.00	12	20.00	-2	50.00	2	75.00	-17	100.0	1
Naphthalene			0.500	-10	2.000	-6	5.000	-7	10.00	6	20.00	9	50.00	3	75.00	3	100.0	1
1,2,3-Trichlorobenzene			0.500	0	2.000	-2	5.000	-10	10.00	8	20.00	10	50.00	-3	75.00	-3	100.0	1
Dibromofluoromethane	50.00	1	50.00	0	50.00	2	50.00	1	50.00	-1	50.00	1	50.00	-1	50.00	-2	50.00	-1
1,2-Dichloroethane-d4	50.00	-3	50.00	0	50.00	4	50.00	2	50.00	0	50.00	4	50.00	1	50.00	-5	50.00	-3
Toluene-d8	50.00	0	50.00	-5	50.00	0	50.00	2	50.00	-1	50.00	4	50.00	-2	50.00	2	50.00	0
Bromofluorobenzene	50.00	7	50.00	-1	50.00	1	50.00	4	50.00	5	50.00	5	50.00	-3	50.00	-10	50.00	-7

BO 11/21/08 : Manual integrations were made due to fronting/tailing of peaks, except for Bromomethane which was integrated to raise the baseline due to noise

Analyst: BO Date: 11/21/08 Reviewer: ACM Date: 11/21/08

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; QUAD=Quadratic regression

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 208749 MSVOA Water
EPA 8260B

Inst : MSVOA06 Name : 826GOX6W
Calnum : 458468482002 Cal Date : 20-NOV-2008 Type : WATER

ICV 458468482028 (fkk28 21-NOV-2008) stds: S10631 (10000X), S10447 (1000X)
ICV 458468482029 (fkk29 21-NOV-2008) stds: S10654 (10000X), S10798 (10000X), S10788 (10000X), S10447 (1000X)

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	458468482028	0.6523	0.6183	25.00	25.67	ug/L	3	25	
Chloromethane	458468482028	0.9011	0.7419	25.00	20.58	ug/L	-18	25	
Vinyl Chloride	458468482028	0.6577	0.7466	25.00	28.38	ug/L	14	25	
Bromomethane	458468482028	0.2767	0.2219	25.00	20.05	ug/L	-20	25	
Chloroethane	458468482028	0.3533	0.3134	25.00	22.18	ug/L	-11	25	
Trichlorofluoromethane	458468482028	0.7181	0.7269	25.00	26.80	ug/L	7	25	
Acetone	458468482029	0.3229	0.2969	25.00	22.99	ug/L	-8	25	
1,1-Dichloroethene	458468482029	0.5342	0.5779	25.00	27.05	ug/L	8	25	
Iodomethane	458468482029	0.3604	0.2156	25.00	11.90	ug/L	**-52**	25	v- ***
Methylene Chloride	458468482029	0.7329	0.7315	25.00	24.95	ug/L	0	25	
Carbon Disulfide	458468482029	2.0736	2.0503	25.00	24.72	ug/L	-1	25	
MTBE	458468482029	1.9089	1.6999	25.00	22.26	ug/L	-11	25	
trans-1,2-Dichloroethene	458468482029	0.6155	0.6477	25.00	26.31	ug/L	5	25	
Vinyl Acetate	458468482029	1.3534	0.9237	25.00	17.06	ug/L	**-32**	25	v- ***
1,1-Dichloroethane	458468482029	1.2098	1.1919	25.00	24.63	ug/L	-1	25	
2-Butanone	458468482029	0.4254	0.3758	25.00	22.09	ug/L	-12	25	
2,2-Dichloropropane	458468482029	0.6696	0.6737	25.00	25.15	ug/L	1	25	
cis-1,2-Dichloroethene	458468482029	0.7100	0.7126	25.00	25.09	ug/L	0	25	
Chloroform	458468482029	1.0978	1.0713	25.00	24.40	ug/L	-2	25	
Bromochloromethane	458468482029	0.4218	0.3950	25.00	23.41	ug/L	-6	25	
1,1,1-Trichloroethane	458468482029	0.6692	0.7239	25.00	27.04	ug/L	8	25	
1,1-Dichloropropene	458468482029	0.4415	0.4956	25.00	28.06	ug/L	12	25	
Carbon Tetrachloride	458468482029	0.3589	0.4153	25.00	28.93	ug/L	16	25	
1,2-Dichloroethane	458468482029	0.4747	0.4647	25.00	24.47	ug/L	-2	25	
Benzene	458468482029	1.4989	1.5405	25.00	25.69	ug/L	3	25	
Trichloroethene	458468482029	0.3658	0.3974	25.00	27.16	ug/L	9	25	
1,2-Dichloropropane	458468482029	0.4456	0.4417	25.00	24.78	ug/L	-1	25	
Bromodichloromethane	458468482029	0.4986	0.5145	25.00	25.79	ug/L	3	25	
Dibromomethane	458468482029	0.2907	0.2992	25.00	25.73	ug/L	3	25	
4-Methyl-2-Pentanone	458468482029	0.4957	0.4561	25.00	23.01	ug/L	-8	25	
cis-1,3-Dichloropropene	458468482029	0.6508	0.6214	25.00	23.87	ug/L	-5	25	
Toluene	458468482029	0.8473	0.9101	25.00	26.85	ug/L	7	25	
trans-1,3-Dichloropropene	458468482029	0.5704	0.5250	25.00	23.01	ug/L	-8	25	
1,1,2-Trichloroethane	458468482029	0.2089	0.2147	25.00	25.70	ug/L	3	25	
2-Hexanone	458468482029	0.4156	0.3925	25.00	23.61	ug/L	-6	25	
1,3-Dichloropropane	458468482029	0.7506	0.7684	25.00	25.59	ug/L	2	25	
Tetrachloroethene	458468482029	0.4188	0.4715	25.00	28.15	ug/L	13	25	
Dibromochloromethane	458468482029	0.5668	0.5681	25.00	25.06	ug/L	0	25	
1,2-Dibromoethane	458468482029	0.4360	0.4362	25.00	25.01	ug/L	0	25	
Chlorobenzene	458468482029	1.2382	1.2117	25.00	24.47	ug/L	-2	25	
1,1,1,2-Tetrachloroethane	458468482029	0.4469	0.4543	25.00	25.41	ug/L	2	25	
Ethylbenzene	458468482029	1.7693	1.8355	25.00	25.94	ug/L	4	25	
m,p-Xylenes	458468482029	0.6799	0.7220	50.00	53.10	ug/L	6	25	
o-Xylene	458468482029	0.7208	0.7255	25.00	25.16	ug/L	1	25	
Styrene	458468482029	1.2406	1.2565	25.00	25.32	ug/L	1	25	
Bromoform	458468482029	0.4043	0.4197	25.00	25.96	ug/L	4	25	
Isopropylbenzene	458468482029	3.0374	2.8809	25.00	23.71	ug/L	-5	25	

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	458468482029	1.2619	1.1922	25.00	23.62	ug/L	-6	25	
1,2,3-Trichloropropane	458468482029	0.9814	0.9500	25.00	24.20	ug/L	-3	25	
Propylbenzene	458468482029	3.5323	3.8946	25.00	27.56	ug/L	10	25	
Bromobenzene	458468482029	1.1030	1.1645	25.00	26.39	ug/L	6	25	
1,3,5-Trimethylbenzene	458468482029	2.4404	2.5856	25.00	26.49	ug/L	6	25	
2-Chlorotoluene	458468482029	2.5264	2.6010	25.00	25.74	ug/L	3	25	
4-Chlorotoluene	458468482029	2.4576	2.4107	25.00	24.52	ug/L	-2	25	
tert-Butylbenzene	458468482029	2.0871	2.3029	25.00	27.59	ug/L	10	25	
1,2,4-Trimethylbenzene	458468482029	2.5473	2.7542	25.00	27.03	ug/L	8	25	
sec-Butylbenzene	458468482029	2.8803	3.2369	25.00	28.10	ug/L	12	25	
para-Isopropyl Toluene	458468482029	2.4577	2.5805	25.00	26.25	ug/L	5	25	
1,3-Dichlorobenzene	458468482029	1.8598	1.8497	25.00	24.86	ug/L	-1	25	
1,4-Dichlorobenzene	458468482029	1.9095	1.8322	25.00	23.99	ug/L	-4	25	
n-Butylbenzene	458468482029	2.0653	2.3800	25.00	28.81	ug/L	15	25	
1,2-Dichlorobenzene	458468482029	1.7718	1.7633	25.00	24.88	ug/L	0	25	
1,2-Dibromo-3-Chloropropane	458468482029	0.1927	0.1836	25.00	23.82	ug/L	-5	25	
1,2,4-Trichlorobenzene	458468482029	0.9719	0.9695	25.00	24.94	ug/L	0	25	
Hexachlorobutadiene	458468482029	0.3550	0.4023	25.00	28.33	ug/L	13	25	
Naphthalene	458468482029	2.7758	2.9697	25.00	26.75	ug/L	7	25	
1,2,3-Trichlorobenzene	458468482029	0.9151	0.9388	25.00	25.65	ug/L	3	25	

-=low bias v=ICV

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 208749 MSVOA Water: EPA 8260B

Inst : MSVOA09 Name : 826GOX9W
Calnum : 488459048001 Date : 14-NOV-2008 01:07 Type : WATER
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	ikd06	488459048006		14-NOV-2008 01:07	S10756 (1000000X), S10355 (500000X), S9073 (1000000X), S10619 (1000000X), S10716 (2500X)
L2	ikd07	488459048007		14-NOV-2008 01:40	S10756 (250000X), S10355 (250000X), S9073 (500000X), S10619 (250000X), S10716 (2500X)
L3	ikd08	488459048008		14-NOV-2008 02:15	S10756 (100000X), S10355 (100000X), S9073 (200000X), S10619 (100000X), S10716 (2500X)
L4	ikd09	488459048009		14-NOV-2008 02:48	S10756 (50000X), S10355 (50000X), S9073 (100000X), S10619 (50000X), S10716 (2500X)
L5	ikd10	488459048010		14-NOV-2008 03:22	S10756 (25000X), S10355 (25000X), S9073 (50000X), S10619 (25000X), S10716 (2500X)
L6	ikd11	488459048011		14-NOV-2008 03:56	S10756 (10000X), S10355 (10000X), S9073 (20000X), S10619 (10000X), S10716 (2500X)
L7	ikd12	488459048012		14-NOV-2008 04:30	S10756 (6667X), S10355 (6667X), S9073 (13330X), S10619 (6667X), S10716 (2500X)
L8	ikd13	488459048013		14-NOV-2008 05:04	S10756 (5000X), S10355 (5000X), S9073 (10000X), S10619 (5000X), S10716 (2500X)
L9	ikd19	488459048019		14-NOV-2008 10:45	S10756 (2000000X), S10355 (1000000X), S9073 (2000000X), S10619 (2000000X), S10716 (2500X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12	0.4003m	0.6701m	0.6851	0.6738	0.7449	0.7296	0.7126	0.6819		QUAD	0.79684	1.22709	0.003259	0.6623	1.000	15	0.05	0.99	
Chloromethane	0.9690m	0.9571m	0.9463	0.9445m	0.9182	0.8848	0.9015	0.8973		AVRG		1.07835		0.9273	3	15	0.10	0.99	
Vinyl Chloride	0.6835	0.7830m	0.7178m	0.7550	0.7716	0.7695	0.7669	0.7432	0.9087m	AVRG		1.30450		0.7666	8	15	0.05	0.99	
Bromomethane	0.3248m	0.3440m	0.3821	0.3547m	0.3555	0.3909	0.4312	0.4317		AVRG		2.65345		0.3769	10	15	0.05	0.99	
Chloroethane	0.4865m	0.4658m	0.4771	0.4658	0.4635	0.4528	0.4543	0.4458		AVRG		2.15548		0.4639	3	15	0.05	0.99	
Trichlorofluoromethane	0.5787	0.7927	0.7054	0.7328	0.7735	0.7529	0.7627	0.7040		AVRG		1.37868		0.7253	9	15	0.05	0.99	
Acetone			0.2289	0.2196	0.2108	0.2199	0.2286	0.2387		AVRG		4.45630		0.2244	4	15	0.05	0.99	
1,1-Dichloroethene	0.4480	0.4934	0.5305	0.4275	0.4642	0.4766	0.4988	0.4853		AVRG		2.09189		0.4780	7	15	0.05	0.99	
Iodomethane		0.1932	0.2741	0.4035m	0.5590	0.7136	0.6971	0.6406		LINR	2.38992	1.45129		0.4973	0.994	15	0.05	0.99	
Methylene Chloride		0.6632	0.6322	0.6150	0.6096	0.6057	0.6009	0.5968		AVRG		1.61905		0.6176	4	15	0.05	0.99	
Carbon Disulfide	2.1201	2.0948	2.1095	1.8360	1.9528	1.9905	2.0135	1.8779		AVRG		0.50016		1.9994	5	15	0.05	0.99	
MTBE	1.8042	1.5823	1.4933	1.4922	1.5113	1.4824	1.4420	1.4488		AVRG		0.65272		1.5321	8	15	0.05	0.99	
trans-1,2-Dichloroethene	0.5885	0.6271	0.5980	0.5285	0.5490	0.5718	0.5733	0.5496		AVRG		1.74455		0.5732	5	15	0.05	0.99	
Vinyl Acetate		1.1473	1.1328	1.1414	1.2968	1.3013	1.2070	1.2809		AVRG		0.82281		1.2154	6	15	0.05	0.99	
1,1-Dichloroethane	1.2027	1.0871	1.0957	0.9577	0.9991	1.0054	1.0006	0.9760		AVRG		0.96103		1.0405	8	15	0.10	0.99	
2-Butanone		0.4419	0.3401	0.3359	0.3244	0.3194	0.3274	0.3416		AVRG		2.87964		0.3473	12	15	0.05	0.99	
2,2-Dichloropropane	0.5746	0.6105	0.6156	0.5406	0.5746	0.6188	0.6038	0.5893		AVRG		1.69214		0.5910	5	15	0.05	0.99	
cis-1,2-Dichloroethene	0.6874	0.6651	0.6456	0.6320	0.6183	0.6264	0.6354	0.6186		AVRG		1.55980		0.6411	4	15	0.05	0.99	
Chloroform	1.1259	1.0075	0.9719	0.9221	0.9149	0.9047	0.9116	0.9056		AVRG		1.04383		0.9580	8	15	0.05	0.99	
Bromochloromethane	0.3748	0.3225	0.3327	0.3155	0.3146	0.3177	0.3178	0.3096		AVRG		3.07095		0.3256	6	15	0.05	0.99	
1,1,1-Trichloroethane	0.7332	0.7501	0.6542	0.5719	0.5886	0.6633	0.6579	0.6477		AVRG		1.51894		0.6584	9	15	0.05	0.99	
1,1-Dichloropropene	0.4719	0.4802	0.4264	0.3622	0.3820	0.4398	0.4357	0.4058		AVRG		2.35026		0.4255	10	15	0.05	0.99	
Carbon Tetrachloride	0.2695	0.3723	0.3326	0.2785	0.2937	0.3523	0.3388	0.3285		AVRG		3.11746		0.3208	11	15	0.05	0.99	
1,2-Dichloroethane	0.4263	0.4010	0.3838	0.3953	0.3761	0.3726	0.3648	0.3777		AVRG		2.58270		0.3872	5	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene	1.5071	1.3599	1.3030	1.2095	1.2354	1.2535	1.2092	1.1222		AVRG		0.78432		1.2750	9	15	0.05	0.99	
Trichloroethene	0.3953	0.3679	0.3594	0.3151	0.3184	0.3440	0.3484	0.3288		AVRG		2.88051		0.3472	8	15	0.05	0.99	
1,2-Dichloropropane	0.4453	0.4620	0.4211	0.3912	0.3807	0.3980	0.3911	0.3813		AVRG		2.44595		0.4088	8	15	0.05	0.99	
Bromodichloromethane	0.6063	0.4609	0.4385	0.4192	0.4204	0.4315	0.4237	0.4193		AVRG		2.21005		0.4525	14	15	0.05	0.99	
Dibromomethane	0.3216	0.2864	0.2582	0.2701	0.2526	0.2511	0.2488	0.2450		AVRG		3.74925		0.2667	10	15	0.05	0.99	
4-Methyl-2-Pentanone	0.4238	0.4435	0.3926	0.4258	0.4102	0.4114	0.3887	0.4077		AVRG		2.42148		0.4130	4	15	0.05	0.99	
cis-1,3-Dichloropropene	0.6252	0.6029	0.5737	0.5503	0.5560	0.5654	0.5676	0.5356		AVRG		1.74804		0.5721	5	15	0.05	0.99	
Toluene	0.8487	0.7926	0.7884	0.7115	0.6933	0.7715	0.7496	0.7250		AVRG		1.31566		0.7601	7	15	0.05	0.99	
trans-1,3-Dichloropropene	0.5219	0.5127	0.4708	0.4825	0.4845	0.4991	0.4995	0.4809		AVRG		2.02442		0.4940	4	15	0.05	0.99	
1,1,2-Trichloroethane	0.2100	0.1969	0.1797	0.1855	0.1823	0.1791	0.1744	0.1731		AVRG		5.40195		0.1851	7	15	0.05	0.99	
2-Hexanone		0.4162	0.3407	0.3564	0.3716	0.3525	0.3291	0.3581		AVRG		2.77273		0.3607	8	15	0.05	0.99	
1,3-Dichloropropane	0.6988	0.6257	0.6211	0.6290	0.6508	0.6519	0.5981	0.6187		AVRG		1.57042		0.6368	5	15	0.05	0.99	
Tetrachloroethene	0.3413	0.3640	0.3750	0.2935	0.3126	0.3975	0.3809	0.3678		AVRG		2.82424		0.3541	10	15	0.05	0.99	
Dibromochloromethane	0.4727	0.4427	0.4523	0.4379	0.4389	0.4580	0.4351	0.4338		AVRG		2.24010		0.4464	3	15	0.05	0.99	
1,2-Dibromoethane	0.4647	0.3864	0.3654	0.3643	0.3547	0.3619	0.3472	0.3433		AVRG		2.67754		0.3735	10	15	0.05	0.99	
Chlorobenzene	1.2098	1.0781	1.0428	0.9459	0.9736	1.0396	1.0027	0.9459		AVRG		0.97105		1.0298	8	15	0.30	0.99	
1,1,1,2-Tetrachloroethane	0.4459	0.3967	0.3765	0.3309	0.3354	0.3730	0.3569	0.3553		AVRG		2.69298		0.3713	10	15	0.05	0.99	
Ethylbenzene	1.9166	1.8387	1.7929	1.4182	1.4757	1.7278	1.5770	1.4486		AVRG		0.60627		1.6494	12	15	0.05	0.99	
m,p-Xylenes	0.7266	0.6701	0.6517	0.5307	0.5547	0.6726	0.6122	0.5581	0.8223	AVRG		1.55202		0.6443	14	15	0.05	0.99	
o-Xylene	0.7502	0.6743	0.6442	0.5780	0.5716	0.6896	0.6274	0.5948		AVRG		1.55944		0.6413	10	15	0.05	0.99	
Styrene	1.2450	1.1953	1.1868	1.0597	1.0752	1.2110	1.1068	1.0300		AVRG		0.87817		1.1387	7	15	0.05	0.99	
Bromoform	0.3069	0.2963	0.3096	0.2995	0.2978	0.3258	0.3024	0.3090		AVRG		3.26894		0.3059	3	15	0.10	0.99	
Isopropylbenzene	3.8825	3.8166	3.5932	2.8104	3.0636	3.6696	3.3609	3.0186		AVRG		0.29395		3.4019	12	15	0.05	0.99	
1,1,2,2-Tetrachloroethane	1.6126	1.3552	1.1339	1.1887	1.2243	1.2363	1.1130	1.1378		AVRG		0.79986		1.2502	13	15	0.30	0.99	
1,2,3-Trichloropropane	0.3848	0.3019	0.2896	0.2746	0.2890	0.2735	0.2624	0.2741		AVRG		3.40421		0.2938	13	15	0.05	0.99	
Propylbenzene	4.7667	4.7283	4.4016	3.4534	3.9025	4.4602	3.9748	3.4401		AVRG		0.24149		4.1409	13	15	0.05	0.99	
Bromobenzene	0.9579	1.0035	0.9167	0.8607	0.9110	0.9653	0.9240	0.8939		AVRG		1.07628		0.9291	5	15	0.05	0.99	
1,3,5-Trimethylbenzene	3.2526	3.0530	2.7368	2.3178	2.4563	2.9690	2.6885	2.4184		AVRG		0.36542		2.7366	12	15	0.05	0.99	
2-Chlorotoluene	3.4550	3.1040	2.8346	2.4595	2.6067	2.9395	2.6565	2.4173		AVRG		0.35598		2.8091	12	15	0.05	0.99	
4-Chlorotoluene	2.7610	2.9045	2.7406	2.3356	2.4602	2.7323	2.5462	2.4278		AVRG		0.38262		2.6135	8	15	0.05	0.99	
tert-Butylbenzene	2.4642	2.3558	2.2148	1.7519	1.8439	2.3756	2.3151	2.1136		AVRG		0.45885		2.1794	12	15	0.05	0.99	
1,2,4-Trimethylbenzene	3.2522	2.9398	2.6420	2.2897	2.5227	2.9979	2.7215	2.5506		AVRG		0.36502		2.7396	11	15	0.05	0.99	
sec-Butylbenzene	3.1302	3.8159	3.4615	2.7131	2.9823	3.9234	3.6349	3.1265		AVRG		0.29864		3.3485	13	15	0.05	0.99	
para-Isopropyl Toluene	2.3078	2.7280	2.5917	2.0409	2.1792	2.8507	2.7609	2.4831		AVRG		0.40116		2.4928	12	15	0.05	0.99	
1,3-Dichlorobenzene	1.9339	1.8060	1.6578	1.4605	1.5133	1.7291	1.6553	1.5567		AVRG		0.60093		1.6641	9	15	0.05	0.99	
1,4-Dichlorobenzene	1.7881	1.8322	1.7340	1.5167	1.5800	1.7467	1.7024	1.6413		AVRG		0.59078		1.6927	6	15	0.05	0.99	
n-Butylbenzene	1.9592	2.4033	2.2748	1.7870	2.0525	2.7386	2.6404	2.3758		AVRG		0.43880		2.2790	14	15	0.05	0.99	
1,2-Dichlorobenzene	1.7341	1.7743	1.5824	1.4185	1.5004	1.6874	1.5777	1.5011		AVRG		0.62618		1.5970	8	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane	0.3379	0.1754	0.1733	0.1663	0.1720	0.1760	0.1545	0.1667		LINR	-0.4419	6.10979		0.1903	0.996	15	0.05	0.99	
1,2,4-Trichlorobenzene	0.6252	0.6958	0.7179	0.6787	0.7272	0.8946	0.8660	0.8280		AVRG		1.32595		0.7542	13	15	0.05	0.99	
Hexachlorobutadiene		0.2734	0.2639	0.2075	0.2326	0.3418	0.3281	0.2970		LINR	1.65233	3.13091		0.2778	0.990	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene	1.4052	1.6731	1.7512	1.8229	1.9889	2.1103	2.0147	2.0164		AVRG		0.54117		1.8478	13	15	0.05	0.99	
1,2,3-Trichlorobenzene	0.4365m	0.6279	0.5749	0.6121	0.6661	0.7896				QUAD	0.20791	1.61863	-0.00906	0.6179	1.000	15	0.05	0.99	
Dibromofluoromethane	0.6179	0.6122	0.6190	0.6150	0.6193	0.6180	0.6197	0.6254		AVRG		1.61731		0.6183	1	15	0.05	0.99	
1,2-Dichloroethane-d4	0.3177	0.3213	0.3171	0.3160	0.3104	0.3082	0.3028	0.2914		AVRG		3.21964		0.3106	3	15	0.05	0.99	
Toluene-d8	1.0569	1.0334	1.0433	1.0736	1.0382	1.0266	1.0511	1.0416		AVRG		0.95640		1.0456	1	15	0.05	0.99	
Bromofluorobenzene	1.1763	1.1601	1.1657	1.1618	1.1387	1.1907	1.1252	1.1251		AVRG		0.86547		1.1554	2	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Freon 12	1.000	29	2.000	22	5.000	1	10.00	-8	20.00	-1	50.00	0	75.00	1	100.0	0		
Chloromethane	1.000	4	2.000	3	5.000	2	10.00	2	20.00	-1	50.00	-5	75.00	-3	100.0	-3		
Vinyl Chloride	1.000	-11	2.000	2	5.000	-6	10.00	-2	20.00	1	50.00	0	75.00	0	100.0	-3	0.500	19
Bromomethane	1.000	-14	2.000	-9	5.000	1	10.00	-6	20.00	-6	50.00	4	75.00	14	100.0	15		
Chloroethane	1.000	5	2.000	0	5.000	3	10.00	0	20.00	0	50.00	-2	75.00	-2	100.0	-4		
Trichlorofluoromethane	1.000	-20	2.000	9	5.000	-3	10.00	1	20.00	7	50.00	4	75.00	5	100.0	-3		
Acetone					5.000	2	10.00	-2	20.00	-6	50.00	-2	75.00	2	100.0	6		
1,1-Dichloroethene	0.500	-6	2.000	3	5.000	11	10.00	-11	20.00	-3	50.00	0	75.00	4	100.0	2		
Iodomethane			2.000	48	5.000	-12	10.00	-18	20.00	-7	50.00	8	75.00	4	100.0	-5		
Methylene Chloride			2.000	7	5.000	2	10.00	0	20.00	-1	50.00	-2	75.00	-3	100.0	-3		
Carbon Disulfide	0.500	6	2.000	5	5.000	6	10.00	-8	20.00	-2	50.00	0	75.00	1	100.0	-6		
MTBE	0.500	18	2.000	3	5.000	-3	10.00	-3	20.00	-1	50.00	-3	75.00	-6	100.0	-5		
trans-1,2-Dichloroethene	0.500	3	2.000	9	5.000	4	10.00	-8	20.00	-4	50.00	0	75.00	0	100.0	-4		
Vinyl Acetate			2.000	-6	5.000	-7	10.00	-6	20.00	7	50.00	7	75.00	-1	100.0	5		
1,1-Dichloroethane	0.500	16	2.000	4	5.000	5	10.00	-8	20.00	-4	50.00	-3	75.00	-4	100.0	-6		
2-Butanone			2.000	27	5.000	-2	10.00	-3	20.00	-7	50.00	-8	75.00	-6	100.0	-2		
2,2-Dichloropropane	0.500	-3	2.000	3	5.000	4	10.00	-9	20.00	-3	50.00	5	75.00	2	100.0	0		
cis-1,2-Dichloroethene	0.500	7	2.000	4	5.000	1	10.00	-1	20.00	-4	50.00	-2	75.00	-1	100.0	-4		
Chloroform	0.500	18	2.000	5	5.000	1	10.00	-4	20.00	-5	50.00	-6	75.00	-5	100.0	-5		
Bromochloromethane	0.500	15	2.000	-1	5.000	2	10.00	-3	20.00	-3	50.00	-2	75.00	-2	100.0	-5		
1,1,1-Trichloroethane	0.500	11	2.000	14	5.000	-1	10.00	-13	20.00	-11	50.00	1	75.00	0	100.0	-2		
1,1-Dichloropropene	0.500	11	2.000	13	5.000	0	10.00	-15	20.00	-10	50.00	3	75.00	2	100.0	-5		
Carbon Tetrachloride	0.500	-16	2.000	16	5.000	4	10.00	-13	20.00	-8	50.00	10	75.00	6	100.0	2		
1,2-Dichloroethane	0.500	10	2.000	4	5.000	-1	10.00	2	20.00	-3	50.00	-4	75.00	-6	100.0	-2		
Benzene	0.500	18	2.000	7	5.000	2	10.00	-5	20.00	-3	50.00	-2	75.00	-5	100.0	-12		
Trichloroethene	0.500	14	2.000	6	5.000	4	10.00	-9	20.00	-8	50.00	-1	75.00	0	100.0	-5		
1,2-Dichloropropane	0.500	9	2.000	13	5.000	3	10.00	-4	20.00	-7	50.00	-3	75.00	-4	100.0	-7		
Bromodichloromethane	0.500	34	2.000	2	5.000	-3	10.00	-7	20.00	-7	50.00	-5	75.00	-6	100.0	-7		
Dibromomethane	0.500	21	2.000	7	5.000	-3	10.00	1	20.00	-5	50.00	-6	75.00	-7	100.0	-8		
4-Methyl-2-Pentanone	0.500	3	2.000	7	5.000	-5	10.00	3	20.00	-1	50.00	0	75.00	-6	100.0	-1		
cis-1,3-Dichloropropene	0.500	9	2.000	5	5.000	0	10.00	-4	20.00	-3	50.00	-1	75.00	-1	100.0	-6		
Toluene	0.500	12	2.000	4	5.000	4	10.00	-6	20.00	-9	50.00	2	75.00	-1	100.0	-5		
trans-1,3-Dichloropropene	0.500	6	2.000	4	5.000	-5	10.00	-2	20.00	-2	50.00	1	75.00	1	100.0	-3		
1,1,2-Trichloroethane	0.500	13	2.000	6	5.000	-3	10.00	0	20.00	-2	50.00	-3	75.00	-6	100.0	-7		
2-Hexanone			2.000	15	5.000	-6	10.00	-1	20.00	3	50.00	-2	75.00	-9	100.0	-1		
1,3-Dichloropropane	0.500	10	2.000	-2	5.000	-2	10.00	-1	20.00	2	50.00	2	75.00	-6	100.0	-3		
Tetrachloroethene	0.500	-4	2.000	3	5.000	6	10.00	-17	20.00	-12	50.00	12	75.00	8	100.0	4		
Dibromochloromethane	0.500	6	2.000	-1	5.000	1	10.00	-2	20.00	-2	50.00	3	75.00	-3	100.0	-3		
1,2-Dibromoethane	0.500	24	2.000	3	5.000	-2	10.00	-2	20.00	-5	50.00	-3	75.00	-7	100.0	-8		
Chlorobenzene	0.500	17	2.000	5	5.000	1	10.00	-8	20.00	-5	50.00	1	75.00	-3	100.0	-8		
1,1,1,2-Tetrachloroethane	0.500	20	2.000	7	5.000	1	10.00	-11	20.00	-10	50.00	0	75.00	-4	100.0	-4		
Ethylbenzene	0.500	16	2.000	11	5.000	9	10.00	-14	20.00	-11	50.00	5	75.00	-4	100.0	-12		

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
m,p-Xylenes	1.000	13	4.000	4	10.00	1	20.00	-18	40.00	-14	100.0	4	150.0	-5	200.0	-13	0.500	28
o-Xylene	0.500	17	2.000	5	5.000	0	10.00	-10	20.00	-11	50.00	8	75.00	-2	100.0	-7		
Styrene	0.500	9	2.000	5	5.000	4	10.00	-7	20.00	-6	50.00	6	75.00	-3	100.0	-10		
Bromoform	0.500	0	2.000	-3	5.000	1	10.00	-2	20.00	-3	50.00	6	75.00	-1	100.0	1		
Isopropylbenzene	0.500	14	2.000	12	5.000	6	10.00	-17	20.00	-10	50.00	8	75.00	-1	100.0	-11		
1,1,2,2-Tetrachloroethane	0.500	29	2.000	8	5.000	-9	10.00	-5	20.00	-2	50.00	-1	75.00	-11	100.0	-9		
1,2,3-Trichloropropane	0.500	31	2.000	3	5.000	-1	10.00	-7	20.00	-2	50.00	-7	75.00	-11	100.0	-7		
Propylbenzene	0.500	15	2.000	14	5.000	6	10.00	-17	20.00	-6	50.00	8	75.00	-4	100.0	-17		
Bromobenzene	0.500	3	2.000	8	5.000	-1	10.00	-7	20.00	-2	50.00	4	75.00	-1	100.0	-4		
1,3,5-Trimethylbenzene	0.500	19	2.000	12	5.000	0	10.00	-15	20.00	-10	50.00	8	75.00	-2	100.0	-12		
2-Chlorotoluene	0.500	23	2.000	10	5.000	1	10.00	-12	20.00	-7	50.00	5	75.00	-5	100.0	-14		
4-Chlorotoluene	0.500	6	2.000	11	5.000	5	10.00	-11	20.00	-6	50.00	5	75.00	-3	100.0	-7		
tert-Butylbenzene	0.500	13	2.000	8	5.000	2	10.00	-20	20.00	-15	50.00	9	75.00	6	100.0	-3		
1,2,4-Trimethylbenzene	0.500	19	2.000	7	5.000	-4	10.00	-16	20.00	-8	50.00	9	75.00	-1	100.0	-7		
sec-Butylbenzene	0.500	-7	2.000	14	5.000	3	10.00	-19	20.00	-11	50.00	17	75.00	9	100.0	-7		
para-Isopropyl Toluene	0.500	-7	2.000	9	5.000	4	10.00	-18	20.00	-13	50.00	14	75.00	11	100.0	0		
1,3-Dichlorobenzene	0.500	16	2.000	9	5.000	0	10.00	-12	20.00	-9	50.00	4	75.00	-1	100.0	-6		
1,4-Dichlorobenzene	0.500	6	2.000	8	5.000	2	10.00	-10	20.00	-7	50.00	3	75.00	1	100.0	-3		
n-Butylbenzene	0.500	-14	2.000	5	5.000	0	10.00	-22	20.00	-10	50.00	20	75.00	16	100.0	4		
1,2-Dichlorobenzene	0.500	9	2.000	11	5.000	-1	10.00	-11	20.00	-6	50.00	6	75.00	-1	100.0	-6		
1,2-Dibromo-3-Chloropropane	0.500	18	2.000	-15	5.000	-3	10.00	-3	20.00	3	50.00	7	75.00	-6	100.0	1		
1,2,4-Trichlorobenzene	0.500	-17	2.000	-8	5.000	-5	10.00	-10	20.00	-4	50.00	19	75.00	15	100.0	10		
Hexachlorobutadiene			2.000	68	5.000	16	10.00	-19	20.00	-19	50.00	10	75.00	5	100.0	-5		
Naphthalene	0.500	-24	2.000	-9	5.000	-5	10.00	-1	20.00	8	50.00	14	75.00	9	100.0	9		
1,2,3-Trichlorobenzene	0.500	12	2.000	11	5.000	-4	10.00	-2	20.00	1	50.00	0						
Dibromofluoromethane	50.00	0	50.00	-1	50.00	0	50.00	-1	50.00	0	50.00	0	50.00	0	50.00	1		
1,2-Dichloroethane-d4	50.00	2	50.00	3	50.00	2	50.00	2	50.00	0	50.00	-1	50.00	-3	50.00	-6		
Toluene-d8	50.00	1	50.00	-1	50.00	0	50.00	3	50.00	-1	50.00	-2	50.00	1	50.00	0		
Bromofluorobenzene	50.00	2	50.00	0	50.00	1	50.00	1	50.00	-1	50.00	3	50.00	-3	50.00	-3		

MJM 11/14/08 : Indexing error ikd06. FR12 lacks original before MI, this was due to Target software limitations.

MJM 11/14/08 [Freon 12]: Combined split peak.

MJM 11/14/08 [Chloromethane]: Combined split peak.

MJM 11/14/08 [Bromomethane]: Drew baseline due to software limitations.

MJM 11/14/08 [Chloroethane]: Combined split peak.

MJM 11/14/08 [Freon 113]: Combined split peak.

MJM 11/14/08 [Iodomethane]: Combined split peak.

MJM 11/14/08 [1,2,3-Trichlorobenzene]: Combined split peak.

MJM 11/14/08 [Vinyl Chloride]: Combined split peak.

MJM 11/14/08 [Isopropanol]: Drew baseline due to software limitations.

Analyst: MJM Date: 11/14/08 Reviewer: ACM Date: 11/14/08

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; LINR=Linear regression; QUAD=Quadratic regression

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 208749 MSVOA Water
EPA 8260B

Inst : MSVOA09 Name : 826GOX9W
Calnum : 488459048001 Cal Date : 14-NOV-2008 Type : WATER

ICV 488459956004 (ike04 14-NOV-2008) stds: S10654 (12500X), S10533 (12500X), S10631 (12500X), S10601 (12500X), S10716 (2500X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	0.6623	0.7131	20.00	18.96	ug/L	-5	25	
Chloromethane	0.9273	0.9344	20.00	20.15	ug/L	1	25	
Vinyl Chloride	0.7666	0.8874	20.00	23.15	ug/L	16	25	
Bromomethane	0.3769	0.4120	20.00	21.86	ug/L	9	25	
Chloroethane	0.4639	0.4805	20.00	20.71	ug/L	4	25	
Trichlorofluoromethane	0.7253	0.7524	20.00	20.75	ug/L	4	25	
Acetone	0.2244	0.2360	20.00	21.03	ug/L	5	25	
1,1-Dichloroethene	0.4780	0.5482	20.00	22.94	ug/L	15	25	
Iodomethane	0.4973	0.5462	20.00	18.24	ug/L	-9	25	
Methylene Chloride	0.6176	0.6891	20.00	22.32	ug/L	12	25	
Carbon Disulfide	1.9994	2.1609	20.00	21.62	ug/L	8	25	
MTBE	1.5321	1.3926	20.00	18.18	ug/L	-9	25	
trans-1,2-Dichloroethene	0.5732	0.6084	20.00	21.23	ug/L	6	25	
Vinyl Acetate	1.2154	1.0761	20.00	17.71	ug/L	-11	25	
1,1-Dichloroethane	1.0405	1.1113	20.00	21.36	ug/L	7	25	
2-Butanone	0.3473	0.3197	20.00	18.41	ug/L	-8	25	
2,2-Dichloropropane	0.5910	0.7270	20.00	24.60	ug/L	**23**	25	
cis-1,2-Dichloroethene	0.6411	0.6904	20.00	21.54	ug/L	8	25	
Chloroform	0.9580	0.9780	20.00	20.42	ug/L	2	25	
Bromochloromethane	0.3256	0.3176	20.00	19.50	ug/L	-2	25	
1,1,1-Trichloroethane	0.6584	0.7119	20.00	21.63	ug/L	8	25	
1,1-Dichloropropene	0.4255	0.4605	20.00	21.65	ug/L	8	25	
Carbon Tetrachloride	0.3208	0.3445	20.00	21.48	ug/L	7	25	
1,2-Dichloroethane	0.3872	0.3842	20.00	19.84	ug/L	-1	25	
Benzene	1.2750	1.3082	20.00	20.52	ug/L	3	25	
Trichloroethene	0.3472	0.3588	20.00	20.67	ug/L	3	25	
1,2-Dichloropropane	0.4088	0.3920	20.00	19.18	ug/L	-4	25	
Bromodichloromethane	0.4525	0.4406	20.00	19.47	ug/L	-3	25	
Dibromomethane	0.2667	0.2527	20.00	18.95	ug/L	-5	25	
4-Methyl-2-Pentanone	0.4130	0.3667	20.00	17.76	ug/L	-11	25	
cis-1,3-Dichloropropene	0.5721	0.5819	20.00	20.35	ug/L	2	25	
Toluene	0.7601	0.7887	20.00	20.75	ug/L	4	25	
trans-1,3-Dichloropropene	0.4940	0.4477	20.00	18.13	ug/L	-9	25	
1,1,2-Trichloroethane	0.1851	0.1789	20.00	19.33	ug/L	-3	25	
2-Hexanone	0.3607	0.3418	20.00	18.96	ug/L	-5	25	
1,3-Dichloropropane	0.6368	0.6471	20.00	20.33	ug/L	2	25	
Tetrachloroethene	0.3541	0.3910	20.00	22.08	ug/L	10	25	
Dibromochloromethane	0.4464	0.4326	20.00	19.38	ug/L	-3	25	
1,2-Dibromoethane	0.3735	0.3426	20.00	18.35	ug/L	-8	25	
Chlorobenzene	1.0298	1.0420	20.00	20.24	ug/L	1	25	
1,1,1,2-Tetrachloroethane	0.3713	0.3681	20.00	19.83	ug/L	-1	25	
Ethylbenzene	1.6494	1.9068	20.00	23.12	ug/L	16	25	
m,p-Xylenes	0.6443	0.6820	40.00	42.34	ug/L	6	25	
o-Xylene	0.6413	0.6627	20.00	20.67	ug/L	3	25	
Styrene	1.1387	1.1930	20.00	20.95	ug/L	5	25	
Bromoform	0.3059	0.2899	20.00	18.95	ug/L	-5	25	
Isopropylbenzene	3.4019	3.3727	20.00	19.83	ug/L	-1	25	
1,1,2,2-Tetrachloroethane	1.2502	1.2027	20.00	19.24	ug/L	-4	25	

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
1,2,3-Trichloropropane	0.2938	0.2769	20.00	18.85	ug/L	-6	25	
Propylbenzene	4.1409	4.8640	20.00	23.49	ug/L	17	25	
Bromobenzene	0.9291	0.9691	20.00	20.86	ug/L	4	25	
1,3,5-Trimethylbenzene	2.7366	3.1523	20.00	23.04	ug/L	15	25	
2-Chlorotoluene	2.8091	3.1494	20.00	22.42	ug/L	12	25	
4-Chlorotoluene	2.6135	2.8588	20.00	21.88	ug/L	9	25	
tert-Butylbenzene	2.1794	2.4267	20.00	22.27	ug/L	11	25	
1,2,4-Trimethylbenzene	2.7396	3.0902	20.00	22.56	ug/L	13	25	
sec-Butylbenzene	3.3485	4.2729	20.00	25.52	ug/L	**28**	25	v+ ***
para-Isopropyl Toluene	2.4928	2.9631	20.00	23.77	ug/L	19	25	
1,3-Dichlorobenzene	1.6641	1.7500	20.00	21.03	ug/L	5	25	
1,4-Dichlorobenzene	1.6927	1.7815	20.00	21.05	ug/L	5	25	
n-Butylbenzene	2.2790	2.9745	20.00	26.10	ug/L	**31**	25	v+ ***
1,2-Dichlorobenzene	1.5970	1.6670	20.00	20.88	ug/L	4	25	
1,2-Dibromo-3-Chloropropane	0.1903	0.1653	20.00	19.76	ug/L	-1	25	
1,2,4-Trichlorobenzene	0.7542	0.8954	20.00	23.75	ug/L	19	25	
Hexachlorobutadiene	0.2778	0.3597	20.00	24.18	ug/L	**21**	25	
Naphthalene	1.8478	2.1021	20.00	22.75	ug/L	14	25	
1,2,3-Trichlorobenzene	0.6179	0.7786	20.00	23.22	ug/L	16	25	

+=high bias v=ICV

CURTIS & TOMPKINS SPIKE USER REPORT FOR 208749 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : QC477155 IDF : 1.0
Seqnum : 458517413003.1 File : flo03 Time : 24-DEC-2008 08:21
Cal : 458468482002 Caldate : 20-NOV-2008 Caltype : WATER
Standards: S10935 (10000X), S10844 (10000X), S10798 (10000X), S10985 (10000X), S10715 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.6523	0.5057	25.00	21.34	ug/L	-15	20	0.0500	u
Chloromethane	0.9011	0.8390	25.00	23.28	ug/L	-7	20	0.1000	u
Vinyl Chloride	0.6577	0.7285	25.00	27.69	ug/L	11	20	0.0500	u
Bromomethane	0.2767	0.3137	25.00	28.35	ug/L	13	20	0.0500	u
Chloroethane	0.3533	0.3901	25.00	27.61	ug/L	10	20	0.0500	u
Trichlorofluoromethane	0.7181	0.7115	25.00	26.28	ug/L	5	20	0.0500	u
Iodomethane	0.3604	0.5955	25.00	28.41	ug/L	14	20	0.0500	u v- ***
Acetone	0.3229	0.3126	25.00	24.21	ug/L	-3	20	0.0500	u
1,1-Dichloroethene	0.5342	0.5894	25.00	27.58	ug/L	10	20	0.0500	u
Methylene Chloride	0.7329	0.7807	25.00	26.63	ug/L	7	20	0.0500	u
Carbon Disulfide	2.0736	2.3032	25.00	27.77	ug/L	11	20	0.0500	u
MTBE	1.9089	1.7381	25.00	22.76	ug/L	-9	20	0.0500	u
trans-1,2-Dichloroethene	0.6155	0.6811	25.00	27.67	ug/L	11	20	0.0500	u
Vinyl Acetate	1.3534	1.0701	25.00	19.77	ug/L	**-21**	20	0.0500	c- u v- ***
1,1-Dichloroethane	1.2098	1.2605	25.00	26.05	ug/L	4	20	0.1000	u
2-Butanone	0.4254	0.3966	25.00	23.31	ug/L	-7	20	0.0500	u
cis-1,2-Dichloroethene	0.7100	0.7622	25.00	26.84	ug/L	7	20	0.0500	u
2,2-Dichloropropane	0.6696	0.7874	25.00	29.40	ug/L	18	20	0.0500	u
Chloroform	1.0978	1.1457	25.00	26.09	ug/L	4	20	0.0500	u
Bromochloromethane	0.4218	0.4206	25.00	24.93	ug/L	0	20	0.0500	u
1,1,1-Trichloroethane	0.6692	0.7643	25.00	28.56	ug/L	14	20	0.0500	u
1,1-Dichloropropene	0.4415	0.4957	25.00	28.07	ug/L	12	20	0.0500	u
Carbon Tetrachloride	0.3589	0.4310	25.00	30.02	ug/L	20	20	0.0500	u
1,2-Dichloroethane	0.4747	0.4982	25.00	26.24	ug/L	5	20	0.0500	u
Benzene	1.4989	1.5344	25.00	25.59	ug/L	2	20	0.0500	u
Trichloroethene	0.3658	0.3945	25.00	26.96	ug/L	8	20	0.0500	u
1,2-Dichloropropane	0.4456	0.4384	25.00	24.60	ug/L	-2	20	0.0500	u
Bromodichloromethane	0.4986	0.5379	25.00	26.97	ug/L	8	20	0.0500	u
Dibromomethane	0.2907	0.3220	25.00	27.69	ug/L	11	20	0.0500	u
4-Methyl-2-Pentanone	0.4957	0.4454	25.00	22.46	ug/L	-10	20	0.0500	u
cis-1,3-Dichloropropene	0.6508	0.6637	25.00	25.50	ug/L	2	20	0.0500	u
Toluene	0.8473	0.9099	25.00	26.85	ug/L	7	20	0.0500	u
trans-1,3-Dichloropropene	0.5704	0.5488	25.00	24.05	ug/L	-4	20	0.0500	u
1,1,2-Trichloroethane	0.2089	0.2215	25.00	26.51	ug/L	6	20	0.0500	u
2-Hexanone	0.4156	0.3941	25.00	23.71	ug/L	-5	20	0.0500	u
1,3-Dichloropropane	0.7506	0.7803	25.00	25.99	ug/L	4	20	0.0500	u
Tetrachloroethene	0.4188	0.4642	25.00	27.72	ug/L	11	20	0.0500	u
Dibromochloromethane	0.5668	0.5742	25.00	25.33	ug/L	1	20	0.0500	u
1,2-Dibromoethane	0.4360	0.4614	25.00	26.46	ug/L	6	20	0.0500	u
Chlorobenzene	1.2382	1.2905	25.00	26.06	ug/L	4	20	0.3000	u
1,1,1,2-Tetrachloroethane	0.4469	0.4670	25.00	26.13	ug/L	5	20	0.0500	u
Ethylbenzene	1.7693	1.8872	25.00	26.66	ug/L	7	20	0.0500	u
m,p-Xylenes	0.6799	0.7510	50.00	55.23	ug/L	10	20	0.0500	u
o-Xylene	0.7208	0.7431	25.00	25.77	ug/L	3	20	0.0500	u
Styrene	1.2406	1.3505	25.00	27.22	ug/L	9	20	0.0500	u
Bromoform	0.4043	0.4243	25.00	26.24	ug/L	5	20	0.1000	u
Isopropylbenzene	3.0374	2.9871	25.00	24.59	ug/L	-2	20	0.0500	u

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	1.2619	1.2977	25.00	25.71	ug/L	3	20	0.3000	u
1,2,3-Trichloropropane	0.9814	0.9816	25.00	25.00	ug/L	0	20	0.0500	u
Propylbenzene	3.5323	3.8994	25.00	27.60	ug/L	10	20	0.0500	u
Bromobenzene	1.1030	1.1378	25.00	25.79	ug/L	3	20	0.0500	u
1,3,5-Trimethylbenzene	2.4404	2.5622	25.00	26.25	ug/L	5	20	0.0500	u
2-Chlorotoluene	2.5264	2.5346	25.00	25.08	ug/L	0	20	0.0500	u
4-Chlorotoluene	2.4576	2.5295	25.00	25.73	ug/L	3	20	0.0500	u
tert-Butylbenzene	2.0871	2.2872	25.00	27.40	ug/L	10	20	0.0500	u
1,2,4-Trimethylbenzene	2.5473	2.8777	25.00	28.24	ug/L	13	20	0.0500	u
sec-Butylbenzene	2.8803	3.3790	25.00	29.33	ug/L	17	20	0.0500	u
para-Isopropyl Toluene	2.4577	2.8468	25.00	28.96	ug/L	16	20	0.0500	u
1,3-Dichlorobenzene	1.8598	1.8301	25.00	24.60	ug/L	-2	20	0.0500	u
1,4-Dichlorobenzene	1.9095	1.8652	25.00	24.42	ug/L	-2	20	0.0500	u
n-Butylbenzene	2.0653	2.4703	25.00	29.90	ug/L	20	20	0.0500	u
1,2-Dichlorobenzene	1.7718	1.7610	25.00	24.85	ug/L	-1	20	0.0500	u
1,2-Dibromo-3-Chloropropane	0.1927	0.1734	25.00	22.50	ug/L	-10	20	0.0500	u
1,2,4-Trichlorobenzene	0.9719	0.9731	25.00	25.03	ug/L	0	20	0.0500	u
Hexachlorobutadiene	0.3550	0.4404	25.00	31.02	ug/L	**24**	20	0.0500	c+ u ***
Naphthalene	2.7758	2.6528	25.00	23.89	ug/L	-4	20	0.0500	u
1,2,3-Trichlorobenzene	0.9151	0.9388	25.00	25.65	ug/L	3	20	0.0500	u
Dibromofluoromethane	0.6018	0.6092	50.00	50.62	ug/L	1	20	0.0500	u
1,2-Dichloroethane-d4	0.3170	0.3264	50.00	51.48	ug/L	3	20	0.0500	u
Toluene-d8	1.0007	1.0759	50.00	53.76	ug/L	8	20	0.0500	u
Bromofluorobenzene	0.9921	0.9120	50.00	45.96	ug/L	-8	20	0.0500	u

ISTD (ICAL fkk25)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	811980	998149	22.93	12.82	12.85	0.03
1,4-Difluorobenzene	1320025	1618739	22.63	14.16	14.19	0.03
Chlorobenzene-d5	1182141	1380536	16.78	18.69	18.71	0.03
1,4-Dichlorobenzene-d4	596162	727002	21.95	21.48	21.50	0.02

Analyst: MJM Date: 01/02/09 Reviewer: ACM Date: 01/06/09

+=high bias -=low bias c=CCV u=use v=ICV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208749 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : 25PPB IDF : 1.0
Seqnum : 458517413014.1 File : flo14 Time : 24-DEC-2008 14:35
Cal : 458468482002 Caldate : 20-NOV-2008 Caltype : WATER
Standards: S10715 (1000X), S10935 (10000X), S10844 (10000X), S10798 (10000X), S10985 (10000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.6523	0.4165	25.00	17.81	ug/L	**-29**	20	0.0500	c- ***
Chloromethane	0.9011	0.8275	25.00	22.96	ug/L	-8	20	0.1000	
Vinyl Chloride	0.6577	0.6688	25.00	25.42	ug/L	2	20	0.0500	
Bromomethane	0.2767	0.3462	25.00	31.29	ug/L	**25**	20	0.0500	c+ ***
Chloroethane	0.3533	0.3620	25.00	25.62	ug/L	2	20	0.0500	
Trichlorofluoromethane	0.7181	0.6124	25.00	22.89	ug/L	-8	20	0.0500	
Acetone	0.3229	0.2728	25.00	21.13	ug/L	-15	20	0.0500	
1,1-Dichloroethene	0.5342	0.5648	25.00	26.43	ug/L	6	20	0.0500	
Iodomethane	0.3604	0.5337	25.00	25.96	ug/L	4	20	0.0500	
Methylene Chloride	0.7329	0.7796	25.00	26.59	ug/L	6	20	0.0500	
Carbon Disulfide	2.0736	2.1111	25.00	25.45	ug/L	2	20	0.0500	
MTBE	1.9089	1.6006	25.00	20.96	ug/L	-16	20	0.0500	
trans-1,2-Dichloroethene	0.6155	0.6098	25.00	24.77	ug/L	-1	20	0.0500	
Vinyl Acetate	1.3534	1.0689	25.00	19.74	ug/L	**-21**	20	0.0500	c- ***
1,1-Dichloroethane	1.2098	1.1767	25.00	24.32	ug/L	-3	20	0.1000	
2-Butanone	0.4254	0.3774	25.00	22.18	ug/L	-11	20	0.0500	
2,2-Dichloropropane	0.6696	0.7445	25.00	27.80	ug/L	11	20	0.0500	
cis-1,2-Dichloroethene	0.7100	0.7234	25.00	25.47	ug/L	2	20	0.0500	
Chloroform	1.0978	1.0247	25.00	23.33	ug/L	-7	20	0.0500	
Bromochloromethane	0.4218	0.4128	25.00	24.47	ug/L	-2	20	0.0500	
1,1,1-Trichloroethane	0.6692	0.6993	25.00	26.13	ug/L	5	20	0.0500	
1,1-Dichloropropene	0.4415	0.4643	25.00	26.29	ug/L	5	20	0.0500	
Carbon Tetrachloride	0.3589	0.3788	25.00	26.39	ug/L	6	20	0.0500	
1,2-Dichloroethane	0.4747	0.4529	25.00	23.85	ug/L	-5	20	0.0500	
Benzene	1.4989	1.4770	25.00	24.64	ug/L	-1	20	0.0500	
Trichloroethene	0.3658	0.3628	25.00	24.80	ug/L	-1	20	0.0500	
1,2-Dichloropropane	0.4456	0.4278	25.00	24.00	ug/L	-4	20	0.0500	
Bromodichloromethane	0.4986	0.5091	25.00	25.52	ug/L	2	20	0.0500	
Dibromomethane	0.2907	0.2962	25.00	25.47	ug/L	2	20	0.0500	
4-Methyl-2-Pentanone	0.4957	0.4249	25.00	21.43	ug/L	-14	20	0.0500	
cis-1,3-Dichloropropene	0.6508	0.6260	25.00	24.05	ug/L	-4	20	0.0500	
Toluene	0.8473	0.8102	25.00	23.91	ug/L	-4	20	0.0500	
trans-1,3-Dichloropropene	0.5704	0.4888	25.00	21.42	ug/L	-14	20	0.0500	
1,1,2-Trichloroethane	0.2089	0.2129	25.00	25.48	ug/L	2	20	0.0500	
2-Hexanone	0.4156	0.3583	25.00	21.55	ug/L	-14	20	0.0500	
1,3-Dichloropropane	0.7506	0.7242	25.00	24.12	ug/L	-4	20	0.0500	
Tetrachloroethene	0.4188	0.4014	25.00	23.96	ug/L	-4	20	0.0500	
Dibromochloromethane	0.5668	0.5064	25.00	22.33	ug/L	-11	20	0.0500	
1,2-Dibromoethane	0.4360	0.4348	25.00	24.93	ug/L	0	20	0.0500	
Chlorobenzene	1.2382	1.1063	25.00	22.34	ug/L	-11	20	0.3000	
1,1,1,2-Tetrachloroethane	0.4469	0.4151	25.00	23.22	ug/L	-7	20	0.0500	
Ethylbenzene	1.7693	1.7130	25.00	24.20	ug/L	-3	20	0.0500	
m,p-Xylenes	0.6799	0.6781	50.00	49.87	ug/L	0	20	0.0500	
o-Xylene	0.7208	0.6890	25.00	23.90	ug/L	-4	20	0.0500	
Styrene	1.2406	1.1735	25.00	23.65	ug/L	-5	20	0.0500	
Bromoform	0.4043	0.3794	25.00	23.46	ug/L	-6	20	0.1000	
Isopropylbenzene	3.0374	2.8924	25.00	23.81	ug/L	-5	20	0.0500	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	1.2619	1.2438	25.00	24.64	ug/L	-1	20	0.3000	
1,2,3-Trichloropropane	0.9814	0.9710	25.00	24.73	ug/L	-1	20	0.0500	
Propylbenzene	3.5323	3.6720	25.00	25.99	ug/L	4	20	0.0500	
Bromobenzene	1.1030	1.0770	25.00	24.41	ug/L	-2	20	0.0500	
1,3,5-Trimethylbenzene	2.4404	2.5764	25.00	26.39	ug/L	6	20	0.0500	
2-Chlorotoluene	2.5264	2.5483	25.00	25.22	ug/L	1	20	0.0500	
4-Chlorotoluene	2.4576	2.4568	25.00	24.99	ug/L	0	20	0.0500	
tert-Butylbenzene	2.0871	2.1881	25.00	26.21	ug/L	5	20	0.0500	
1,2,4-Trimethylbenzene	2.5473	2.7069	25.00	26.57	ug/L	6	20	0.0500	
sec-Butylbenzene	2.8803	3.2968	25.00	28.62	ug/L	14	20	0.0500	
para-Isopropyl Toluene	2.4577	2.6133	25.00	26.58	ug/L	6	20	0.0500	
1,3-Dichlorobenzene	1.8598	1.7186	25.00	23.10	ug/L	-8	20	0.0500	
1,4-Dichlorobenzene	1.9095	1.8358	25.00	24.04	ug/L	-4	20	0.0500	
n-Butylbenzene	2.0653	2.2864	25.00	27.68	ug/L	11	20	0.0500	
1,2-Dichlorobenzene	1.7718	1.6514	25.00	23.30	ug/L	-7	20	0.0500	
1,2-Dibromo-3-Chloropropane	0.1927	0.1628	25.00	21.13	ug/L	-15	20	0.0500	
1,2,4-Trichlorobenzene	0.9719	0.9544	25.00	24.55	ug/L	-2	20	0.0500	
Hexachlorobutadiene	0.3550	0.4111	25.00	28.96	ug/L	16	20	0.0500	
Naphthalene	2.7758	2.6176	25.00	23.58	ug/L	-6	20	0.0500	
1,2,3-Trichlorobenzene	0.9151	0.9069	25.00	24.78	ug/L	-1	20	0.0500	
Dibromofluoromethane	0.6018	0.5971	50.00	49.61	ug/L	-1	20	0.0500	
1,2-Dichloroethane-d4	0.3170	0.3074	50.00	48.49	ug/L	-3	20	0.0500	
Toluene-d8	1.0007	0.9997	50.00	49.95	ug/L	0	20	0.0500	
Bromofluorobenzene	0.9921	0.9713	50.00	48.95	ug/L	-2	20	0.0500	

ISTD (ICAL fkk25)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	811980	1035503	27.53	12.82	12.85	0.03
1,4-Difluorobenzene	1320025	1722302	30.47	14.16	14.19	0.03
Chlorobenzene-d5	1182141	1510186	27.75	18.69	18.71	0.03
1,4-Dichlorobenzene-d4	596162	727475	22.03	21.48	21.50	0.02

Analyst: MJM Date: 01/02/09 Reviewer: ACM Date: 01/06/09

+=high bias -=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208749 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : 20PPB IDF : 1.0
Seqnum : 488524736003.1 File : ilt03 Time : 29-DEC-2008 10:40
Cal : 488459048001 Caldate : 14-NOV-2008 Caltype : WATER
Standards: S10928 (25000X), S10865 (25000X), S10946 (25000X), S10716 (2500X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.6623	0.6659	20.00	17.72	ug/L	-11	20	0.0500	
Chloromethane	0.9273	1.0021	20.00	21.61	ug/L	8	20	0.1000	
Vinyl Chloride	0.7666	0.7982	20.00	20.82	ug/L	4	20	0.0500	
Bromomethane	0.3769	0.4347	20.00	23.07	ug/L	15	20	0.0500	
Chloroethane	0.4639	0.4940	20.00	21.30	ug/L	6	20	0.0500	
Trichlorofluoromethane	0.7253	0.7884	20.00	21.74	ug/L	9	20	0.0500	
Acetone	0.2244	0.1880	20.00	16.76	ug/L	-16	20	0.0500	
1,1-Dichloroethene	0.4780	0.4733	20.00	19.80	ug/L	-1	20	0.0500	
Iodomethane	0.4973	0.2808	20.00	10.54	ug/L	**-47**	20	0.0500	c- ***
Methylene Chloride	0.6176	0.6813	20.00	22.06	ug/L	10	20	0.0500	
Carbon Disulfide	1.9994	2.1562	20.00	21.57	ug/L	8	20	0.0500	
MTBE	1.5321	1.5391	20.00	20.09	ug/L	0	20	0.0500	
trans-1,2-Dichloroethene	0.5732	0.5918	20.00	20.65	ug/L	3	20	0.0500	
Vinyl Acetate	1.2154	1.5036	20.00	24.74	ug/L	**24**	20	0.0500	c+ ***
1,1-Dichloroethane	1.0405	1.1375	20.00	21.86	ug/L	9	20	0.1000	
2-Butanone	0.3473	0.3102	20.00	17.87	ug/L	-11	20	0.0500	
2,2-Dichloropropane	0.5910	0.7090	20.00	23.99	ug/L	20	20	0.0500	
cis-1,2-Dichloroethene	0.6411	0.6736	20.00	21.01	ug/L	5	20	0.0500	
Chloroform	0.9580	0.9986	20.00	20.85	ug/L	4	20	0.0500	
Bromochloromethane	0.3256	0.3384	20.00	20.78	ug/L	4	20	0.0500	
1,1,1-Trichloroethane	0.6584	0.6740	20.00	20.47	ug/L	2	20	0.0500	
1,1-Dichloropropene	0.4255	0.4013	20.00	18.86	ug/L	-6	20	0.0500	
Carbon Tetrachloride	0.3208	0.3213	20.00	20.03	ug/L	0	20	0.0500	
1,2-Dichloroethane	0.3872	0.4129	20.00	21.33	ug/L	7	20	0.0500	
Benzene	1.2750	1.3587	20.00	21.31	ug/L	7	20	0.0500	
Trichloroethene	0.3472	0.3318	20.00	19.11	ug/L	-4	20	0.0500	
1,2-Dichloropropane	0.4088	0.4078	20.00	19.95	ug/L	0	20	0.0500	
Bromodichloromethane	0.4525	0.4847	20.00	21.43	ug/L	7	20	0.0500	
Dibromomethane	0.2667	0.2685	20.00	20.14	ug/L	1	20	0.0500	
4-Methyl-2-Pentanone	0.4130	0.3712	20.00	17.97	ug/L	-10	20	0.0500	
cis-1,3-Dichloropropene	0.5721	0.5958	20.00	20.83	ug/L	4	20	0.0500	
Toluene	0.7601	0.7708	20.00	20.28	ug/L	1	20	0.0500	
trans-1,3-Dichloropropene	0.4940	0.5224	20.00	21.15	ug/L	6	20	0.0500	
1,1,2-Trichloroethane	0.1851	0.1872	20.00	20.23	ug/L	1	20	0.0500	
2-Hexanone	0.3607	0.3074	20.00	17.05	ug/L	-15	20	0.0500	
1,3-Dichloropropane	0.6368	0.6297	20.00	19.78	ug/L	-1	20	0.0500	
Tetrachloroethene	0.3541	0.3366	20.00	19.01	ug/L	-5	20	0.0500	
Dibromochloromethane	0.4464	0.4472	20.00	20.03	ug/L	0	20	0.0500	
1,2-Dibromoethane	0.3735	0.3731	20.00	19.98	ug/L	0	20	0.0500	
Chlorobenzene	1.0298	1.0304	20.00	20.01	ug/L	0	20	0.3000	
1,1,1,2-Tetrachloroethane	0.3713	0.3669	20.00	19.76	ug/L	-1	20	0.0500	
Ethylbenzene	1.6494	1.6495	20.00	20.00	ug/L	0	20	0.0500	
m,p-Xylenes	0.6443	0.6167	40.00	38.29	ug/L	-4	20	0.0500	
o-Xylene	0.6413	0.6465	20.00	20.16	ug/L	1	20	0.0500	
Styrene	1.1387	1.1211	20.00	19.69	ug/L	-2	20	0.0500	
Bromoform	0.3059	0.3215	20.00	21.02	ug/L	5	20	0.1000	
Isopropylbenzene	3.4019	2.9912	20.00	17.59	ug/L	-12	20	0.0500	
1,1,2,2-Tetrachloroethane	1.2502	1.0813	20.00	17.30	ug/L	-14	20	0.3000	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	0.2938	0.2477	20.00	16.86	ug/L	-16	20	0.0500	
Propylbenzene	4.1409	3.5884	20.00	17.33	ug/L	-13	20	0.0500	
Bromobenzene	0.9291	0.8970	20.00	19.31	ug/L	-3	20	0.0500	
1,3,5-Trimethylbenzene	2.7366	2.4626	20.00	18.00	ug/L	-10	20	0.0500	
2-Chlorotoluene	2.8091	2.6050	20.00	18.55	ug/L	-7	20	0.0500	
4-Chlorotoluene	2.6135	2.5270	20.00	19.34	ug/L	-3	20	0.0500	
tert-Butylbenzene	2.1794	1.7731	20.00	16.27	ug/L	-19	20	0.0500	
1,2,4-Trimethylbenzene	2.7396	2.4275	20.00	17.72	ug/L	-11	20	0.0500	
sec-Butylbenzene	3.3485	2.6164	20.00	15.63	ug/L	**-22**	20	0.0500	c- ***
para-Isopropyl Toluene	2.4928	2.0723	20.00	16.63	ug/L	-17	20	0.0500	
1,3-Dichlorobenzene	1.6641	1.6191	20.00	19.46	ug/L	-3	20	0.0500	
1,4-Dichlorobenzene	1.6927	1.5698	20.00	18.55	ug/L	-7	20	0.0500	
n-Butylbenzene	2.2790	1.7488	20.00	15.35	ug/L	**-23**	20	0.0500	c- ***
1,2-Dichlorobenzene	1.5970	1.4904	20.00	18.66	ug/L	-7	20	0.0500	
1,2-Dibromo-3-Chloropropane	0.1903	0.1382	20.00	16.45	ug/L	-18	20	0.0500	
1,2,4-Trichlorobenzene	0.7542	0.7257	20.00	19.24	ug/L	-4	20	0.0500	
Hexachlorobutadiene	0.2778	0.2206	20.00	15.47	ug/L	**-23**	20	0.0500	c- ***
Naphthalene	1.8478	1.6684	20.00	18.06	ug/L	-10	20	0.0500	
1,2,3-Trichlorobenzene	0.6179	0.5808	20.00	17.79	ug/L	-11	20	0.0500	
Dibromofluoromethane	0.6183	0.6225	50.00	50.34	ug/L	1	20	0.0500	
1,2-Dichloroethane-d4	0.3106	0.3326	50.00	53.54	ug/L	7	20	0.0500	
Toluene-d8	1.0456	1.0869	50.00	51.97	ug/L	4	20	0.0500	
Bromofluorobenzene	1.1554	1.0923	50.00	47.27	ug/L	-5	20	0.0500	

ISTD (ICAL ikd11)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1590134	1470417	-7.53	12.31	12.29	-0.02
1,4-Difluorobenzene	2647738	2485473	-6.13	13.59	13.57	-0.02
Chlorobenzene-d5	2147098	2130435	-0.78	17.62	17.61	-0.01
1,4-Dichlorobenzene-d4	974346	1026654	5.37	20.13	20.11	-0.02

Analyst: MJM Date: 01/02/09 Reviewer: ACM Date: 01/06/09

+=high bias -=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208749 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : 20PPB IDF : 1.0
Seqnum : 488524736011.1 File : ilt11 Time : 29-DEC-2008 15:10
Cal : 488459048001 Caldate : 14-NOV-2008 Caltype : WATER
Standards: S10928 (25000X), S10865 (25000X), S10946 (25000X), S10716 (2500X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.6623	0.7664	20.00	20.37	ug/L	2	20	0.0500	
Chloromethane	0.9273	0.9965	20.00	21.49	ug/L	7	20	0.1000	
Vinyl Chloride	0.7666	0.8612	20.00	22.47	ug/L	12	20	0.0500	
Bromomethane	0.3769	0.4238	20.00	22.49	ug/L	12	20	0.0500	
Chloroethane	0.4639	0.4962	20.00	21.39	ug/L	7	20	0.0500	
Trichlorofluoromethane	0.7253	0.8958	20.00	24.70	ug/L	**23**	20	0.0500	c+ ***
Acetone	0.2244	0.2047	20.00	18.25	ug/L	-9	20	0.0500	
1,1-Dichloroethene	0.4780	0.5396	20.00	22.57	ug/L	13	20	0.0500	
Iodomethane	0.4973	0.2869	20.00	10.72	ug/L	**-46**	20	0.0500	c- ***
Methylene Chloride	0.6176	0.6954	20.00	22.52	ug/L	13	20	0.0500	
Carbon Disulfide	1.9994	2.3649	20.00	23.66	ug/L	18	20	0.0500	
MTBE	1.5321	1.5059	20.00	19.66	ug/L	-2	20	0.0500	
trans-1,2-Dichloroethene	0.5732	0.5985	20.00	20.88	ug/L	4	20	0.0500	
Vinyl Acetate	1.2154	1.3849	20.00	22.79	ug/L	14	20	0.0500	
1,1-Dichloroethane	1.0405	1.1324	20.00	21.76	ug/L	9	20	0.1000	
2-Butanone	0.3473	0.3221	20.00	18.55	ug/L	-7	20	0.0500	
2,2-Dichloropropane	0.5910	0.7253	20.00	24.55	ug/L	**23**	20	0.0500	c+ ***
cis-1,2-Dichloroethene	0.6411	0.6842	20.00	21.34	ug/L	7	20	0.0500	
Chloroform	0.9580	1.0458	20.00	21.83	ug/L	9	20	0.0500	
Bromochloromethane	0.3256	0.3508	20.00	21.55	ug/L	8	20	0.0500	
1,1,1-Trichloroethane	0.6584	0.7457	20.00	22.65	ug/L	13	20	0.0500	
1,1-Dichloropropene	0.4255	0.4535	20.00	21.32	ug/L	7	20	0.0500	
Carbon Tetrachloride	0.3208	0.3593	20.00	22.40	ug/L	12	20	0.0500	
1,2-Dichloroethane	0.3872	0.4290	20.00	22.16	ug/L	11	20	0.0500	
Benzene	1.2750	1.3736	20.00	21.55	ug/L	8	20	0.0500	
Trichloroethene	0.3472	0.3584	20.00	20.65	ug/L	3	20	0.0500	
1,2-Dichloropropane	0.4088	0.4225	20.00	20.67	ug/L	3	20	0.0500	
Bromodichloromethane	0.4525	0.4915	20.00	21.72	ug/L	9	20	0.0500	
Dibromomethane	0.2667	0.2674	20.00	20.05	ug/L	0	20	0.0500	
4-Methyl-2-Pentanone	0.4130	0.3889	20.00	18.84	ug/L	-6	20	0.0500	
cis-1,3-Dichloropropene	0.5721	0.6019	20.00	21.04	ug/L	5	20	0.0500	
Toluene	0.7601	0.8157	20.00	21.46	ug/L	7	20	0.0500	
trans-1,3-Dichloropropene	0.4940	0.5203	20.00	21.07	ug/L	5	20	0.0500	
1,1,2-Trichloroethane	0.1851	0.1921	20.00	20.76	ug/L	4	20	0.0500	
2-Hexanone	0.3607	0.3137	20.00	17.40	ug/L	-13	20	0.0500	
1,3-Dichloropropane	0.6368	0.6130	20.00	19.25	ug/L	-4	20	0.0500	
Tetrachloroethene	0.3541	0.3438	20.00	19.42	ug/L	-3	20	0.0500	
Dibromochloromethane	0.4464	0.4325	20.00	19.38	ug/L	-3	20	0.0500	
1,2-Dibromoethane	0.3735	0.3762	20.00	20.15	ug/L	1	20	0.0500	
Chlorobenzene	1.0298	1.0409	20.00	20.21	ug/L	1	20	0.3000	
1,1,1,2-Tetrachloroethane	0.3713	0.3600	20.00	19.39	ug/L	-3	20	0.0500	
Ethylbenzene	1.6494	1.5637	20.00	18.96	ug/L	-5	20	0.0500	
m,p-Xylenes	0.6443	0.5885	40.00	36.54	ug/L	-9	20	0.0500	
o-Xylene	0.6413	0.6138	20.00	19.14	ug/L	-4	20	0.0500	
Styrene	1.1387	1.1120	20.00	19.53	ug/L	-2	20	0.0500	
Bromoform	0.3059	0.2982	20.00	19.50	ug/L	-3	20	0.1000	
Isopropylbenzene	3.4019	3.2838	20.00	19.31	ug/L	-3	20	0.0500	
1,1,2,2-Tetrachloroethane	1.2502	1.1485	20.00	18.37	ug/L	-8	20	0.3000	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	0.2938	0.2864	20.00	19.50	ug/L	-3	20	0.0500	
Propylbenzene	4.1409	3.9270	20.00	18.97	ug/L	-5	20	0.0500	
Bromobenzene	0.9291	0.9495	20.00	20.44	ug/L	2	20	0.0500	
1,3,5-Trimethylbenzene	2.7366	2.7297	20.00	19.95	ug/L	0	20	0.0500	
2-Chlorotoluene	2.8091	2.7639	20.00	19.68	ug/L	-2	20	0.0500	
4-Chlorotoluene	2.6135	2.6291	20.00	20.12	ug/L	1	20	0.0500	
tert-Butylbenzene	2.1794	2.0901	20.00	19.18	ug/L	-4	20	0.0500	
1,2,4-Trimethylbenzene	2.7396	2.6264	20.00	19.17	ug/L	-4	20	0.0500	
sec-Butylbenzene	3.3485	3.2139	20.00	19.20	ug/L	-4	20	0.0500	
para-Isopropyl Toluene	2.4928	2.4457	20.00	19.62	ug/L	-2	20	0.0500	
1,3-Dichlorobenzene	1.6641	1.6623	20.00	19.98	ug/L	0	20	0.0500	
1,4-Dichlorobenzene	1.6927	1.6383	20.00	19.36	ug/L	-3	20	0.0500	
n-Butylbenzene	2.2790	2.0876	20.00	18.32	ug/L	-8	20	0.0500	
1,2-Dichlorobenzene	1.5970	1.6130	20.00	20.20	ug/L	1	20	0.0500	
1,2-Dibromo-3-Chloropropane	0.1903	0.1549	20.00	18.49	ug/L	-8	20	0.0500	
1,2,4-Trichlorobenzene	0.7542	0.7948	20.00	21.08	ug/L	5	20	0.0500	
Hexachlorobutadiene	0.2778	0.2676	20.00	18.41	ug/L	-8	20	0.0500	
Naphthalene	1.8478	1.8570	20.00	20.10	ug/L	0	20	0.0500	
1,2,3-Trichlorobenzene	0.6179	0.6626	20.00	20.07	ug/L	0	20	0.0500	
Dibromofluoromethane	0.6183	0.6271	50.00	50.71	ug/L	1	20	0.0500	
1,2-Dichloroethane-d4	0.3106	0.3362	50.00	54.13	ug/L	8	20	0.0500	
Toluene-d8	1.0456	1.0880	50.00	52.03	ug/L	4	20	0.0500	
Bromofluorobenzene	1.1554	1.1814	50.00	51.12	ug/L	2	20	0.0500	

ISTD (ICAL ikd11)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1590134	1440009	-9.44	12.31	12.29	-0.02
1,4-Difluorobenzene	2647738	2391302	-9.69	13.59	13.57	-0.02
Chlorobenzene-d5	2147098	2150212	0.15	17.62	17.61	-0.01
1,4-Dichlorobenzene-d4	974346	942338	-3.29	20.13	20.12	-0.01

Analyst: MJM Date: 01/02/09 Reviewer: ACM Date: 01/06/09

+=high bias -=low bias c=CCV

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 458517413

Date : 12/24/08 Reference : fkk25
Sequence : MSVOA06 flo Analyzed : 11/20/08 22:19

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	811980	12.82	1320025	14.16	1182141	18.69	596162	21.48
		LOWER LIMIT	405990	12.32	660013	13.66	591071	18.19	298081	20.98
		UPPER LIMIT	1623960	13.32	2640050	14.66	2364282	19.19	1192324	21.98
003	CCV/LCS	QC477155	998149	12.85	1618739	14.19	1380536	18.71	727002	21.50
005	BLANK	QC477156	945059	12.85	1591547	14.19	1384347	18.70	674258	21.50
006	SAMPLE	208749-001	932807	12.85	1641488	14.19	1357717	18.70	669786	21.50
007	MSS	208749-002	938365	12.85	1601558	14.19	1341060	18.70	664419	21.50
008	MS	QC477174	924449	12.85	1595839	14.18	1337606	18.70	656015	21.50
009	MSD	QC477175	959906	12.84	1655215	14.18	1421764	18.71	681636	21.49
014	CCV	25PPB	1035503	12.85	1722302	14.19	1510186	18.71	727475	21.50
016	BLANK	QC477157	956596	12.85	1644835	14.19	1412908	18.71	675995	21.50
017	SAMPLE	208750-001	991749	12.85	1732733	14.19	1414933	18.71	704360	21.50
018	SAMPLE	208749-003	1007230	12.85	1698631	14.20	1462686	18.71	701984	21.50
019	SAMPLE	208749-004	930098	12.85	1643306	14.19	1386032	18.71	695807	21.50
020	SAMPLE	208749-005	941965	12.85	1556324	14.19	1300577	18.71	700786	21.50
021	SAMPLE	208749-006	915049	12.85	1544546	14.19	1229464	18.71	658699	21.50
022	SAMPLE	208749-007	883091	12.85	1486947	14.19	1228817	18.71	656718	21.50
023	SAMPLE	208749-008	887857	12.85	1564519	14.19	1311971	18.71	654978	21.50
024	SAMPLE	208749-009	845442	12.87	1381037	14.21	1208858	18.73	609909	21.52
025	SAMPLE	208750-002	888988	12.85	1486957	14.19	1223106	18.70	657557	21.50
026	SAMPLE	208750-003	879295	12.86	1429979	14.20	1244651	18.71	646088	21.51
027	SAMPLE	208750-004	877735	12.86	1432484	14.20	1233579	18.71	629009	21.51
028	SAMPLE	208750-005	889669	12.85	1446595	14.19	1245468	18.72	635489	21.50
029	SAMPLE	208750-007	888235	12.86	1463766	14.20	1279753	18.71	628321	21.51
030	SAMPLE	208702-004	889354	12.86	1506746	14.20	1268039	18.71	643336	21.51
031	SAMPLE	208702-005	913515	12.86	1508612	14.20	1320707	18.71	657252	21.51
032	SAMPLE	208742-001	968068	12.86	1648061	14.20	1379752	18.71	687764	21.51
033	SAMPLE	208742-002	982038	12.86	1683578	14.20	1431544	18.72	673337	21.51
034	SAMPLE	208750-006	1001443	12.85	1658752	14.20	1418306	18.72	699410	21.50

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 488524736

Date : 12/29/08 Reference : ikd11
Sequence : MSVOA09 ilt Analyzed : 11/14/08 03:56

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	1590134	12.31	2647738	13.59	2147098	17.62	974346	20.13
		LOWER LIMIT	795067	11.81	1323869	13.09	1073549	17.12	487173	19.63
		UPPER LIMIT	3180268	12.81	5295476	14.09	4294196	18.12	1948692	20.63
003	CCV	20PPB	1470417	12.29	2485473	13.57	2130435	17.61	1026654	20.11
004	BS	QC477360	1517839	12.29	2461980	13.57	2185287	17.61	977971	20.12
005	BSD	QC477361	1491367	12.29	2439934	13.57	2155466	17.60	968600	20.11
007	BLANK	QC477362	1475832	12.29	2477581	13.57	2123136	17.60	913613	20.12
008	SAMPLE	208749-009	1493239	12.30	2472772	13.57	2088551	17.61	944196	20.11
009	SAMPLE	208749-008	1426976	12.30	2365504	13.57	2190968	17.61	967349	20.11
011	CCV	20PPB	1440009	12.29	2391302	13.57	2150212	17.61	942338	20.12
013	BLANK	QC477491	1479914	12.30	2423598	13.57	2139512	17.61	944262	20.12
014	SAMPLE	208846-025	1481105	12.30	2401518	13.58	2157585	17.61	927235	20.12
015	SAMPLE	208744-007	1412340	12.29	2429193	13.57	2127025	17.61	910988	20.12
016	MSS	208744-008	1467215	12.30	2429041	13.58	2112239	17.61	937256	20.12
017	SAMPLE	208744-009	1512986	12.30	2531330	13.57	2244670	17.61	943864	20.12
018	SAMPLE	208744-010	1453708	12.30	2497967	13.57	2210273	17.61	938735	20.12
019	SAMPLE	208744-011	1423288	12.29	2391956	13.57	2086013	17.61	918063	20.12
020	SAMPLE	208744-013	1413601	12.30	2471347	13.57	2102797	17.61	914066	20.12
021	SAMPLE	208744-014	1455274	12.30	2558229	13.57	2212023	17.61	915113	20.12
022	SAMPLE	208744-015	1428833	12.30	2450798	13.58	2191081	17.61	913406	20.12
023	SAMPLE	208746-001	1426084	12.30	2411256	13.57	2103646	17.61	911695	20.12
024	SAMPLE	208810-001	1416365	12.29	2395819	13.57	2127720	17.61	909881	20.12
025	SAMPLE	208810-002	1429548	12.29	2293816	13.57	2051707	17.61	880083	20.12
026	SAMPLE	208810-003	1363023	12.29	2410124	13.57	2127068	17.60	911963	20.12
027	SAMPLE	208810-004	1452340	12.30	2398601	13.57	2108302	17.62	865699	20.12
028	SAMPLE	208810-009	1451299	12.30	2430995	13.58	2181407	17.61	874688	20.12
029	SAMPLE	208744-012	1388499	12.30	2373612	13.58	2104993	17.61	891296	20.12
030	MS	QC477492	1417938	12.30	2427402	13.57	2090744	17.61	914219	20.12
031	MSD	QC477493	1473450	12.30	2458608	13.57	2185695	17.62	975115	20.12

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 458468482

Instrument : MSVOA06 Begun : 11/20/08 08:02
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	fkk01	X	IB			11/20/08 08:02	1.0	1	
002	fkk02	X	BFB			11/20/08 08:57	1.0	2	
003	fkk03	X	20PPB			11/20/08 09:14	1.0	3 4 5 6 1	
004	fkk04	X	BFB			11/20/08 10:48	1.0	2	
005	fkk05	X	20PPB			11/20/08 11:04	1.0	3 4 5 6 1	
006	fkk06	X	BFB			11/20/08 11:44	1.0	2	
007	fkk07	X	BFB			11/20/08 11:56	1.0	2	
008	fkk08	X	20PPB			11/20/08 12:13	1.0	3 4 5 6 1	
009	fkk09	X	BFB			11/20/08 13:19	1.0	2	
010	fkk10	X	20PPB			11/20/08 13:36	1.0	3 4 5 6 1	
011	fkk11	X	IB			11/20/08 14:29	1.0	1	
012	fkk12	X	IB			11/20/08 15:03	1.0	1	
013	fkk13	X	LOW PT			11/20/08 15:37	1.0	1	
014	fkk14	TUN	BFB			11/20/08 16:09	1.0	2	
015	fkk15	X	IB			11/20/08 16:38	1.0	1	
016	fkk16	X	IB			11/20/08 17:12	1.0	1	
017	fkk17	X	IB			11/20/08 17:46	1.0	1	
018	fkk18	IB	CALIB			11/20/08 18:20	1.0	1	
019	fkk19	ICAL	0.25PPB			11/20/08 18:54	1.0	3 4 7 6 1	
020	fkk20	ICAL	0.5PPB			11/20/08 19:28	1.0	3 4 7 6 1	
021	fkk21	ICAL	2PPB			11/20/08 20:02	1.0	3 4 7 6 1	
022	fkk22	ICAL	5PPB			11/20/08 20:36	1.0	3 4 7 6 1	
023	fkk23	ICAL	10PPB			11/20/08 21:11	1.0	3 4 7 6 1	
024	fkk24	ICAL	20PPB			11/20/08 21:45	1.0	3 4 7 6 1	
025	fkk25	ICAL	50PPB			11/20/08 22:19	1.0	3 4 7 6 1	
026	fkk26	ICAL	75PPB			11/20/08 22:53	1.0	3 4 7 6 1	
027	fkk27	ICAL	100PPB			11/20/08 23:28	1.0	3 4 7 6 1	
028	fkk28	ICV	ICVGAS25PPB			11/21/08 00:02	1.0	8 1	
029	fkk29	ICV	ICV25PPB			11/21/08 00:36	1.0	9 10 11 1	
030	fkk30	X	IB			11/21/08 01:10	1.0	1	
031	fkk31	X	IB			11/21/08 01:45	1.0	1	
032	fkk32	X	IB			11/21/08 02:19	1.0	1	

BO 11/21/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 32.

BO 11/21/08 : fkk14, maximum sensitivity autotune

Analyst: BO Date: 11/21/08 Reviewer: ACM Date: 11/21/08

Standards used: 1=S10447 2=S9454 3=S10756 4=S10619 5=S10355 6=S9073 7=S10653 8=S10631 9=S10654 10=S10798 11=S10788

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CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 458517413

Instrument : MSVOA06 Begun : 12/24/08 07:33
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	flo01	X	IB			12/24/08 07:33	1.0	1	
002	flo02	TUN	BFB			12/24/08 08:04	1.0	2	
003	flo03	CCV/LCS	QC477155	Water	146419	12/24/08 08:21	1.0	3 4 5 6 1	
004	flo04	X	IB			12/24/08 09:12	1.0	1	
005	flo05	BLANK	QC477156	Water	146419	12/24/08 09:46	1.0	1	
006	flo06	SAMPLE	208749-001	Water	146419	12/24/08 10:20	1.0	1	
007	flo07	MSS	208749-002	Water	146419	12/24/08 10:54	1.0	1	
008	flo08	MS	QC477174	Water	146419	12/24/08 11:29	1.0	1 3 4 5 6	
009	flo09	MSD	QC477175	Water	146419	12/24/08 12:03	1.0	1 3 4 5 6	
010	flo10	X	IB			12/24/08 12:37	1.0	1	
011	flo11	X	BFB			12/24/08 13:18	1.0	2	
012	flo12	X	25PPB			12/24/08 13:34	1.0	1 3 4 5 6	
013	flo13	TUN	BFB			12/24/08 14:18	1.0	2	
014	flo14	CCV	25PPB			12/24/08 14:35	1.0	1 3 4 5 6	
015	flo15	X	IB			12/24/08 15:10	1.0	1	
016	flo16	BLANK	QC477157	Water	146419	12/24/08 15:44	1.0	1	
017	flo17	SAMPLE	208750-001	Water	146419	12/24/08 16:17	1.0	1	
018	flo18	SAMPLE	208749-003	Water	146419	12/24/08 16:52	1.0	1	
019	flo19	SAMPLE	208749-004	Water	146419	12/24/08 17:26	1.0	1	
020	flo20	SAMPLE	208749-005	Water	146419	12/24/08 18:00	1.0	1	
021	flo21	SAMPLE	208749-006	Water	146419	12/24/08 18:34	1.0	1	
022	flo22	SAMPLE	208749-007	Water	146419	12/24/08 19:09	1.0	1	
023	flo23	SAMPLE	208749-008	Water	146419	12/24/08 19:43	1.0	1	2:MTBE=170
024	flo24	SAMPLE	208749-009	Water	146419	12/24/08 20:17	1.0	1	
025	flo25	SAMPLE	208750-002	Water	146419	12/24/08 20:51	1.0	1	
026	flo26	SAMPLE	208750-003	Water	146419	12/24/08 21:26	1.0	1	
027	flo27	SAMPLE	208750-004	Water	146419	12/24/08 22:00	1.0	1	
028	flo28	SAMPLE	208750-005	Water	146419	12/24/08 22:35	1.0	1	
029	flo29	SAMPLE	208750-007	Water	146419	12/24/08 23:09	1.0	1	
030	flo30	SAMPLE	208702-004	Water	146419	12/24/08 23:44	1.0	1	
031	flo31	SAMPLE	208702-005	Water	146419	12/25/08 00:18	1.0	1	
032	flo32	SAMPLE	208742-001	Water	146419	12/25/08 00:52	1.0	1	
033	flo33	SAMPLE	208742-002	Water	146419	12/25/08 01:27	1.0	1	
034	flo34	SAMPLE	208750-006	Water	146419	12/25/08 02:01	3.333	1	1:BZ=110
035	flo35	X	IB			12/25/08 02:35	1.0	1	
036	flo36	X	IB			12/25/08 03:10	1.0	1	
037	flo37	X	IB			12/25/08 03:44	1.0	1	

BO 12/29/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 37.

Analyst: BO Date: 12/29/08 Reviewer: ACM Date: 12/29/08

Standards used: 1=S10715 2=S10902 3=S10935 4=S10844 5=S10798 6=S10985

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 488459048

Instrument : MSVOA09 Begun : 11/13/08 18:48
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	ikd01	X	IB			11/13/08 18:48	1.0	1	
002	ikd02	TUN	BFB			11/13/08 22:57	1.0	2	
003	ikd03	X	IB			11/13/08 23:26	1.0	1	
004	ikd04	IB	CALIB			11/13/08 23:59	1.0	1	
005	ikd05	X				11/14/08 00:33	1.0	3 4 5 6 1	
006	ikd06	ICAL				11/14/08 01:07	1.0	3 4 5 6 1	
007	ikd07	ICAL				11/14/08 01:40	1.0	3 4 5 6 1	
008	ikd08	ICAL				11/14/08 02:15	1.0	3 4 5 6 1	
009	ikd09	ICAL				11/14/08 02:48	1.0	3 4 5 6 1	
010	ikd10	ICAL				11/14/08 03:22	1.0	3 4 5 6 1	
011	ikd11	ICAL				11/14/08 03:56	1.0	3 4 5 6 1	
012	ikd12	ICAL				11/14/08 04:30	1.0	3 4 5 6 1	
013	ikd13	ICAL				11/14/08 05:04	1.0	3 4 5 6 1	
014	ikd14	X	25PPB			11/14/08 05:37	1.0	7 1	
015	ikd15	X	25PPB			11/14/08 06:11	1.0	8 9 10 1	
016	ikd16	X	IB			11/14/08 06:45	1.0	1	
017	ikd17	X	IB			11/14/08 07:19	1.0	1	
018	ikd18	X	IB			11/14/08 07:53	1.0	1	
019	ikd19	ICAL				11/14/08 10:45	1.0	3 4 5 6 1	

MJM 11/14/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 001 through 019.

Analyst: MJM Date: 11/14/08 Reviewer: ACM Date: 11/14/08

Standards used: 1=S10716 2=S9454 3=S10756 4=S10355 5=S9073 6=S10619 7=S10631 8=S10654 9=S10533 10=S10601

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 488459956

Instrument : MSVOA09 Begun : 11/14/08 09:56
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	ike01	X	IB			11/14/08 09:56	1.0	1	
002	ike02	TUN	BFB			11/14/08 11:50	1.0	2	
003	ike03	CCV	20PPB			11/14/08 12:09	1.0	3 4 5 1	
004	ike04	ICV/BS	QC470682	Water	144928	11/14/08 13:57	1.0	6 7 8 9 1	
005	ike05	BSD	QC470683	Water	144928	11/14/08 14:31	1.0	6 7 8 9 1	
006	ike06	TUN	BFB			11/14/08 15:01	1.0	2	
007	ike07	TUN	BFB			11/14/08 15:16	1.0	2	
008	ike08	CCV	20PPB			11/14/08 15:39	1.0	3 4 5 1	
009	ike09	X	IB			11/14/08 16:15	1.0	1	
010	ike10	BLANK	QC470684	Water	144928	11/14/08 16:50	1.0	1	
011	ike11	SAMPLE	207430-007	Water	144928	11/14/08 17:25	500.0	1	pH > 2
012	ike12	SAMPLE	207489-003	Water	144928	11/14/08 18:01	2.0	1	
013	ike13	SAMPLE	207489-004	Water	144928	11/14/08 18:35	4000	1	
014	ike14	SAMPLE	207489-005	Water	144928	11/14/08 19:09	5.0	1	
015	ike15	SAMPLE	207489-001	Water	144928	11/14/08 19:43	50.0	1	headspace <= 1 mL
016	ike16	SAMPLE	207492-001	Water	144928	11/14/08 20:16	1.0	1	
017	ike17	SAMPLE	207551-009	Water	144928	11/14/08 20:50	1.0	1	
018	ike18	SAMPLE	207551-010	Water	144928	11/14/08 21:24	1.0	1	
019	ike19	SAMPLE	207553-005	Water	144928	11/14/08 22:00	2.0	1	
020	ike20	SAMPLE	207553-002	Water	144928	11/14/08 22:35	3.333	1	
021	ike21	SAMPLE	207553-009	Water	144928	11/14/08 23:09	5.0	1	1:TCE=110
022	ike22	SAMPLE	207553-003	Water	144928	11/14/08 23:42	7.143	1	
023	ike23	SAMPLE	207553-004	Water	144928	11/15/08 00:17	16.67	1	
024	ike24	SAMPLE	207553-010	Water	144928	11/15/08 00:53	12.50	1	
025	ike25	SAMPLE	207553-007	Water	144928	11/15/08 01:28	20.0	1	
026	ike26	SAMPLE	207553-008	Water	144928	11/15/08 02:03	40.0	1	
027	ike27	SAMPLE	207553-001	Water	144928	11/15/08 02:37	50.0	1	
028	ike28	SAMPLE	207553-011	Water	144928	11/15/08 03:12	50.0	1	
029	ike29	X	IB			11/15/08 03:46	1.0	1	
030	ike30	X	IB			11/15/08 04:23	1.0	1	
031	ike31	X	IB			11/15/08 04:58	1.0	1	
032	ike32	X	IB			11/15/08 05:32	1.0	1	
033	ike33	X	IB			11/15/08 06:07	1.0	1	

MJM 11/14/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 001 through 004.

ACM 12/05/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 5 through 28.

Analyst: ACM Date: 11/16/08 Reviewer: LW Date: 11/17/08

Standards used: 1=S10716 2=S9454 3=S10756 4=S10355 5=S10619 6=S10654 7=S10533 8=S10631 9=S10601

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 488524736

Instrument : MSVOA09 Begun : 12/29/08 09:36
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
001	ilt01	X	IB			12/29/08 09:36	1.0	1
002	ilt02	TUN	BFB			12/29/08 10:21	1.0	2
003	ilt03	CCV	20PPB			12/29/08 10:40	1.0	3 4 5 1
004	ilt04	BS	QC477360	Water	146470	12/29/08 11:14	1.0	6 7 8 9 1
005	ilt05	BSD	QC477361	Water	146470	12/29/08 11:52	1.0	6 7 8 9 1
006	ilt06	X	IB			12/29/08 12:25	1.0	1
007	ilt07	BLANK	QC477362	Water	146470	12/29/08 12:59	1.0	1
008	ilt08	SAMPLE	208749-009	Water	146470	12/29/08 13:33	1.0	1
009	ilt09	SAMPLE	208749-008	Water	146470	12/29/08 14:06	4.0	1
010	ilt10	TUN	BFB			12/29/08 14:41	1.0	2
011	ilt11	CCV	20PPB			12/29/08 15:10	1.0	3 4 5 1
012	ilt12	X	IB			12/29/08 15:43	1.0	1
013	ilt13	BLANK	QC477491	Water	146470	12/29/08 16:17	1.0	1
014	ilt14	SAMPLE	208846-025	Water	146470	12/29/08 16:51	1.0	1
015	ilt15	SAMPLE	208744-007	Water	146470	12/29/08 17:24	1.0	1
016	ilt16	MSS	208744-008	Water	146470	12/29/08 17:58	1.0	1
017	ilt17	SAMPLE	208744-009	Water	146470	12/29/08 18:31	1.0	1
018	ilt18	SAMPLE	208744-010	Water	146470	12/29/08 19:05	1.0	1
019	ilt19	SAMPLE	208744-011	Water	146470	12/29/08 19:38	1.0	1
020	ilt20	SAMPLE	208744-013	Water	146470	12/29/08 20:12	1.0	1
021	ilt21	SAMPLE	208744-014	Water	146470	12/29/08 20:46	1.0	1
022	ilt22	SAMPLE	208744-015	Water	146470	12/29/08 21:19	1.0	1
023	ilt23	SAMPLE	208746-001	Water	146470	12/29/08 21:53	1.0	1
024	ilt24	SAMPLE	208810-001	Water	146470	12/29/08 22:27	1.0	1
025	ilt25	SAMPLE	208810-002	Water	146470	12/29/08 23:00	1.0	1
026	ilt26	SAMPLE	208810-003	Water	146470	12/29/08 23:33	1.0	1
027	ilt27	SAMPLE	208810-004	Water	146470	12/30/08 00:06	1.0	1
028	ilt28	SAMPLE	208810-009	Water	146470	12/30/08 00:40	1.0	1
029	ilt29	SAMPLE	208744-012	Water	146470	12/30/08 01:13	2.0	1
030	ilt30	MS	QC477492	Water	146470	12/30/08 01:47	1.0	6 7 8 9 1
031	ilt31	MSD	QC477493	Water	146470	12/30/08 02:20	1.0	6 7 8 9 1
032	ilt32	X	IB			12/30/08 02:54	1.0	1
033	ilt33	X	IB			12/30/08 03:27	1.0	1
034	ilt34	X	IB			12/30/08 04:00	1.0	1
035	ilt35	X	IB			12/30/08 04:34	1.0	1
036	ilt36	X	IB			12/30/08 05:07	1.0	1

MJM 12/30/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 001 through 036.

Analyst: MJM Date: 12/30/08 Reviewer: ACM Date: 12/30/08

Standards used: 1=S10716 2=S10902 3=S10928 4=S10865 5=S10946 6=S11013 7=S10935 8=S10798 9=S10985

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GC/MS VOLATILE ORGANICS

Batch #: 146449

Water Sample Prep Sheet

	Sample Number	Sample Vial	pH	Head space?	Shelf	Dil'n Flask	MS#	Comments	Initials & Date
1	208749-1	A	<2	LV	1		6	TB	[illegible] 12/24/08
2	-2	B	↓					1x MSS	
3	-2	CDE	<2					MS/MSD	
4	-3	B	<2						
5	-4								
6	-5								
7	-6								
8	-7								
9	-8								
10	-9	↓	↓						
11	208750-1	A	<2	LV				TB	
12	-2	B						1x	
13	-3								
14	-4								
15	-5		↓						
16	-6		<2					3.3x	
17	-7							1x	
18	208702-4								
19	-5	↓	↓						
20	208742-1	A						1x	
21	-2	↓	↓					1x	
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									

GC/MS VOLATILE ORGANICS

Batch #: 146470

Water Sample Prep Sheet

	Sample Number	Sample Vial	pH	Head space?	Shelf	Dil'n Flask	MS#	Comments	Initials & Date
1	208846-025	C	<2				9	RR 1x cc/y curve(+)	MOM 12/29/08
2	208749-008		<2			1		4x BZ/MTBE >LR Hold 12/29	
3	-009							1x " CO "V"	
4	208744-007	A						1x ~~MSS~~ clean MB	
5	-008							MSS	
6		BCD	<2					MS/MSD	
7	-009	A							
8	-010								
9	-011								
10	-012		<2			1		2x	
11	-013							1x	
12	-014								
13	-015							TB	
14	208746-001							1x	
15	208810-001								
16	-002								
17	-003								
18	-004								
19	-009								
20									
21									
22									
23									
24									
25									
26									
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34									
35									

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 208750
ANALYTICAL REPORT

CH2M Hill 2625 South Plaza Drive Tempe, AZ 85282-3397	Project : 371016.SH.60.61.QS Location : Quarterly UST Level : III

Sample ID	Lab ID
TB-121608	208750-001
ASE-68A-8D1	208750-002
ASE-61A-8D1	208750-003
PL-509-8D1	208750-004
ASE-60A-8D1	208750-005
ASE-52A-8D1	208750-006
PL-513-8D1	208750-007

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 01/06/2009
Project Manager

Signature: _____ Date: 01/06/2009
Senior Program Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**208750**
Client:	**CH2M Hill**
Project:	**371016.SH.60.61.QS**
Location:	**Quarterly UST**
Request Date:	**12/18/08**
Samples Received:	**12/18/08**

This data package contains sample and QC results for seven water samples, requested for the above referenced project on 12/18/08. See attached cooler receipt form for any sample receipt problems or discrepancies.

TPH-Extractables by GC (EPA 8015B):
The chromatographic baseline has been redrawn for all samples and standards to accurately quantitate all target hydrocarbons.

No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
Low responses were observed for iodomethane and vinyl acetate in the ICV analyzed 11/21/08 00:36; these analytes were not detected at or above the RL in the associated samples, and affected data was qualified with "b".

High responses were observed for n-butylbenzene and sec-butylbenzene in the ICV analyzed 11/14/08 13:57; affected data was qualified with "b".

Low responses were observed for Freon 12 and vinyl acetate in the CCV analyzed 12/24/08 14:35; these analytes met minimum response criteria. High response was observed for bromomethane; this analyte was not detected at or above the RL in the associated samples.

Low response was observed for vinyl acetate in the CCV analyzed 12/24/08 08:21; this analyte met minimum response criteria, and affected data was qualified with "b". High response was observed for hexachlorobutadiene; affected data was qualified with "b".

Low response was observed for iodomethane in the CCV analyzed 12/30/08 10:17; this analyte met minimum response criteria, and affected data was qualified with "b". High responses were observed for many analytes; affected data was qualified with "b".

High response was observed for 2,2-dichloropropane in the CCV analyzed 12/30/08 12:28.

High recovery was observed for hexachlorobutadiene in the LCS for batch 146419; this analyte was not detected at or above the RL in the associated samples.

Low recoveries were observed for styrene and vinyl acetate in the MS/MSD of

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**208750**
Client:	**CH2M Hill**
Project:	**371016.SH.60.61.QS**
Location:	**Quarterly UST**
Request Date:	**12/18/08**
Samples Received:	**12/18/08**

Volatile Organics by GC/MS (EPA 8260B):

ASE-65A-8D1 (lab # 208749-002); the LCS was within limits, and the associated RPDs were within limits. High recoveries were observed for a number of analytes in the MS of ASE-65A-8D1 (lab # 208749-002); the associated RPDs were within limits.

High recoveries were observed for carbon tetrachloride and 2,2-dichloropropane in the BS/BSD for batch 146514; the associated RPDs were within limits, and these high recoveries were not associated with any reported results.

No other analytical problems were encountered.

Chain of Custody

208750

Curtis & Tompkins Laboratories
2323 5th St.
Berkeley, CA 94710
510-204-2221

Honeywell — Chain Of Custody / Analysis Request

AESI Ref:	39784.54128
COC#	37380
Lab Proj # (SDG):	
Lab ID	CTBERK
Site ID	SKYHARBOR
Lab Job #	
Authorized User:	Honeywell
Text & Excel File Drive	Excel & Text File Order

Privileged & Confidential

Site Name: Sky Harbor
Location of Site: Phoenix, AZ
Phase:
Sampling Program: Quarterly UST

Sampling Co.: H+A
EDD To: Jennifer Peterson, jennifer.Peterson@ch2m.com
Sampler: ~~M. Weise~~ - M. Hall J. Yoder
PO #: 4990342
Analysis Turnaround Time (TAT): 7
Consultant
Full Report TAT: 7

Client Contact: (name, co., address)
CH2M HILL
2625 South Plaza Drive, Suite 300
Tempe, AZ 85282

Preliminary Data To: Jennifer Peterson, CH2M HILL
Sample Receipt Acknowledgement To: Jennifer Peterson, CH2M HILL
Hard Copy To: Jennifer Peterson, CH2M HILL
Invoice To: Honeywell/Copy J Peterson

Preservative

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite/Grab	Field Filtered Sample ?	Total VOCs (SW8260)	TRPH DRO C10-C22 - ORO C22-C32 (8015B)	MS/MSD	Sampling Method (code)	Lab Sample Numbers
											Units						
1	TB	--	--	TB-121608	12/16/8	0625	BLKWATER	WATER	TB	1	G	N	X				
2	ASE-68A	94	--	ASE-68A-8D1	12/16/8	0806	GW	WATER	REG	5	G	N	X	X			
3	ASE-61A	89	--	ASE-61A-8D1	12/16/8	0936	GW	WATER	REG	5	G	N	X	X			
4		--	--	PL-509-8D1	12/16/8	0946	GW	WATER	REG	5	G	N	X	X			
5	ASE-60A	89	--	ASE-60A-8D1	12/16/8	1020	GW	WATER	REG	5	G	N	X	X			
6	ASE-52A	80	--	ASE-52A-8D1	12/16/8	1104	GW	WATER	REG	5	G	N	X	X			
7	ERB	--	--	PL-513-8D1	12/16/8	1120	BLKWATER	WATER	ERB	5	G	N	X	X			
8																	
9																	
10																	
11																	
12																	

Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Cooler Temp.	Custody Seals Intact
	H+A	12/17/08 14:00		Fed Ex	12/17/08 14:00			
Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Cooler Temp.	Custody Seals Intact
					12/18/08 1000			

Preservatives: (Other; Specify):

0 (none); 1 (4 Deg C); 2 (HCl pH<2); 3 (HNO3 pH<2); 4 (H2SO4 pH<2); 5 (NaOH pH>12); 6 (NaOH, Zn Acetate); 7 (H2SO4 (pH<2), 4 Deg C)); 8 (HCl pH<2); 9 (HCl 4 Deg C); 10 (HNO3 (pH<2), 4Deg C); 11 (4C NaOH (pH>12) & Ascorbic Acid); 12 (4C H2SO4 (pH<2) & Na2S2O3); 13 (Zn Acetate); sp (special instructions)

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COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 208750 Date Received 12/17/08 Number of coolers 4
Client CH2M Hill Project

Date Opened 12/18/08 By (print) PHUONG (sign) P. Le
Date Logged in By (print) S Evans (sign)

1. Did cooler come with a shipping slip (airbill, etc) MASTER # YES NO
   Shipping info Fed ex 8670 5499 7043

2A. Were custody seals present? ... ☑ YES (circle) on cooler on samples ☐ NO
   How many 4 Name unreadable Date 12/17/08

2B. Were custody seals intact upon arrival? YES NO N/A

3. Were custody papers dry and intact when received? YES NO

4. Were custody papers filled out properly (ink, signed, etc)? YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO

6. Indicate the packing in cooler: (if other, describe)

   ☑ Bubble Wrap ☐ Foam blocks ☑ Bags ☐ None
   ☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation:

   Type of ice used: ☑ Wet ☐ Blue/Gel ☐ None Temp(°C) 2.2, 4.5, 3.2, 4.2

   ☐ Samples Received on ice & cold without a temperature blank

   ☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES NO
   If YES, what time were they transferred to freezer?

9. Did all bottles arrive unbroken/unopened? YES NO

10. Are samples in the appropriate containers for indicated tests? YES NO

11. Are sample labels present, in good condition and complete? YES NO

12. Do the sample labels agree with custody papers? YES NO

13. Was sufficient amount of sample sent for tests requested? YES NO

14. Are the samples appropriately preserved? YES NO N/A

15. Are bubbles > 6mm absent in VOA samples? YES NO N/A

16. Was the client contacted concerning this sample delivery? YES NO
   If YES, Who was called? By Date:

COMMENTS
BUBBLES = #4 - 1/3 cm

Laboratory Job Number 208750

ANALYTICAL REPORT

TPH-Extractables by GC

Matrix: Water

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	208750	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	12/16/08
Units:	ug/L	Received:	12/18/08
Diln Fac:	1.000	Prepared:	12/19/08
Batch#:	146274		

Field ID:	ASE-68A-8D1	Lab ID:	208750-002
Type:	SAMPLE	Analyzed:	12/23/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	2,800 Y	50		
Motor Oil C22-C32	84 J	300	40	E4

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	101	50-120	
Hexacosane	108	58-127	

Field ID:	ASE-61A-8D1	Lab ID:	208750-003
Type:	SAMPLE	Analyzed:	12/23/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	36 J	50		E4
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	89	50-120	
Hexacosane	89	58-127	

Field ID:	PL-509-8D1	Lab ID:	208750-004
Type:	SAMPLE	Analyzed:	12/23/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	40 J	50		E4
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	90	50-120	
Hexacosane	92	58-127	

Field ID:	ASE-60A-8D1	Lab ID:	208750-005
Type:	SAMPLE	Analyzed:	12/23/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	35 J	50		E4
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	81	50-120	
Hexacosane	80	58-127	

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	208750	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	12/16/08
Units:	ug/L	Received:	12/18/08
Diln Fac:	1.000	Prepared:	12/19/08
Batch#:	146274		

Field ID:	ASE-52A-8D1	Lab ID:	208750-006
Type:	SAMPLE	Analyzed:	12/23/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	1,600 Y	50		
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	94	50-120	
Hexacosane	96	58-127	

Field ID:	PL-513-8D1	Lab ID:	208750-007
Type:	SAMPLE	Analyzed:	12/23/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	16 J	50		E4
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	87	50-120	
Hexacosane	87	58-127	

Type:	BLANK	Analyzed:	12/22/08
Lab ID:	QC476602		

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	ND	50		
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	99	50-120	
Hexacosane	103	58-127	

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	208750	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC476603	Batch#:	146274
Matrix:	Water	Prepared:	12/19/08
Units:	ug/L	Analyzed:	12/22/08

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Diesel C10-C22	2,500	2,431	97	54-120	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	100	50-120	
Hexacosane	101	58-127	

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	208750	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Field ID:	ASE-127A-8D1	Batch#:	146274
MSS Lab ID:	208752-002	Sampled:	12/12/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Prepared:	12/19/08
Diln Fac:	1.000	Analyzed:	12/22/08

Type: MS Lab ID: QC476604

Analyte	MSS Result	Spiked	Result	%REC	Limits	ADEQ Flags
Diesel C10-C22	23.08	2,500	2,578	102	54-120	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	107	50-120	
Hexacosane	119	58-127	

Type: MSD Lab ID: QC476605

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
Diesel C10-C22	2,500	2,319	92	54-120	11	31	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	96	50-120	
Hexacosane	95	58-127	

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

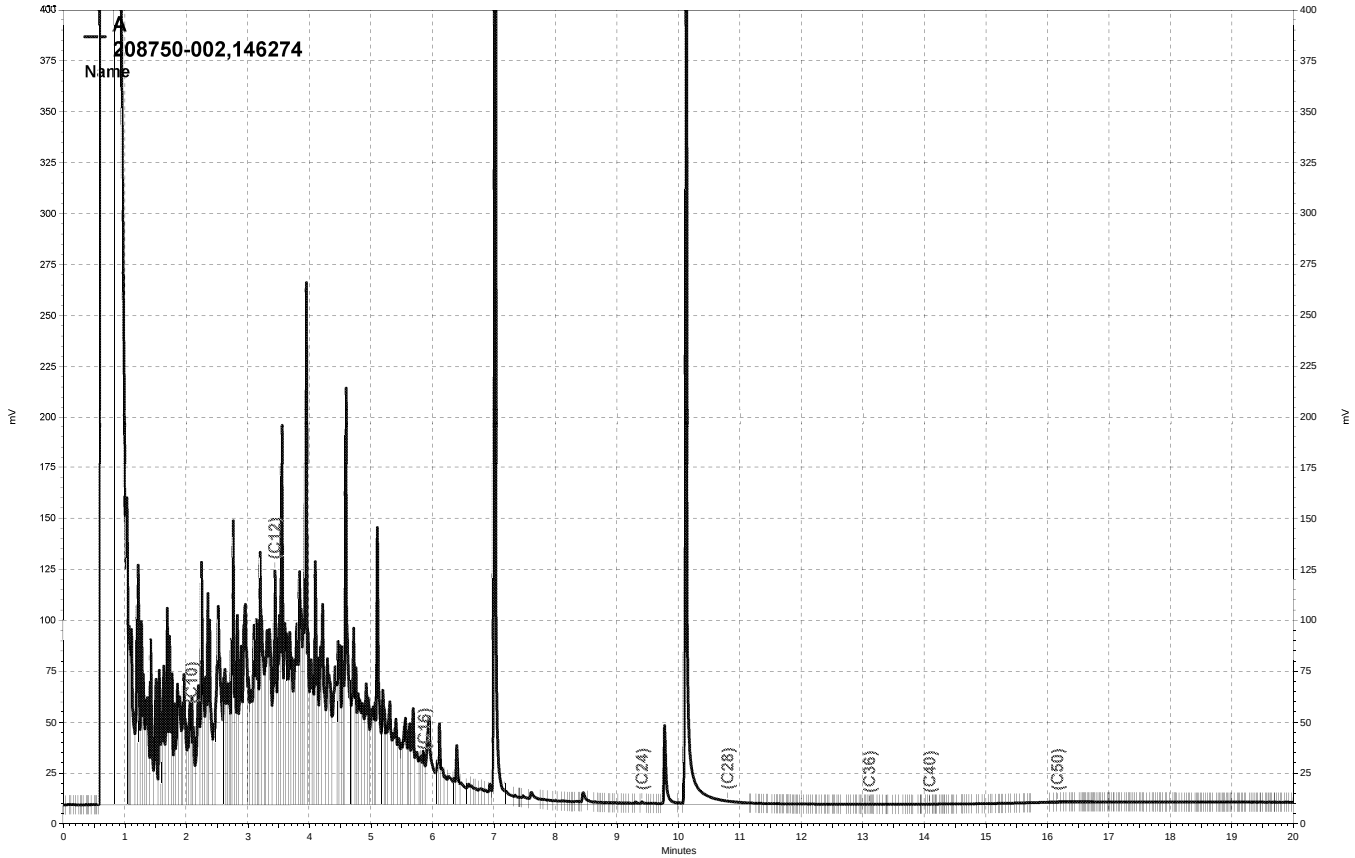
Batch QC Report

Total Extractable Hydrocarbons

Lab #:	208750	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC476606	Batch#:	146274
Matrix:	Water	Prepared:	12/19/08
Units:	ug/L	Analyzed:	12/22/08

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Motor Oil C22-C32	2,500	2,825	113	60-140	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	94	50-120	
Hexacosane	88	58-127	



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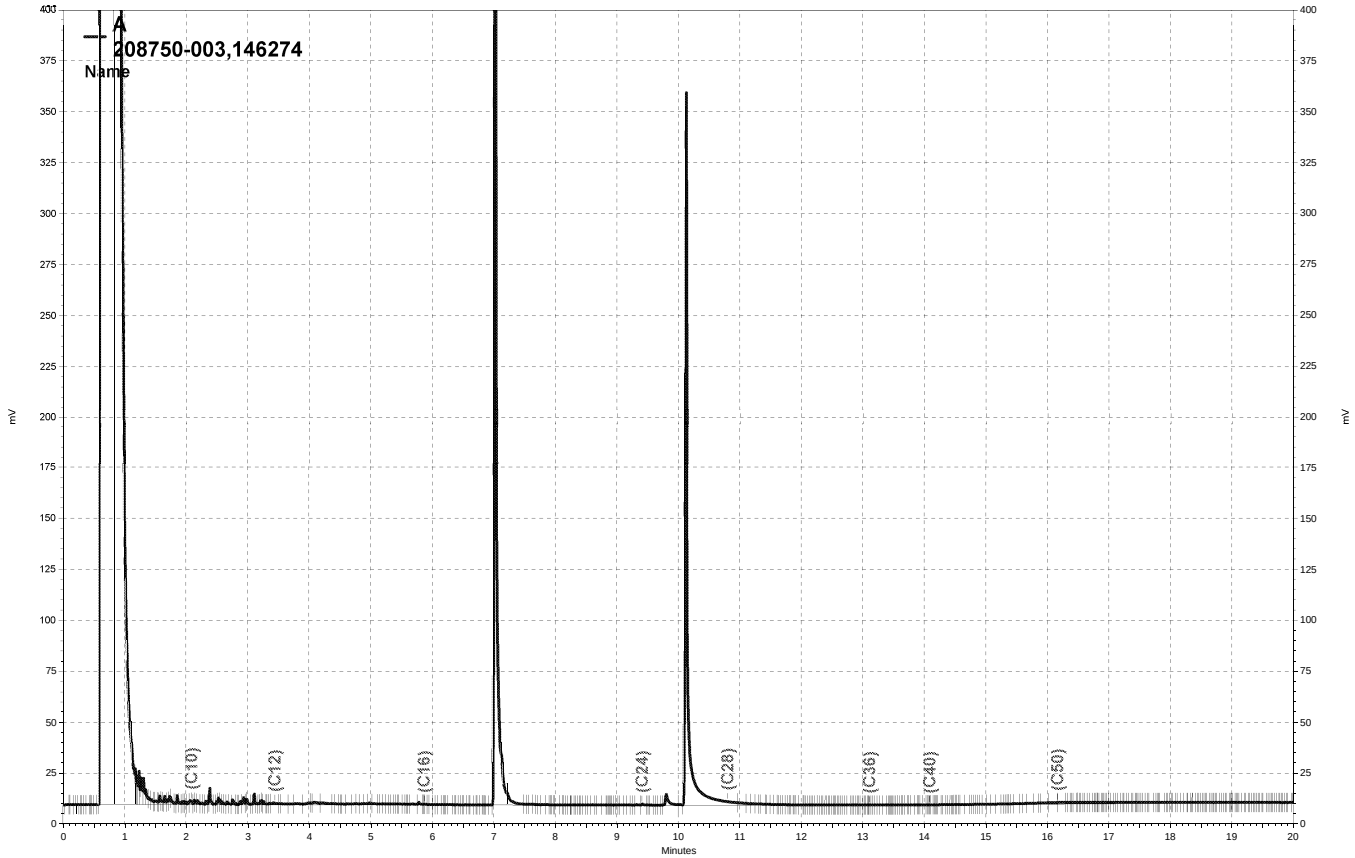

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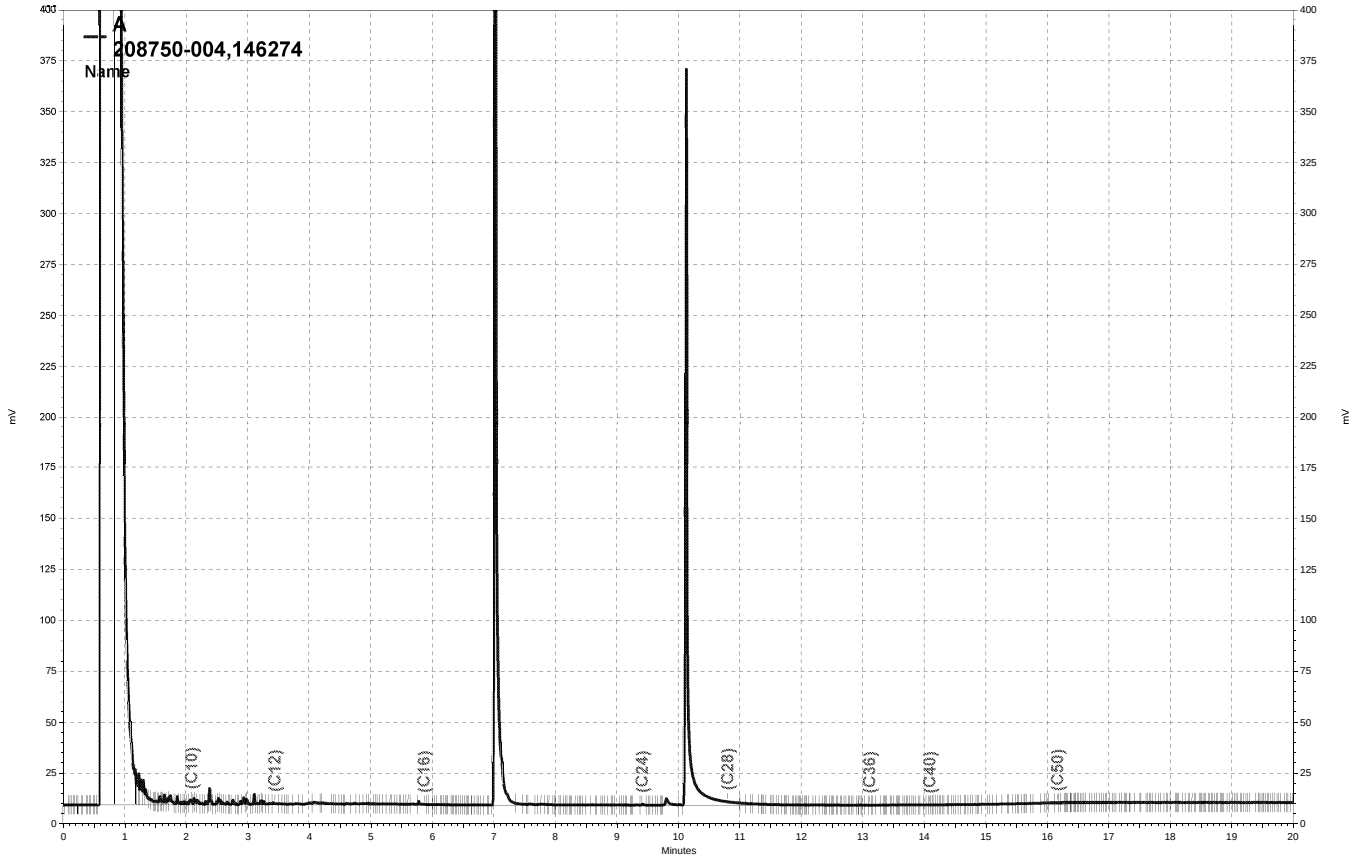

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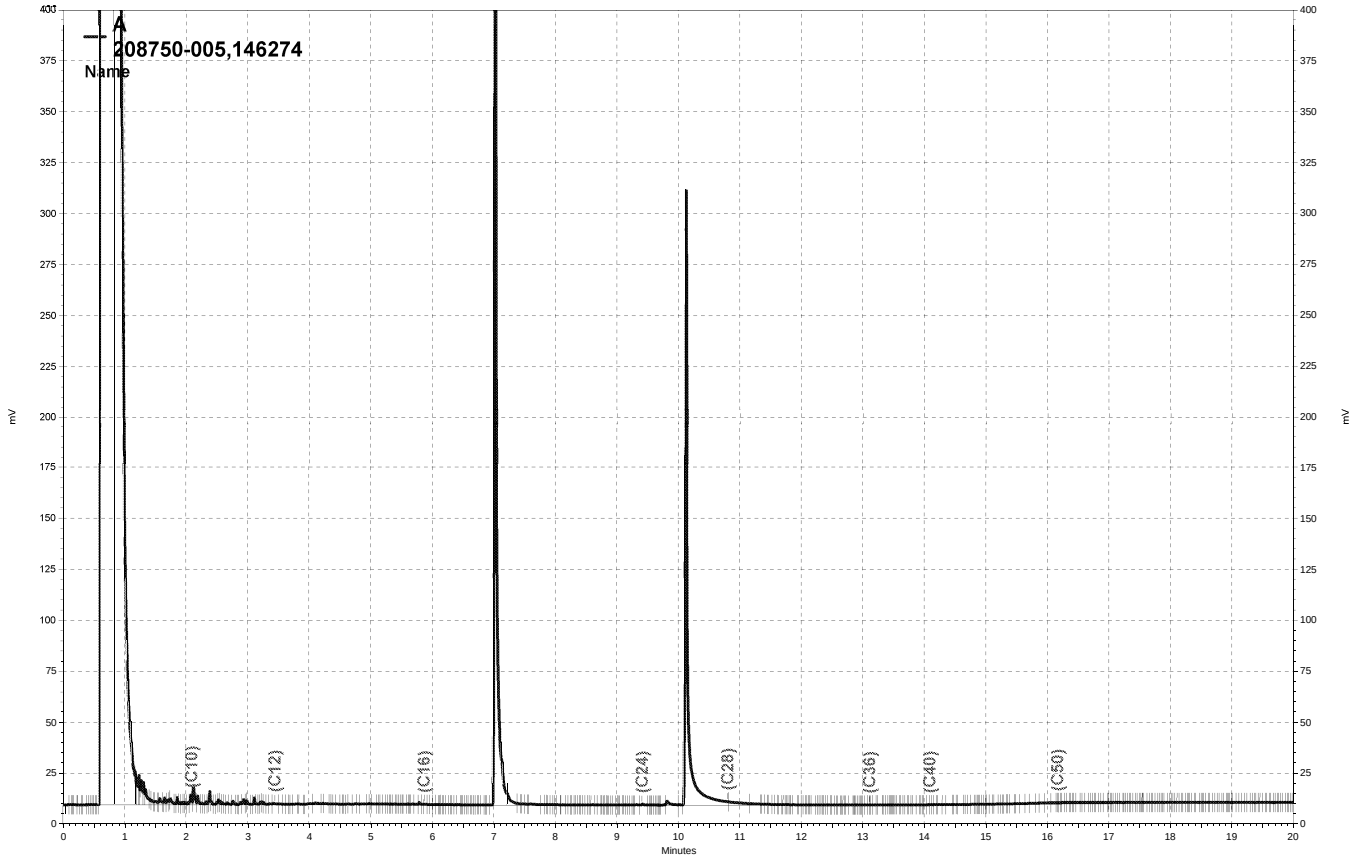

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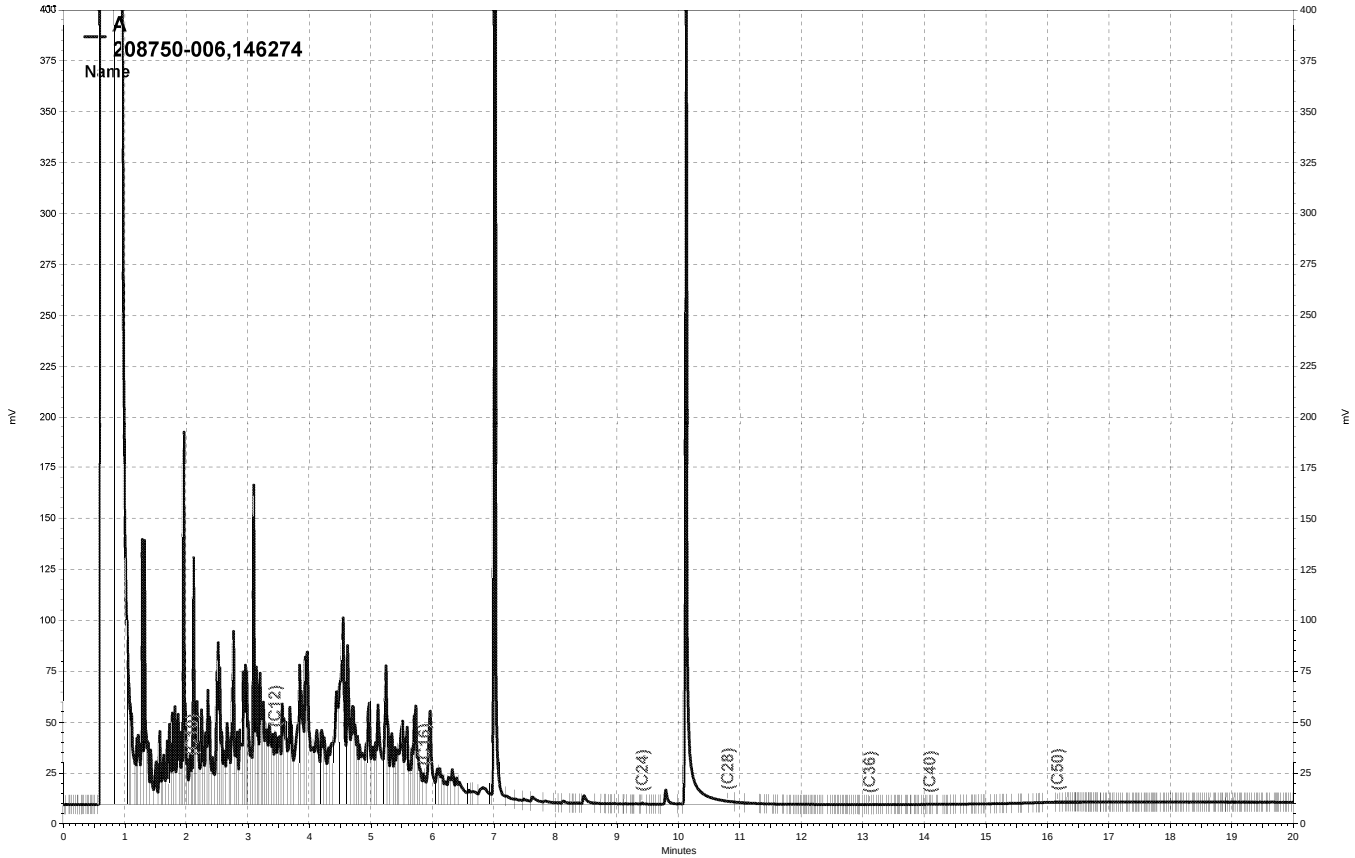

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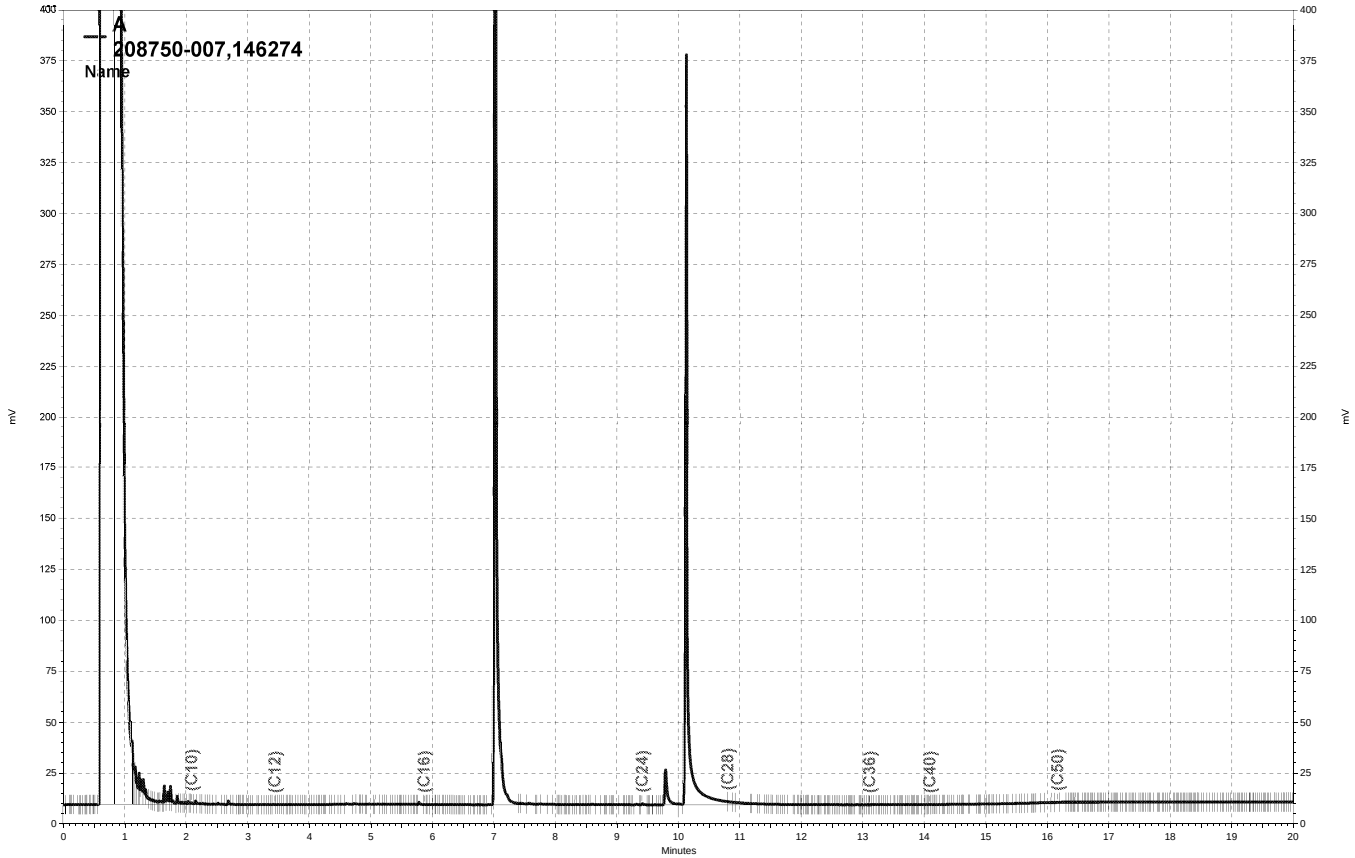

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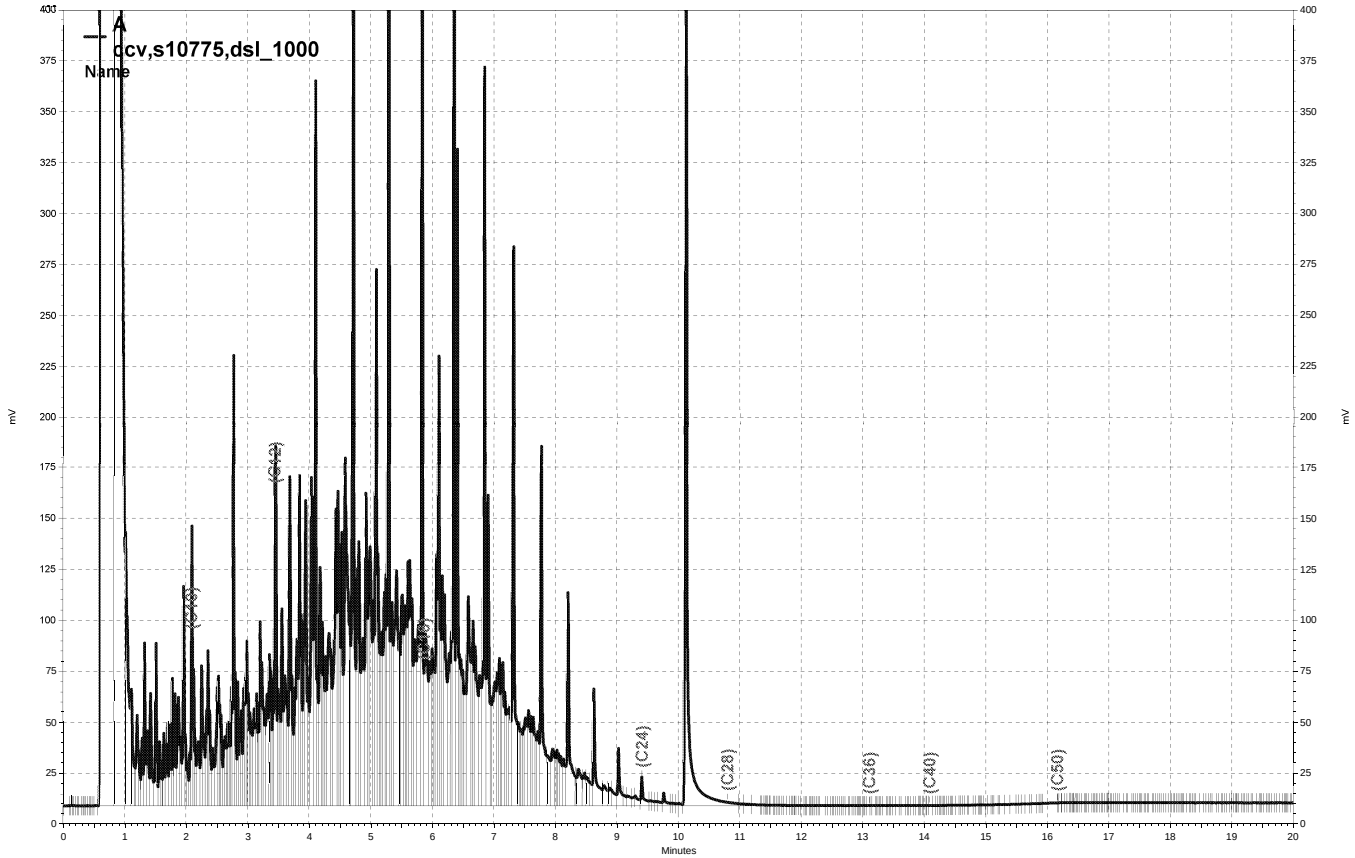

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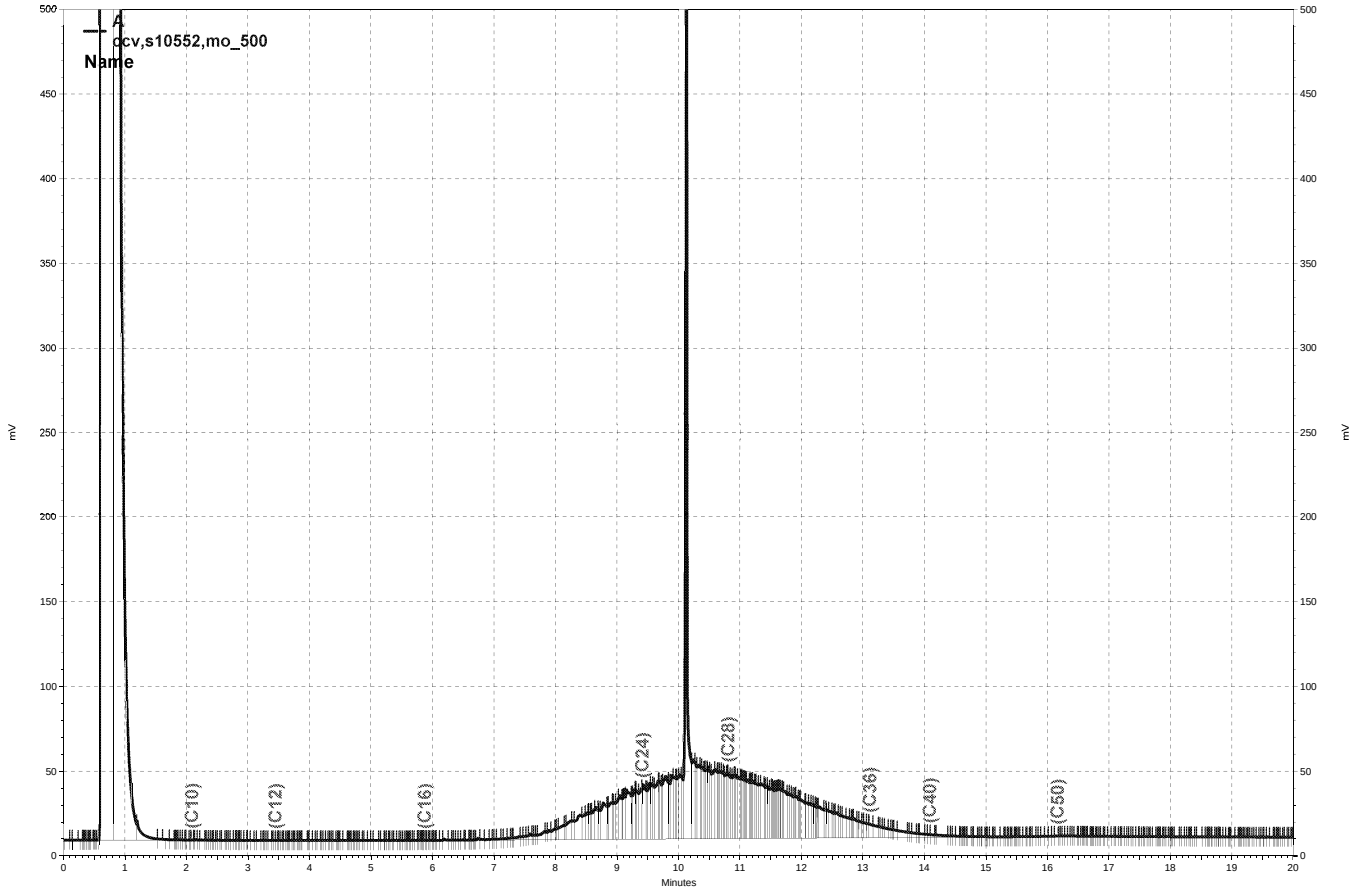

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CURTIS & TOMPKINS INITIAL CALIBRATION FOR 208750 GCSV Water: EPA 8015B

Inst : GC26A
Calnum : 868466089004
Units : mg/L

Name : 26A diesel_323
Date : 18-NOV-2008 19:38
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	323a008	868466089008	DSL_10	18-NOV-2008 19:38	S9527
L2	323a009	868466089009	DSL_100	18-NOV-2008 20:06	S9528
L3	323a010	868466089010	DSL_500	18-NOV-2008 20:35	S9529
L4	323a011	868466089011	DSL_1000	18-NOV-2008 21:04	S9530
L5	323a012	868466089012	DSL_5000	18-NOV-2008 21:33	S9526
L6	323a013	868466089013	DSL_7500	18-NOV-2008 22:01	S9531

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C22	27669	29864	28006	25990	26629	23471	AVRG		3.71E-5		26938	8	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C10-C22	10.00	3	100.0	11	500.0	4	1000	-4	5000	-1	7500	-13

Analyst: ATL Date: 11/24/08 Reviewer: CW Date: 11/24/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 208750 GCSV Water
EPA 8015B

Inst : GC26A Name : 26A diesel_323
Calnum : 868466089004 Cal Date : 18-NOV-2008

ICV 868466089015 (323a015 18-NOV-2008) stds: S10153

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C10-C22	26938	28040	500.0	520.5	mg/L	4	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 208750 GCSV Water: EPA 8015B

Inst : GC26A
Calnum : 868466089003
Units : mg/L

Name : OTP(26A)_323
Date : 19-NOV-2008 09:23
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	323a039	868466089039	OTP_5	19-NOV-2008 09:23	S9739
L2	323a040	868466089040	OTP_10	19-NOV-2008 09:52	S9740
L3	323a041	868466089041	OTP_25	19-NOV-2008 10:20	S9741
L4	323a042	868466089042	OTP_50	19-NOV-2008 10:49	S9742
L5	323a043	868466089043	OTP_100	19-NOV-2008 11:18	S9745
L6	323a044	868466089044	OTP_200	19-NOV-2008 11:47	S9744

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	29916	32641	30352	26603	29783	29496	AVRG		3.36E-5		29798	6	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	5.000	0	10.00	10	25.00	2	50.00	-11	100.0	0	200.0	-1

ATL 11/21/08 : OTP_25 point was used to update RT for asurotp323.met.

Analyst: ATL Date: 11/21/08 Reviewer: CW Date: 11/24/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 208750 GCSV Water: EPA 8015B

Inst : GC26A
Calnum : 868487360001
Units : mg/L

Name : MO(26a)_338
Date : 03-DEC-2008 18:28
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	338a013	868487360013	MO_50	03-DEC-2008 18:28	S10563
L2	338a015	868487360015	MO_500	03-DEC-2008 19:26	S10564
L3	338a016	868487360016	MO_1000	03-DEC-2008 19:55	S10566
L4	338a017	868487360017	MO_5000	03-DEC-2008 20:23	S10567
L5	338a018	868487360018	MO_7500	03-DEC-2008 20:52	S10568
L6	338a030	868487360030	MO_250	04-DEC-2008 13:02	S10565

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C22-C32	11273	12715	12308	12247	11468	11999	AVRG		8.33E-5		12002	5	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C22-C32	50.00	-6	500.0	6	1000	3	5000	2	7500	-4	250.0	0

ATL 12/04/08 : Manually integrated all motor oil points except MO_250 for fuel hump. MO_250 pt. was re-run to confirm misinject run #14.

Analyst: ATL Date: 12/04/08 Reviewer: CP Date: 12/04/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208750 GCSV Water
EPA 8015B

Inst : GC26A Run Name : DSL_1000 IDF : 1.0
Seqnum : 868514507018 File : 357a018 Time : 22-DEC-2008 14:45
Standards: S10775

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C22	868466089004	18-NOV-2008	26938	27961	1000	1038	mg/L	4	15	
Hexacosane	868470899001	21-NOV-2008	20727	21687	50.00	52.32	mg/L	5	15	

Analyst: CP Date: 12/22/08 Reviewer: ATL Date: 12/23/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208750 GCSV Water
EPA 8015B

Inst : GC26A Run Name : MO_500 IDF : 1.0
Seqnum : 868514507019 File : 357a019 Time : 22-DEC-2008 15:13
Standards: S10552

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C22-C32	868487360001	03-DEC-2008	12002	12935	500.0	538.9	mg/L	8	15	
Hexacosane	868470899001	21-NOV-2008	20727	17882	50.00	43.14	mg/L	-14	15	

JDG 12/22/08 : Corrected automatically drawn baseline .

Analyst: JDG Date: 12/22/08 Reviewer: ATL Date: 12/23/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208750 GCSV Water
EPA 8015B

Inst : GC26A Run Name : OTP_50 IDF : 1.0
Seqnum : 868514507022 File : 357a022 Time : 22-DEC-2008 16:45
Cal : 868466089003 Caldate : 19-NOV-2008
Standards: S10089

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
o-Terphenyl	29798	30099	50.00	50.50	mg/L	1	15	

Analyst: JDG Date: 12/22/08 Reviewer: ATL Date: 01/02/09

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208750 GCSV Water
EPA 8015B

Inst : GC26A Run Name : OTP_50 IDF : 1.0
Seqnum : 868514507035 File : 357a035 Time : 22-DEC-2008 23:34
Cal : 868466089003 Caldate : 19-NOV-2008
Standards: S10089

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
o-Terphenyl	29798	25937	50.00	43.52	mg/L	-13	15	

Analyst: ATL Date: 12/23/08 Reviewer: CP Date: 01/02/09

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208750 GCSV Water
EPA 8015B

Inst : GC26A Run Name : DSL_250 IDF : 1.0
Seqnum : 868514507036 File : 357a036 Time : 23-DEC-2008 00:03
Standards: S10773

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C22	868466089004	18-NOV-2008	26938	24974	250.0	231.8	mg/L	-7	15	
Hexacosane	868470899001	21-NOV-2008	20727	17879	50.00	43.13	mg/L	-14	15	

Analyst: ATL Date: 12/23/08 Reviewer: CP Date: 01/02/09

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208750 GCSV Water
EPA 8015B

Inst : GC26A Run Name : MO_500 IDF : 1.0
Seqnum : 868514507037 File : 357a037 Time : 23-DEC-2008 00:31
Standards: S10552

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C22-C32	868487360001	03-DEC-2008	12002	11325	500.0	471.8	mg/L	-6	15	
Hexacosane	868470899001	21-NOV-2008	20727	15170	50.00	36.60	mg/L	**-27**	15	c-

ATL 12/23/08 : Manually integrated fuel hump.

Analyst: ATL Date: 12/23/08 Reviewer: CP Date: 01/02/09

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208750 GCSV Water
EPA 8015B

Inst : GC26A Run Name : DSL_500 IDF : 1.0
Seqnum : 868514507049 File : 357a049 Time : 23-DEC-2008 06:10
Standards: S10774

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C22	868466089004	18-NOV-2008	26938	27037	500.0	501.8	mg/L	0	15	
Hexacosane	868470899001	21-NOV-2008	20727	19026	50.00	45.90	mg/L	-8	15	

Analyst: ATL Date: 12/23/08 Reviewer: EAH Date: 01/06/09

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208750 GCSV Water
EPA 8015B

Inst : GC26A Run Name : MO_500 IDF : 1.0
Seqnum : 868514507050 File : 357a050 Time : 23-DEC-2008 06:39
Standards: S10552

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C22-C32	868487360001	03-DEC-2008	12002	12028	500.0	501.1	mg/L	0	15	
Hexacosane	868470899001	21-NOV-2008	20727	16122	50.00	38.89	mg/L	**-22**	15	c-

ATL 12/23/08 : Manually integrated fuel hump.

Analyst: ATL Date: 12/23/08 Reviewer: EAH Date: 01/06/09

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208750 GCSV Water
EPA 8015B

Inst : GC26A Run Name : OTP_50 IDF : 1.0
Seqnum : 868514507051 File : 357a051 Time : 23-DEC-2008 07:07
Cal : 868466089003 Caldate : 19-NOV-2008
Standards: S10089

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
o-Terphenyl	29798	25267	50.00	42.40	mg/L	-15	15	

ATL 01/05/09 [o-Terphenyl A]: Corrected automatically drawn baseline .

Analyst: ATL Date: 12/23/08 Reviewer: EAH Date: 01/06/09

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868466089

Instrument : GC26A Begun : 11/18/08 16:09
Method : EPA 8015B SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	323a001	X	PRIMER			11/18/08 16:09	1.0		
002	323a002	X	IB			11/18/08 16:38	1.0		
003	323a003	X	IB			11/18/08 17:06	1.0		
007	323a007	IB	CALIB			11/18/08 19:09	1.0		
008	323a008	ICAL	DSL_10			11/18/08 19:38	1.0	1	
009	323a009	ICAL	DSL_100			11/18/08 20:06	1.0	2	
010	323a010	ICAL	DSL_500			11/18/08 20:35	1.0	3	
011	323a011	ICAL	DSL_1000			11/18/08 21:04	1.0	4	
012	323a012	ICAL	DSL_5000			11/18/08 21:33	1.0	5	
013	323a013	ICAL	DSL_7500			11/18/08 22:01	1.0	6	
015	323a015	ICV	DSL_500			11/18/08 22:59	1.0	7	
017	323a017	IB	CALIB			11/18/08 23:56	1.0		
032	323a032	ICAL	JP5_10			11/19/08 06:03	1.0	8	
033	323a033	ICAL	JP5_100			11/19/08 06:31	1.0	9	
034	323a034	ICAL	JP5_500			11/19/08 07:00	1.0	10	
035	323a035	ICAL	JP5_1500			11/19/08 07:28	1.0	11	
036	323a036	ICAL	JP5_2500			11/19/08 07:57	1.0	12	
037	323a037	ICAL	JP5_5000			11/19/08 08:26	1.0	13	
038	323a038	IB	CALIB			11/19/08 08:54	1.0		
039	323a039	ICAL	OTP_5			11/19/08 09:23	1.0	14	
040	323a040	ICAL	OTP_10			11/19/08 09:52	1.0	15	
041	323a041	ICAL	OTP_25			11/19/08 10:20	1.0	16	
042	323a042	ICAL	OTP_50			11/19/08 10:49	1.0	17	
043	323a043	ICAL	OTP_100			11/19/08 11:18	1.0	18	
044	323a044	ICAL	OTP_200			11/19/08 11:47	1.0	19	
045	323a045	IB	CALIB			11/19/08 12:16	1.0		
046	323a046	CMARKER	C8-C50			11/19/08 12:44	1.0	20	

ATL 11/21/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 46.

Analyst: ATL Date: 11/21/08 Reviewer: CW Date: 11/24/08

Standards used: 1=S9527 2=S9528 3=S9529 4=S9530 5=S9526 6=S9531 7=S10153 8=S10506 9=S10507 10=S10508 11=S10509 12=S10510 13=S10505 14=S9739 15=S9740 16=S9741 17=S9742 18=S9745 19=S9744 20=S10268

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CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868487360

Instrument : GC26A Begun : 12/03/08 10:40
Method : EPA 8015B SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	338a001	X	IB			12/03/08 10:40	1.0		
002	338a002	X	IB			12/03/08 11:09	1.0		
003	338a003	X	CMARKER			12/03/08 11:37	1.0	1	
004	338a004	CCV	JP5_250			12/03/08 12:06	1.0	2	
005	338a005	CCV	OTP_50			12/03/08 12:36	1.0	3	
006	338a006	CCV	DSL_250			12/03/08 13:05	1.0	4	
007	338a007	CCV	MO_500			12/03/08 14:34	1.0	5	
009	338a009	CCV	DSL_250			12/03/08 15:32	1.0	6	
010	338a010	CCV	DSL_500			12/03/08 16:01	1.0	7	
011	338a011	CCV	DSL_1000			12/03/08 16:31	1.0	8	
012	338a012	IB	CALIB			12/03/08 17:54	1.0		
013	338a013	ICAL	MO_50			12/03/08 18:28	1.0	9	
014	338a014	X	ICAL			12/03/08 18:57	1.0	10	
015	338a015	ICAL	MO_500			12/03/08 19:26	1.0	11	
016	338a016	ICAL	MO_1000			12/03/08 19:55	1.0	12	
017	338a017	ICAL	MO_5000			12/03/08 20:23	1.0	13	
018	338a018	ICAL	MO_7500			12/03/08 20:52	1.0	14	
019	338a019	IB	CALIB			12/03/08 21:21	1.0		
020	338a020	ICAL	BUNK_50			12/03/08 21:50	1.0	15	
021	338a021	ICAL	BUNK_500			12/03/08 22:19	1.0	16	
022	338a022	ICAL	BUNK_1250			12/03/08 22:48	1.0	17	
023	338a023	ICAL	BUNK_2500			12/03/08 23:16	1.0	18	
024	338a024	ICAL	BUNK_5000			12/03/08 23:45	1.0	19	
025	338a025	IB	CALIB			12/04/08 00:14	1.0		
026	338a026	CMARKER	C8-C50			12/04/08 00:43	1.0	1	
027	338a027	IB	CALIB			12/04/08 01:12	1.0		
028	338a028	X	TANKCHECK			12/04/08 01:40	1.0		
029	338a029	IB	CALIB			12/04/08 12:34	1.0		
030	338a030	ICAL	MO_250			12/04/08 13:02	1.0	10	

ATL 12/04/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 30.

Analyst: ATL Date: 12/04/08 Reviewer: CP Date: 12/04/08

Standards used: 1=S10268 2=S10245 3=S10089 4=S10218 5=S10552 6=S10773 7=S10774 8=S10775 9=S10563 10=S10565 11=S10564 12=S10566 13=S10567 14=S10568 15=S10515 16=S10516 17=S10517 18=S10518 19=S10514

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CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868514507

Instrument : GC26A Begun : 12/22/08 07:07
Method : EPA 8015B SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	357a001	X	IB				12/22/08 07:07	1.0	
002	357a002	X	IB				12/22/08 07:35	1.0	
003	357a003	X	CMARKER				12/22/08 08:07	1.0	1
004	357a004	CCV	DSL_500				12/22/08 08:35	1.0	2
005	357a005	CCV	MO_500				12/22/08 09:04	1.0	3
006	357a006	CCV	JP5_250				12/22/08 09:32	1.0	4
007	357a007	BS	QC476066		Water	146148	12/22/08 10:17	1.0	
008	357a008	BSD	QC476067		Water	146148	12/22/08 10:53	1.0	
009	357a009	SAMPLE	208593-006		Water	146148	12/22/08 11:21	1.0	
010	357a010	X	IB				12/22/08 11:49	1.0	
011	357a011	SAMPLE	208525-001		Water	146148	12/22/08 12:18	1.0	
012	357a012	SAMPLE	208525-002		Water	146148	12/22/08 12:46	1.0	
013	357a013	SAMPLE	208525-003		Water	146148	12/22/08 13:15	1.0	
016	357a016	SAMPLE	208651-056		Water	146148	12/22/08 13:47	1.0	
017	357a017	SAMPLE	208651-058		Water	146148	12/22/08 14:16	1.0	
018	357a018	CCV	DSL_1000				12/22/08 14:45	1.0	5
019	357a019	CCV	MO_500				12/22/08 15:13	1.0	3
020	357a020	CCV	JP5_250				12/22/08 15:42	1.0	4
021	357a021	X	CMARKER				12/22/08 16:10	1.0	1
022	357a022	CCV	OTP_50				12/22/08 16:45	1.0	6
023	357a023	BLANK	QC476602		Water	146274	12/22/08 17:55	1.0	
024	357a024	LCS	QC476603		Water	146274	12/22/08 18:23	1.0	
025	357a025	MSS	208752-002		Water	146274	12/22/08 18:52	1.0	
026	357a026	MS	QC476604		Water	146274	12/22/08 19:20	1.0	
027	357a027	MSD	QC476605		Water	146274	12/22/08 19:48	1.0	
028	357a028	LCS	QC476606		Water	146274	12/22/08 20:17	1.0	
029	357a029	SAMPLE	208749-004		Water	146274	12/22/08 20:45	1.0	
030	357a030	SAMPLE	208749-005		Water	146274	12/22/08 21:13	1.0	
031	357a031	SAMPLE	208749-006		Water	146274	12/22/08 21:41	1.0	
032	357a032	SAMPLE	208749-007		Water	146274	12/22/08 22:10	1.0	
033	357a033	X	CCV				12/22/08 22:38	1.0	7
034	357a034	X	CCV				12/22/08 23:06	1.0	3
035	357a035	CCV	OTP_50				12/22/08 23:34	1.0	6
036	357a036	CCV	DSL_250				12/23/08 00:03	1.0	7
037	357a037	CCV	MO_500				12/23/08 00:31	1.0	3
038	357a038	X	CCV				12/23/08 01:00	1.0	6
039	357a039	SAMPLE	208749-008		Water	146274	12/23/08 01:28	1.0	
040	357a040	SAMPLE	208749-009		Water	146274	12/23/08 01:56	1.0	
041	357a041	SAMPLE	208750-002		Water	146274	12/23/08 02:25	1.0	
042	357a042	SAMPLE	208750-003		Water	146274	12/23/08 02:53	1.0	
043	357a043	SAMPLE	208750-004		Water	146274	12/23/08 03:21	1.0	
044	357a044	SAMPLE	208750-005		Water	146274	12/23/08 03:49	1.0	
045	357a045	SAMPLE	208750-006		Water	146274	12/23/08 04:17	1.0	
046	357a046	SAMPLE	208750-007		Water	146274	12/23/08 04:45	1.0	
047	357a047	SAMPLE	208752-003		Water	146274	12/23/08 05:14	1.0	
048	357a048	SAMPLE	208752-004		Water	146274	12/23/08 05:42	1.0	
049	357a049	CCV	DSL_500				12/23/08 06:10	1.0	2
050	357a050	CCV	MO_500				12/23/08 06:39	1.0	3
051	357a051	CCV	OTP_50				12/23/08 07:07	1.0	6
052	357a052	SAMPLE	208752-005		Water	146274	12/23/08 09:34	1.0	
053	357a053	SAMPLE	208752-006		Water	146274	12/23/08 10:02	1.0	
054	357a054	SAMPLE	208752-007		Water	146274	12/23/08 10:30	1.0	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868514507

Instrument : GC26A Begun : 12/22/08 07:07
Method : EPA 8015B SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
055	357a055	SAMPLE	208752-008		Water	146274	12/23/08 10:59	1.0		
056	357a056	SAMPLE	208752-009		Water	146274	12/23/08 11:27	1.0		
057	357a057	SAMPLE	208504-011	S	Water	146032	12/23/08 11:56	1.0		
058	357a058	X	CMARKER				12/23/08 12:33	1.0	1	
059	357a059	CCV	DSL_1000				12/23/08 13:02	1.0	5	
060	357a060	CCV	MO_500				12/23/08 13:30	1.0	3	
061	357a061	CCV	OTP_50				12/23/08 13:59	1.0	6	
062	357a062	CCV	DSL_1000				12/23/08 16:25	1.0	5	
063	357a063	CCV	DSL_1000				12/23/08 16:54	1.0	5	

JDG 12/22/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 13.

ATL 01/05/09 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 14 through 63.

Standards used: 1=S10268 2=S10774 3=S10552 4=S10245 5=S10775 6=S10089 7=S10773

SAMPLE PREPARATION SUMMARY

Batch # : 146274
Started By : DJT
Method : 3520C
Spike #1 ID : S10879

Prep Date : 19-DEC-2008 13:40
Spike #2 ID : S10905

Analysis : 8015AZ
Finished By : DJT
Units : mL
Spike #3 ID : S10956

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
208749-004		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208749-005		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208749-006		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208749-007		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208749-008		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208749-009		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208750-002		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208750-003		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208750-004		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208750-005		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208750-006		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208750-007		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208752-002		Water	500	2.5	1	0.005	7	.5		.5		TEHM	mss
208752-003		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208752-004		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208752-005		Water	500	2.5	1	0.005	7	.5		.5		TEHM	See comment 1 below
208752-006		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208752-007		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208752-008		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208752-009		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
QC476602	BLANK	Water	500	2.5	1	0.005		.5		.5		8015AZ	
QC476603	LCS	Water	500	2.5	1	0.005		.5	.5	.5		8015AZ	
QC476604	MS	Water	500	2.5	1	0.005	7	.5	.5	.5		8015AZ	
QC476605	MSD	Water	500	2.5	1	0.005	7	.5	.5	.5		8015AZ	
QC476606	LCS	Water	500	2.5	1	0.005		.5		.5		8015AZ	+.5 mL S10787A

Comment 1: small spill during pour (poss loss surr)

Analyst: ATL Date: 01/02/09 Reviewer: CP Date: 01/02/09

TEH (8015) Water Prep Log

Curtis & Tompkins, Ltd.

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LIMS Batch No: 146274
LIMS Analysis: 8015A2
Date Extracted: 12/19/08

Extraction Method:
☐ mod. EPA 3510c sep. funnel
☒ mod. EPA 3520c cont. L/L

Cleanup Method (if needed):
☐ EPA 3630c Silica Gel

Sample #	Container ID	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
208752-002	K	500	7	2.5		MSS
003	E					
004	D					
005	↓					
006	E					
007						
008						
009	↓					
208749-004	D					
005						
006	↓					
007	E					
008	↓					
009	D					
208750-002	E					
003	D					
004	E					
005	D					SMALL SPILL DURING POUR (PESS LOSS SURR)
006						
007	↓		↓			
MB QC476602	NA		NA			
LCS 3	↓		↓			
MS 4	M		7			208752-002
MSD 5	N		↓			↓
* LCS 6	NA	↓	NA	↓		

RFW 12/24/08

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.5/0.5 mL of TEH_SURR was added to all samples	S108798/S10956A	DJT 12/19/08
*0.5/0.5 mL of TEH_SP was added to all spikes	S109058/S10787A*	↓
pH of all samples adjusted to pH ≤ 2 with H_2SO_4	FS085385	↓
☒ 3520c: Samples were continually extracted about 450 mL of CH_2Cl_2	EM48291	↓
Extraction Start Time:	1340	↓
Extraction End Time:	0840	RFW 12/20/08
☐ 3510c: Samples were extracted 3 times with 60 mL of CH_2Cl_2	NA	DJT 12/22/08
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EM48315847	↓
Concentrated to final volume at temperature (degrees C)	100°	↓
Relinquished to TEH Department	✓	↓

12/19/08
Extraction Chemist **Date**

Contined from Page ____
Continued on Page ____

12/24/08
Reviewed by **Date**

Laboratory Job Number 208750

ANALYTICAL REPORT

Volatile Organics by GC/MS

Matrix: Water

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208750	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	TB-121608	Batch#:	146419
Lab ID:	208750-001	Sampled:	12/16/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/24/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	V1
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208750	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	TB-121608	Batch#:	146419
Lab ID:	208750-001	Sampled:	12/16/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/24/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	101	77-120	
1,2-Dichloroethane-d4	99	70-127	
Toluene-d8	100	83-125	
Bromofluorobenzene	101	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208750	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-68A-8D1	Batch#:	146419
Lab ID:	208750-002	Sampled:	12/16/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/24/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	
Vinyl Chloride	84	0.5	
Bromomethane	ND	1.0	V1
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	29	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	20	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	32	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	18	0.5	
Trichloroethene	1.1	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	0.7	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208750	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-68A-8D1	Batch#:	146419
Lab ID:	208750-002	Sampled:	12/16/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/24/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	2.6	0.5	
m,p-Xylenes	0.5	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	3.1	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	3.4	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	0.7	0.5	
1,2,4-Trimethylbenzene	1.9	0.5	
sec-Butylbenzene	2.8	0.5	
para-Isopropyl Toluene	0.9	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	1.6	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1
Naphthalene	5.4	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	0.5	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	95	77-120	
1,2-Dichloroethane-d4	92	70-127	
Toluene-d8	99	83-125	
Bromofluorobenzene	91	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208750	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-61A-8D1	Batch#:	146419
Lab ID:	208750-003	Sampled:	12/16/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/24/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	V1
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	1.6	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	0.7	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	1.1	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	2.1	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208750	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-61A-8D1	Batch#:	146419
Lab ID:	208750-003	Sampled:	12/16/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/24/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	0.6	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	0.7	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	96	77-120	
1,2-Dichloroethane-d4	95	70-127	
Toluene-d8	103	83-125	
Bromofluorobenzene	96	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208750	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	PL-509-8D1	Batch#:	146419
Lab ID:	208750-004	Sampled:	12/16/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/24/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	V1
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	1.5	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	0.7	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	1.2	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	2.1	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208750	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	PL-509-8D1	Batch#:	146419
Lab ID:	208750-004	Sampled:	12/16/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/24/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	0.6	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	0.8	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	95	77-120	
1,2-Dichloroethane-d4	95	70-127	
Toluene-d8	103	83-125	
Bromofluorobenzene	95	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208750	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-60A-8D1	Batch#:	146419
Lab ID:	208750-005	Sampled:	12/16/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/24/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	V1
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	1.3	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	1.4	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	3.2	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	8.0	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	1.4	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208750	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-60A-8D1	Batch#:	146419
Lab ID:	208750-005	Sampled:	12/16/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/24/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	0.6	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	95	77-120	
1,2-Dichloroethane-d4	94	70-127	
Toluene-d8	102	83-125	
Bromofluorobenzene	95	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208750	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-52A-8D1	Units:	ug/L
Lab ID:	208750-006	Sampled:	12/16/08
Matrix:	Water	Received:	12/18/08

Analyte	Result	RL	Diln Fac	Batch#	Analyzed	ADEQ Flags
Freon 12	ND	3.3	3.333	146419	12/25/08	D2 V9
Chloromethane	ND	3.3	3.333	146419	12/25/08	D2
Vinyl Chloride	2.2	1.7	3.333	146419	12/25/08	D2
Bromomethane	ND	3.3	3.333	146419	12/25/08	D2 V1
Chloroethane	8.8	3.3	3.333	146419	12/25/08	D2
Trichlorofluoromethane	ND	3.3	3.333	146419	12/25/08	D2
Iodomethane	ND	33	3.333	146419	12/25/08	D2
Acetone	ND	33	3.333	146419	12/25/08	D2
1,1-Dichloroethene	ND	1.7	3.333	146419	12/25/08	D2
Methylene Chloride	ND	33	3.333	146419	12/25/08	D2
Carbon Disulfide	ND	1.7	3.333	146419	12/25/08	D2
MTBE	130	1.7	3.333	146419	12/25/08	D2
trans-1,2-Dichloroethene	ND	1.7	3.333	146419	12/25/08	D2
Vinyl Acetate	ND	33	3.333	146419	12/25/08	D2 V9
1,1-Dichloroethane	27	1.7	3.333	146419	12/25/08	D2
2-Butanone	ND	33	3.333	146419	12/25/08	D2
cis-1,2-Dichloroethene	2.5	1.7	3.333	146419	12/25/08	D2
2,2-Dichloropropane	ND	1.7	3.333	146419	12/25/08	D2
Chloroform	ND	1.7	3.333	146419	12/25/08	D2
Bromochloromethane	ND	1.7	3.333	146419	12/25/08	D2
1,1,1-Trichloroethane	ND	1.7	3.333	146419	12/25/08	D2
1,1-Dichloropropene	ND	1.7	3.333	146419	12/25/08	D2
Carbon Tetrachloride	ND	1.7	3.333	146419	12/25/08	D2
1,2-Dichloroethane	ND	1.7	3.333	146419	12/25/08	D2
Benzene	400	5.0	10.00	146514	12/30/08	D1
Trichloroethene	ND	1.7	3.333	146419	12/25/08	D2
1,2-Dichloropropane	ND	1.7	3.333	146419	12/25/08	D2
Bromodichloromethane	ND	1.7	3.333	146419	12/25/08	D2
Dibromomethane	ND	1.7	3.333	146419	12/25/08	D2
4-Methyl-2-Pentanone	ND	33	3.333	146419	12/25/08	D2
cis-1,3-Dichloropropene	ND	1.7	3.333	146419	12/25/08	D2
Toluene	ND	1.7	3.333	146419	12/25/08	D2
trans-1,3-Dichloropropene	ND	1.7	3.333	146419	12/25/08	D2
1,1,2-Trichloroethane	ND	1.7	3.333	146419	12/25/08	D2
2-Hexanone	ND	33	3.333	146419	12/25/08	D2
1,3-Dichloropropane	ND	1.7	3.333	146419	12/25/08	D2
Tetrachloroethene	ND	1.7	3.333	146419	12/25/08	D2
Dibromochloromethane	ND	1.7	3.333	146419	12/25/08	D2
1,2-Dibromoethane	ND	1.7	3.333	146419	12/25/08	D2

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208750	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-52A-8D1	Units:	ug/L
Lab ID:	208750-006	Sampled:	12/16/08
Matrix:	Water	Received:	12/18/08

Analyte	Result	RL	Diln Fac	Batch#	Analyzed	ADEQ Flags
Chlorobenzene	ND	1.7	3.333	146419	12/25/08	D2
1,1,1,2-Tetrachloroethane	ND	1.7	3.333	146419	12/25/08	D2
Ethylbenzene	17	1.7	3.333	146419	12/25/08	D2
m,p-Xylenes	19	1.7	3.333	146419	12/25/08	D2
o-Xylene	ND	1.7	3.333	146419	12/25/08	D2
Styrene	ND	1.7	3.333	146419	12/25/08	D2
Bromoform	ND	3.3	3.333	146419	12/25/08	D2
Isopropylbenzene	4.0	1.7	3.333	146419	12/25/08	D2
1,1,2,2-Tetrachloroethane	ND	1.7	3.333	146419	12/25/08	D2
1,2,3-Trichloropropane	ND	1.7	3.333	146419	12/25/08	D2
Propylbenzene	4.1	1.7	3.333	146419	12/25/08	D2
Bromobenzene	ND	1.7	3.333	146419	12/25/08	D2
1,3,5-Trimethylbenzene	5.3	1.7	3.333	146419	12/25/08	D2
2-Chlorotoluene	ND	1.7	3.333	146419	12/25/08	D2
4-Chlorotoluene	ND	1.7	3.333	146419	12/25/08	D2
tert-Butylbenzene	ND	1.7	3.333	146419	12/25/08	D2
1,2,4-Trimethylbenzene	31	1.7	3.333	146419	12/25/08	D2
sec-Butylbenzene	2.6	1.7	3.333	146419	12/25/08	D2
para-Isopropyl Toluene	1.9	1.7	3.333	146419	12/25/08	D2
1,3-Dichlorobenzene	ND	1.7	3.333	146419	12/25/08	D2
1,4-Dichlorobenzene	ND	1.7	3.333	146419	12/25/08	D2
n-Butylbenzene	2.6	1.7	3.333	146419	12/25/08	D2
1,2-Dichlorobenzene	ND	1.7	3.333	146419	12/25/08	D2
1,2-Dibromo-3-Chloropropane	ND	6.7	3.333	146419	12/25/08	D2
1,2,4-Trichlorobenzene	ND	1.7	3.333	146419	12/25/08	D2
Hexachlorobutadiene	ND	6.7	3.333	146419	12/25/08	D2 L1
Naphthalene	28	6.7	3.333	146419	12/25/08	D2
1,2,3-Trichlorobenzene	ND	1.7	3.333	146419	12/25/08	D2
Xylene (total)	19	1.7	3.333	146419	12/25/08	D2

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed	ADEQ Flags
Dibromofluoromethane	101	77-120	3.333	146419	12/25/08	
1,2-Dichloroethane-d4	97	70-127	3.333	146419	12/25/08	
Toluene-d8	103	83-125	3.333	146419	12/25/08	
Bromofluorobenzene	100	78-120	3.333	146419	12/25/08	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208750	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	PL-513-8D1	Batch#:	146419
Lab ID:	208750-007	Sampled:	12/16/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/24/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	V1
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	20	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208750	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	PL-513-8D1	Batch#:	146419
Lab ID:	208750-007	Sampled:	12/16/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/24/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	97	77-120	
1,2-Dichloroethane-d4	94	70-127	
Toluene-d8	100	83-125	
Bromofluorobenzene	98	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208750	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC477156	Batch#:	146419
Matrix:	Water	Analyzed:	12/24/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208750	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC477156	Batch#:	146419
Matrix:	Water	Analyzed:	12/24/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1 V1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	101	77-120	
1,2-Dichloroethane-d4	103	70-127	
Toluene-d8	104	83-125	
Bromofluorobenzene	101	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208750	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC477157	Batch#:	146419
Matrix:	Water	Analyzed:	12/24/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	V1
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208750	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC477157	Batch#:	146419
Matrix:	Water	Analyzed:	12/24/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	102	77-120	
1,2-Dichloroethane-d4	101	70-127	
Toluene-d8	101	83-125	
Bromofluorobenzene	103	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208750	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC477557	Batch#:	146514
Matrix:	Water	Analyzed:	12/30/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	L1 V1
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	L1
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208750	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC477557	Batch#:	146514
Matrix:	Water	Analyzed:	12/30/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	100	77-120	
1,2-Dichloroethane-d4	109	70-127	
Toluene-d8	98	83-125	
Bromofluorobenzene	107	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208750	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC477155	Batch#:	146419
Matrix:	Water	Analyzed:	12/24/08
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Freon 12	25.00	21.34	85	56-140	
Chloromethane	25.00	23.28	93	46-142	
Vinyl Chloride	25.00	27.69	111	49-136	
Bromomethane	25.00	28.35	113	42-154	
Chloroethane	25.00	27.61	110	51-133	
Trichlorofluoromethane	25.00	26.28	105	63-135	
Iodomethane	25.00	28.41 b	114	70-130	
Acetone	25.00	24.21	97	48-130	
1,1-Dichloroethene	25.00	27.58	110	68-133	
Methylene Chloride	25.00	26.63	107	71-120	
Carbon Disulfide	25.00	27.77	111	56-120	
MTBE	25.00	22.76	91	58-120	
trans-1,2-Dichloroethene	25.00	27.67	111	80-120	
Vinyl Acetate	25.00	19.77 b	79	63-124	V9
1,1-Dichloroethane	25.00	26.05	104	77-120	
2-Butanone	25.00	23.31	93	57-120	
cis-1,2-Dichloroethene	25.00	26.84	107	75-120	
2,2-Dichloropropane	25.00	29.40	118	72-128	
Chloroform	25.00	26.09	104	78-120	
Bromochloromethane	25.00	24.93	100	78-120	
1,1,1-Trichloroethane	25.00	28.56	114	78-120	
1,1-Dichloropropene	25.00	28.07	112	75-120	
Carbon Tetrachloride	25.00	30.02	120	80-120	
1,2-Dichloroethane	25.00	26.24	105	74-120	
Benzene	25.00	25.59	102	77-120	
Trichloroethene	25.00	26.96	108	78-122	
1,2-Dichloropropane	25.00	24.60	98	76-120	
Bromodichloromethane	25.00	26.97	108	78-120	
Dibromomethane	25.00	27.69	111	77-120	
4-Methyl-2-Pentanone	25.00	22.46	90	65-120	
cis-1,3-Dichloropropene	25.00	25.50	102	76-120	
Toluene	25.00	26.85	107	73-120	
trans-1,3-Dichloropropene	25.00	24.05	96	72-120	
1,1,2-Trichloroethane	25.00	26.51	106	76-120	
2-Hexanone	25.00	23.71	95	57-121	
1,3-Dichloropropane	25.00	25.99	104	75-120	
Tetrachloroethene	25.00	27.72	111	77-120	

*= Value outside of QC limits; see narrative
b= See narrative

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208750	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC477155	Batch#:	146419
Matrix:	Water	Analyzed:	12/24/08
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Dibromochloromethane	25.00	25.33	101	76-120	
1,2-Dibromoethane	25.00	26.46	106	77-120	
Chlorobenzene	25.00	26.06	104	78-120	
1,1,1,2-Tetrachloroethane	25.00	26.13	105	77-120	
Ethylbenzene	25.00	26.66	107	78-120	
m,p-Xylenes	50.00	55.23	110	77-120	
o-Xylene	25.00	25.77	103	77-120	
Styrene	25.00	27.22	109	77-120	
Bromoform	25.00	26.24	105	74-121	
Isopropylbenzene	25.00	24.59	98	71-120	
1,1,2,2-Tetrachloroethane	25.00	25.71	103	73-120	
1,2,3-Trichloropropane	25.00	25.00	100	72-120	
Propylbenzene	25.00	27.60	110	76-120	
Bromobenzene	25.00	25.79	103	75-120	
1,3,5-Trimethylbenzene	25.00	26.25	105	77-120	
2-Chlorotoluene	25.00	25.08	100	76-120	
4-Chlorotoluene	25.00	25.73	103	78-120	
tert-Butylbenzene	25.00	27.40	110	76-120	
1,2,4-Trimethylbenzene	25.00	28.24	113	77-120	
sec-Butylbenzene	25.00	29.33	117	80-120	
para-Isopropyl Toluene	25.00	28.96	116	76-120	
1,3-Dichlorobenzene	25.00	24.60	98	75-120	
1,4-Dichlorobenzene	25.00	24.42	98	77-120	
n-Butylbenzene	25.00	29.90	120	76-120	
1,2-Dichlorobenzene	25.00	24.85	99	76-120	
1,2-Dibromo-3-Chloropropane	25.00	22.50	90	65-120	
1,2,4-Trichlorobenzene	25.00	25.03	100	73-121	
Hexachlorobutadiene	25.00	31.02 b	124 *	73-123	L1 V3
Naphthalene	25.00	23.89	96	62-121	
1,2,3-Trichlorobenzene	25.00	25.65	103	66-123	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	101	77-120	
1,2-Dichloroethane-d4	103	70-127	
Toluene-d8	108	83-125	
Bromofluorobenzene	92	78-120	

*= Value outside of QC limits; see narrative
b= See narrative

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208750	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-65A-8D1	Batch#:	146419
MSS Lab ID:	208749-002	Sampled:	12/15/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/24/08
Diln Fac:	1.000		

Type: MS Lab ID: QC477174

Analyte	MSS Result	Spiked	Result	%REC	Limits	ADEQ Flags
Freon 12	<0.2000	25.00	27.31	109	56-140	
Chloromethane	<0.2000	25.00	26.81	107	46-142	
Vinyl Chloride	<0.1394	25.00	31.94	128	49-136	
Bromomethane	<0.2000	25.00	30.37	121	42-154	
Chloroethane	<0.2153	25.00	30.45	122	51-133	
Trichlorofluoromethane	0.2901	25.00	33.62	133	63-135	
Iodomethane	<2.000	25.00	19.88 b	80	60-140	
Acetone	<1.000	25.00	18.94	76	48-130	
1,1-Dichloroethene	0.1647	25.00	30.46	121	68-133	
Methylene Chloride	<1.000	25.00	27.69	111	71-120	
Carbon Disulfide	<0.1000	25.00	27.52	110	56-120	
MTBE	0.7717	25.00	23.81	92	58-120	
trans-1,2-Dichloroethene	<0.1082	25.00	28.43	114	80-120	
Vinyl Acetate	<2.000	25.00	14.98 b	60 *	63-124	M2 V9
1,1-Dichloroethane	2.773	25.00	29.76	108	77-120	
2-Butanone	<2.000	25.00	23.65	95	57-120	
cis-1,2-Dichloroethene	0.5888	25.00	28.61	112	75-120	
2,2-Dichloropropane	<0.1021	25.00	31.95	128	72-128	
Chloroform	0.8701	25.00	27.88	108	78-120	
Bromochloromethane	<0.1195	25.00	26.46	106	78-120	
1,1,1-Trichloroethane	<0.1358	25.00	30.51	122 *	78-120	M1
1,1-Dichloropropene	<0.1367	25.00	29.40	118	75-120	
Carbon Tetrachloride	<0.1295	25.00	30.13	121 *	80-120	M1
1,2-Dichloroethane	<0.1080	25.00	26.80	107	74-120	
Benzene	1.438	25.00	28.28	107	77-120	
Trichloroethene	2.308	25.00	28.34	104	78-122	
1,2-Dichloropropane	<0.1143	25.00	25.70	103	76-120	
Bromodichloromethane	<0.1539	25.00	28.19	113	78-120	
Dibromomethane	<0.1298	25.00	26.20	105	77-120	
4-Methyl-2-Pentanone	<2.000	25.00	23.37	93	65-120	
cis-1,3-Dichloropropene	<0.1420	25.00	25.41	102	76-120	
Toluene	<0.1116	25.00	27.52	110	73-120	
trans-1,3-Dichloropropene	<0.1000	25.00	23.80	95	72-120	
1,1,2-Trichloroethane	<0.1347	25.00	26.12	104	76-120	
2-Hexanone	<2.000	25.00	22.94	92	57-121	
1,3-Dichloropropane	<0.1000	25.00	25.93	104	75-120	
Tetrachloroethene	0.2977	25.00	29.66	117	77-120	
Dibromochloromethane	<0.1230	25.00	24.98	100	76-120	
1,2-Dibromoethane	<0.1000	25.00	26.34	105	77-120	
Chlorobenzene	<0.1000	25.00	24.82	99	78-120	
1,1,1,2-Tetrachloroethane	<0.1000	25.00	25.81	103	77-120	
Ethylbenzene	0.2165	25.00	28.19	112	78-120	
m,p-Xylenes	<0.1581	50.00	57.71	115	77-120	
o-Xylene	<0.1000	25.00	25.68	103	77-120	
Styrene	<0.1000	25.00	12.66	51 *	77-120	M2
Bromoform	<0.2000	25.00	26.15	105	74-121	
Isopropylbenzene	0.8442	25.00	27.99	109	71-120	
1,1,2,2-Tetrachloroethane	<0.1281	25.00	27.14	109	73-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208750	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-65A-8D1	Batch#:	146419
MSS Lab ID:	208749-002	Sampled:	12/15/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/24/08
Diln Fac:	1.000		

Analyte	MSS Result	Spiked	Result	%REC	Limits	ADEQ Flags
1,2,3-Trichloropropane	<0.1000	25.00	26.16	105	72-120	
Propylbenzene	0.9030	25.00	31.70	123 *	76-120	M1
Bromobenzene	<0.1006	25.00	27.74	111	75-120	
1,3,5-Trimethylbenzene	<0.1000	25.00	29.74	119	77-120	
2-Chlorotoluene	<0.1000	25.00	28.79	115	76-120	
4-Chlorotoluene	<0.1000	25.00	27.27	109	78-120	
tert-Butylbenzene	<0.1000	25.00	29.35	117	76-120	
1,2,4-Trimethylbenzene	0.1245	25.00	30.16	120	77-120	
sec-Butylbenzene	0.2453	25.00	31.60	125 *	80-120	M1
para-Isopropyl Toluene	<0.1256	25.00	29.89	120	76-120	
1,3-Dichlorobenzene	<0.1000	25.00	25.59	102	75-120	
1,4-Dichlorobenzene	<0.1000	25.00	26.82	107	77-120	
n-Butylbenzene	0.1717	25.00	31.49	125 *	76-120	M1
1,2-Dichlorobenzene	<0.1000	25.00	26.45	106	76-120	
1,2-Dibromo-3-Chloropropane	<0.5389	25.00	25.53	102	65-120	
1,2,4-Trichlorobenzene	<0.1114	25.00	26.26	105	73-121	
Hexachlorobutadiene	<0.4000	25.00	28.56 b	114	73-123	V3
Naphthalene	1.320	25.00	27.67	105	62-121	
1,2,3-Trichlorobenzene	<0.1000	25.00	26.82	107	66-123	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	102	77-120	
1,2-Dichloroethane-d4	102	70-127	
Toluene-d8	103	83-125	
Bromofluorobenzene	103	78-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208750	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-65A-8D1	Batch#:	146419
MSS Lab ID:	208749-002	Sampled:	12/15/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/24/08
Diln Fac:	1.000		

Type: MSD Lab ID: QC477175

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
Freon 12	25.00	25.33	101	56-140	8	24	
Chloromethane	25.00	25.26	101	46-142	6	24	
Vinyl Chloride	25.00	30.10	120	49-136	6	24	
Bromomethane	25.00	32.23	129	42-154	6	24	
Chloroethane	25.00	28.94	116	51-133	5	25	
Trichlorofluoromethane	25.00	31.92	127	63-135	5	20	
Iodomethane	25.00	19.96 b	80	60-140	0	30	
Acetone	25.00	18.00	72	48-130	5	41	
1,1-Dichloroethene	25.00	28.68	114	68-133	6	20	
Methylene Chloride	25.00	26.71	107	71-120	4	20	
Carbon Disulfide	25.00	25.46	102	56-120	8	20	
MTBE	25.00	22.96	89	58-120	4	21	
trans-1,2-Dichloroethene	25.00	27.65	111	80-120	3	24	
Vinyl Acetate	25.00	15.22 b	61 *	63-124	2	24	M2 V9
1,1-Dichloroethane	25.00	29.14	105	77-120	2	20	
2-Butanone	25.00	22.97	92	57-120	3	32	
cis-1,2-Dichloroethene	25.00	27.86	109	75-120	3	20	
2,2-Dichloropropane	25.00	30.18	121	72-128	6	24	
Chloroform	25.00	27.00	105	78-120	3	20	
Bromochloromethane	25.00	25.43	102	78-120	4	20	
1,1,1-Trichloroethane	25.00	29.01	116	78-120	5	20	
1,1-Dichloropropene	25.00	26.96	108	75-120	9	21	
Carbon Tetrachloride	25.00	28.80	115	80-120	5	21	
1,2-Dichloroethane	25.00	25.37	101	74-120	5	20	
Benzene	25.00	26.52	100	77-120	6	20	
Trichloroethene	25.00	27.38	100	78-122	3	20	
1,2-Dichloropropane	25.00	24.48	98	76-120	5	20	
Bromodichloromethane	25.00	28.55	114	78-120	1	20	
Dibromomethane	25.00	26.76	107	77-120	2	20	
4-Methyl-2-Pentanone	25.00	21.66	87	65-120	8	22	
cis-1,3-Dichloropropene	25.00	24.59	98	76-120	3	20	
Toluene	25.00	26.17	105	73-120	5	20	
trans-1,3-Dichloropropene	25.00	23.02	92	72-120	3	20	
1,1,2-Trichloroethane	25.00	26.04	104	76-120	0	20	
2-Hexanone	25.00	21.48	86	57-121	7	25	
1,3-Dichloropropane	25.00	24.67	99	75-120	5	20	
Tetrachloroethene	25.00	25.79	102	77-120	14	20	
Dibromochloromethane	25.00	24.28	97	76-120	3	20	
1,2-Dibromoethane	25.00	25.95	104	77-120	2	20	
Chlorobenzene	25.00	24.06	96	78-120	3	20	
1,1,1,2-Tetrachloroethane	25.00	24.72	99	77-120	4	20	
Ethylbenzene	25.00	25.52	101	78-120	10	26	
m,p-Xylenes	50.00	51.75	103	77-120	11	20	
o-Xylene	25.00	25.94	104	77-120	1	20	
Styrene	25.00	11.56	46 *	77-120	9	20	M2
Bromoform	25.00	24.17	97	74-121	8	21	
Isopropylbenzene	25.00	26.76	104	71-120	4	20	
1,1,2,2-Tetrachloroethane	25.00	26.49	106	73-120	2	20	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208750	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-65A-8D1	Batch#:	146419
MSS Lab ID:	208749-002	Sampled:	12/15/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/24/08
Diln Fac:	1.000		

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
1,2,3-Trichloropropane	25.00	25.22	101	72-120	4	20	
Propylbenzene	25.00	28.42	110	76-120	11	20	
Bromobenzene	25.00	25.46	102	75-120	9	20	
1,3,5-Trimethylbenzene	25.00	29.02	116	77-120	2	20	
2-Chlorotoluene	25.00	27.96	112	76-120	3	20	
4-Chlorotoluene	25.00	26.56	106	78-120	3	20	
tert-Butylbenzene	25.00	27.64	111	76-120	6	21	
1,2,4-Trimethylbenzene	25.00	28.56	114	77-120	5	20	
sec-Butylbenzene	25.00	29.28	116	80-120	8	21	
para-Isopropyl Toluene	25.00	26.07	104	76-120	14	20	
1,3-Dichlorobenzene	25.00	24.89	100	75-120	3	20	
1,4-Dichlorobenzene	25.00	24.94	100	77-120	7	23	
n-Butylbenzene	25.00	28.71	114	76-120	9	21	
1,2-Dichlorobenzene	25.00	25.80	103	76-120	2	20	
1,2-Dibromo-3-Chloropropane	25.00	24.95	100	65-120	2	22	
1,2,4-Trichlorobenzene	25.00	24.92	100	73-121	5	20	
Hexachlorobutadiene	25.00	27.10 b	108	73-123	5	25	V3
Naphthalene	25.00	26.96	103	62-121	3	32	
1,2,3-Trichlorobenzene	25.00	25.76	103	66-123	4	29	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	101	77-120	
1,2-Dichloroethane-d4	99	70-127	
Toluene-d8	99	83-125	
Bromofluorobenzene	100	78-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208750	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	146514
Units:	ug/L	Analyzed:	12/30/08
Diln Fac:	1.000		

Type: BS Lab ID: QC477555

Analyte	Spiked	Result		%REC		Limits	ADEQ Flags
Freon 12	20.00	19.41		97		56-140	
Chloromethane	20.00	20.79	b	104		46-142	V3
Vinyl Chloride	20.00	25.19		126		49-136	
Bromomethane	20.00	27.44	b	137		42-154	V3
Chloroethane	20.00	21.22		106		51-133	
Trichlorofluoromethane	20.00	22.83		114		63-135	
Iodomethane	20.00	26.08	b	130		70-130	V9
Acetone	20.00	20.39		102		48-130	
1,1-Dichloroethene	20.00	23.23		116		68-133	
Methylene Chloride	20.00	23.03	b	115		71-120	V3
Carbon Disulfide	20.00	21.97	b	110		56-120	V3
MTBE	20.00	18.45		92		58-120	
trans-1,2-Dichloroethene	20.00	21.48		107		80-120	
Vinyl Acetate	20.00	17.71	b	89		63-124	V3
1,1-Dichloroethane	20.00	21.79		109		77-120	
2-Butanone	20.00	16.77		84		57-120	
cis-1,2-Dichloroethene	20.00	21.49		107		75-120	
2,2-Dichloropropane	20.00	26.28	b	131	*	72-128	L1 V3
Chloroform	20.00	22.02		110		78-120	
Bromochloromethane	20.00	19.94		100		78-120	
1,1,1-Trichloroethane	20.00	23.27		116		78-120	
1,1-Dichloropropene	20.00	23.73		119		75-120	
Carbon Tetrachloride	20.00	24.16		121	*	80-120	L1
1,2-Dichloroethane	20.00	22.14		111		74-120	
Benzene	20.00	22.03		110		77-120	
Trichloroethene	20.00	21.62		108		78-122	
1,2-Dichloropropane	20.00	20.73		104		76-120	
Bromodichloromethane	20.00	22.68		113		78-120	
Dibromomethane	20.00	19.57		98		77-120	
4-Methyl-2-Pentanone	20.00	18.04		90		65-120	
cis-1,3-Dichloropropene	20.00	20.13		101		76-120	
Toluene	20.00	21.76		109		73-120	
trans-1,3-Dichloropropene	20.00	19.34		97		72-120	
1,1,2-Trichloroethane	20.00	20.67		103		76-120	
2-Hexanone	20.00	16.32		82		57-121	
1,3-Dichloropropane	20.00	20.16		101		75-120	
Tetrachloroethene	20.00	21.98		110		77-120	
Dibromochloromethane	20.00	19.93		100		76-120	
1,2-Dibromoethane	20.00	19.78		99		77-120	
Chlorobenzene	20.00	20.75		104		78-120	
1,1,1,2-Tetrachloroethane	20.00	20.06		100		77-120	
Ethylbenzene	20.00	22.09		110		78-120	
m,p-Xylenes	40.00	43.08		108		77-120	
o-Xylene	20.00	21.02		105		77-120	
Styrene	20.00	20.53		103		77-120	
Bromoform	20.00	19.47		97		74-121	
Isopropylbenzene	20.00	19.23		96		71-120	
1,1,2,2-Tetrachloroethane	20.00	17.46		87		73-120	
1,2,3-Trichloropropane	20.00	17.71		89		72-120	
Propylbenzene	20.00	21.68		108		76-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208750	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	146514
Units:	ug/L	Analyzed:	12/30/08
Diln Fac:	1.000		

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Bromobenzene	20.00	21.00	105	75-120	
1,3,5-Trimethylbenzene	20.00	22.26	111	77-120	
2-Chlorotoluene	20.00	21.73	109	76-120	
4-Chlorotoluene	20.00	21.48	107	78-120	
tert-Butylbenzene	20.00	21.57	108	76-120	
1,2,4-Trimethylbenzene	20.00	22.96	115	77-120	
sec-Butylbenzene	20.00	22.01 b	110	80-120	
para-Isopropyl Toluene	20.00	22.83	114	76-120	
1,3-Dichlorobenzene	20.00	20.28	101	75-120	
1,4-Dichlorobenzene	20.00	20.16	101	77-120	
n-Butylbenzene	20.00	23.22 b	116	76-120	
1,2-Dichlorobenzene	20.00	20.07	100	76-120	
1,2-Dibromo-3-Chloropropane	20.00	17.59	88	65-120	
1,2,4-Trichlorobenzene	20.00	22.06	110	73-121	
Hexachlorobutadiene	20.00	22.41	112	73-123	
Naphthalene	20.00	18.85	94	62-121	
1,2,3-Trichlorobenzene	20.00	20.42	102	66-123	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	101	77-120	
1,2-Dichloroethane-d4	114	70-127	
Toluene-d8	101	83-125	
Bromofluorobenzene	102	78-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208750	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	146514
Units:	ug/L	Analyzed:	12/30/08
Diln Fac:	1.000		

Type: BSD Lab ID: QC477556

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
Freon 12	20.00	19.03	95	56-140	2	24	
Chloromethane	20.00	20.62 b	103	46-142	1	24	V3
Vinyl Chloride	20.00	23.67	118	49-136	6	24	
Bromomethane	20.00	27.17 b	136	42-154	1	24	V3
Chloroethane	20.00	21.45	107	51-133	1	25	
Trichlorofluoromethane	20.00	22.41	112	63-135	2	20	
Iodomethane	20.00	25.63 b	128	70-130	2	20	V9
Acetone	20.00	16.13	81	48-130	23	41	
1,1-Dichloroethene	20.00	22.23	111	68-133	4	20	
Methylene Chloride	20.00	23.41 b	117	71-120	2	20	V3
Carbon Disulfide	20.00	21.73 b	109	56-120	1	20	V3
MTBE	20.00	18.00	90	58-120	2	21	
trans-1,2-Dichloroethene	20.00	21.71	109	80-120	1	24	
Vinyl Acetate	20.00	17.57 b	88	63-124	1	24	V3
1,1-Dichloroethane	20.00	21.80	109	77-120	0	20	
2-Butanone	20.00	16.71	84	57-120	0	32	
cis-1,2-Dichloroethene	20.00	21.78	109	75-120	1	20	
2,2-Dichloropropane	20.00	26.02 b	130 *	72-128	1	24	L1 V3
Chloroform	20.00	22.20	111	78-120	1	20	
Bromochloromethane	20.00	20.71	104	78-120	4	20	
1,1,1-Trichloroethane	20.00	23.21	116	78-120	0	20	
1,1-Dichloropropene	20.00	22.26	111	75-120	6	21	
Carbon Tetrachloride	20.00	23.85	119	80-120	1	21	
1,2-Dichloroethane	20.00	21.87	109	74-120	1	20	
Benzene	20.00	22.05	110	77-120	0	20	
Trichloroethene	20.00	21.19	106	78-122	2	20	
1,2-Dichloropropane	20.00	20.56	103	76-120	1	20	
Bromodichloromethane	20.00	21.28	106	78-120	6	20	
Dibromomethane	20.00	19.64	98	77-120	0	20	
4-Methyl-2-Pentanone	20.00	17.58	88	65-120	3	22	
cis-1,3-Dichloropropene	20.00	20.60	103	76-120	2	20	
Toluene	20.00	22.01	110	73-120	1	20	
trans-1,3-Dichloropropene	20.00	18.92	95	72-120	2	20	
1,1,2-Trichloroethane	20.00	20.20	101	76-120	2	20	
2-Hexanone	20.00	15.50	77	57-121	5	25	
1,3-Dichloropropane	20.00	20.36	102	75-120	1	20	
Tetrachloroethene	20.00	21.93	110	77-120	0	20	
Dibromochloromethane	20.00	19.83	99	76-120	1	20	
1,2-Dibromoethane	20.00	19.55	98	77-120	1	20	
Chlorobenzene	20.00	20.80	104	78-120	0	20	
1,1,1,2-Tetrachloroethane	20.00	19.60	98	77-120	2	20	
Ethylbenzene	20.00	22.42	112	78-120	1	26	
m,p-Xylenes	40.00	42.98	107	77-120	0	20	
o-Xylene	20.00	21.10	105	77-120	0	20	
Styrene	20.00	19.84	99	77-120	3	20	
Bromoform	20.00	18.61	93	74-121	5	21	
Isopropylbenzene	20.00	19.30	97	71-120	0	20	
1,1,2,2-Tetrachloroethane	20.00	18.17	91	73-120	4	20	
1,2,3-Trichloropropane	20.00	17.21	86	72-120	3	20	
Propylbenzene	20.00	21.37	107	76-120	1	20	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208750	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	146514
Units:	ug/L	Analyzed:	12/30/08
Diln Fac:	1.000		

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
Bromobenzene	20.00	20.19	101	75-120	4	20	
1,3,5-Trimethylbenzene	20.00	21.97	110	77-120	1	20	
2-Chlorotoluene	20.00	21.56	108	76-120	1	20	
4-Chlorotoluene	20.00	21.15	106	78-120	2	20	
tert-Butylbenzene	20.00	21.99	110	76-120	2	21	
1,2,4-Trimethylbenzene	20.00	21.46	107	77-120	7	20	
sec-Butylbenzene	20.00	22.41 b	112	80-120	2	21	
para-Isopropyl Toluene	20.00	21.45	107	76-120	6	20	
1,3-Dichlorobenzene	20.00	20.55	103	75-120	1	20	
1,4-Dichlorobenzene	20.00	19.78	99	77-120	2	23	
n-Butylbenzene	20.00	22.37 b	112	76-120	4	21	
1,2-Dichlorobenzene	20.00	20.26	101	76-120	1	20	
1,2-Dibromo-3-Chloropropane	20.00	16.49	82	65-120	6	22	
1,2,4-Trichlorobenzene	20.00	21.37	107	73-121	3	20	
Hexachlorobutadiene	20.00	22.65	113	73-123	1	25	
Naphthalene	20.00	19.73	99	62-121	5	32	
1,2,3-Trichlorobenzene	20.00	20.59	103	66-123	1	29	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	100	77-120	
1,2-Dichloroethane-d4	110	70-127	
Toluene-d8	105	83-125	
Bromofluorobenzene	103	78-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

CURTIS & TOMPKINS BFB TUNE FOR 208750 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 458468482014 File : fkk14 Time : 20-NOV-2008 16:09

Standards: S9454

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	13627	15.43	
75	30% - 60% of mass 95	34213	38.75	
95		88293		
96	5% - 9% of mass 95	5645	6.39	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	77104	87.33	
175	5% - 9% of mass 174	5993	7.77	
176	> 95% and < 101% of mass 174	76701	99.48	
177	5% - 9% of mass 176	5145	6.71	

Analyst: BO Date: 11/21/08 Reviewer: ACM Date: 11/21/08

CURTIS & TOMPKINS BFB TUNE FOR 208750 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 458517413002 File : flo02 Time : 24-DEC-2008 08:04

Standards: S10902

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	49565	15.75	
75	30% - 60% of mass 95	117616	37.36	
95		314794		
96	5% - 9% of mass 95	20619	6.55	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	273578	86.91	
175	5% - 9% of mass 174	20386	7.45	
176	> 95% and < 101% of mass 174	265600	97.08	
177	5% - 9% of mass 176	17785	6.70	

Analyst: BO Date: 12/24/08 Reviewer: ACM Date: 12/29/08

CURTIS & TOMPKINS BFB TUNE FOR 208750 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 458517413013 File : flo13 Time : 24-DEC-2008 14:18

Standards: S10902

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	57176	16.10	
75	30% - 60% of mass 95	131701	37.10	
95		355029		
96	5% - 9% of mass 95	23719	6.68	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	314090	88.47	
175	5% - 9% of mass 174	23896	7.61	
176	> 95% and < 101% of mass 174	299285	95.29	
177	5% - 9% of mass 176	18964	6.34	

Analyst: BO Date: 12/29/08 Reviewer: ACM Date: 12/29/08

CURTIS & TOMPKINS BFB TUNE FOR 208750 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : BFB IDF : 1.0
Seqnum : 488459048002 File : ikd02 Time : 13-NOV-2008 22:57

Standards: S9454

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	20742	18.11	
75	30% - 60% of mass 95	47576	41.54	
95		114520		
96	5% - 9% of mass 95	7803	6.81	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	82538	72.07	
175	5% - 9% of mass 174	6666	8.08	
176	> 95% and < 101% of mass 174	79117	95.86	
177	5% - 9% of mass 176	5587	7.06	

Analyst: MJM Date: 11/14/08 Reviewer: ACM Date: 11/14/08

CURTIS & TOMPKINS BFB TUNE FOR 208750 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : BFB IDF : 1.0
Seqnum : 488459956002 File : ike02 Time : 14-NOV-2008 11:50

Standards: S9454

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	46399	19.47	
75	30% - 60% of mass 95	102181	42.88	
95		238306		
96	5% - 9% of mass 95	16219	6.81	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	159722	67.02	
175	5% - 9% of mass 174	11567	7.24	
176	> 95% and < 101% of mass 174	155277	97.22	
177	5% - 9% of mass 176	10404	6.70	

Analyst: MJM Date: 11/14/08 Reviewer: ACM Date: 11/14/08

CURTIS & TOMPKINS BFB TUNE FOR 208750 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : BFB IDF : 1.0
Seqnum : 488526075003 File : ilu03 Time : 30-DEC-2008 09:50

Standards: S10902

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	25720	18.44	
75	30% - 60% of mass 95	58952	42.27	
95		139456		
96	5% - 9% of mass 95	9846	7.06	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	97104	69.63	
175	5% - 9% of mass 174	6785	6.99	
176	> 95% and < 101% of mass 174	93752	96.55	
177	5% - 9% of mass 176	6077	6.48	

Analyst: MJM Date: 12/31/08 Reviewer: LW Date: 12/31/08

CURTIS & TOMPKINS BFB TUNE FOR 208750 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : BFB IDF : 1.0
Seqnum : 488526075007 File : ilu07 Time : 30-DEC-2008 12:09

Standards: S10902

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	20784	17.27	
75	30% - 60% of mass 95	49928	41.50	
95		120320		
96	5% - 9% of mass 95	7969	6.62	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	90144	74.92	
175	5% - 9% of mass 174	7002	7.77	
176	> 95% and < 101% of mass 174	87752	97.35	
177	5% - 9% of mass 176	5590	6.37	

Analyst: MJM Date: 12/31/08 Reviewer: LW Date: 12/31/08

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 208750 MSVOA Water: EPA 8260B

Inst : MSVOA06 Name : 826GOX6W
Calnum : 458468482002 Date : 20-NOV-2008 18:54 Type : WATER
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	fkk19	458468482019	0.25PPB	20-NOV-2008 18:54	S10756 (2000000X), S10619 (2000000X), S10653 (1000000X), S9073 (2000000X), S10447 (1000X)
L2	fkk20	458468482020	0.5PPB	20-NOV-2008 19:28	S10756 (1000000X), S10619 (1000000X), S10653 (500000X), S9073 (1000000X), S10447 (1000X)
L3	fkk21	458468482021	2PPB	20-NOV-2008 20:02	S10756 (250000X), S10619 (250000X), S10653 (250000X), S9073 (500000X), S10447 (1000X)
L4	fkk22	458468482022	5PPB	20-NOV-2008 20:36	S10756 (100000X), S10619 (100000X), S10653 (100000X), S9073 (200000X), S10447 (1000X)
L5	fkk23	458468482023	10PPB	20-NOV-2008 21:11	S10756 (50000X), S10619 (50000X), S10653 (50000X), S9073 (100000X), S10447 (1000X)
L6	fkk24	458468482024	20PPB	20-NOV-2008 21:45	S10756 (25000X), S10619 (25000X), S10653 (25000X), S9073 (50000X), S10447 (1000X)
L7	fkk25	458468482025	50PPB	20-NOV-2008 22:19	S10756 (10000X), S10619 (10000X), S10653 (10000X), S9073 (20000X), S10447 (1000X)
L8	fkk26	458468482026	75PPB	20-NOV-2008 22:53	S10756 (6667X), S10619 (6667X), S10653 (6667X), S9073 (13330X), S10447 (1000X)
L9	fkk27	458468482027	100PPB	20-NOV-2008 23:28	S10756 (5000X), S10619 (5000X), S10653 (5000X), S9073 (10000X), S10447 (1000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12	0.6477m	0.5656m	0.8454m	0.5532	0.5981	0.5029	0.6945	0.8107		QUAD	0.07610	1.80204	-0.00946	0.6523	0.998	15	0.05	0.99	
Chloromethane		0.9120	1.0398m	0.8574m	0.9261	0.7973	0.8813	0.8769	0.9183	AVRG		1.10970		0.9011	8	15	0.10	0.99	
Vinyl Chloride	0.6186	0.5959m	0.7893m	0.5598m	0.6264	0.5569	0.6827	0.7578	0.7322	AVRG		1.52036		0.6577	13	15	0.05	0.99	
Bromomethane		0.1930m	0.2567m	0.2550m	0.3034	0.2679	0.3026	0.3182	0.3165	AVRG		3.61455		0.2767	15	15	0.05	0.99	
Chloroethane		0.2923	0.4104m	0.3212m	0.3726	0.3217	0.3698	0.3835	0.3545	AVRG		2.83075		0.3533	11	15	0.05	0.99	
Trichlorofluoromethane	0.8273	0.6040	0.8892	0.5834	0.6697	0.5610	0.7684	0.8422		QUAD	0.22995	1.57748	-0.00635	0.7181	0.998	15	0.05	0.99	
Acetone			0.3710	0.3072	0.3329	0.3066	0.3294	0.3094	0.3034	AVRG		3.09739		0.3229	8	15	0.05	0.99	
1,1-Dichloroethene		0.5390	0.5372	0.4875	0.5458	0.5394	0.5632	0.5255	0.5359	AVRG		1.87202		0.5342	4	15	0.05	0.99	
Iodomethane	0.2512m	0.2547	0.1985	0.2369	0.4263	0.5013	0.6536			QUAD	0.98411	2.12895	-0.01928	0.3604	0.998	15	0.05	0.99	
Methylene Chloride			0.7555	0.7020	0.7777	0.7282	0.7274	0.7409	0.6984	AVRG		1.36448		0.7329	4	15	0.05	0.99	
Carbon Disulfide		1.9732	2.0441	1.9382	2.1352	2.1460	2.1501	2.1023	2.0997	AVRG		0.48225		2.0736	4	15	0.05	0.99	
MTBE		1.8448	1.9060	1.8521	2.0989	1.9539	1.9188	1.8955	1.8013	AVRG		0.52386		1.9089	5	15	0.05	0.99	
trans-1,2-Dichloroethene		0.5724	0.6436	0.5699	0.6624	0.6271	0.6206	0.6152	0.6125	AVRG		1.62478		0.6155	5	15	0.05	0.99	
Vinyl Acetate			1.4646	1.3551	1.4651	1.4441	1.3282	1.1582	1.2586	AVRG		0.73887		1.3534	9	15	0.05	0.99	
1,1-Dichloroethane		1.1776	1.3258	1.1169	1.2878	1.2281	1.2081	1.1790	1.1551	AVRG		0.82659		1.2098	6	15	0.10	0.99	
2-Butanone			0.4453	0.3964	0.4502	0.4328	0.4482	0.3979	0.4069	AVRG		2.35082		0.4254	6	15	0.05	0.99	
2,2-Dichloropropane		0.6786	0.6640	0.6592	0.7122	0.6598	0.7015	0.6263	0.6552	AVRG		1.49344		0.6696	4	15	0.05	0.99	
cis-1,2-Dichloroethene		0.7223	0.7479	0.6878	0.7508	0.7135	0.7124	0.6781	0.6675	AVRG		1.40840		0.7100	4	15	0.05	0.99	
Chloroform		1.1011	1.1817	0.9979	1.1557	1.1104	1.1029	1.0849	1.0483	AVRG		0.91087		1.0978	5	15	0.05	0.99	
Bromochloromethane		0.4453	0.4569	0.4219	0.4393	0.4106	0.4205	0.4021	0.3778	AVRG		2.37086		0.4218	6	15	0.05	0.99	
1,1,1-Trichloroethane		0.6786	0.6238	0.6419	0.6958	0.6787	0.7016	0.6478	0.6849	AVRG		1.49443		0.6692	4	15	0.05	0.99	
1,1-Dichloropropene		0.4729	0.4341	0.4096	0.4634	0.4519	0.4448	0.4139	0.4414	AVRG		2.26500		0.4415	5	15	0.05	0.99	
Carbon Tetrachloride		0.3579	0.3097	0.3470	0.3746	0.3690	0.4029	0.3392	0.3707	AVRG		2.78631		0.3589	8	15	0.05	0.99	
1,2-Dichloroethane		0.4235	0.4701	0.4850	0.5038	0.4928	0.4932	0.4776	0.4512	AVRG		2.10680		0.4747	6	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		1.4164	1.5484	1.4447	1.5657	1.5800	1.5338	1.4807	1.4213	AVRG		0.66716		1.4989	4	15	0.05	0.99	
Trichloroethene		0.3697	0.3608	0.3472	0.3727	0.3785	0.3762	0.3664	0.3544	AVRG		2.73401		0.3658	3	15	0.05	0.99	
1,2-Dichloropropane		0.4435	0.4550	0.4382	0.4770	0.4693	0.4468	0.4365	0.3983	AVRG		2.24433		0.4456	5	15	0.05	0.99	
Bromodichloromethane		0.4415	0.4802	0.4840	0.5273	0.5310	0.5354	0.5045	0.4853	AVRG		2.00542		0.4986	6	15	0.05	0.99	
Dibromomethane		0.2300	0.2969	0.2910	0.3043	0.3130	0.3027	0.2996	0.2881	AVRG		3.44004		0.2907	9	15	0.05	0.99	
4-Methyl-2-Pentanone			0.4959	0.4811	0.5008	0.5289	0.5033	0.4753	0.4843	AVRG		2.01743		0.4957	4	15	0.05	0.99	
cis-1,3-Dichloropropene		0.6246	0.6565	0.6505	0.6813	0.6704	0.6664	0.6453	0.6113	AVRG		1.53661		0.6508	4	15	0.05	0.99	
Toluene		0.8146	0.8853	0.8122	0.9430	0.8216	0.8864	0.8331	0.7821	AVRG		1.18022		0.8473	6	15	0.05	0.99	
trans-1,3-Dichloropropene		0.5134	0.5798	0.5280	0.6186	0.5837	0.6048	0.5817	0.5529	AVRG		1.75321		0.5704	6	15	0.05	0.99	
1,1,2-Trichloroethane		0.1829	0.1999	0.2064	0.2296	0.2242	0.2147	0.2110	0.2022	AVRG		4.78775		0.2089	7	15	0.05	0.99	
2-Hexanone			0.4174	0.3862	0.4263	0.4429	0.4268	0.4108	0.3985	AVRG		2.40632		0.4156	5	15	0.05	0.99	
1,3-Dichloropropane		0.7309	0.7680	0.7370	0.8303	0.7496	0.7260	0.7478	0.7151	AVRG		1.33229		0.7506	5	15	0.05	0.99	
Tetrachloroethene		0.4671	0.3880	0.3940	0.4274	0.4027	0.4365	0.3896	0.4448	AVRG		2.38796		0.4188	7	15	0.05	0.99	
Dibromochloromethane		0.5128	0.5363	0.5575	0.6187	0.5950	0.5587	0.5842	0.5715	AVRG		1.76417		0.5668	6	15	0.05	0.99	
1,2-Dibromoethane		0.3918	0.4380	0.4352	0.4647	0.4605	0.4395	0.4345	0.4239	AVRG		2.29346		0.4360	5	15	0.05	0.99	
Chlorobenzene		1.2018	1.3036	1.2462	1.3654	1.2216	1.2035	1.1940	1.1691	AVRG		0.80766		1.2382	5	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.4243	0.4402	0.4451	0.4881	0.4392	0.4457	0.4558	0.4371	AVRG		2.23746		0.4469	4	15	0.05	0.99	
Ethylbenzene		1.8818	1.8141	1.7404	1.8654	1.7387	1.7386	1.6694	1.7063	AVRG		0.56518		1.7693	4	15	0.05	0.99	
m,p-Xylenes	0.6758	0.7117	0.7093	0.6555	0.7591	0.6902	0.6493	0.6463	0.6219	AVRG		1.47082		0.6799	6	15	0.05	0.99	
o-Xylene		0.7474	0.7130	0.7380	0.8050	0.7101	0.7081	0.6705	0.6743	AVRG		1.38732		0.7208	6	15	0.05	0.99	
Styrene		1.1668	1.2083	1.2783	1.3591	1.2751	1.2064	1.2359	1.1947	AVRG		0.80609		1.2406	5	15	0.05	0.99	
Bromoform		0.3384	0.4010	0.3872	0.4298	0.4176	0.4104	0.4216	0.4280	AVRG		2.47363		0.4043	7	15	0.10	0.99	
Isopropylbenzene		3.0309	3.1358	2.8764	3.1730	3.2802	3.1139	2.6768	3.0122	AVRG		0.32923		3.0374	6	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		1.2187	1.3367	1.2470	1.3233	1.3741	1.2816	1.1398	1.1738	AVRG		0.79248		1.2619	7	15	0.30	0.99	
1,2,3-Trichloropropane		0.9947	1.0412	0.9590	1.0409	1.0688	0.9486	0.8885	0.9096	AVRG		1.01894		0.9814	7	15	0.05	0.99	
Propylbenzene		3.6590	3.6765	3.6088	3.8859	3.6238	3.5999	2.9929	3.2114	AVRG		0.28310		3.5323	8	15	0.05	0.99	
Bromobenzene		1.0963	1.1176	1.1603	1.1995	1.1560	1.0828	1.0219	0.9894	AVRG		0.90664		1.1030	6	15	0.05	0.99	
1,3,5-Trimethylbenzene		2.7137	2.5669	2.3754	2.5792	2.5702	2.4624	2.0936	2.1615	AVRG		0.40977		2.4404	9	15	0.05	0.99	
2-Chlorotoluene		2.6839	2.7820	2.5064	2.7425	2.6461	2.4760	2.2110	2.1634	AVRG		0.39582		2.5264	9	15	0.05	0.99	
4-Chlorotoluene		2.5391	2.6318	2.3726	2.6948	2.5134	2.4123	2.2333	2.2632	AVRG		0.40691		2.4576	7	15	0.05	0.99	
tert-Butylbenzene		2.0682	2.1355	2.0728	2.3030	2.1681	2.1491	1.7917	2.0084	AVRG		0.47913		2.0871	7	15	0.05	0.99	
1,2,4-Trimethylbenzene		2.4841	2.6946	2.4595	2.8300	2.7523	2.4361	2.3412	2.3804	AVRG		0.39258		2.5473	7	15	0.05	0.99	
sec-Butylbenzene		2.6941	2.9373	2.8182	3.2195	3.0012	2.9793	2.5388	2.8537	AVRG		0.34719		2.8803	7	15	0.05	0.99	
para-Isopropyl Toluene		2.3222	2.4065	2.4900	2.8276	2.5056	2.4662	2.2356	2.4075	AVRG		0.40689		2.4577	7	15	0.05	0.99	
1,3-Dichlorobenzene		1.8624	1.9265	1.8008	2.0384	2.0149	1.7742	1.7265	1.7346	AVRG		0.53770		1.8598	7	15	0.05	0.99	
1,4-Dichlorobenzene		1.9640	1.9539	1.7998	2.0434	2.0272	1.8866	1.8327	1.7681	AVRG		0.52371		1.9095	5	15	0.05	0.99	
n-Butylbenzene		2.0336	2.0045	1.9628	2.3176	2.0874	2.1481	1.9081	2.0601	AVRG		0.48420		2.0653	6	15	0.05	0.99	
1,2-Dichlorobenzene		1.6521	1.8060	1.8047	1.9114	1.8783	1.7213	1.7061	1.6942	AVRG		0.56441		1.7718	5	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.2027	0.2132	0.1812	0.1817	0.2018	0.1917	0.1875	0.1815	AVRG		5.19028		0.1927	6	15	0.05	0.99	
1,2,4-Trichlorobenzene		0.9808	1.0314	0.9145	1.0720	0.9912	0.9648	0.9062	0.9141	AVRG		1.02892		0.9719	6	15	0.05	0.99	
Hexachlorobutadiene		0.3912	0.3325	0.3555	0.3981	0.3490	0.3611	0.2936	0.3587	AVRG		2.81722		0.3550	9	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene		2.4957	2.6121	2.5931	2.9375	3.0324	2.8585	2.8640	2.8128	AVRG		0.36026		2.7758	7	15	0.05	0.99	
1,2,3-Trichlorobenzene		0.9184	0.8977	0.8231	0.9863	1.0044	0.8833	0.8869	0.9203	AVRG		1.09283		0.9151	6	15	0.05	0.99	
Dibromofluoromethane	0.6058	0.6022	0.6119	0.6105	0.5974	0.6059	0.5972	0.5918	0.5932	AVRG		1.66175		0.6018	1	15	0.05	0.99	
1,2-Dichloroethane-d4	0.3077	0.3168	0.3283	0.3237	0.3184	0.3303	0.3215	0.3005	0.3060	AVRG		3.15437		0.3170	3	15	0.05	0.99	
Toluene-d8	1.0044	0.9486	1.0031	1.0163	0.9886	1.0385	0.9811	1.0217	1.0037	AVRG		0.99934		1.0007	3	15	0.05	0.99	
Bromofluorobenzene	1.0593	0.9793	1.0003	1.0272	1.0410	1.0415	0.9604	0.8944	0.9258	AVRG		1.00794		0.9921	6	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Freon 12	0.500	32	1.000	9	2.000	55	5.000	0	10.00	5	20.00	-14	50.00	2	75.00	0		
Chloromethane			1.000	1	2.000	15	5.000	-5	10.00	3	20.00	-12	50.00	-2	75.00	-3	100.0	2
Vinyl Chloride	0.500	-6	1.000	-9	2.000	20	5.000	-15	10.00	-5	20.00	-15	50.00	4	75.00	15	100.0	11
Bromomethane			1.000	-30	2.000	-7	5.000	-8	10.00	10	20.00	-3	50.00	9	75.00	15	100.0	14
Chloroethane			1.000	-17	2.000	16	5.000	-9	10.00	5	20.00	-9	50.00	5	75.00	9	100.0	0
Trichlorofluoromethane	0.500	76	1.000	18	2.000	51	5.000	-4	10.00	5	20.00	-14	50.00	3	75.00	-1		
Acetone					2.000	15	5.000	-5	10.00	3	20.00	-5	50.00	2	75.00	-4	100.0	-6
1,1-Dichloroethene			0.500	1	2.000	1	5.000	-9	10.00	2	20.00	1	50.00	5	75.00	-2	100.0	0
Iodomethane	0.250	347	0.500	151	2.000	-9	5.000	-30	10.00	-3	20.00	2	50.00	0				
Methylene Chloride					2.000	3	5.000	-4	10.00	6	20.00	-1	50.00	-1	75.00	1	100.0	-5
Carbon Disulfide			0.500	-5	2.000	-1	5.000	-7	10.00	3	20.00	3	50.00	4	75.00	1	100.0	1
MTBE			0.500	-3	2.000	0	5.000	-3	10.00	10	20.00	2	50.00	1	75.00	-1	100.0	-6
trans-1,2-Dichloroethene			0.500	-7	2.000	5	5.000	-7	10.00	8	20.00	2	50.00	1	75.00	0	100.0	0
Vinyl Acetate					2.000	8	5.000	0	10.00	8	20.00	7	50.00	-2	75.00	-14	100.0	-7
1,1-Dichloroethane			0.500	-3	2.000	10	5.000	-8	10.00	6	20.00	2	50.00	0	75.00	-3	100.0	-5
2-Butanone					2.000	5	5.000	-7	10.00	6	20.00	2	50.00	5	75.00	-6	100.0	-4
2,2-Dichloropropane			0.500	1	2.000	-1	5.000	-2	10.00	6	20.00	-1	50.00	5	75.00	-6	100.0	-2
cis-1,2-Dichloroethene			0.500	2	2.000	5	5.000	-3	10.00	6	20.00	0	50.00	0	75.00	-5	100.0	-6
Chloroform			0.500	0	2.000	8	5.000	-9	10.00	5	20.00	1	50.00	0	75.00	-1	100.0	-5
Bromochloromethane			0.500	6	2.000	8	5.000	0	10.00	4	20.00	-3	50.00	0	75.00	-5	100.0	-10
1,1,1-Trichloroethane			0.500	1	2.000	-7	5.000	-4	10.00	4	20.00	1	50.00	5	75.00	-3	100.0	2
1,1-Dichloropropene			0.500	7	2.000	-2	5.000	-7	10.00	5	20.00	2	50.00	1	75.00	-6	100.0	0
Carbon Tetrachloride			0.500	0	2.000	-14	5.000	-3	10.00	4	20.00	3	50.00	12	75.00	-5	100.0	3
1,2-Dichloroethane			0.500	-11	2.000	-1	5.000	2	10.00	6	20.00	4	50.00	4	75.00	1	100.0	-5
Benzene			0.500	-6	2.000	3	5.000	-4	10.00	4	20.00	5	50.00	2	75.00	-1	100.0	-5
Trichloroethene			0.500	1	2.000	-1	5.000	-5	10.00	2	20.00	3	50.00	3	75.00	0	100.0	-3
1,2-Dichloropropane			0.500	0	2.000	2	5.000	-2	10.00	7	20.00	5	50.00	0	75.00	-2	100.0	-11
Bromodichloromethane			0.500	-11	2.000	-4	5.000	-3	10.00	6	20.00	6	50.00	7	75.00	1	100.0	-3
Dibromomethane			0.500	-21	2.000	2	5.000	0	10.00	5	20.00	8	50.00	4	75.00	3	100.0	-1
4-Methyl-2-Pentanone					2.000	0	5.000	-3	10.00	1	20.00	7	50.00	2	75.00	-4	100.0	-2
cis-1,3-Dichloropropene			0.500	-4	2.000	1	5.000	0	10.00	5	20.00	3	50.00	2	75.00	-1	100.0	-6
Toluene			0.500	-4	2.000	4	5.000	-4	10.00	11	20.00	-3	50.00	5	75.00	-2	100.0	-8
trans-1,3-Dichloropropene			0.500	-10	2.000	2	5.000	-7	10.00	8	20.00	2	50.00	6	75.00	2	100.0	-3
1,1,2-Trichloroethane			0.500	-12	2.000	-4	5.000	-1	10.00	10	20.00	7	50.00	3	75.00	1	100.0	-3
2-Hexanone					2.000	0	5.000	-7	10.00	3	20.00	7	50.00	3	75.00	-1	100.0	-4
1,3-Dichloropropane			0.500	-3	2.000	2	5.000	-2	10.00	11	20.00	0	50.00	-3	75.00	0	100.0	-5
Tetrachloroethene			0.500	12	2.000	-7	5.000	-6	10.00	2	20.00	-4	50.00	4	75.00	-7	100.0	6
Dibromochloromethane			0.500	-10	2.000	-5	5.000	-2	10.00	9	20.00	5	50.00	-1	75.00	3	100.0	1
1,2-Dibromoethane			0.500	-10	2.000	0	5.000	0	10.00	7	20.00	6	50.00	1	75.00	0	100.0	-3
Chlorobenzene			0.500	-3	2.000	5	5.000	1	10.00	10	20.00	-1	50.00	-3	75.00	-4	100.0	-6
1,1,1,2-Tetrachloroethane			0.500	-5	2.000	-2	5.000	0	10.00	9	20.00	-2	50.00	0	75.00	2	100.0	-2
Ethylbenzene			0.500	6	2.000	3	5.000	-2	10.00	5	20.00	-2	50.00	-2	75.00	-6	100.0	-4

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
m,p-Xylenes	0.500	-1	1.000	5	4.000	4	10.00	-4	20.00	12	40.00	2	100.0	-4	150.0	-5	200.0	-9
o-Xylene			0.500	4	2.000	-1	5.000	2	10.00	12	20.00	-1	50.00	-2	75.00	-7	100.0	-6
Styrene			0.500	-6	2.000	-3	5.000	3	10.00	10	20.00	3	50.00	-3	75.00	0	100.0	-4
Bromoform			0.500	-16	2.000	-1	5.000	-4	10.00	6	20.00	3	50.00	2	75.00	4	100.0	6
Isopropylbenzene			0.500	0	2.000	3	5.000	-5	10.00	4	20.00	8	50.00	3	75.00	-12	100.0	-1
1,1,2,2-Tetrachloroethane			0.500	-3	2.000	6	5.000	-1	10.00	5	20.00	9	50.00	2	75.00	-10	100.0	-7
1,2,3-Trichloropropane			0.500	1	2.000	6	5.000	-2	10.00	6	20.00	9	50.00	-3	75.00	-9	100.0	-7
Propylbenzene			0.500	4	2.000	4	5.000	2	10.00	10	20.00	3	50.00	2	75.00	-15	100.0	-9
Bromobenzene			0.500	-1	2.000	1	5.000	5	10.00	9	20.00	5	50.00	-2	75.00	-7	100.0	-10
1,3,5-Trimethylbenzene			0.500	11	2.000	5	5.000	-3	10.00	6	20.00	5	50.00	1	75.00	-14	100.0	-11
2-Chlorotoluene			0.500	6	2.000	10	5.000	-1	10.00	9	20.00	5	50.00	-2	75.00	-12	100.0	-14
4-Chlorotoluene			0.500	3	2.000	7	5.000	-3	10.00	10	20.00	2	50.00	-2	75.00	-9	100.0	-8
tert-Butylbenzene			0.500	-1	2.000	2	5.000	-1	10.00	10	20.00	4	50.00	3	75.00	-14	100.0	-4
1,2,4-Trimethylbenzene			0.500	-2	2.000	6	5.000	-3	10.00	11	20.00	8	50.00	-4	75.00	-8	100.0	-7
sec-Butylbenzene			0.500	-6	2.000	2	5.000	-2	10.00	12	20.00	4	50.00	3	75.00	-12	100.0	-1
para-Isopropyl Toluene			0.500	-6	2.000	-2	5.000	1	10.00	15	20.00	2	50.00	0	75.00	-9	100.0	-2
1,3-Dichlorobenzene			0.500	0	2.000	4	5.000	-3	10.00	10	20.00	8	50.00	-5	75.00	-7	100.0	-7
1,4-Dichlorobenzene			0.500	3	2.000	2	5.000	-6	10.00	7	20.00	6	50.00	-1	75.00	-4	100.0	-7
n-Butylbenzene			0.500	-2	2.000	-3	5.000	-5	10.00	12	20.00	1	50.00	4	75.00	-8	100.0	0
1,2-Dichlorobenzene			0.500	-7	2.000	2	5.000	2	10.00	8	20.00	6	50.00	-3	75.00	-4	100.0	-4
1,2-Dibromo-3-Chloropropane			0.500	5	2.000	11	5.000	-6	10.00	-6	20.00	5	50.00	-1	75.00	-3	100.0	-6
1,2,4-Trichlorobenzene			0.500	1	2.000	6	5.000	-6	10.00	10	20.00	2	50.00	-1	75.00	-7	100.0	-6
Hexachlorobutadiene			0.500	10	2.000	-6	5.000	0	10.00	12	20.00	-2	50.00	2	75.00	-17	100.0	1
Naphthalene			0.500	-10	2.000	-6	5.000	-7	10.00	6	20.00	9	50.00	3	75.00	3	100.0	1
1,2,3-Trichlorobenzene			0.500	0	2.000	-2	5.000	-10	10.00	8	20.00	10	50.00	-3	75.00	-3	100.0	1
Dibromofluoromethane	50.00	1	50.00	0	50.00	2	50.00	1	50.00	-1	50.00	1	50.00	-1	50.00	-2	50.00	-1
1,2-Dichloroethane-d4	50.00	-3	50.00	0	50.00	4	50.00	2	50.00	0	50.00	4	50.00	1	50.00	-5	50.00	-3
Toluene-d8	50.00	0	50.00	-5	50.00	0	50.00	2	50.00	-1	50.00	4	50.00	-2	50.00	2	50.00	0
Bromofluorobenzene	50.00	7	50.00	-1	50.00	1	50.00	4	50.00	5	50.00	5	50.00	-3	50.00	-10	50.00	-7

BO 11/21/08 : Manual integrations were made due to fronting/tailing of peaks, except for Bromomethane which was integrated to raise the baseline due to noise

Analyst: BO Date: 11/21/08 Reviewer: ACM Date: 11/21/08

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; QUAD=Quadratic regression

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 208750 MSVOA Water
EPA 8260B

Inst : MSVOA06 Name : 826GOX6W
Calnum : 458468482002 Cal Date : 20-NOV-2008 Type : WATER

ICV 458468482028 (fkk28 21-NOV-2008) stds: S10631 (10000X), S10447 (1000X)
ICV 458468482029 (fkk29 21-NOV-2008) stds: S10654 (10000X), S10798 (10000X), S10788 (10000X), S10447 (1000X)

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	458468482028	0.6523	0.6183	25.00	25.67	ug/L	3	25	
Chloromethane	458468482028	0.9011	0.7419	25.00	20.58	ug/L	-18	25	
Vinyl Chloride	458468482028	0.6577	0.7466	25.00	28.38	ug/L	14	25	
Bromomethane	458468482028	0.2767	0.2219	25.00	20.05	ug/L	-20	25	
Chloroethane	458468482028	0.3533	0.3134	25.00	22.18	ug/L	-11	25	
Trichlorofluoromethane	458468482028	0.7181	0.7269	25.00	26.80	ug/L	7	25	
Acetone	458468482029	0.3229	0.2969	25.00	22.99	ug/L	-8	25	
1,1-Dichloroethene	458468482029	0.5342	0.5779	25.00	27.05	ug/L	8	25	
Iodomethane	458468482029	0.3604	0.2156	25.00	11.90	ug/L	**-52**	25	v- ***
Methylene Chloride	458468482029	0.7329	0.7315	25.00	24.95	ug/L	0	25	
Carbon Disulfide	458468482029	2.0736	2.0503	25.00	24.72	ug/L	-1	25	
MTBE	458468482029	1.9089	1.6999	25.00	22.26	ug/L	-11	25	
trans-1,2-Dichloroethene	458468482029	0.6155	0.6477	25.00	26.31	ug/L	5	25	
Vinyl Acetate	458468482029	1.3534	0.9237	25.00	17.06	ug/L	**-32**	25	v- ***
1,1-Dichloroethane	458468482029	1.2098	1.1919	25.00	24.63	ug/L	-1	25	
2-Butanone	458468482029	0.4254	0.3758	25.00	22.09	ug/L	-12	25	
2,2-Dichloropropane	458468482029	0.6696	0.6737	25.00	25.15	ug/L	1	25	
cis-1,2-Dichloroethene	458468482029	0.7100	0.7126	25.00	25.09	ug/L	0	25	
Chloroform	458468482029	1.0978	1.0713	25.00	24.40	ug/L	-2	25	
Bromochloromethane	458468482029	0.4218	0.3950	25.00	23.41	ug/L	-6	25	
1,1,1-Trichloroethane	458468482029	0.6692	0.7239	25.00	27.04	ug/L	8	25	
1,1-Dichloropropene	458468482029	0.4415	0.4956	25.00	28.06	ug/L	12	25	
Carbon Tetrachloride	458468482029	0.3589	0.4153	25.00	28.93	ug/L	16	25	
1,2-Dichloroethane	458468482029	0.4747	0.4647	25.00	24.47	ug/L	-2	25	
Benzene	458468482029	1.4989	1.5405	25.00	25.69	ug/L	3	25	
Trichloroethene	458468482029	0.3658	0.3974	25.00	27.16	ug/L	9	25	
1,2-Dichloropropane	458468482029	0.4456	0.4417	25.00	24.78	ug/L	-1	25	
Bromodichloromethane	458468482029	0.4986	0.5145	25.00	25.79	ug/L	3	25	
Dibromomethane	458468482029	0.2907	0.2992	25.00	25.73	ug/L	3	25	
4-Methyl-2-Pentanone	458468482029	0.4957	0.4561	25.00	23.01	ug/L	-8	25	
cis-1,3-Dichloropropene	458468482029	0.6508	0.6214	25.00	23.87	ug/L	-5	25	
Toluene	458468482029	0.8473	0.9101	25.00	26.85	ug/L	7	25	
trans-1,3-Dichloropropene	458468482029	0.5704	0.5250	25.00	23.01	ug/L	-8	25	
1,1,2-Trichloroethane	458468482029	0.2089	0.2147	25.00	25.70	ug/L	3	25	
2-Hexanone	458468482029	0.4156	0.3925	25.00	23.61	ug/L	-6	25	
1,3-Dichloropropane	458468482029	0.7506	0.7684	25.00	25.59	ug/L	2	25	
Tetrachloroethene	458468482029	0.4188	0.4715	25.00	28.15	ug/L	13	25	
Dibromochloromethane	458468482029	0.5668	0.5681	25.00	25.06	ug/L	0	25	
1,2-Dibromoethane	458468482029	0.4360	0.4362	25.00	25.01	ug/L	0	25	
Chlorobenzene	458468482029	1.2382	1.2117	25.00	24.47	ug/L	-2	25	
1,1,1,2-Tetrachloroethane	458468482029	0.4469	0.4543	25.00	25.41	ug/L	2	25	
Ethylbenzene	458468482029	1.7693	1.8355	25.00	25.94	ug/L	4	25	
m,p-Xylenes	458468482029	0.6799	0.7220	50.00	53.10	ug/L	6	25	
o-Xylene	458468482029	0.7208	0.7255	25.00	25.16	ug/L	1	25	
Styrene	458468482029	1.2406	1.2565	25.00	25.32	ug/L	1	25	
Bromoform	458468482029	0.4043	0.4197	25.00	25.96	ug/L	4	25	
Isopropylbenzene	458468482029	3.0374	2.8809	25.00	23.71	ug/L	-5	25	

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	458468482029	1.2619	1.1922	25.00	23.62	ug/L	-6	25	
1,2,3-Trichloropropane	458468482029	0.9814	0.9500	25.00	24.20	ug/L	-3	25	
Propylbenzene	458468482029	3.5323	3.8946	25.00	27.56	ug/L	10	25	
Bromobenzene	458468482029	1.1030	1.1645	25.00	26.39	ug/L	6	25	
1,3,5-Trimethylbenzene	458468482029	2.4404	2.5856	25.00	26.49	ug/L	6	25	
2-Chlorotoluene	458468482029	2.5264	2.6010	25.00	25.74	ug/L	3	25	
4-Chlorotoluene	458468482029	2.4576	2.4107	25.00	24.52	ug/L	-2	25	
tert-Butylbenzene	458468482029	2.0871	2.3029	25.00	27.59	ug/L	10	25	
1,2,4-Trimethylbenzene	458468482029	2.5473	2.7542	25.00	27.03	ug/L	8	25	
sec-Butylbenzene	458468482029	2.8803	3.2369	25.00	28.10	ug/L	12	25	
para-Isopropyl Toluene	458468482029	2.4577	2.5805	25.00	26.25	ug/L	5	25	
1,3-Dichlorobenzene	458468482029	1.8598	1.8497	25.00	24.86	ug/L	-1	25	
1,4-Dichlorobenzene	458468482029	1.9095	1.8322	25.00	23.99	ug/L	-4	25	
n-Butylbenzene	458468482029	2.0653	2.3800	25.00	28.81	ug/L	15	25	
1,2-Dichlorobenzene	458468482029	1.7718	1.7633	25.00	24.88	ug/L	0	25	
1,2-Dibromo-3-Chloropropane	458468482029	0.1927	0.1836	25.00	23.82	ug/L	-5	25	
1,2,4-Trichlorobenzene	458468482029	0.9719	0.9695	25.00	24.94	ug/L	0	25	
Hexachlorobutadiene	458468482029	0.3550	0.4023	25.00	28.33	ug/L	13	25	
Naphthalene	458468482029	2.7758	2.9697	25.00	26.75	ug/L	7	25	
1,2,3-Trichlorobenzene	458468482029	0.9151	0.9388	25.00	25.65	ug/L	3	25	

-=low bias v=ICV

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 208750 MSVOA Water: EPA 8260B

Inst : MSVOA09 Name : 826GOX9W
Calnum : 488459048001 Date : 14-NOV-2008 01:07 Type : WATER
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	ikd06	488459048006		14-NOV-2008 01:07	S10756 (1000000X), S10355 (500000X), S9073 (1000000X), S10619 (1000000X), S10716 (2500X)
L2	ikd07	488459048007		14-NOV-2008 01:40	S10756 (250000X), S10355 (250000X), S9073 (500000X), S10619 (250000X), S10716 (2500X)
L3	ikd08	488459048008		14-NOV-2008 02:15	S10756 (100000X), S10355 (100000X), S9073 (200000X), S10619 (100000X), S10716 (2500X)
L4	ikd09	488459048009		14-NOV-2008 02:48	S10756 (50000X), S10355 (50000X), S9073 (100000X), S10619 (50000X), S10716 (2500X)
L5	ikd10	488459048010		14-NOV-2008 03:22	S10756 (25000X), S10355 (25000X), S9073 (50000X), S10619 (25000X), S10716 (2500X)
L6	ikd11	488459048011		14-NOV-2008 03:56	S10756 (10000X), S10355 (10000X), S9073 (20000X), S10619 (10000X), S10716 (2500X)
L7	ikd12	488459048012		14-NOV-2008 04:30	S10756 (6667X), S10355 (6667X), S9073 (13330X), S10619 (6667X), S10716 (2500X)
L8	ikd13	488459048013		14-NOV-2008 05:04	S10756 (5000X), S10355 (5000X), S9073 (10000X), S10619 (5000X), S10716 (2500X)
L9	ikd19	488459048019		14-NOV-2008 10:45	S10756 (2000000X), S10355 (1000000X), S9073 (2000000X), S10619 (2000000X), S10716 (2500X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12	0.4003m	0.6701m	0.6851	0.6738	0.7449	0.7296	0.7126	0.6819		QUAD	0.79684	1.22709	0.003259	0.6623	1.000	15	0.05	0.99	
Chloromethane	0.9690m	0.9571m	0.9463	0.9445m	0.9182	0.8848	0.9015	0.8973		AVRG		1.07835		0.9273	3	15	0.10	0.99	
Vinyl Chloride	0.6835	0.7830m	0.7178m	0.7550	0.7716	0.7695	0.7669	0.7432	0.9087m	AVRG		1.30450		0.7666	8	15	0.05	0.99	
Bromomethane	0.3248m	0.3440m	0.3821	0.3547m	0.3555	0.3909	0.4312	0.4317		AVRG		2.65345		0.3769	10	15	0.05	0.99	
Chloroethane	0.4865m	0.4658m	0.4771	0.4658	0.4635	0.4528	0.4543	0.4458		AVRG		2.15548		0.4639	3	15	0.05	0.99	
Trichlorofluoromethane	0.5787	0.7927	0.7054	0.7328	0.7735	0.7529	0.7627	0.7040		AVRG		1.37868		0.7253	9	15	0.05	0.99	
Acetone			0.2289	0.2196	0.2108	0.2199	0.2286	0.2387		AVRG		4.45630		0.2244	4	15	0.05	0.99	
1,1-Dichloroethene	0.4480	0.4934	0.5305	0.4275	0.4642	0.4766	0.4988	0.4853		AVRG		2.09189		0.4780	7	15	0.05	0.99	
Iodomethane		0.1932	0.2741	0.4035m	0.5590	0.7136	0.6971	0.6406		LINR	2.38992	1.45129		0.4973	0.994	15	0.05	0.99	
Methylene Chloride		0.6632	0.6322	0.6150	0.6096	0.6057	0.6009	0.5968		AVRG		1.61905		0.6176	4	15	0.05	0.99	
Carbon Disulfide	2.1201	2.0948	2.1095	1.8360	1.9528	1.9905	2.0135	1.8779		AVRG		0.50016		1.9994	5	15	0.05	0.99	
MTBE	1.8042	1.5823	1.4933	1.4922	1.5113	1.4824	1.4420	1.4488		AVRG		0.65272		1.5321	8	15	0.05	0.99	
trans-1,2-Dichloroethene	0.5885	0.6271	0.5980	0.5285	0.5490	0.5718	0.5733	0.5496		AVRG		1.74455		0.5732	5	15	0.05	0.99	
Vinyl Acetate		1.1473	1.1328	1.1414	1.2968	1.3013	1.2070	1.2809		AVRG		0.82281		1.2154	6	15	0.05	0.99	
1,1-Dichloroethane	1.2027	1.0871	1.0957	0.9577	0.9991	1.0054	1.0006	0.9760		AVRG		0.96103		1.0405	8	15	0.10	0.99	
2-Butanone		0.4419	0.3401	0.3359	0.3244	0.3194	0.3274	0.3416		AVRG		2.87964		0.3473	12	15	0.05	0.99	
2,2-Dichloropropane	0.5746	0.6105	0.6156	0.5406	0.5746	0.6188	0.6038	0.5893		AVRG		1.69214		0.5910	5	15	0.05	0.99	
cis-1,2-Dichloroethene	0.6874	0.6651	0.6456	0.6320	0.6183	0.6264	0.6354	0.6186		AVRG		1.55980		0.6411	4	15	0.05	0.99	
Chloroform	1.1259	1.0075	0.9719	0.9221	0.9149	0.9047	0.9116	0.9056		AVRG		1.04383		0.9580	8	15	0.05	0.99	
Bromochloromethane	0.3748	0.3225	0.3327	0.3155	0.3146	0.3177	0.3178	0.3096		AVRG		3.07095		0.3256	6	15	0.05	0.99	
1,1,1-Trichloroethane	0.7332	0.7501	0.6542	0.5719	0.5886	0.6633	0.6579	0.6477		AVRG		1.51894		0.6584	9	15	0.05	0.99	
1,1-Dichloropropene	0.4719	0.4802	0.4264	0.3622	0.3820	0.4398	0.4357	0.4058		AVRG		2.35026		0.4255	10	15	0.05	0.99	
Carbon Tetrachloride	0.2695	0.3723	0.3326	0.2785	0.2937	0.3523	0.3388	0.3285		AVRG		3.11746		0.3208	11	15	0.05	0.99	
1,2-Dichloroethane	0.4263	0.4010	0.3838	0.3953	0.3761	0.3726	0.3648	0.3777		AVRG		2.58270		0.3872	5	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene	1.5071	1.3599	1.3030	1.2095	1.2354	1.2535	1.2092	1.1222		AVRG		0.78432		1.2750	9	15	0.05	0.99	
Trichloroethene	0.3953	0.3679	0.3594	0.3151	0.3184	0.3440	0.3484	0.3288		AVRG		2.88051		0.3472	8	15	0.05	0.99	
1,2-Dichloropropane	0.4453	0.4620	0.4211	0.3912	0.3807	0.3980	0.3911	0.3813		AVRG		2.44595		0.4088	8	15	0.05	0.99	
Bromodichloromethane	0.6063	0.4609	0.4385	0.4192	0.4204	0.4315	0.4237	0.4193		AVRG		2.21005		0.4525	14	15	0.05	0.99	
Dibromomethane	0.3216	0.2864	0.2582	0.2701	0.2526	0.2511	0.2488	0.2450		AVRG		3.74925		0.2667	10	15	0.05	0.99	
4-Methyl-2-Pentanone	0.4238	0.4435	0.3926	0.4258	0.4102	0.4114	0.3887	0.4077		AVRG		2.42148		0.4130	4	15	0.05	0.99	
cis-1,3-Dichloropropene	0.6252	0.6029	0.5737	0.5503	0.5560	0.5654	0.5676	0.5356		AVRG		1.74804		0.5721	5	15	0.05	0.99	
Toluene	0.8487	0.7926	0.7884	0.7115	0.6933	0.7715	0.7496	0.7250		AVRG		1.31566		0.7601	7	15	0.05	0.99	
trans-1,3-Dichloropropene	0.5219	0.5127	0.4708	0.4825	0.4845	0.4991	0.4995	0.4809		AVRG		2.02442		0.4940	4	15	0.05	0.99	
1,1,2-Trichloroethane	0.2100	0.1969	0.1797	0.1855	0.1823	0.1791	0.1744	0.1731		AVRG		5.40195		0.1851	7	15	0.05	0.99	
2-Hexanone		0.4162	0.3407	0.3564	0.3716	0.3525	0.3291	0.3581		AVRG		2.77273		0.3607	8	15	0.05	0.99	
1,3-Dichloropropane	0.6988	0.6257	0.6211	0.6290	0.6508	0.6519	0.5981	0.6187		AVRG		1.57042		0.6368	5	15	0.05	0.99	
Tetrachloroethene	0.3413	0.3640	0.3750	0.2935	0.3126	0.3975	0.3809	0.3678		AVRG		2.82424		0.3541	10	15	0.05	0.99	
Dibromochloromethane	0.4727	0.4427	0.4523	0.4379	0.4389	0.4580	0.4351	0.4338		AVRG		2.24010		0.4464	3	15	0.05	0.99	
1,2-Dibromoethane	0.4647	0.3864	0.3654	0.3643	0.3547	0.3619	0.3472	0.3433		AVRG		2.67754		0.3735	10	15	0.05	0.99	
Chlorobenzene	1.2098	1.0781	1.0428	0.9459	0.9736	1.0396	1.0027	0.9459		AVRG		0.97105		1.0298	8	15	0.30	0.99	
1,1,1,2-Tetrachloroethane	0.4459	0.3967	0.3765	0.3309	0.3354	0.3730	0.3569	0.3553		AVRG		2.69298		0.3713	10	15	0.05	0.99	
Ethylbenzene	1.9166	1.8387	1.7929	1.4182	1.4757	1.7278	1.5770	1.4486		AVRG		0.60627		1.6494	12	15	0.05	0.99	
m,p-Xylenes	0.7266	0.6701	0.6517	0.5307	0.5547	0.6726	0.6122	0.5581	0.8223	AVRG		1.55202		0.6443	14	15	0.05	0.99	
o-Xylene	0.7502	0.6743	0.6442	0.5780	0.5716	0.6896	0.6274	0.5948		AVRG		1.55944		0.6413	10	15	0.05	0.99	
Styrene	1.2450	1.1953	1.1868	1.0597	1.0752	1.2110	1.1068	1.0300		AVRG		0.87817		1.1387	7	15	0.05	0.99	
Bromoform	0.3069	0.2963	0.3096	0.2995	0.2978	0.3258	0.3024	0.3090		AVRG		3.26894		0.3059	3	15	0.10	0.99	
Isopropylbenzene	3.8825	3.8166	3.5932	2.8104	3.0636	3.6696	3.3609	3.0186		AVRG		0.29395		3.4019	12	15	0.05	0.99	
1,1,2,2-Tetrachloroethane	1.6126	1.3552	1.1339	1.1887	1.2243	1.2363	1.1130	1.1378		AVRG		0.79986		1.2502	13	15	0.30	0.99	
1,2,3-Trichloropropane	0.3848	0.3019	0.2896	0.2746	0.2890	0.2735	0.2624	0.2741		AVRG		3.40421		0.2938	13	15	0.05	0.99	
Propylbenzene	4.7667	4.7283	4.4016	3.4534	3.9025	4.4602	3.9748	3.4401		AVRG		0.24149		4.1409	13	15	0.05	0.99	
Bromobenzene	0.9579	1.0035	0.9167	0.8607	0.9110	0.9653	0.9240	0.8939		AVRG		1.07628		0.9291	5	15	0.05	0.99	
1,3,5-Trimethylbenzene	3.2526	3.0530	2.7368	2.3178	2.4563	2.9690	2.6885	2.4184		AVRG		0.36542		2.7366	12	15	0.05	0.99	
2-Chlorotoluene	3.4550	3.1040	2.8346	2.4595	2.6067	2.9395	2.6565	2.4173		AVRG		0.35598		2.8091	12	15	0.05	0.99	
4-Chlorotoluene	2.7610	2.9045	2.7406	2.3356	2.4602	2.7323	2.5462	2.4278		AVRG		0.38262		2.6135	8	15	0.05	0.99	
tert-Butylbenzene	2.4642	2.3558	2.2148	1.7519	1.8439	2.3756	2.3151	2.1136		AVRG		0.45885		2.1794	12	15	0.05	0.99	
1,2,4-Trimethylbenzene	3.2522	2.9398	2.6420	2.2897	2.5227	2.9979	2.7215	2.5506		AVRG		0.36502		2.7396	11	15	0.05	0.99	
sec-Butylbenzene	3.1302	3.8159	3.4615	2.7131	2.9823	3.9234	3.6349	3.1265		AVRG		0.29864		3.3485	13	15	0.05	0.99	
para-Isopropyl Toluene	2.3078	2.7280	2.5917	2.0409	2.1792	2.8507	2.7609	2.4831		AVRG		0.40116		2.4928	12	15	0.05	0.99	
1,3-Dichlorobenzene	1.9339	1.8060	1.6578	1.4605	1.5133	1.7291	1.6553	1.5567		AVRG		0.60093		1.6641	9	15	0.05	0.99	
1,4-Dichlorobenzene	1.7881	1.8322	1.7340	1.5167	1.5800	1.7467	1.7024	1.6413		AVRG		0.59078		1.6927	6	15	0.05	0.99	
n-Butylbenzene	1.9592	2.4033	2.2748	1.7870	2.0525	2.7386	2.6404	2.3758		AVRG		0.43880		2.2790	14	15	0.05	0.99	
1,2-Dichlorobenzene	1.7341	1.7743	1.5824	1.4185	1.5004	1.6874	1.5777	1.5011		AVRG		0.62618		1.5970	8	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane	0.3379	0.1754	0.1733	0.1663	0.1720	0.1760	0.1545	0.1667		LINR	-0.4419	6.10979		0.1903	0.996	15	0.05	0.99	
1,2,4-Trichlorobenzene	0.6252	0.6958	0.7179	0.6787	0.7272	0.8946	0.8660	0.8280		AVRG		1.32595		0.7542	13	15	0.05	0.99	
Hexachlorobutadiene		0.2734	0.2639	0.2075	0.2326	0.3418	0.3281	0.2970		LINR	1.65233	3.13091		0.2778	0.990	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene	1.4052	1.6731	1.7512	1.8229	1.9889	2.1103	2.0147	2.0164		AVRG		0.54117		1.8478	13	15	0.05	0.99	
1,2,3-Trichlorobenzene	0.4365m	0.6279	0.5749	0.6121	0.6661	0.7896				QUAD	0.20791	1.61863	-0.00906	0.6179	1.000	15	0.05	0.99	
Dibromofluoromethane	0.6179	0.6122	0.6190	0.6150	0.6193	0.6180	0.6197	0.6254		AVRG		1.61731		0.6183	1	15	0.05	0.99	
1,2-Dichloroethane-d4	0.3177	0.3213	0.3171	0.3160	0.3104	0.3082	0.3028	0.2914		AVRG		3.21964		0.3106	3	15	0.05	0.99	
Toluene-d8	1.0569	1.0334	1.0433	1.0736	1.0382	1.0266	1.0511	1.0416		AVRG		0.95640		1.0456	1	15	0.05	0.99	
Bromofluorobenzene	1.1763	1.1601	1.1657	1.1618	1.1387	1.1907	1.1252	1.1251		AVRG		0.86547		1.1554	2	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Freon 12	1.000	29	2.000	22	5.000	1	10.00	-8	20.00	-1	50.00	0	75.00	1	100.0	0		
Chloromethane	1.000	4	2.000	3	5.000	2	10.00	2	20.00	-1	50.00	-5	75.00	-3	100.0	-3		
Vinyl Chloride	1.000	-11	2.000	2	5.000	-6	10.00	-2	20.00	1	50.00	0	75.00	0	100.0	-3	0.500	19
Bromomethane	1.000	-14	2.000	-9	5.000	1	10.00	-6	20.00	-6	50.00	4	75.00	14	100.0	15		
Chloroethane	1.000	5	2.000	0	5.000	3	10.00	0	20.00	0	50.00	-2	75.00	-2	100.0	-4		
Trichlorofluoromethane	1.000	-20	2.000	9	5.000	-3	10.00	1	20.00	7	50.00	4	75.00	5	100.0	-3		
Acetone					5.000	2	10.00	-2	20.00	-6	50.00	-2	75.00	2	100.0	6		
1,1-Dichloroethene	0.500	-6	2.000	3	5.000	11	10.00	-11	20.00	-3	50.00	0	75.00	4	100.0	2		
Iodomethane			2.000	48	5.000	-12	10.00	-18	20.00	-7	50.00	8	75.00	4	100.0	-5		
Methylene Chloride			2.000	7	5.000	2	10.00	0	20.00	-1	50.00	-2	75.00	-3	100.0	-3		
Carbon Disulfide	0.500	6	2.000	5	5.000	6	10.00	-8	20.00	-2	50.00	0	75.00	1	100.0	-6		
MTBE	0.500	18	2.000	3	5.000	-3	10.00	-3	20.00	-1	50.00	-3	75.00	-6	100.0	-5		
trans-1,2-Dichloroethene	0.500	3	2.000	9	5.000	4	10.00	-8	20.00	-4	50.00	0	75.00	0	100.0	-4		
Vinyl Acetate			2.000	-6	5.000	-7	10.00	-6	20.00	7	50.00	7	75.00	-1	100.0	5		
1,1-Dichloroethane	0.500	16	2.000	4	5.000	5	10.00	-8	20.00	-4	50.00	-3	75.00	-4	100.0	-6		
2-Butanone			2.000	27	5.000	-2	10.00	-3	20.00	-7	50.00	-8	75.00	-6	100.0	-2		
2,2-Dichloropropane	0.500	-3	2.000	3	5.000	4	10.00	-9	20.00	-3	50.00	5	75.00	2	100.0	0		
cis-1,2-Dichloroethene	0.500	7	2.000	4	5.000	1	10.00	-1	20.00	-4	50.00	-2	75.00	-1	100.0	-4		
Chloroform	0.500	18	2.000	5	5.000	1	10.00	-4	20.00	-5	50.00	-6	75.00	-5	100.0	-5		
Bromochloromethane	0.500	15	2.000	-1	5.000	2	10.00	-3	20.00	-3	50.00	-2	75.00	-2	100.0	-5		
1,1,1-Trichloroethane	0.500	11	2.000	14	5.000	-1	10.00	-13	20.00	-11	50.00	1	75.00	0	100.0	-2		
1,1-Dichloropropene	0.500	11	2.000	13	5.000	0	10.00	-15	20.00	-10	50.00	3	75.00	2	100.0	-5		
Carbon Tetrachloride	0.500	-16	2.000	16	5.000	4	10.00	-13	20.00	-8	50.00	10	75.00	6	100.0	2		
1,2-Dichloroethane	0.500	10	2.000	4	5.000	-1	10.00	2	20.00	-3	50.00	-4	75.00	-6	100.0	-2		
Benzene	0.500	18	2.000	7	5.000	2	10.00	-5	20.00	-3	50.00	-2	75.00	-5	100.0	-12		
Trichloroethene	0.500	14	2.000	6	5.000	4	10.00	-9	20.00	-8	50.00	-1	75.00	0	100.0	-5		
1,2-Dichloropropane	0.500	9	2.000	13	5.000	3	10.00	-4	20.00	-7	50.00	-3	75.00	-4	100.0	-7		
Bromodichloromethane	0.500	34	2.000	2	5.000	-3	10.00	-7	20.00	-7	50.00	-5	75.00	-6	100.0	-7		
Dibromomethane	0.500	21	2.000	7	5.000	-3	10.00	1	20.00	-5	50.00	-6	75.00	-7	100.0	-8		
4-Methyl-2-Pentanone	0.500	3	2.000	7	5.000	-5	10.00	3	20.00	-1	50.00	0	75.00	-6	100.0	-1		
cis-1,3-Dichloropropene	0.500	9	2.000	5	5.000	0	10.00	-4	20.00	-3	50.00	-1	75.00	-1	100.0	-6		
Toluene	0.500	12	2.000	4	5.000	4	10.00	-6	20.00	-9	50.00	2	75.00	-1	100.0	-5		
trans-1,3-Dichloropropene	0.500	6	2.000	4	5.000	-5	10.00	-2	20.00	-2	50.00	1	75.00	1	100.0	-3		
1,1,2-Trichloroethane	0.500	13	2.000	6	5.000	-3	10.00	0	20.00	-2	50.00	-3	75.00	-6	100.0	-7		
2-Hexanone			2.000	15	5.000	-6	10.00	-1	20.00	3	50.00	-2	75.00	-9	100.0	-1		
1,3-Dichloropropane	0.500	10	2.000	-2	5.000	-2	10.00	-1	20.00	2	50.00	2	75.00	-6	100.0	-3		
Tetrachloroethene	0.500	-4	2.000	3	5.000	6	10.00	-17	20.00	-12	50.00	12	75.00	8	100.0	4		
Dibromochloromethane	0.500	6	2.000	-1	5.000	1	10.00	-2	20.00	-2	50.00	3	75.00	-3	100.0	-3		
1,2-Dibromoethane	0.500	24	2.000	3	5.000	-2	10.00	-2	20.00	-5	50.00	-3	75.00	-7	100.0	-8		
Chlorobenzene	0.500	17	2.000	5	5.000	1	10.00	-8	20.00	-5	50.00	1	75.00	-3	100.0	-8		
1,1,1,2-Tetrachloroethane	0.500	20	2.000	7	5.000	1	10.00	-11	20.00	-10	50.00	0	75.00	-4	100.0	-4		
Ethylbenzene	0.500	16	2.000	11	5.000	9	10.00	-14	20.00	-11	50.00	5	75.00	-4	100.0	-12		

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
m,p-Xylenes	1.000	13	4.000	4	10.00	1	20.00	-18	40.00	-14	100.0	4	150.0	-5	200.0	-13	0.500	28
o-Xylene	0.500	17	2.000	5	5.000	0	10.00	-10	20.00	-11	50.00	8	75.00	-2	100.0	-7		
Styrene	0.500	9	2.000	5	5.000	4	10.00	-7	20.00	-6	50.00	6	75.00	-3	100.0	-10		
Bromoform	0.500	0	2.000	-3	5.000	1	10.00	-2	20.00	-3	50.00	6	75.00	-1	100.0	1		
Isopropylbenzene	0.500	14	2.000	12	5.000	6	10.00	-17	20.00	-10	50.00	8	75.00	-1	100.0	-11		
1,1,2,2-Tetrachloroethane	0.500	29	2.000	8	5.000	-9	10.00	-5	20.00	-2	50.00	-1	75.00	-11	100.0	-9		
1,2,3-Trichloropropane	0.500	31	2.000	3	5.000	-1	10.00	-7	20.00	-2	50.00	-7	75.00	-11	100.0	-7		
Propylbenzene	0.500	15	2.000	14	5.000	6	10.00	-17	20.00	-6	50.00	8	75.00	-4	100.0	-17		
Bromobenzene	0.500	3	2.000	8	5.000	-1	10.00	-7	20.00	-2	50.00	4	75.00	-1	100.0	-4		
1,3,5-Trimethylbenzene	0.500	19	2.000	12	5.000	0	10.00	-15	20.00	-10	50.00	8	75.00	-2	100.0	-12		
2-Chlorotoluene	0.500	23	2.000	10	5.000	1	10.00	-12	20.00	-7	50.00	5	75.00	-5	100.0	-14		
4-Chlorotoluene	0.500	6	2.000	11	5.000	5	10.00	-11	20.00	-6	50.00	5	75.00	-3	100.0	-7		
tert-Butylbenzene	0.500	13	2.000	8	5.000	2	10.00	-20	20.00	-15	50.00	9	75.00	6	100.0	-3		
1,2,4-Trimethylbenzene	0.500	19	2.000	7	5.000	-4	10.00	-16	20.00	-8	50.00	9	75.00	-1	100.0	-7		
sec-Butylbenzene	0.500	-7	2.000	14	5.000	3	10.00	-19	20.00	-11	50.00	17	75.00	9	100.0	-7		
para-Isopropyl Toluene	0.500	-7	2.000	9	5.000	4	10.00	-18	20.00	-13	50.00	14	75.00	11	100.0	0		
1,3-Dichlorobenzene	0.500	16	2.000	9	5.000	0	10.00	-12	20.00	-9	50.00	4	75.00	-1	100.0	-6		
1,4-Dichlorobenzene	0.500	6	2.000	8	5.000	2	10.00	-10	20.00	-7	50.00	3	75.00	1	100.0	-3		
n-Butylbenzene	0.500	-14	2.000	5	5.000	0	10.00	-22	20.00	-10	50.00	20	75.00	16	100.0	4		
1,2-Dichlorobenzene	0.500	9	2.000	11	5.000	-1	10.00	-11	20.00	-6	50.00	6	75.00	-1	100.0	-6		
1,2-Dibromo-3-Chloropropane	0.500	18	2.000	-15	5.000	-3	10.00	-3	20.00	3	50.00	7	75.00	-6	100.0	1		
1,2,4-Trichlorobenzene	0.500	-17	2.000	-8	5.000	-5	10.00	-10	20.00	-4	50.00	19	75.00	15	100.0	10		
Hexachlorobutadiene			2.000	68	5.000	16	10.00	-19	20.00	-19	50.00	10	75.00	5	100.0	-5		
Naphthalene	0.500	-24	2.000	-9	5.000	-5	10.00	-1	20.00	8	50.00	14	75.00	9	100.0	9		
1,2,3-Trichlorobenzene	0.500	12	2.000	11	5.000	-4	10.00	-2	20.00	1	50.00	0						
Dibromofluoromethane	50.00	0	50.00	-1	50.00	0	50.00	-1	50.00	0	50.00	0	50.00	0	50.00	1		
1,2-Dichloroethane-d4	50.00	2	50.00	3	50.00	2	50.00	2	50.00	0	50.00	-1	50.00	-3	50.00	-6		
Toluene-d8	50.00	1	50.00	-1	50.00	0	50.00	3	50.00	-1	50.00	-2	50.00	1	50.00	0		
Bromofluorobenzene	50.00	2	50.00	0	50.00	1	50.00	1	50.00	-1	50.00	3	50.00	-3	50.00	-3		

MJM 11/14/08 : Indexing error ikd06. FR12 lacks original before MI, this was due to Target software limitations.

MJM 11/14/08 [Freon 12]: Combined split peak.

MJM 11/14/08 [Chloromethane]: Combined split peak.

MJM 11/14/08 [Bromomethane]: Drew baseline due to software limitations.

MJM 11/14/08 [Chloroethane]: Combined split peak.

MJM 11/14/08 [Freon 113]: Combined split peak.

MJM 11/14/08 [Iodomethane]: Combined split peak.

MJM 11/14/08 [1,2,3-Trichlorobenzene]: Combined split peak.

MJM 11/14/08 [Vinyl Chloride]: Combined split peak.

MJM 11/14/08 [Isopropanol]: Drew baseline due to software limitations.

Analyst: MJM Date: 11/14/08 Reviewer: ACM Date: 11/14/08

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; LINR=Linear regression; QUAD=Quadratic regression

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 208750 MSVOA Water
EPA 8260B

Inst : MSVOA09 Name : 826GOX9W
Calnum : 488459048001 Cal Date : 14-NOV-2008 Type : WATER

ICV 488459956004 (ike04 14-NOV-2008) stds: S10654 (12500X), S10533 (12500X), S10631 (12500X), S10601 (12500X), S10716 (2500X)

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	0.6623	0.7131	20.00	18.96	ug/L	-5	25	
Chloromethane	0.9273	0.9344	20.00	20.15	ug/L	1	25	
Vinyl Chloride	0.7666	0.8874	20.00	23.15	ug/L	16	25	
Bromomethane	0.3769	0.4120	20.00	21.86	ug/L	9	25	
Chloroethane	0.4639	0.4805	20.00	20.71	ug/L	4	25	
Trichlorofluoromethane	0.7253	0.7524	20.00	20.75	ug/L	4	25	
Acetone	0.2244	0.2360	20.00	21.03	ug/L	5	25	
1,1-Dichloroethene	0.4780	0.5482	20.00	22.94	ug/L	15	25	
Iodomethane	0.4973	0.5462	20.00	18.24	ug/L	-9	25	
Methylene Chloride	0.6176	0.6891	20.00	22.32	ug/L	12	25	
Carbon Disulfide	1.9994	2.1609	20.00	21.62	ug/L	8	25	
MTBE	1.5321	1.3926	20.00	18.18	ug/L	-9	25	
trans-1,2-Dichloroethene	0.5732	0.6084	20.00	21.23	ug/L	6	25	
Vinyl Acetate	1.2154	1.0761	20.00	17.71	ug/L	-11	25	
1,1-Dichloroethane	1.0405	1.1113	20.00	21.36	ug/L	7	25	
2-Butanone	0.3473	0.3197	20.00	18.41	ug/L	-8	25	
2,2-Dichloropropane	0.5910	0.7270	20.00	24.60	ug/L	**23**	25	
cis-1,2-Dichloroethene	0.6411	0.6904	20.00	21.54	ug/L	8	25	
Chloroform	0.9580	0.9780	20.00	20.42	ug/L	2	25	
Bromochloromethane	0.3256	0.3176	20.00	19.50	ug/L	-2	25	
1,1,1-Trichloroethane	0.6584	0.7119	20.00	21.63	ug/L	8	25	
1,1-Dichloropropene	0.4255	0.4605	20.00	21.65	ug/L	8	25	
Carbon Tetrachloride	0.3208	0.3445	20.00	21.48	ug/L	7	25	
1,2-Dichloroethane	0.3872	0.3842	20.00	19.84	ug/L	-1	25	
Benzene	1.2750	1.3082	20.00	20.52	ug/L	3	25	
Trichloroethene	0.3472	0.3588	20.00	20.67	ug/L	3	25	
1,2-Dichloropropane	0.4088	0.3920	20.00	19.18	ug/L	-4	25	
Bromodichloromethane	0.4525	0.4406	20.00	19.47	ug/L	-3	25	
Dibromomethane	0.2667	0.2527	20.00	18.95	ug/L	-5	25	
4-Methyl-2-Pentanone	0.4130	0.3667	20.00	17.76	ug/L	-11	25	
cis-1,3-Dichloropropene	0.5721	0.5819	20.00	20.35	ug/L	2	25	
Toluene	0.7601	0.7887	20.00	20.75	ug/L	4	25	
trans-1,3-Dichloropropene	0.4940	0.4477	20.00	18.13	ug/L	-9	25	
1,1,2-Trichloroethane	0.1851	0.1789	20.00	19.33	ug/L	-3	25	
2-Hexanone	0.3607	0.3418	20.00	18.96	ug/L	-5	25	
1,3-Dichloropropane	0.6368	0.6471	20.00	20.33	ug/L	2	25	
Tetrachloroethene	0.3541	0.3910	20.00	22.08	ug/L	10	25	
Dibromochloromethane	0.4464	0.4326	20.00	19.38	ug/L	-3	25	
1,2-Dibromoethane	0.3735	0.3426	20.00	18.35	ug/L	-8	25	
Chlorobenzene	1.0298	1.0420	20.00	20.24	ug/L	1	25	
1,1,1,2-Tetrachloroethane	0.3713	0.3681	20.00	19.83	ug/L	-1	25	
Ethylbenzene	1.6494	1.9068	20.00	23.12	ug/L	16	25	
m,p-Xylenes	0.6443	0.6820	40.00	42.34	ug/L	6	25	
o-Xylene	0.6413	0.6627	20.00	20.67	ug/L	3	25	
Styrene	1.1387	1.1930	20.00	20.95	ug/L	5	25	
Bromoform	0.3059	0.2899	20.00	18.95	ug/L	-5	25	
Isopropylbenzene	3.4019	3.3727	20.00	19.83	ug/L	-1	25	
1,1,2,2-Tetrachloroethane	1.2502	1.2027	20.00	19.24	ug/L	-4	25	

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
1,2,3-Trichloropropane	0.2938	0.2769	20.00	18.85	ug/L	-6	25	
Propylbenzene	4.1409	4.8640	20.00	23.49	ug/L	17	25	
Bromobenzene	0.9291	0.9691	20.00	20.86	ug/L	4	25	
1,3,5-Trimethylbenzene	2.7366	3.1523	20.00	23.04	ug/L	15	25	
2-Chlorotoluene	2.8091	3.1494	20.00	22.42	ug/L	12	25	
4-Chlorotoluene	2.6135	2.8588	20.00	21.88	ug/L	9	25	
tert-Butylbenzene	2.1794	2.4267	20.00	22.27	ug/L	11	25	
1,2,4-Trimethylbenzene	2.7396	3.0902	20.00	22.56	ug/L	13	25	
sec-Butylbenzene	3.3485	4.2729	20.00	25.52	ug/L	**28**	25	v+ ***
para-Isopropyl Toluene	2.4928	2.9631	20.00	23.77	ug/L	19	25	
1,3-Dichlorobenzene	1.6641	1.7500	20.00	21.03	ug/L	5	25	
1,4-Dichlorobenzene	1.6927	1.7815	20.00	21.05	ug/L	5	25	
n-Butylbenzene	2.2790	2.9745	20.00	26.10	ug/L	**31**	25	v+ ***
1,2-Dichlorobenzene	1.5970	1.6670	20.00	20.88	ug/L	4	25	
1,2-Dibromo-3-Chloropropane	0.1903	0.1653	20.00	19.76	ug/L	-1	25	
1,2,4-Trichlorobenzene	0.7542	0.8954	20.00	23.75	ug/L	19	25	
Hexachlorobutadiene	0.2778	0.3597	20.00	24.18	ug/L	**21**	25	
Naphthalene	1.8478	2.1021	20.00	22.75	ug/L	14	25	
1,2,3-Trichlorobenzene	0.6179	0.7786	20.00	23.22	ug/L	16	25	

+=high bias v=ICV

CURTIS & TOMPKINS SPIKE USER REPORT FOR 208750 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : QC477155 IDF : 1.0
Seqnum : 458517413003.4 File : flo03 Time : 24-DEC-2008 08:21
Cal : 458468482002 Caldate : 20-NOV-2008 Caltype : WATER
Standards: S10935 (10000X), S10844 (10000X), S10798 (10000X), S10985 (10000X), S10715 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.6523	0.5057	25.00	21.34	ug/L	-15	20	0.0500	u
Chloromethane	0.9011	0.8390	25.00	23.28	ug/L	-7	20	0.1000	u
Vinyl Chloride	0.6577	0.7285	25.00	27.69	ug/L	11	20	0.0500	u
Bromomethane	0.2767	0.3137	25.00	28.35	ug/L	13	20	0.0500	u
Chloroethane	0.3533	0.3901	25.00	27.61	ug/L	10	20	0.0500	u
Trichlorofluoromethane	0.7181	0.7115	25.00	26.28	ug/L	5	20	0.0500	u
Iodomethane	0.3604	0.5955	25.00	28.41	ug/L	14	20	0.0500	u v- ***
Acetone	0.3229	0.3126	25.00	24.21	ug/L	-3	20	0.0500	u
1,1-Dichloroethene	0.5342	0.5894	25.00	27.58	ug/L	10	20	0.0500	u
Methylene Chloride	0.7329	0.7807	25.00	26.63	ug/L	7	20	0.0500	u
Carbon Disulfide	2.0736	2.3032	25.00	27.77	ug/L	11	20	0.0500	u
MTBE	1.9089	1.7381	25.00	22.76	ug/L	-9	20	0.0500	u
trans-1,2-Dichloroethene	0.6155	0.6811	25.00	27.67	ug/L	11	20	0.0500	u
Vinyl Acetate	1.3534	1.0701	25.00	19.77	ug/L	**-21**	20	0.0500	c- u v- ***
1,1-Dichloroethane	1.2098	1.2605	25.00	26.05	ug/L	4	20	0.1000	u
2-Butanone	0.4254	0.3966	25.00	23.31	ug/L	-7	20	0.0500	u
cis-1,2-Dichloroethene	0.7100	0.7622	25.00	26.84	ug/L	7	20	0.0500	u
2,2-Dichloropropane	0.6696	0.7874	25.00	29.40	ug/L	18	20	0.0500	u
Chloroform	1.0978	1.1457	25.00	26.09	ug/L	4	20	0.0500	u
Bromochloromethane	0.4218	0.4206	25.00	24.93	ug/L	0	20	0.0500	u
1,1,1-Trichloroethane	0.6692	0.7643	25.00	28.56	ug/L	14	20	0.0500	u
1,1-Dichloropropene	0.4415	0.4957	25.00	28.07	ug/L	12	20	0.0500	u
Carbon Tetrachloride	0.3589	0.4310	25.00	30.02	ug/L	20	20	0.0500	u
1,2-Dichloroethane	0.4747	0.4982	25.00	26.24	ug/L	5	20	0.0500	u
Benzene	1.4989	1.5344	25.00	25.59	ug/L	2	20	0.0500	u
Trichloroethene	0.3658	0.3945	25.00	26.96	ug/L	8	20	0.0500	u
1,2-Dichloropropane	0.4456	0.4384	25.00	24.60	ug/L	-2	20	0.0500	u
Bromodichloromethane	0.4986	0.5379	25.00	26.97	ug/L	8	20	0.0500	u
Dibromomethane	0.2907	0.3220	25.00	27.69	ug/L	11	20	0.0500	u
4-Methyl-2-Pentanone	0.4957	0.4454	25.00	22.46	ug/L	-10	20	0.0500	u
cis-1,3-Dichloropropene	0.6508	0.6637	25.00	25.50	ug/L	2	20	0.0500	u
Toluene	0.8473	0.9099	25.00	26.85	ug/L	7	20	0.0500	u
trans-1,3-Dichloropropene	0.5704	0.5488	25.00	24.05	ug/L	-4	20	0.0500	u
1,1,2-Trichloroethane	0.2089	0.2215	25.00	26.51	ug/L	6	20	0.0500	u
2-Hexanone	0.4156	0.3941	25.00	23.71	ug/L	-5	20	0.0500	u
1,3-Dichloropropane	0.7506	0.7803	25.00	25.99	ug/L	4	20	0.0500	u
Tetrachloroethene	0.4188	0.4642	25.00	27.72	ug/L	11	20	0.0500	u
Dibromochloromethane	0.5668	0.5742	25.00	25.33	ug/L	1	20	0.0500	u
1,2-Dibromoethane	0.4360	0.4614	25.00	26.46	ug/L	6	20	0.0500	u
Chlorobenzene	1.2382	1.2905	25.00	26.06	ug/L	4	20	0.3000	u
1,1,1,2-Tetrachloroethane	0.4469	0.4670	25.00	26.13	ug/L	5	20	0.0500	u
Ethylbenzene	1.7693	1.8872	25.00	26.66	ug/L	7	20	0.0500	u
m,p-Xylenes	0.6799	0.7510	50.00	55.23	ug/L	10	20	0.0500	u
o-Xylene	0.7208	0.7431	25.00	25.77	ug/L	3	20	0.0500	u
Styrene	1.2406	1.3505	25.00	27.22	ug/L	9	20	0.0500	u
Bromoform	0.4043	0.4243	25.00	26.24	ug/L	5	20	0.1000	u
Isopropylbenzene	3.0374	2.9871	25.00	24.59	ug/L	-2	20	0.0500	u

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	1.2619	1.2977	25.00	25.71	ug/L	3	20	0.3000	u
1,2,3-Trichloropropane	0.9814	0.9816	25.00	25.00	ug/L	0	20	0.0500	u
Propylbenzene	3.5323	3.8994	25.00	27.60	ug/L	10	20	0.0500	u
Bromobenzene	1.1030	1.1378	25.00	25.79	ug/L	3	20	0.0500	u
1,3,5-Trimethylbenzene	2.4404	2.5622	25.00	26.25	ug/L	5	20	0.0500	u
2-Chlorotoluene	2.5264	2.5346	25.00	25.08	ug/L	0	20	0.0500	u
4-Chlorotoluene	2.4576	2.5295	25.00	25.73	ug/L	3	20	0.0500	u
tert-Butylbenzene	2.0871	2.2872	25.00	27.40	ug/L	10	20	0.0500	u
1,2,4-Trimethylbenzene	2.5473	2.8777	25.00	28.24	ug/L	13	20	0.0500	u
sec-Butylbenzene	2.8803	3.3790	25.00	29.33	ug/L	17	20	0.0500	u
para-Isopropyl Toluene	2.4577	2.8468	25.00	28.96	ug/L	16	20	0.0500	u
1,3-Dichlorobenzene	1.8598	1.8301	25.00	24.60	ug/L	-2	20	0.0500	u
1,4-Dichlorobenzene	1.9095	1.8652	25.00	24.42	ug/L	-2	20	0.0500	u
n-Butylbenzene	2.0653	2.4703	25.00	29.90	ug/L	20	20	0.0500	u
1,2-Dichlorobenzene	1.7718	1.7610	25.00	24.85	ug/L	-1	20	0.0500	u
1,2-Dibromo-3-Chloropropane	0.1927	0.1734	25.00	22.50	ug/L	-10	20	0.0500	u
1,2,4-Trichlorobenzene	0.9719	0.9731	25.00	25.03	ug/L	0	20	0.0500	u
Hexachlorobutadiene	0.3550	0.4404	25.00	31.02	ug/L	**24**	20	0.0500	c+ u ***
Naphthalene	2.7758	2.6528	25.00	23.89	ug/L	-4	20	0.0500	u
1,2,3-Trichlorobenzene	0.9151	0.9388	25.00	25.65	ug/L	3	20	0.0500	u
Dibromofluoromethane	0.6018	0.6092	50.00	50.62	ug/L	1	20	0.0500	u
1,2-Dichloroethane-d4	0.3170	0.3264	50.00	51.48	ug/L	3	20	0.0500	u
Toluene-d8	1.0007	1.0759	50.00	53.76	ug/L	8	20	0.0500	u
Bromofluorobenzene	0.9921	0.9120	50.00	45.96	ug/L	-8	20	0.0500	u

ISTD (ICAL fkk25)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	811980	998149	22.93	12.82	12.85	0.03
1,4-Difluorobenzene	1320025	1618739	22.63	14.16	14.19	0.03
Chlorobenzene-d5	1182141	1380536	16.78	18.69	18.71	0.03
1,4-Dichlorobenzene-d4	596162	727002	21.95	21.48	21.50	0.02

Analyst: MJM Date: 01/02/09 Reviewer: ACM Date: 01/06/09

+=high bias -=low bias c=CCV u=use v=ICV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208750 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : 25PPB IDF : 1.0
Seqnum : 458517413014.1 File : flo14 Time : 24-DEC-2008 14:35
Cal : 458468482002 Caldate : 20-NOV-2008 Caltype : WATER
Standards: S10715 (1000X), S10935 (10000X), S10844 (10000X), S10798 (10000X), S10985 (10000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.6523	0.4165	25.00	17.81	ug/L	**-29**	20	0.0500	c- ***
Chloromethane	0.9011	0.8275	25.00	22.96	ug/L	-8	20	0.1000	
Vinyl Chloride	0.6577	0.6688	25.00	25.42	ug/L	2	20	0.0500	
Bromomethane	0.2767	0.3462	25.00	31.29	ug/L	**25**	20	0.0500	c+ ***
Chloroethane	0.3533	0.3620	25.00	25.62	ug/L	2	20	0.0500	
Trichlorofluoromethane	0.7181	0.6124	25.00	22.89	ug/L	-8	20	0.0500	
Acetone	0.3229	0.2728	25.00	21.13	ug/L	-15	20	0.0500	
1,1-Dichloroethene	0.5342	0.5648	25.00	26.43	ug/L	6	20	0.0500	
Iodomethane	0.3604	0.5337	25.00	25.96	ug/L	4	20	0.0500	
Methylene Chloride	0.7329	0.7796	25.00	26.59	ug/L	6	20	0.0500	
Carbon Disulfide	2.0736	2.1111	25.00	25.45	ug/L	2	20	0.0500	
MTBE	1.9089	1.6006	25.00	20.96	ug/L	-16	20	0.0500	
trans-1,2-Dichloroethene	0.6155	0.6098	25.00	24.77	ug/L	-1	20	0.0500	
Vinyl Acetate	1.3534	1.0689	25.00	19.74	ug/L	**-21**	20	0.0500	c- ***
1,1-Dichloroethane	1.2098	1.1767	25.00	24.32	ug/L	-3	20	0.1000	
2-Butanone	0.4254	0.3774	25.00	22.18	ug/L	-11	20	0.0500	
2,2-Dichloropropane	0.6696	0.7445	25.00	27.80	ug/L	11	20	0.0500	
cis-1,2-Dichloroethene	0.7100	0.7234	25.00	25.47	ug/L	2	20	0.0500	
Chloroform	1.0978	1.0247	25.00	23.33	ug/L	-7	20	0.0500	
Bromochloromethane	0.4218	0.4128	25.00	24.47	ug/L	-2	20	0.0500	
1,1,1-Trichloroethane	0.6692	0.6993	25.00	26.13	ug/L	5	20	0.0500	
1,1-Dichloropropene	0.4415	0.4643	25.00	26.29	ug/L	5	20	0.0500	
Carbon Tetrachloride	0.3589	0.3788	25.00	26.39	ug/L	6	20	0.0500	
1,2-Dichloroethane	0.4747	0.4529	25.00	23.85	ug/L	-5	20	0.0500	
Benzene	1.4989	1.4770	25.00	24.64	ug/L	-1	20	0.0500	
Trichloroethene	0.3658	0.3628	25.00	24.80	ug/L	-1	20	0.0500	
1,2-Dichloropropane	0.4456	0.4278	25.00	24.00	ug/L	-4	20	0.0500	
Bromodichloromethane	0.4986	0.5091	25.00	25.52	ug/L	2	20	0.0500	
Dibromomethane	0.2907	0.2962	25.00	25.47	ug/L	2	20	0.0500	
4-Methyl-2-Pentanone	0.4957	0.4249	25.00	21.43	ug/L	-14	20	0.0500	
cis-1,3-Dichloropropene	0.6508	0.6260	25.00	24.05	ug/L	-4	20	0.0500	
Toluene	0.8473	0.8102	25.00	23.91	ug/L	-4	20	0.0500	
trans-1,3-Dichloropropene	0.5704	0.4888	25.00	21.42	ug/L	-14	20	0.0500	
1,1,2-Trichloroethane	0.2089	0.2129	25.00	25.48	ug/L	2	20	0.0500	
2-Hexanone	0.4156	0.3583	25.00	21.55	ug/L	-14	20	0.0500	
1,3-Dichloropropane	0.7506	0.7242	25.00	24.12	ug/L	-4	20	0.0500	
Tetrachloroethene	0.4188	0.4014	25.00	23.96	ug/L	-4	20	0.0500	
Dibromochloromethane	0.5668	0.5064	25.00	22.33	ug/L	-11	20	0.0500	
1,2-Dibromoethane	0.4360	0.4348	25.00	24.93	ug/L	0	20	0.0500	
Chlorobenzene	1.2382	1.1063	25.00	22.34	ug/L	-11	20	0.3000	
1,1,1,2-Tetrachloroethane	0.4469	0.4151	25.00	23.22	ug/L	-7	20	0.0500	
Ethylbenzene	1.7693	1.7130	25.00	24.20	ug/L	-3	20	0.0500	
m,p-Xylenes	0.6799	0.6781	50.00	49.87	ug/L	0	20	0.0500	
o-Xylene	0.7208	0.6890	25.00	23.90	ug/L	-4	20	0.0500	
Styrene	1.2406	1.1735	25.00	23.65	ug/L	-5	20	0.0500	
Bromoform	0.4043	0.3794	25.00	23.46	ug/L	-6	20	0.1000	
Isopropylbenzene	3.0374	2.8924	25.00	23.81	ug/L	-5	20	0.0500	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	1.2619	1.2438	25.00	24.64	ug/L	-1	20	0.3000	
1,2,3-Trichloropropane	0.9814	0.9710	25.00	24.73	ug/L	-1	20	0.0500	
Propylbenzene	3.5323	3.6720	25.00	25.99	ug/L	4	20	0.0500	
Bromobenzene	1.1030	1.0770	25.00	24.41	ug/L	-2	20	0.0500	
1,3,5-Trimethylbenzene	2.4404	2.5764	25.00	26.39	ug/L	6	20	0.0500	
2-Chlorotoluene	2.5264	2.5483	25.00	25.22	ug/L	1	20	0.0500	
4-Chlorotoluene	2.4576	2.4568	25.00	24.99	ug/L	0	20	0.0500	
tert-Butylbenzene	2.0871	2.1881	25.00	26.21	ug/L	5	20	0.0500	
1,2,4-Trimethylbenzene	2.5473	2.7069	25.00	26.57	ug/L	6	20	0.0500	
sec-Butylbenzene	2.8803	3.2968	25.00	28.62	ug/L	14	20	0.0500	
para-Isopropyl Toluene	2.4577	2.6133	25.00	26.58	ug/L	6	20	0.0500	
1,3-Dichlorobenzene	1.8598	1.7186	25.00	23.10	ug/L	-8	20	0.0500	
1,4-Dichlorobenzene	1.9095	1.8358	25.00	24.04	ug/L	-4	20	0.0500	
n-Butylbenzene	2.0653	2.2864	25.00	27.68	ug/L	11	20	0.0500	
1,2-Dichlorobenzene	1.7718	1.6514	25.00	23.30	ug/L	-7	20	0.0500	
1,2-Dibromo-3-Chloropropane	0.1927	0.1628	25.00	21.13	ug/L	-15	20	0.0500	
1,2,4-Trichlorobenzene	0.9719	0.9544	25.00	24.55	ug/L	-2	20	0.0500	
Hexachlorobutadiene	0.3550	0.4111	25.00	28.96	ug/L	16	20	0.0500	
Naphthalene	2.7758	2.6176	25.00	23.58	ug/L	-6	20	0.0500	
1,2,3-Trichlorobenzene	0.9151	0.9069	25.00	24.78	ug/L	-1	20	0.0500	
Dibromofluoromethane	0.6018	0.5971	50.00	49.61	ug/L	-1	20	0.0500	
1,2-Dichloroethane-d4	0.3170	0.3074	50.00	48.49	ug/L	-3	20	0.0500	
Toluene-d8	1.0007	0.9997	50.00	49.95	ug/L	0	20	0.0500	
Bromofluorobenzene	0.9921	0.9713	50.00	48.95	ug/L	-2	20	0.0500	

ISTD (ICAL fkk25)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	811980	1035503	27.53	12.82	12.85	0.03
1,4-Difluorobenzene	1320025	1722302	30.47	14.16	14.19	0.03
Chlorobenzene-d5	1182141	1510186	27.75	18.69	18.71	0.03
1,4-Dichlorobenzene-d4	596162	727475	22.03	21.48	21.50	0.02

Analyst: MJM Date: 01/02/09 Reviewer: ACM Date: 01/06/09

+=high bias -=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208750 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : 20PPB IDF : 1.0
Seqnum : 488526075004.1 File : ilu04 Time : 30-DEC-2008 10:17
Cal : 488459048001 Caldate : 14-NOV-2008 Caltype : WATER
Standards: S10928 (25000X), S10865 (25000X), S10946 (25000X), S10716 (2500X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.6623	0.8069	20.00	21.45	ug/L	7	20	0.0500	
Chloromethane	0.9273	1.1794	20.00	25.44	ug/L	**27**	20	0.1000	c+ ***
Vinyl Chloride	0.7666	0.9009	20.00	23.51	ug/L	18	20	0.0500	
Bromomethane	0.3769	0.4579	20.00	24.30	ug/L	**21**	20	0.0500	c+ ***
Chloroethane	0.4639	0.5446	20.00	23.48	ug/L	17	20	0.0500	
Trichlorofluoromethane	0.7253	0.8472	20.00	23.36	ug/L	17	20	0.0500	
Acetone	0.2244	0.2269	20.00	20.22	ug/L	1	20	0.0500	
1,1-Dichloroethene	0.4780	0.5312	20.00	22.22	ug/L	11	20	0.0500	
Iodomethane	0.4973	0.3442	20.00	12.38	ug/L	**-38**	20	0.0500	c- ***
Methylene Chloride	0.6176	0.7580	20.00	24.54	ug/L	**23**	20	0.0500	c+ ***
Carbon Disulfide	1.9994	2.4230	20.00	24.24	ug/L	**21**	20	0.0500	c+ ***
MTBE	1.5321	1.6271	20.00	21.24	ug/L	6	20	0.0500	
trans-1,2-Dichloroethene	0.5732	0.6326	20.00	22.07	ug/L	10	20	0.0500	
Vinyl Acetate	1.2154	1.5892	20.00	26.15	ug/L	**31**	20	0.0500	c+ ***
1,1-Dichloroethane	1.0405	1.2366	20.00	23.77	ug/L	19	20	0.1000	
2-Butanone	0.3473	0.3421	20.00	19.70	ug/L	-1	20	0.0500	
2,2-Dichloropropane	0.5910	0.7896	20.00	26.72	ug/L	**34**	20	0.0500	c+ ***
cis-1,2-Dichloroethene	0.6411	0.7179	20.00	22.40	ug/L	12	20	0.0500	
Chloroform	0.9580	1.1189	20.00	23.36	ug/L	17	20	0.0500	
Bromochloromethane	0.3256	0.3513	20.00	21.57	ug/L	8	20	0.0500	
1,1,1-Trichloroethane	0.6584	0.7502	20.00	22.79	ug/L	14	20	0.0500	
1,1-Dichloropropene	0.4255	0.4258	20.00	20.01	ug/L	0	20	0.0500	
Carbon Tetrachloride	0.3208	0.3371	20.00	21.02	ug/L	5	20	0.0500	
1,2-Dichloroethane	0.3872	0.4467	20.00	23.08	ug/L	15	20	0.0500	
Benzene	1.2750	1.4535	20.00	22.80	ug/L	14	20	0.0500	
Trichloroethene	0.3472	0.3624	20.00	20.88	ug/L	4	20	0.0500	
1,2-Dichloropropane	0.4088	0.4190	20.00	20.49	ug/L	2	20	0.0500	
Bromodichloromethane	0.4525	0.5004	20.00	22.12	ug/L	11	20	0.0500	
Dibromomethane	0.2667	0.2757	20.00	20.68	ug/L	3	20	0.0500	
4-Methyl-2-Pentanone	0.4130	0.3690	20.00	17.87	ug/L	-11	20	0.0500	
cis-1,3-Dichloropropene	0.5721	0.6357	20.00	22.22	ug/L	11	20	0.0500	
Toluene	0.7601	0.8215	20.00	21.62	ug/L	8	20	0.0500	
trans-1,3-Dichloropropene	0.4940	0.5493	20.00	22.24	ug/L	11	20	0.0500	
1,1,2-Trichloroethane	0.1851	0.1919	20.00	20.73	ug/L	4	20	0.0500	
2-Hexanone	0.3607	0.3158	20.00	17.51	ug/L	-12	20	0.0500	
1,3-Dichloropropane	0.6368	0.6247	20.00	19.62	ug/L	-2	20	0.0500	
Tetrachloroethene	0.3541	0.3241	20.00	18.31	ug/L	-8	20	0.0500	
Dibromochloromethane	0.4464	0.4138	20.00	18.54	ug/L	-7	20	0.0500	
1,2-Dibromoethane	0.3735	0.3743	20.00	20.05	ug/L	0	20	0.0500	
Chlorobenzene	1.0298	1.0572	20.00	20.53	ug/L	3	20	0.3000	
1,1,1,2-Tetrachloroethane	0.3713	0.3542	20.00	19.08	ug/L	-5	20	0.0500	
Ethylbenzene	1.6494	1.6349	20.00	19.82	ug/L	-1	20	0.0500	
m,p-Xylenes	0.6443	0.6532	40.00	40.55	ug/L	1	20	0.0500	
o-Xylene	0.6413	0.6278	20.00	19.58	ug/L	-2	20	0.0500	
Styrene	1.1387	1.1322	20.00	19.88	ug/L	-1	20	0.0500	
Bromoform	0.3059	0.2858	20.00	18.68	ug/L	-7	20	0.1000	
Isopropylbenzene	3.4019	3.4512	20.00	20.29	ug/L	1	20	0.0500	
1,1,2,2-Tetrachloroethane	1.2502	1.2290	20.00	19.66	ug/L	-2	20	0.3000	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	0.2938	0.2753	20.00	18.74	ug/L	-6	20	0.0500	
Propylbenzene	4.1409	4.2161	20.00	20.36	ug/L	2	20	0.0500	
Bromobenzene	0.9291	0.9889	20.00	21.29	ug/L	6	20	0.0500	
1,3,5-Trimethylbenzene	2.7366	2.8035	20.00	20.49	ug/L	2	20	0.0500	
2-Chlorotoluene	2.8091	2.9732	20.00	21.17	ug/L	6	20	0.0500	
4-Chlorotoluene	2.6135	2.8694	20.00	21.96	ug/L	10	20	0.0500	
tert-Butylbenzene	2.1794	2.0898	20.00	19.18	ug/L	-4	20	0.0500	
1,2,4-Trimethylbenzene	2.7396	2.9768	20.00	21.73	ug/L	9	20	0.0500	
sec-Butylbenzene	3.3485	2.9967	20.00	17.90	ug/L	-11	20	0.0500	
para-Isopropyl Toluene	2.4928	2.3998	20.00	19.25	ug/L	-4	20	0.0500	
1,3-Dichlorobenzene	1.6641	1.6964	20.00	20.39	ug/L	2	20	0.0500	
1,4-Dichlorobenzene	1.6927	1.7706	20.00	20.92	ug/L	5	20	0.0500	
n-Butylbenzene	2.2790	2.1207	20.00	18.61	ug/L	-7	20	0.0500	
1,2-Dichlorobenzene	1.5970	1.6184	20.00	20.27	ug/L	1	20	0.0500	
1,2-Dibromo-3-Chloropropane	0.1903	0.1525	20.00	18.19	ug/L	-9	20	0.0500	
1,2,4-Trichlorobenzene	0.7542	0.7997	20.00	21.21	ug/L	6	20	0.0500	
Hexachlorobutadiene	0.2778	0.2679	20.00	18.43	ug/L	-8	20	0.0500	
Naphthalene	1.8478	1.8728	20.00	20.27	ug/L	1	20	0.0500	
1,2,3-Trichlorobenzene	0.6179	0.6513	20.00	19.75	ug/L	-1	20	0.0500	
Dibromofluoromethane	0.6183	0.6629	50.00	53.60	ug/L	7	20	0.0500	
1,2-Dichloroethane-d4	0.3106	0.3603	50.00	58.01	ug/L	16	20	0.0500	
Toluene-d8	1.0456	1.1224	50.00	53.67	ug/L	7	20	0.0500	
Bromofluorobenzene	1.1554	1.2024	50.00	52.03	ug/L	4	20	0.0500	

ISTD (ICAL ikd11)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1590134	1350056	-15.10	12.31	12.29	-0.02
1,4-Difluorobenzene	2647738	2344859	-11.44	13.59	13.57	-0.02
Chlorobenzene-d5	2147098	2142984	-0.19	17.62	17.61	-0.01
1,4-Dichlorobenzene-d4	974346	927981	-4.76	20.13	20.12	-0.01

Analyst: MJM Date: 01/02/09 Reviewer: ACM Date: 01/06/09

+=high bias -=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208750 MSVOA Water
EPA 8260B

Inst : MSVOA09 Run Name : 20PPB IDF : 1.0
Seqnum : 488526075008.1 File : ilu08 Time : 30-DEC-2008 12:28
Cal : 488459048001 Caldate : 14-NOV-2008 Caltype : WATER
Standards: S10928 (25000X), S10865 (25000X), S11037 (25000X), S10716 (2500X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.6623	0.8265	20.00	21.97	ug/L	10	20	0.0500	
Chloromethane	0.9273	1.0770	20.00	23.23	ug/L	16	20	0.1000	
Vinyl Chloride	0.7666	0.8518	20.00	22.22	ug/L	11	20	0.0500	
Bromomethane	0.3769	0.4462	20.00	23.68	ug/L	18	20	0.0500	
Chloroethane	0.4639	0.5002	20.00	21.56	ug/L	8	20	0.0500	
Trichlorofluoromethane	0.7253	0.8623	20.00	23.78	ug/L	19	20	0.0500	
Acetone	0.2244	0.2239	20.00	19.95	ug/L	0	20	0.0500	
1,1-Dichloroethene	0.4780	0.5252	20.00	21.97	ug/L	10	20	0.0500	
Iodomethane	0.4973	0.5560	20.00	18.53	ug/L	-7	20	0.0500	
Methylene Chloride	0.6176	0.6783	20.00	21.96	ug/L	10	20	0.0500	
Carbon Disulfide	1.9994	2.3011	20.00	23.02	ug/L	15	20	0.0500	
MTBE	1.5321	1.4581	20.00	19.03	ug/L	-5	20	0.0500	
trans-1,2-Dichloroethene	0.5732	0.6105	20.00	21.30	ug/L	7	20	0.0500	
Vinyl Acetate	1.2154	1.4453	20.00	23.78	ug/L	19	20	0.0500	
1,1-Dichloroethane	1.0405	1.1054	20.00	21.25	ug/L	6	20	0.1000	
2-Butanone	0.3473	0.3211	20.00	18.50	ug/L	-8	20	0.0500	
2,2-Dichloropropane	0.5910	0.7295	20.00	24.69	ug/L	**23**	20	0.0500	c+ ***
cis-1,2-Dichloroethene	0.6411	0.6542	20.00	20.41	ug/L	2	20	0.0500	
Chloroform	0.9580	1.0195	20.00	21.28	ug/L	6	20	0.0500	
Bromochloromethane	0.3256	0.3197	20.00	19.64	ug/L	-2	20	0.0500	
1,1,1-Trichloroethane	0.6584	0.6873	20.00	20.88	ug/L	4	20	0.0500	
1,1-Dichloropropene	0.4255	0.4387	20.00	20.62	ug/L	3	20	0.0500	
Carbon Tetrachloride	0.3208	0.3460	20.00	21.57	ug/L	8	20	0.0500	
1,2-Dichloroethane	0.3872	0.4199	20.00	21.69	ug/L	8	20	0.0500	
Benzene	1.2750	1.3365	20.00	20.96	ug/L	5	20	0.0500	
Trichloroethene	0.3472	0.3447	20.00	19.86	ug/L	-1	20	0.0500	
1,2-Dichloropropane	0.4088	0.4103	20.00	20.07	ug/L	0	20	0.0500	
Bromodichloromethane	0.4525	0.4820	20.00	21.31	ug/L	7	20	0.0500	
Dibromomethane	0.2667	0.2631	20.00	19.73	ug/L	-1	20	0.0500	
4-Methyl-2-Pentanone	0.4130	0.3756	20.00	18.19	ug/L	-9	20	0.0500	
cis-1,3-Dichloropropene	0.5721	0.5994	20.00	20.96	ug/L	5	20	0.0500	
Toluene	0.7601	0.7637	20.00	20.09	ug/L	0	20	0.0500	
trans-1,3-Dichloropropene	0.4940	0.5091	20.00	20.61	ug/L	3	20	0.0500	
1,1,2-Trichloroethane	0.1851	0.1832	20.00	19.80	ug/L	-1	20	0.0500	
2-Hexanone	0.3607	0.3180	20.00	17.63	ug/L	-12	20	0.0500	
1,3-Dichloropropane	0.6368	0.6182	20.00	19.42	ug/L	-3	20	0.0500	
Tetrachloroethene	0.3541	0.3477	20.00	19.64	ug/L	-2	20	0.0500	
Dibromochloromethane	0.4464	0.4342	20.00	19.45	ug/L	-3	20	0.0500	
1,2-Dibromoethane	0.3735	0.3637	20.00	19.48	ug/L	-3	20	0.0500	
Chlorobenzene	1.0298	1.0504	20.00	20.40	ug/L	2	20	0.3000	
1,1,1,2-Tetrachloroethane	0.3713	0.3548	20.00	19.11	ug/L	-4	20	0.0500	
Ethylbenzene	1.6494	1.6181	20.00	19.62	ug/L	-2	20	0.0500	
m,p-Xylenes	0.6443	0.6106	40.00	37.91	ug/L	-5	20	0.0500	
o-Xylene	0.6413	0.6112	20.00	19.06	ug/L	-5	20	0.0500	
Styrene	1.1387	1.1014	20.00	19.34	ug/L	-3	20	0.0500	
Bromoform	0.3059	0.2960	20.00	19.35	ug/L	-3	20	0.1000	
Isopropylbenzene	3.4019	3.1447	20.00	18.49	ug/L	-8	20	0.0500	
1,1,2,2-Tetrachloroethane	1.2502	1.1596	20.00	18.55	ug/L	-7	20	0.3000	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,2,3-Trichloropropane	0.2938	0.2695	20.00	18.35	ug/L	-8	20	0.0500	
Propylbenzene	4.1409	4.0167	20.00	19.40	ug/L	-3	20	0.0500	
Bromobenzene	0.9291	0.9616	20.00	20.70	ug/L	3	20	0.0500	
1,3,5-Trimethylbenzene	2.7366	2.5354	20.00	18.53	ug/L	-7	20	0.0500	
2-Chlorotoluene	2.8091	2.6826	20.00	19.10	ug/L	-5	20	0.0500	
4-Chlorotoluene	2.6135	2.5801	20.00	19.74	ug/L	-1	20	0.0500	
tert-Butylbenzene	2.1794	1.9018	20.00	17.45	ug/L	-13	20	0.0500	
1,2,4-Trimethylbenzene	2.7396	2.5376	20.00	18.53	ug/L	-7	20	0.0500	
sec-Butylbenzene	3.3485	2.9605	20.00	17.68	ug/L	-12	20	0.0500	
para-Isopropyl Toluene	2.4928	2.3479	20.00	18.84	ug/L	-6	20	0.0500	
1,3-Dichlorobenzene	1.6641	1.5964	20.00	19.19	ug/L	-4	20	0.0500	
1,4-Dichlorobenzene	1.6927	1.6116	20.00	19.04	ug/L	-5	20	0.0500	
n-Butylbenzene	2.2790	2.2254	20.00	19.53	ug/L	-2	20	0.0500	
1,2-Dichlorobenzene	1.5970	1.5133	20.00	18.95	ug/L	-5	20	0.0500	
1,2-Dibromo-3-Chloropropane	0.1903	0.1555	20.00	18.56	ug/L	-7	20	0.0500	
1,2,4-Trichlorobenzene	0.7542	0.7678	20.00	20.36	ug/L	2	20	0.0500	
Hexachlorobutadiene	0.2778	0.3548	20.00	23.87	ug/L	19	20	0.0500	
Naphthalene	1.8478	1.6822	20.00	18.21	ug/L	-9	20	0.0500	
1,2,3-Trichlorobenzene	0.6179	0.6380	20.00	19.38	ug/L	-3	20	0.0500	
Dibromofluoromethane	0.6183	0.6200	50.00	50.14	ug/L	0	20	0.0500	
1,2-Dichloroethane-d4	0.3106	0.3329	50.00	53.59	ug/L	7	20	0.0500	
Toluene-d8	1.0456	1.0730	50.00	51.31	ug/L	3	20	0.0500	
Bromofluorobenzene	1.1554	1.1737	50.00	50.79	ug/L	2	20	0.0500	

ISTD (ICAL ikd11)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	1590134	1535032	-3.47	12.31	12.29	-0.02
1,4-Difluorobenzene	2647738	2568405	-3.00	13.59	13.57	-0.02
Chlorobenzene-d5	2147098	2196179	2.29	17.62	17.61	-0.01
1,4-Dichlorobenzene-d4	974346	985069	1.10	20.13	20.13	0.00

Analyst: MJM Date: 01/02/09 Reviewer: ACM Date: 01/06/09

+=high bias c=CCV

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 458517413

Date : 12/24/08 Reference : fkk25
Sequence : MSVOA06 flo Analyzed : 11/20/08 22:19

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	811980	12.82	1320025	14.16	1182141	18.69	596162	21.48
		LOWER LIMIT	405990	12.32	660013	13.66	591071	18.19	298081	20.98
		UPPER LIMIT	1623960	13.32	2640050	14.66	2364282	19.19	1192324	21.98
003	CCV/LCS	QC477155	998149	12.85	1618739	14.19	1380536	18.71	727002	21.50
005	BLANK	QC477156	945059	12.85	1591547	14.19	1384347	18.70	674258	21.50
006	SAMPLE	208749-001	932807	12.85	1641488	14.19	1357717	18.70	669786	21.50
007	MSS	208749-002	938365	12.85	1601558	14.19	1341060	18.70	664419	21.50
008	MS	QC477174	924449	12.85	1595839	14.18	1337606	18.70	656015	21.50
009	MSD	QC477175	959906	12.84	1655215	14.18	1421764	18.71	681636	21.49
014	CCV	25PPB	1035503	12.85	1722302	14.19	1510186	18.71	727475	21.50
016	BLANK	QC477157	956596	12.85	1644835	14.19	1412908	18.71	675995	21.50
017	SAMPLE	208750-001	991749	12.85	1732733	14.19	1414933	18.71	704360	21.50
018	SAMPLE	208749-003	1007230	12.85	1698631	14.20	1462686	18.71	701984	21.50
019	SAMPLE	208749-004	930098	12.85	1643306	14.19	1386032	18.71	695807	21.50
020	SAMPLE	208749-005	941965	12.85	1556324	14.19	1300577	18.71	700786	21.50
021	SAMPLE	208749-006	915049	12.85	1544546	14.19	1229464	18.71	658699	21.50
022	SAMPLE	208749-007	883091	12.85	1486947	14.19	1228817	18.71	656718	21.50
023	SAMPLE	208749-008	887857	12.85	1564519	14.19	1311971	18.71	654978	21.50
024	SAMPLE	208749-009	845442	12.87	1381037	14.21	1208858	18.73	609909	21.52
025	SAMPLE	208750-002	888988	12.85	1486957	14.19	1223106	18.70	657557	21.50
026	SAMPLE	208750-003	879295	12.86	1429979	14.20	1244651	18.71	646088	21.51
027	SAMPLE	208750-004	877735	12.86	1432484	14.20	1233579	18.71	629009	21.51
028	SAMPLE	208750-005	889669	12.85	1446595	14.19	1245468	18.72	635489	21.50
029	SAMPLE	208750-007	888235	12.86	1463766	14.20	1279753	18.71	628321	21.51
030	SAMPLE	208702-004	889354	12.86	1506746	14.20	1268039	18.71	643336	21.51
031	SAMPLE	208702-005	913515	12.86	1508612	14.20	1320707	18.71	657252	21.51
032	SAMPLE	208742-001	968068	12.86	1648061	14.20	1379752	18.71	687764	21.51
033	SAMPLE	208742-002	982038	12.86	1683578	14.20	1431544	18.72	673337	21.51
034	SAMPLE	208750-006	1001443	12.85	1658752	14.20	1418306	18.72	699410	21.50

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 488526075

Date : 12/30/08 Reference : ikd11
Sequence : MSVOA09 ilu Analyzed : 11/14/08 03:56

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	1590134	12.31	2647738	13.59	2147098	17.62	974346	20.13
		LOWER LIMIT	795067	11.81	1323869	13.09	1073549	17.12	487173	19.63
		UPPER LIMIT	3180268	12.81	5295476	14.09	4294196	18.12	1948692	20.63
004	CCV	20PPB	1350056	12.29	2344859	13.57	2142984	17.61	927981	20.12
005	BS	QC477555	1492739	12.29	2503584	13.57	2162445	17.61	984238	20.12
006	BSD	QC477556	1449396	12.29	2428490	13.57	2131395	17.61	967548	20.12
008	CCV	20PPB	1535032	12.29	2568405	13.57	2196179	17.61	985069	20.13
010	BLANK	QC477557	1525815	12.30	2604383	13.58	2120787	17.61	919223	20.12
011	SAMPLE	208750-006	1519968	12.30	2553262	13.58	2158905	17.62	991922	20.13
012	SAMPLE	208744-012	1498597	12.30	2528681	13.58	2210421	17.62	989091	20.13
013	SAMPLE	208829-002	1538641	12.31	2551172	13.58	2217259	17.62	943379	20.12
014	SAMPLE	208829-003	1401640	12.30	2450575	13.58	2145888	17.61	920010	20.12
015	SAMPLE	208837-017	1419323	12.31	2443245	13.58	2097356	17.62	883619	20.12
016	SAMPLE	208837-018	1520917	12.30	2546874	13.58	2175329	17.61	930829	20.13
017	SAMPLE	208837-019	1481221	12.31	2524390	13.58	2223859	17.62	926406	20.12
018	SAMPLE	208837-020	1515298	12.31	2527770	13.58	2192374	17.62	945398	20.12
019	SAMPLE	208837-021	1473659	12.31	2417302	13.58	2110035	17.61	904054	20.12
020	SAMPLE	208837-022	1440468	12.30	2490832	13.57	2131256	17.62	921237	20.13
021	SAMPLE	208837-023	1457320	12.30	2509681	13.58	2162077	17.61	905435	20.13
022	SAMPLE	208837-024	1395618	12.30	2414825	13.57	2126784	17.61	916063	20.12
023	SAMPLE	208839-001	1431069	12.30	2429166	13.57	2107170	17.62	912642	20.12
024	SAMPLE	208839-003	1418524	12.30	2442142	13.57	2105396	17.61	921062	20.12
025	SAMPLE	208839-005	1427640	12.30	2386180	13.58	2067744	17.61	925800	20.12
026	SAMPLE	208839-006	1430377	12.30	2414815	13.58	2159617	17.61	904379	20.12
027	SAMPLE	208839-004	1497267	12.29	2431826	13.57	2144005	17.60	948509	20.12
028	SAMPLE	208839-002	1484510	12.29	2441079	13.57	2082968	17.61	916159	20.12

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 458468482

Instrument : MSVOA06 Begun : 11/20/08 08:02
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	fkk01	X	IB			11/20/08 08:02	1.0	1	
002	fkk02	X	BFB			11/20/08 08:57	1.0	2	
003	fkk03	X	20PPB			11/20/08 09:14	1.0	3 4 5 6 1	
004	fkk04	X	BFB			11/20/08 10:48	1.0	2	
005	fkk05	X	20PPB			11/20/08 11:04	1.0	3 4 5 6 1	
006	fkk06	X	BFB			11/20/08 11:44	1.0	2	
007	fkk07	X	BFB			11/20/08 11:56	1.0	2	
008	fkk08	X	20PPB			11/20/08 12:13	1.0	3 4 5 6 1	
009	fkk09	X	BFB			11/20/08 13:19	1.0	2	
010	fkk10	X	20PPB			11/20/08 13:36	1.0	3 4 5 6 1	
011	fkk11	X	IB			11/20/08 14:29	1.0	1	
012	fkk12	X	IB			11/20/08 15:03	1.0	1	
013	fkk13	X	LOW PT			11/20/08 15:37	1.0	1	
014	fkk14	TUN	BFB			11/20/08 16:09	1.0	2	
015	fkk15	X	IB			11/20/08 16:38	1.0	1	
016	fkk16	X	IB			11/20/08 17:12	1.0	1	
017	fkk17	X	IB			11/20/08 17:46	1.0	1	
018	fkk18	IB	CALIB			11/20/08 18:20	1.0	1	
019	fkk19	ICAL	0.25PPB			11/20/08 18:54	1.0	3 4 7 6 1	
020	fkk20	ICAL	0.5PPB			11/20/08 19:28	1.0	3 4 7 6 1	
021	fkk21	ICAL	2PPB			11/20/08 20:02	1.0	3 4 7 6 1	
022	fkk22	ICAL	5PPB			11/20/08 20:36	1.0	3 4 7 6 1	
023	fkk23	ICAL	10PPB			11/20/08 21:11	1.0	3 4 7 6 1	
024	fkk24	ICAL	20PPB			11/20/08 21:45	1.0	3 4 7 6 1	
025	fkk25	ICAL	50PPB			11/20/08 22:19	1.0	3 4 7 6 1	
026	fkk26	ICAL	75PPB			11/20/08 22:53	1.0	3 4 7 6 1	
027	fkk27	ICAL	100PPB			11/20/08 23:28	1.0	3 4 7 6 1	
028	fkk28	ICV	ICVGAS25PPB			11/21/08 00:02	1.0	8 1	
029	fkk29	ICV	ICV25PPB			11/21/08 00:36	1.0	9 10 11 1	
030	fkk30	X	IB			11/21/08 01:10	1.0	1	
031	fkk31	X	IB			11/21/08 01:45	1.0	1	
032	fkk32	X	IB			11/21/08 02:19	1.0	1	

BO 11/21/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 32.

BO 11/21/08 : fkk14, maximum sensitivity autotune

Analyst: BO Date: 11/21/08 Reviewer: ACM Date: 11/21/08

Standards used: 1=S10447 2=S9454 3=S10756 4=S10619 5=S10355 6=S9073 7=S10653 8=S10631 9=S10654 10=S10798 11=S10788

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CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 458517413

Instrument : MSVOA06 Begun : 12/24/08 07:33
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	flo01	X	IB			12/24/08 07:33	1.0	1	
002	flo02	TUN	BFB			12/24/08 08:04	1.0	2	
003	flo03	CCV/LCS	QC477155	Water	146419	12/24/08 08:21	1.0	3 4 5 6 1	
004	flo04	X	IB			12/24/08 09:12	1.0	1	
005	flo05	BLANK	QC477156	Water	146419	12/24/08 09:46	1.0	1	
006	flo06	SAMPLE	208749-001	Water	146419	12/24/08 10:20	1.0	1	
007	flo07	MSS	208749-002	Water	146419	12/24/08 10:54	1.0	1	
008	flo08	MS	QC477174	Water	146419	12/24/08 11:29	1.0	1 3 4 5 6	
009	flo09	MSD	QC477175	Water	146419	12/24/08 12:03	1.0	1 3 4 5 6	
010	flo10	X	IB			12/24/08 12:37	1.0	1	
011	flo11	X	BFB			12/24/08 13:18	1.0	2	
012	flo12	X	25PPB			12/24/08 13:34	1.0	1 3 4 5 6	
013	flo13	TUN	BFB			12/24/08 14:18	1.0	2	
014	flo14	CCV	25PPB			12/24/08 14:35	1.0	1 3 4 5 6	
015	flo15	X	IB			12/24/08 15:10	1.0	1	
016	flo16	BLANK	QC477157	Water	146419	12/24/08 15:44	1.0	1	
017	flo17	SAMPLE	208750-001	Water	146419	12/24/08 16:17	1.0	1	
018	flo18	SAMPLE	208749-003	Water	146419	12/24/08 16:52	1.0	1	
019	flo19	SAMPLE	208749-004	Water	146419	12/24/08 17:26	1.0	1	
020	flo20	SAMPLE	208749-005	Water	146419	12/24/08 18:00	1.0	1	
021	flo21	SAMPLE	208749-006	Water	146419	12/24/08 18:34	1.0	1	
022	flo22	SAMPLE	208749-007	Water	146419	12/24/08 19:09	1.0	1	
023	flo23	SAMPLE	208749-008	Water	146419	12/24/08 19:43	1.0	1	2:MTBE=170
024	flo24	SAMPLE	208749-009	Water	146419	12/24/08 20:17	1.0	1	
025	flo25	SAMPLE	208750-002	Water	146419	12/24/08 20:51	1.0	1	
026	flo26	SAMPLE	208750-003	Water	146419	12/24/08 21:26	1.0	1	
027	flo27	SAMPLE	208750-004	Water	146419	12/24/08 22:00	1.0	1	
028	flo28	SAMPLE	208750-005	Water	146419	12/24/08 22:35	1.0	1	
029	flo29	SAMPLE	208750-007	Water	146419	12/24/08 23:09	1.0	1	
030	flo30	SAMPLE	208702-004	Water	146419	12/24/08 23:44	1.0	1	
031	flo31	SAMPLE	208702-005	Water	146419	12/25/08 00:18	1.0	1	
032	flo32	SAMPLE	208742-001	Water	146419	12/25/08 00:52	1.0	1	
033	flo33	SAMPLE	208742-002	Water	146419	12/25/08 01:27	1.0	1	
034	flo34	SAMPLE	208750-006	Water	146419	12/25/08 02:01	3.333	1	1:BZ=110
035	flo35	X	IB			12/25/08 02:35	1.0	1	
036	flo36	X	IB			12/25/08 03:10	1.0	1	
037	flo37	X	IB			12/25/08 03:44	1.0	1	

BO 12/29/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 37.

Analyst: BO Date: 12/29/08 Reviewer: ACM Date: 12/29/08

Standards used: 1=S10715 2=S10902 3=S10935 4=S10844 5=S10798 6=S10985

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CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 488459048

Instrument : MSVOA09 Begun : 11/13/08 18:48
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	ikd01	X	IB			11/13/08 18:48	1.0	1	
002	ikd02	TUN	BFB			11/13/08 22:57	1.0	2	
003	ikd03	X	IB			11/13/08 23:26	1.0	1	
004	ikd04	IB	CALIB			11/13/08 23:59	1.0	1	
005	ikd05	X				11/14/08 00:33	1.0	3 4 5 6 1	
006	ikd06	ICAL				11/14/08 01:07	1.0	3 4 5 6 1	
007	ikd07	ICAL				11/14/08 01:40	1.0	3 4 5 6 1	
008	ikd08	ICAL				11/14/08 02:15	1.0	3 4 5 6 1	
009	ikd09	ICAL				11/14/08 02:48	1.0	3 4 5 6 1	
010	ikd10	ICAL				11/14/08 03:22	1.0	3 4 5 6 1	
011	ikd11	ICAL				11/14/08 03:56	1.0	3 4 5 6 1	
012	ikd12	ICAL				11/14/08 04:30	1.0	3 4 5 6 1	
013	ikd13	ICAL				11/14/08 05:04	1.0	3 4 5 6 1	
014	ikd14	X	25PPB			11/14/08 05:37	1.0	7 1	
015	ikd15	X	25PPB			11/14/08 06:11	1.0	8 9 10 1	
016	ikd16	X	IB			11/14/08 06:45	1.0	1	
017	ikd17	X	IB			11/14/08 07:19	1.0	1	
018	ikd18	X	IB			11/14/08 07:53	1.0	1	
019	ikd19	ICAL				11/14/08 10:45	1.0	3 4 5 6 1	

MJM 11/14/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 001 through 019.

Analyst: MJM Date: 11/14/08 Reviewer: ACM Date: 11/14/08

Standards used: 1=S10716 2=S9454 3=S10756 4=S10355 5=S9073 6=S10619 7=S10631 8=S10654 9=S10533 10=S10601

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CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 488459956

Instrument : MSVOA09 Begun : 11/14/08 09:56
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	ike01	X	IB			11/14/08 09:56	1.0	1	
002	ike02	TUN	BFB			11/14/08 11:50	1.0	2	
003	ike03	CCV	20PPB			11/14/08 12:09	1.0	3 4 5 1	
004	ike04	ICV/BS	QC470682	Water	144928	11/14/08 13:57	1.0	6 7 8 9 1	
005	ike05	BSD	QC470683	Water	144928	11/14/08 14:31	1.0	6 7 8 9 1	
006	ike06	TUN	BFB			11/14/08 15:01	1.0	2	
007	ike07	TUN	BFB			11/14/08 15:16	1.0	2	
008	ike08	CCV	20PPB			11/14/08 15:39	1.0	3 4 5 1	
009	ike09	X	IB			11/14/08 16:15	1.0	1	
010	ike10	BLANK	QC470684	Water	144928	11/14/08 16:50	1.0	1	
011	ike11	SAMPLE	207430-007	Water	144928	11/14/08 17:25	500.0	1	pH > 2
012	ike12	SAMPLE	207489-003	Water	144928	11/14/08 18:01	2.0	1	
013	ike13	SAMPLE	207489-004	Water	144928	11/14/08 18:35	4000	1	
014	ike14	SAMPLE	207489-005	Water	144928	11/14/08 19:09	5.0	1	
015	ike15	SAMPLE	207489-001	Water	144928	11/14/08 19:43	50.0	1	headspace <= 1 mL
016	ike16	SAMPLE	207492-001	Water	144928	11/14/08 20:16	1.0	1	
017	ike17	SAMPLE	207551-009	Water	144928	11/14/08 20:50	1.0	1	
018	ike18	SAMPLE	207551-010	Water	144928	11/14/08 21:24	1.0	1	
019	ike19	SAMPLE	207553-005	Water	144928	11/14/08 22:00	2.0	1	
020	ike20	SAMPLE	207553-002	Water	144928	11/14/08 22:35	3.333	1	
021	ike21	SAMPLE	207553-009	Water	144928	11/14/08 23:09	5.0	1	1:TCE=110
022	ike22	SAMPLE	207553-003	Water	144928	11/14/08 23:42	7.143	1	
023	ike23	SAMPLE	207553-004	Water	144928	11/15/08 00:17	16.67	1	
024	ike24	SAMPLE	207553-010	Water	144928	11/15/08 00:53	12.50	1	
025	ike25	SAMPLE	207553-007	Water	144928	11/15/08 01:28	20.0	1	
026	ike26	SAMPLE	207553-008	Water	144928	11/15/08 02:03	40.0	1	
027	ike27	SAMPLE	207553-001	Water	144928	11/15/08 02:37	50.0	1	
028	ike28	SAMPLE	207553-011	Water	144928	11/15/08 03:12	50.0	1	
029	ike29	X	IB			11/15/08 03:46	1.0	1	
030	ike30	X	IB			11/15/08 04:23	1.0	1	
031	ike31	X	IB			11/15/08 04:58	1.0	1	
032	ike32	X	IB			11/15/08 05:32	1.0	1	
033	ike33	X	IB			11/15/08 06:07	1.0	1	

MJM 11/14/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 001 through 004.

ACM 12/05/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 5 through 28.

Analyst: ACM Date: 11/16/08 Reviewer: LW Date: 11/17/08

Standards used: 1=S10716 2=S9454 3=S10756 4=S10355 5=S10619 6=S10654 7=S10533 8=S10631 9=S10601

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 488526075

Instrument : MSVOA09 Begun : 12/30/08 07:55
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	ilu01	X	IB			12/30/08 07:55	1.0	1	
002	ilu02	X	BFB			12/30/08 09:25	1.0	2	
003	ilu03	TUN	BFB			12/30/08 09:50	1.0	2	
004	ilu04	CCV	20PPB			12/30/08 10:17	1.0	3 4 5 1	
005	ilu05	BS	QC477555	Water	146514	12/30/08 10:50	1.0	6 7 8 9 1	
006	ilu06	BSD	QC477556	Water	146514	12/30/08 11:24	1.0	6 7 8 9 1	
007	ilu07	TUN	BFB			12/30/08 12:09	1.0	2	
008	ilu08	CCV	20PPB			12/30/08 12:28	1.0	3 4 10 1	
009	ilu09	X	IB			12/30/08 13:03	1.0	1	
010	ilu10	BLANK	QC477557	Water	146514	12/30/08 13:36	1.0	1	
011	ilu11	SAMPLE	208750-006	Water	146514	12/30/08 14:19	10.0	1	
012	ilu12	SAMPLE	208744-012	Water	146514	12/30/08 14:55	1.0	1	
013	ilu13	SAMPLE	208829-002	Water	146514	12/30/08 15:28	1.0	1	
014	ilu14	SAMPLE	208829-003	Water	146514	12/30/08 16:04	1.0	1	
015	ilu15	SAMPLE	208837-017	Water	146514	12/30/08 16:37	1.0	1	
016	ilu16	SAMPLE	208837-018	Water	146514	12/30/08 17:10	1.0	1	
017	ilu17	SAMPLE	208837-019	Water	146514	12/30/08 17:44	1.0	1	
018	ilu18	SAMPLE	208837-020	Water	146514	12/30/08 18:17	1.0	1	
019	ilu19	SAMPLE	208837-021	Water	146514	12/30/08 18:50	1.0	1	
020	ilu20	SAMPLE	208837-022	Water	146514	12/30/08 19:25	1.0	1	
021	ilu21	SAMPLE	208837-023	Water	146514	12/30/08 19:58	1.0	1	
022	ilu22	SAMPLE	208837-024	Water	146514	12/30/08 20:32	1.0	1	
023	ilu23	SAMPLE	208839-001	Water	146514	12/30/08 21:05	1.0	1	
024	ilu24	SAMPLE	208839-003	Water	146514	12/30/08 21:39	1.0	1	
025	ilu25	SAMPLE	208839-005	Water	146514	12/30/08 22:12	1.0	1	1:NAPH=240
026	ilu26	SAMPLE	208839-006	Water	146514	12/30/08 22:45	1.0	1	2:DCPA12=690
027	ilu27	SAMPLE	208839-004	Water	146514	12/30/08 23:18	2.500	1	1:NAPH=100
028	ilu28	SAMPLE	208839-002	Water	146514	12/30/08 23:52	3.333	1	
029	ilu29	X	IB			12/31/08 00:25	1.0	1	
030	ilu30	X	IB			12/31/08 00:58	1.0	1	
031	ilu31	X	IB			12/31/08 01:32	1.0	1	
032	ilu32	X	IB			12/31/08 02:05	1.0	1	
033	ilu33	X	IB			12/31/08 02:38	1.0	1	

MJM 12/31/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 001 through 033.

Analyst: MJM Date: 12/31/08 Reviewer: LW Date: 12/31/08

Standards used: 1=S10716 2=S10902 3=S10928 4=S10865 5=S10946 6=S11013 7=S10935 8=S10798 9=S10985 10=S11037

GC/MS VOLATILE ORGANICS

Batch #: 146449

Water Sample Prep Sheet

	Sample Number	Sample Vial	pH	Head space?	Shelf	Dil'n Flask	MS#	Comments	Initials & Date
1	208749-1	A	<2	LV	1		6	TB	[illegible] 12/24/08
2	-2	B	↓					1x MSS	
3	-2	CDE	<2					MS/MSD	
4	-3	B	<2						
5	-4								
6	-5								
7	-6								
8	-7								
9	-8								
10	-9	↓	↓						
11	208750-1	A	<2	LV				TB	
12	-2	B						1x	
13	-3								
14	-4								
15	-5		↓						
16	-6		<2					3.3x	
17	-7							1x	
18	208702-4								
19	-5	↓	↓						
20	208742-1	A						1x	
21	-2	↓	↓					1x	
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									

GC/MS VOLATILE ORGANICS

Batch #: 146514

Water Sample Prep Sheet

	Sample Number	Sample Vial	pH	Head space?	Shelf	Dil'n Flask	MS#	Comments	Initials & Date
1	208744-012	B	<2				9	RR 1X OD	NA 12/30/08
2	208750-006	C	<2			1		10X BZ7LR AZ hold 12/30	
3	208829-002	A						1X	
4	-003							1X	
5	208837-017								
6	-018								
7	-019								
8	-020								
9	-021								
10	-022								
11	-023								
12	-024								
13	208839-001	B						1X	
14	-002		<2			2		3X	
15	-003							1X	
16	-004	C	<2			3		2.5X	
17	-005							1X	
18	-006	F						~~7X~~ 1X	
19									
20									
21									
22									
23									
24									
25									
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35									

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 208752
ANALYTICAL REPORT

CH2M Hill 2625 South Plaza Drive Tempe, AZ 85282-3397	Project : 371016.SH.60.61.QS Location : Quarterly UST Level : III

Sample ID	Lab ID
TB-121208	208752-001
ASE-127A-8D1	208752-002
BC-7A-8D1	208752-003
ASE-116A-8D1	208752-004
PL-514-8D1	208752-005
ASE-38A-8D1	208752-006
ASE-37A-8D1	208752-007
ASE-63A-8D1	208752-008
PL-510-8D1	208752-009

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 01/06/2009
Project Manager

Signature: _____ Date: 01/06/2009
Senior Program Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**208752**
Client:	**CH2M Hill**
Project:	**371016.SH.60.61.QS**
Location:	**Quarterly UST**
Request Date:	**12/18/08**
Samples Received:	**12/18/08**

This data package contains sample and QC results for nine water samples, requested for the above referenced project on 12/18/08. See attached cooler receipt form for any sample receipt problems or discrepancies.

TPH-Extractables by GC (EPA 8015B):
The chromatographic baseline has been redrawn for all samples and standards to accurately quantitate all target hydrocarbons.

No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
Low responses were observed for iodomethane and vinyl acetate in the ICV analyzed 11/21/08 00:36; these analytes were not detected at or above the RL in the associated samples, and affected data was qualified with "b".

Low response was observed for vinyl acetate in the ICV analyzed 11/18/08 22:57; this analyte was not detected at or above the RL in the associated samples, and affected data was qualified with "b". High response was observed for hexachlorobutadiene; this analyte was not detected at or above the RL in the associated samples, and affected data was qualified with "b".

Low response was observed for bromomethane in the CCV analyzed 12/22/08 08:15; this analyte met minimum response criteria, and affected data was qualified with "b".

Low responses were observed for chloromethane, Freon 12, and vinyl acetate in the CCV analyzed 12/22/08 14:35; these analytes met minimum response criteria.

Low responses were observed for 2-hexanone, iodomethane, and vinyl acetate in the CCV analyzed 12/23/08 08:36; these analytes met minimum response criteria, and affected data was qualified with "b". High responses were observed for a number of analytes; these analytes were not detected at or above the RL in the associated samples, and affected data was qualified with "b".

Low response was observed for vinyl acetate in the CCV analyzed 12/23/08 08:43; this analyte met minimum response criteria, and affected data was qualified with "b". High response was observed for hexachlorobutadiene; affected data was qualified with "b".

High recoveries were observed for carbon tetrachloride and vinyl chloride in

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**208752**
Client:	**CH2M Hill**
Project:	**371016.SH.60.61.QS**
Location:	**Quarterly UST**
Request Date:	**12/18/08**
Samples Received:	**12/18/08**

Volatile Organics by GC/MS (EPA 8260B):

the MS of ASE-127A-8D1 (lab # 208752-002); the LCS was within limits, the associated RPDs were within limits, and these analytes were not detected at or above the RL in the associated samples. High RPD was observed for iodomethane in the MS/MSD of ASE-127A-8D1 (lab # 208752-002); this analyte was not detected at or above the RL in the associated samples.

High recovery was observed for hexachlorobutadiene in the LCS for batch 146372; the high recovery was not associated with any reported results.

High recoveries were observed for a number of analytes in the BS/BSD for batch 146373; the associated RPDs were within limits, and these analytes were not detected at or above the RL in the associated sample.

High recovery was observed for sec-butylbenzene in the MS of ASE-125A-8D1 (lab # 208578-008); the LCS was within limits, the associated RPD was within limits, and the high recovery was not associated with any reported results.

No other analytical problems were encountered.

Chain of Custody

208752

Curtis & Tompkins Laboratories
2323 5th St.
Berkeley, CA 94710
510-204-2221

Honeywell — Chain Of Custody / Analysis Request

AESI Ref:	39784.54128
COC#	37380_
Lab Proj # (SDG):	
Lab ID	CTBERK
Site ID	SKYHARBOR
Lab Job #	
Authorized User:	Honeywell
Text & Excel File Drive	Excel & Text File Order

Privileged & Confidential

Site Name: Sky Harbor
Location of Site: Phoenix, AZ
Phase:
Sampling Program: Quarterly UST

Sampling Co.: H+A
EDD To: Jennifer Peterson, jennifer.Peterson@ch2m.com
Sampler: ~~M. Weise~~ - M. Hall J. Verfas
PO #: 4990342
Analysis Turnaround Time (TAT): 7
Consultant
Full Report TAT: 7

Client Contact: (name, co., address)
CH2M HILL
2625 South Plaza Drive, Suite 300
Tempe, AZ 85282

Preliminary Data To: Jennifer Peterson, CH2M HILL
Sample Receipt Acknowledgement To: Jennifer Peterson, CH2M HILL
Hard Copy To: Jennifer Peterson, CH2M HILL
Invoice To: Honeywell/Copy J Peterson

Copyright AESI: Version 8.0 Unauthorized use strictly prohibited.

	Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite/Grab	Field Filtered Sample ?	Total VOCs (SW8260)	TRPH DRO C10-C22 - ORO C22-C32 (8015B)	MS/MSD	Sampling Method (code)	Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Units						
1	TB	--	--	TB-121208	12/12/8	0546	BLKWATER	WATER	TB	1	G	N	X				
2	ASE-127A	90	--	ASE-127A-8D1	12/12/8	0625	GW	WATER	REG	15	G	N	X	X	X		
3	BC-7A	74	--	BC-7A-8D1	12/12/8	0717	GW	WATER	REG	5	G	N	X	X			
4	ASE-116A	103	--	ASE-116A-8D1	12/12/8	0751	GW	WATER	REG	5	G	N	X	X			
5	PL-514	--	--	PL-514-8D1	12/12/8	0801	GW	WATER	REG	5	G	N	X	X			
6	ASE-38A	110	--	ASE-38A-8D1	12/12/8	0830	GW	WATER	REG	5	G	N	X	X			
7	ASE-37A	110	--	ASE-37A-8D1	12/12/8	1045	GW	WATER	REG	5	G	N	X	X			
8	ASE-63A	89	--	ASE-63A-8D1	12/12/8	1119	GW	WATER	REG	5	G	N	X	X			
9	ERB	--	--	PL-510-8D1	12/12/8	1128		WATER	ERB	5	G	N	X	X			
10																	
11																	
12										51							

Relinquished by	Company	Received by	Company	Condition	Custody Seals Intact
	H+A		FedEx		
	Date/Time 12/17/08 14:00		Date/Time 12/17/08 14:00	Cooler Temp.	
Relinquished by	Company	Received by	Company	Condition	Custody Seals Intact
	Date/Time		Date/Time 12/18/08 10:00	Cooler Temp.	

Preservatives: (Other; Specify):

0 (none); 1 (4 Deg C); 2 (HCl pH<2); 3 (HNO3 pH<2); 4 (H2SO4 pH<2); 5 (NaOH pH>12); 6 (NaOH, Zn Acetate); 7 (H2SO4 (pH<2), 4 Deg C)); 8 (HCl pH<2); 9 (HCl 4 Deg C); 10 (HNO3 (pH<2), 4Deg C); 11 (4C NaOH (pH>12) & Ascorbic Acid); 12 (4C H2SO4 (pH<2) & Na2S2O3); 13 (Zn Acetate); sp (special instructions)

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 208752 Date Received 12/17/08 Number of coolers 4
Client CH2M HILL Project

Date Opened 12/18/08 By (print) PHUONG (sign) P. Le
Date Logged in By (print) SEVAMS (sign)

1. Did cooler come with a shipping slip (airbill, etc) MASTER # YES NO
   Shipping info FED EX 8670 5499 7043
2A. Were custody seals present? ... ☑ YES (circle) on cooler on samples ☐ NO
   How many 4 Name unreadable Date 12/17/08
2B. Were custody seals intact upon arrival? YES NO N/A
3. Were custody papers dry and intact when received? YES NO
4. Were custody papers filled out properly (ink, signed, etc)? YES NO
5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO
6. Indicate the packing in cooler: (if other, describe)

   ☑ Bubble Wrap ☐ Foam blocks ☑ Bags ☐ None
   ☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels
7. Temperature documentation:

   Type of ice used: ☑ Wet ☐ Blue/Gel ☐ None Temp(°C) 2.2, 4.5, 3.2, 4.2

   ☐ Samples Received on ice & cold without a temperature blank

   ☐ Samples received on ice directly from the field. Cooling process had begun
8. Were Method 5035 sampling containers present? YES NO
   If YES, what time were they transferred to freezer?
9. Did all bottles arrive unbroken/unopened? YES NO
10. Are samples in the appropriate containers for indicated tests? YES NO
11. Are sample labels present, in good condition and complete? YES NO
12. Do the sample labels agree with custody papers? YES NO
13. Was sufficient amount of sample sent for tests requested? YES NO
14. Are the samples appropriately preserved? YES NO N/A
15. Are bubbles > 6mm absent in VOA samples? YES NO N/A
16. Was the client contacted concerning this sample delivery? YES NO
    If YES, Who was called? By Date:

COMMENTS

Laboratory Job Number 208752

ANALYTICAL REPORT

TPH-Extractables by GC

Matrix: Water

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	12/12/08
Units:	ug/L	Received:	12/18/08
Diln Fac:	1.000	Prepared:	12/19/08
Batch#:	146274		

Field ID:	ASE-127A-8D1	Lab ID:	208752-002
Type:	SAMPLE	Analyzed:	12/22/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	23 J	50		E4
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	99	50-120	
Hexacosane	102	58-127	

Field ID:	BC-7A-8D1	Lab ID:	208752-003
Type:	SAMPLE	Analyzed:	12/23/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	ND	50		
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	95	50-120	
Hexacosane	99	58-127	

Field ID:	ASE-116A-8D1	Lab ID:	208752-004
Type:	SAMPLE	Analyzed:	12/23/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	600 Y	50		
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	96	50-120	
Hexacosane	103	58-127	

Field ID:	PL-514-8D1	Lab ID:	208752-005
Type:	SAMPLE	Analyzed:	12/24/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	660 Y	50		
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	105	50-120	
Hexacosane	108	58-127	

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	12/12/08
Units:	ug/L	Received:	12/18/08
Diln Fac:	1.000	Prepared:	12/19/08
Batch#:	146274		

Field ID: ASE-38A-8D1 Lab ID: 208752-006
Type: SAMPLE Analyzed: 12/24/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	660 Y	50		
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	97	50-120	
Hexacosane	98	58-127	

Field ID: ASE-37A-8D1 Lab ID: 208752-007
Type: SAMPLE Analyzed: 12/24/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	240 Y	50		
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	82	50-120	
Hexacosane	77	58-127	

Field ID: ASE-63A-8D1 Lab ID: 208752-008
Type: SAMPLE Analyzed: 12/24/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	1,800 Y	50		
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	85	50-120	
Hexacosane	86	58-127	

Field ID: PL-510-8D1 Lab ID: 208752-009
Type: SAMPLE Analyzed: 12/24/08

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	24 J	50		E4
Motor Oil C22-C32	67 J	300	40	E4

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	108	50-120	
Hexacosane	112	58-127	

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	12/12/08
Units:	ug/L	Received:	12/18/08
Diln Fac:	1.000	Prepared:	12/19/08
Batch#:	146274		

Type:	BLANK	Analyzed:	12/22/08
Lab ID:	QC476602		

Analyte	Result	RL	MDL	ADEQ Flags
Diesel C10-C22	ND	50		
Motor Oil C22-C32	ND	300	40	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	99	50-120	
Hexacosane	103	58-127	

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC476603	Batch#:	146274
Matrix:	Water	Prepared:	12/19/08
Units:	ug/L	Analyzed:	12/22/08

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Diesel C10-C22	2,500	2,431	97	54-120	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	100	50-120	
Hexacosane	101	58-127	

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Field ID:	ASE-127A-8D1	Batch#:	146274
MSS Lab ID:	208752-002	Sampled:	12/12/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Prepared:	12/19/08
Diln Fac:	1.000	Analyzed:	12/22/08

Type: MS Lab ID: QC476604

Analyte	MSS Result	Spiked	Result	%REC	Limits	ADEQ Flags
Diesel C10-C22	23.08	2,500	2,578	102	54-120	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	107	50-120	
Hexacosane	119	58-127	

Type: MSD Lab ID: QC476605

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
Diesel C10-C22	2,500	2,319	92	54-120	11	31	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	96	50-120	
Hexacosane	95	58-127	

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

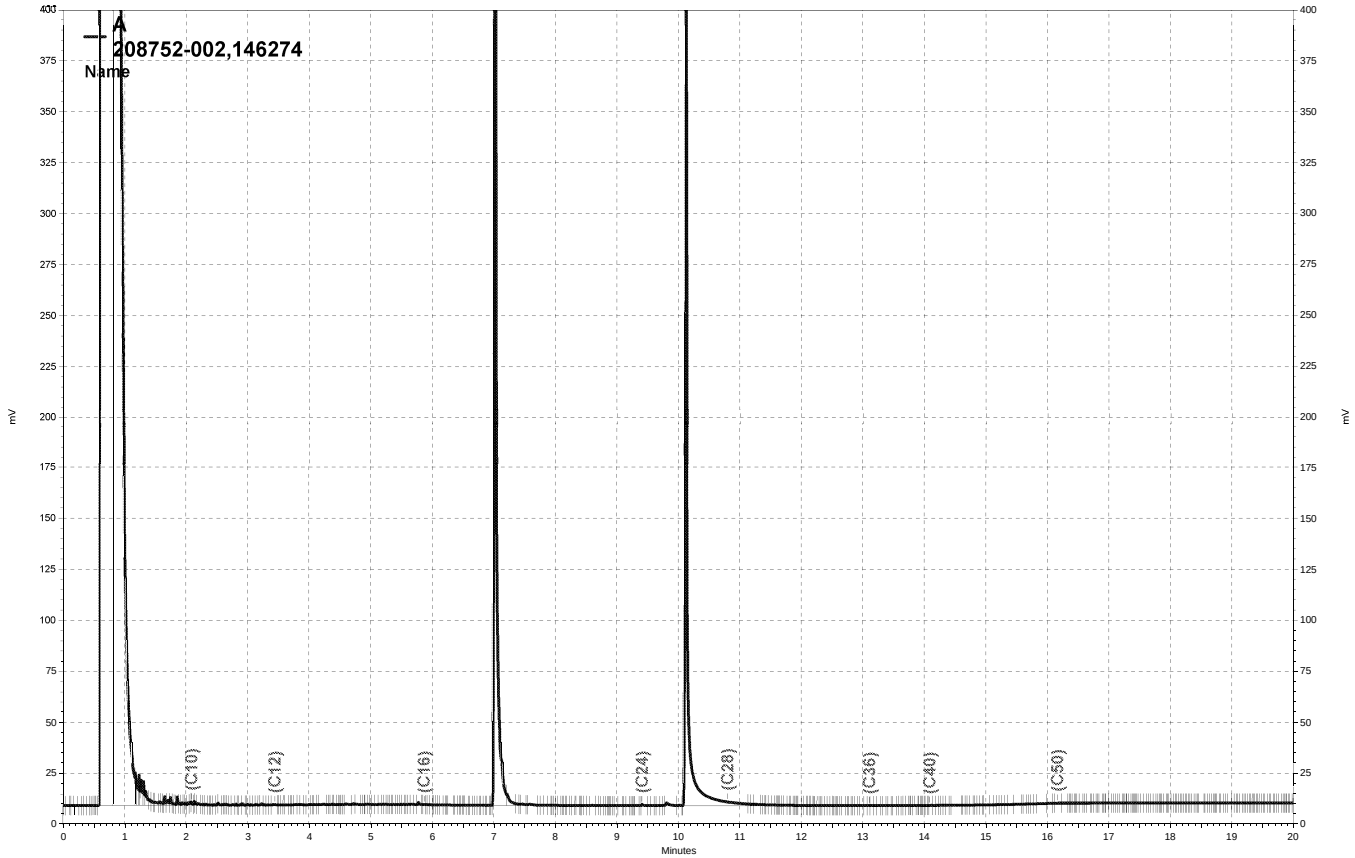
Batch QC Report

Total Extractable Hydrocarbons

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 3520C
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC476606	Batch#:	146274
Matrix:	Water	Prepared:	12/19/08
Units:	ug/L	Analyzed:	12/22/08

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Motor Oil C22-C32	2,500	2,825	113	60-140	

Surrogate	%REC	Limits	ADEQ Flags
o-Terphenyl	94	50-120	
Hexacosane	88	58-127	



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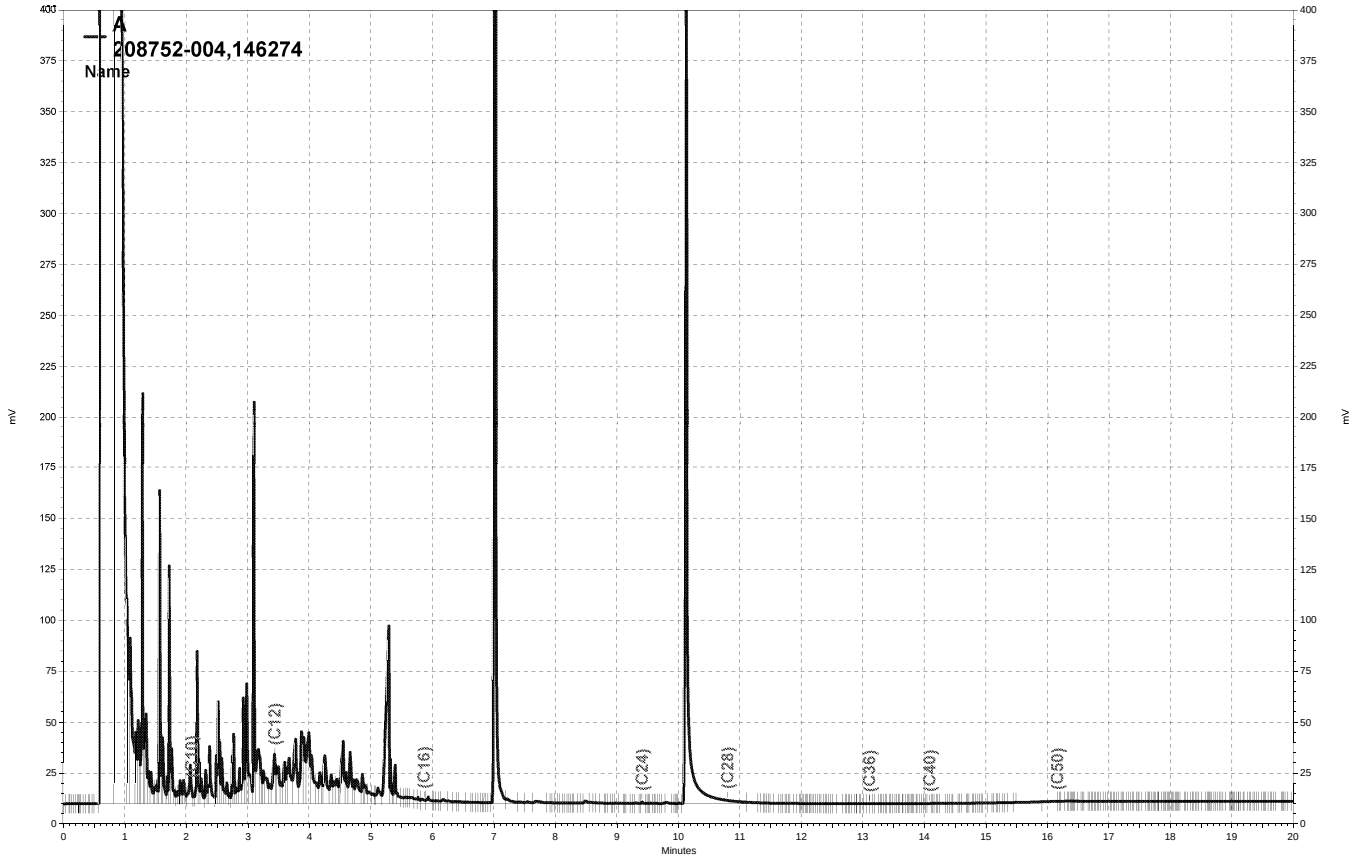

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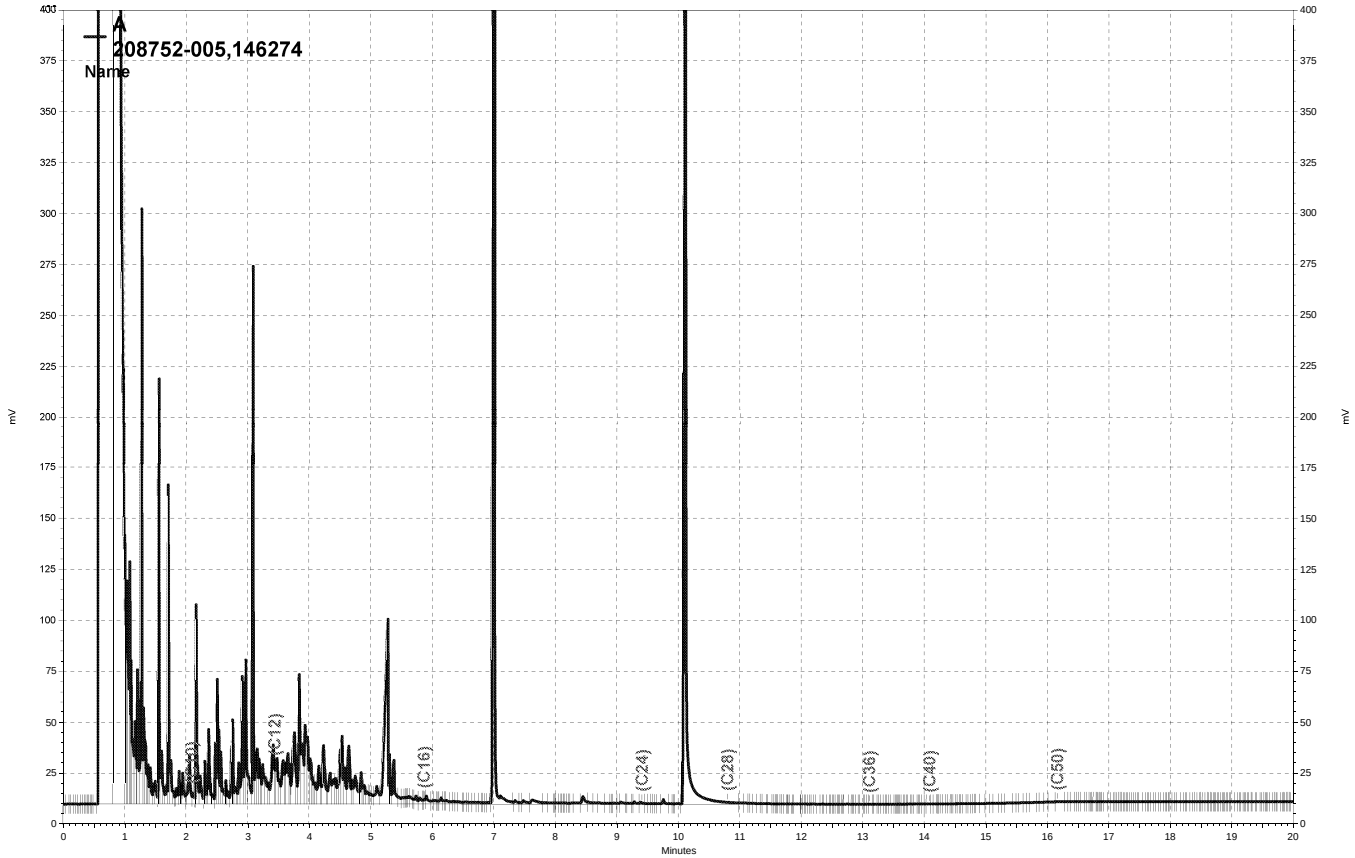

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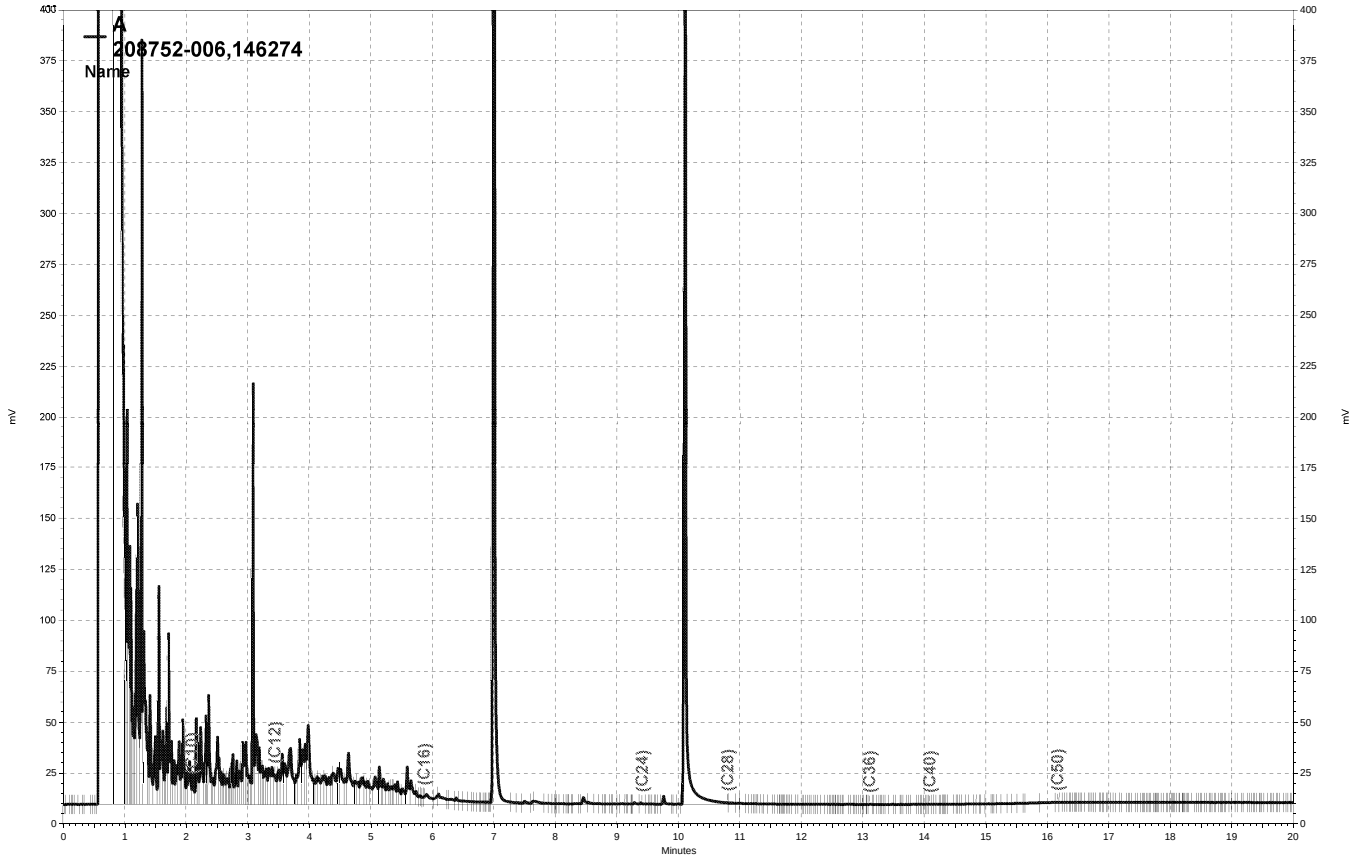

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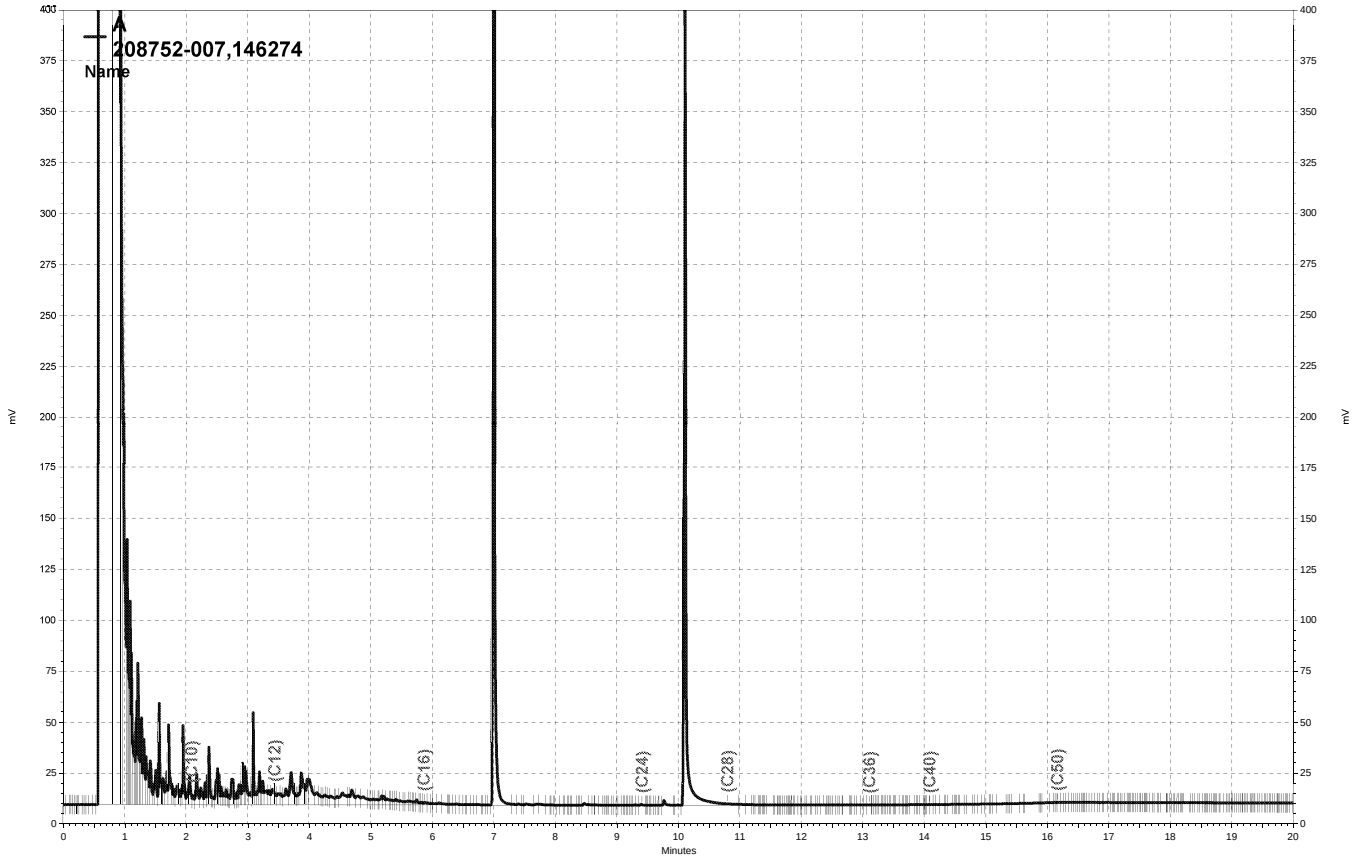

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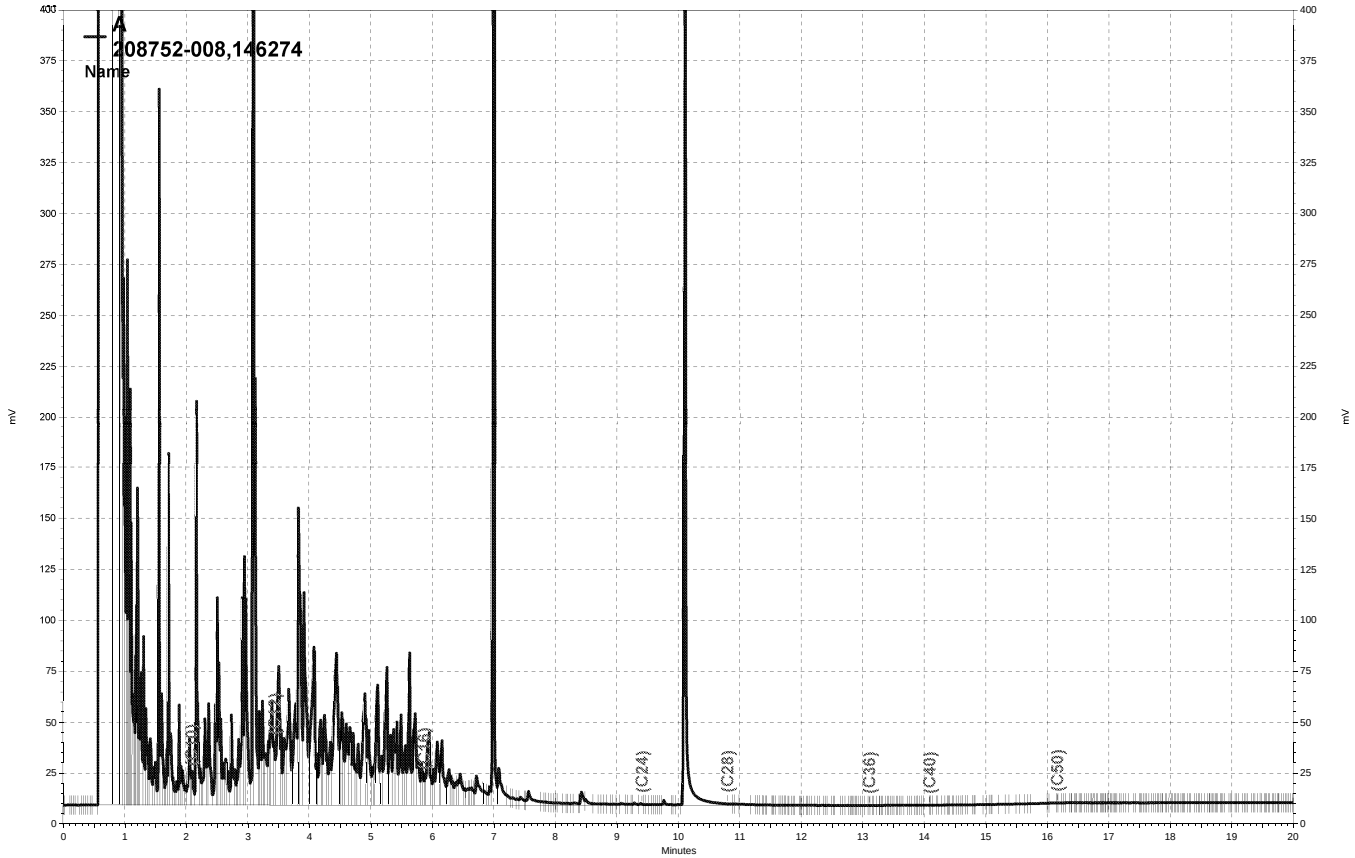

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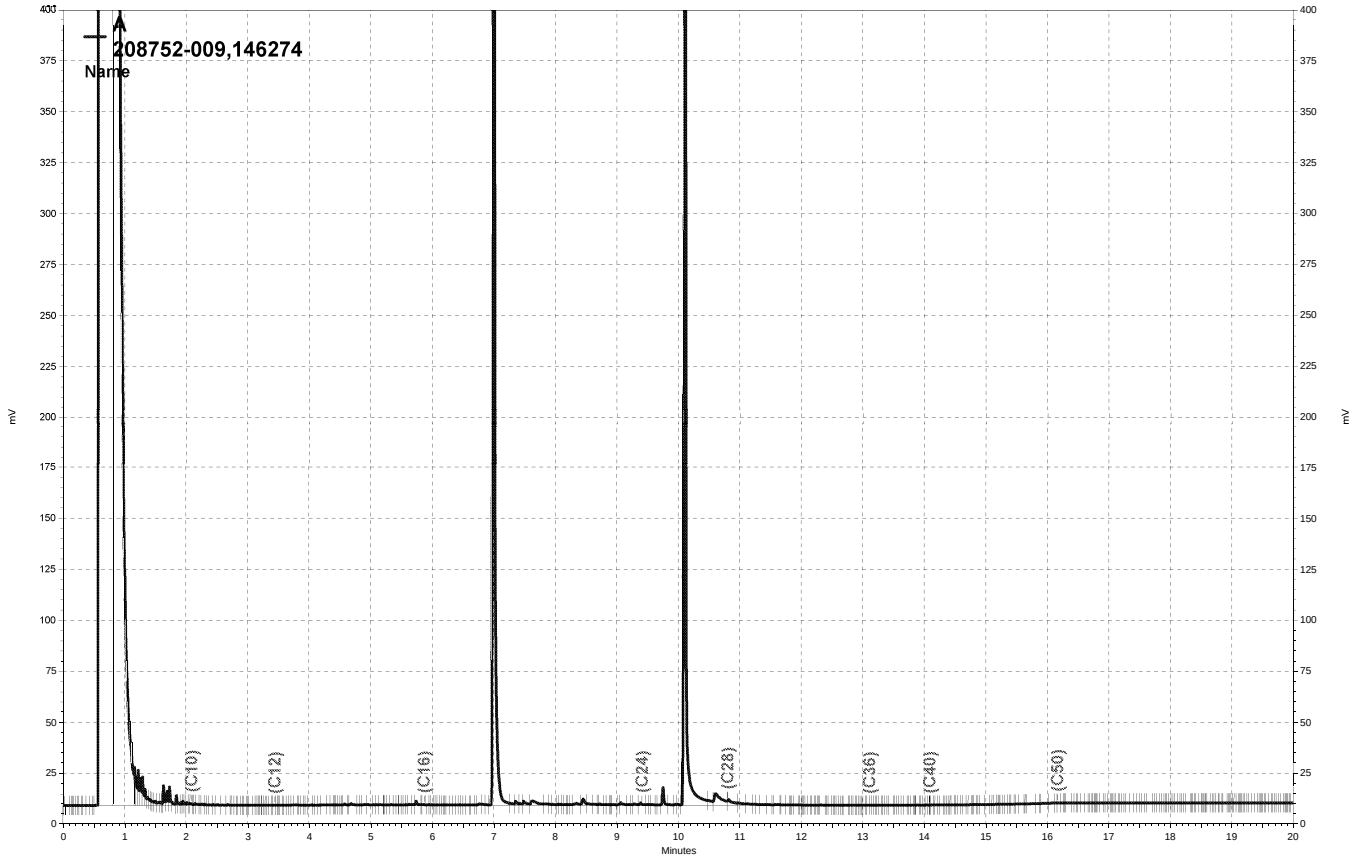

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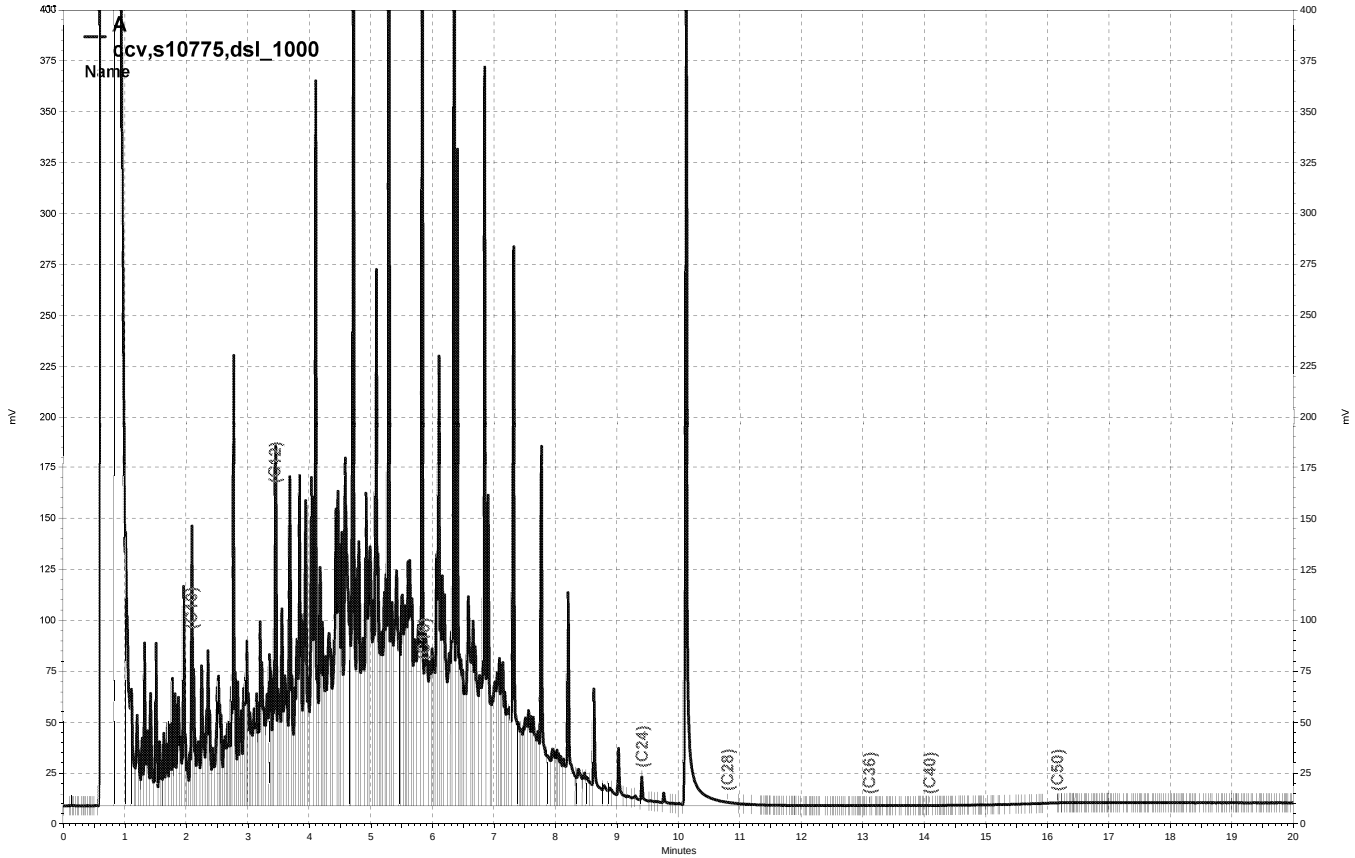

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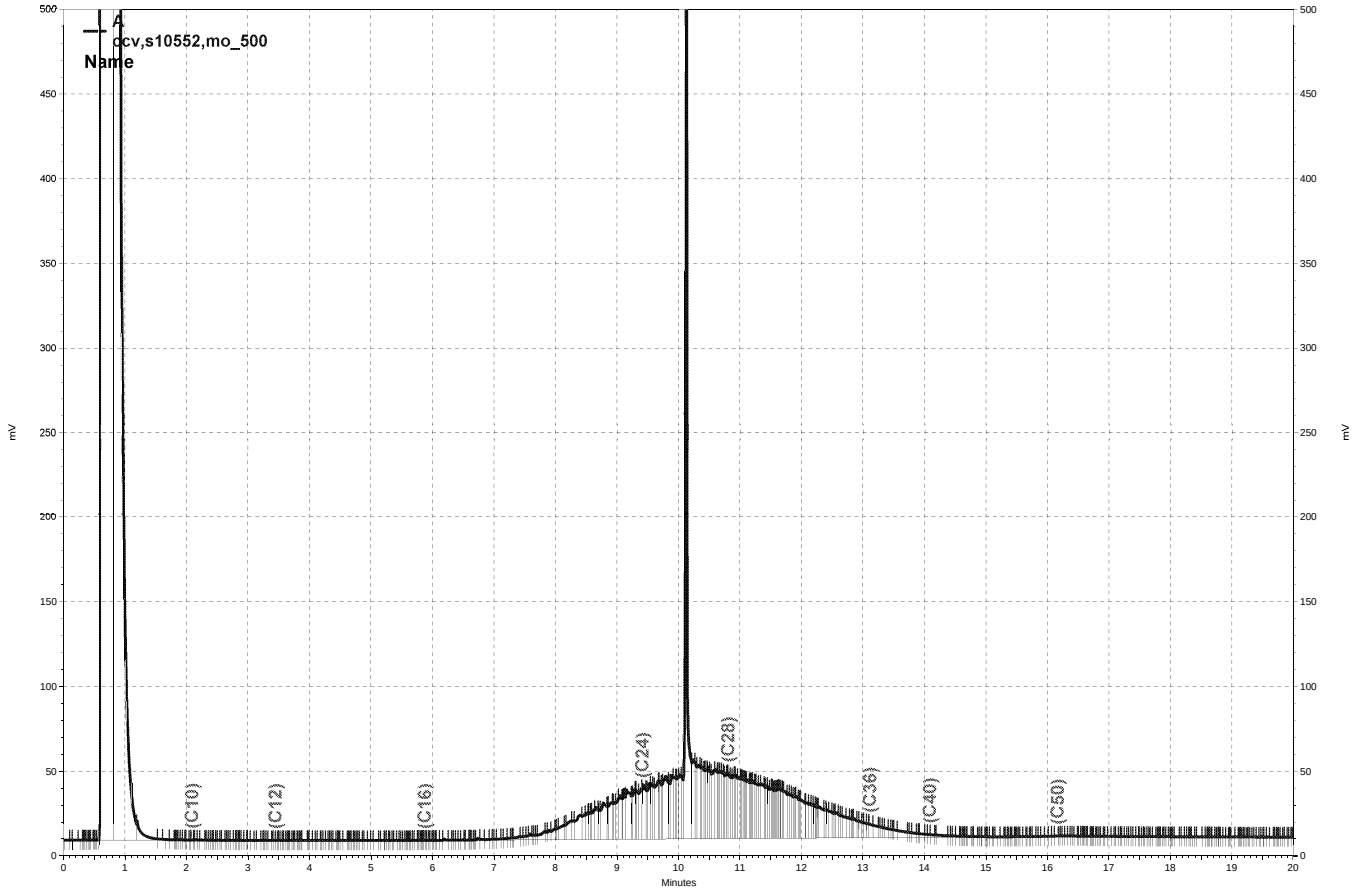

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CURTIS & TOMPKINS INITIAL CALIBRATION FOR 208752 GCSV Water: EPA 8015B

Inst : GC26A
Calnum : 868466089004
Units : mg/L

Name : 26A diesel_323
Date : 18-NOV-2008 19:38
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	323a008	868466089008	DSL_10	18-NOV-2008 19:38	S9527
L2	323a009	868466089009	DSL_100	18-NOV-2008 20:06	S9528
L3	323a010	868466089010	DSL_500	18-NOV-2008 20:35	S9529
L4	323a011	868466089011	DSL_1000	18-NOV-2008 21:04	S9530
L5	323a012	868466089012	DSL_5000	18-NOV-2008 21:33	S9526
L6	323a013	868466089013	DSL_7500	18-NOV-2008 22:01	S9531

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Diesel C10-C22	27669	29864	28006	25990	26629	23471	AVRG		3.71E-5		26938	8	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Diesel C10-C22	10.00	3	100.0	11	500.0	4	1000	-4	5000	-1	7500	-13

Analyst: ATL Date: 11/24/08 Reviewer: CW Date: 11/24/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 208752 GCSV Water
EPA 8015B

Inst : GC26A Name : 26A diesel_323
Calnum : 868466089004 Cal Date : 18-NOV-2008

ICV 868466089015 (323a015 18-NOV-2008) stds: S10153

Analyte	Average RF	RF	Spiked	Quant	Units	%D	Flags
Diesel C10-C22	26938	28040	500.0	520.5	mg/L	4	

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 208752 GCSV Water: EPA 8015B

Inst : GC26A
Calnum : 868466089003
Units : mg/L

Name : OTP(26A)_323
Date : 19-NOV-2008 09:23
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	323a039	868466089039	OTP_5	19-NOV-2008 09:23	S9739
L2	323a040	868466089040	OTP_10	19-NOV-2008 09:52	S9740
L3	323a041	868466089041	OTP_25	19-NOV-2008 10:20	S9741
L4	323a042	868466089042	OTP_50	19-NOV-2008 10:49	S9742
L5	323a043	868466089043	OTP_100	19-NOV-2008 11:18	S9745
L6	323a044	868466089044	OTP_200	19-NOV-2008 11:47	S9744

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
o-Terphenyl	29916	32641	30352	26603	29783	29496	AVRG		3.36E-5		29798	6	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
o-Terphenyl	5.000	0	10.00	10	25.00	2	50.00	-11	100.0	0	200.0	-1

ATL 11/21/08 : OTP_25 point was used to update RT for asurotp323.met.

Analyst: ATL Date: 11/21/08 Reviewer: CW Date: 11/24/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 208752 GCSV Water: EPA 8015B

Inst : GC26A
Calnum : 868487360001
Units : mg/L

Name : MO(26a)_338
Date : 03-DEC-2008 18:28
X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	338a013	868487360013	MO_50	03-DEC-2008 18:28	S10563
L2	338a015	868487360015	MO_500	03-DEC-2008 19:26	S10564
L3	338a016	868487360016	MO_1000	03-DEC-2008 19:55	S10566
L4	338a017	868487360017	MO_5000	03-DEC-2008 20:23	S10567
L5	338a018	868487360018	MO_7500	03-DEC-2008 20:52	S10568
L6	338a030	868487360030	MO_250	04-DEC-2008 13:02	S10565

Analyte	L1	L2	L3	L4	L5	L6	Type	a0	a1	a2	Avg	r^2 %RSD	MnR^2	MxRSD	Flg
Motor Oil C22-C32	11273	12715	12308	12247	11468	11999	AVRG		8.33E-5		12002	5	0.995	20	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Motor Oil C22-C32	50.00	-6	500.0	6	1000	3	5000	2	7500	-4	250.0	0

ATL 12/04/08 : Manually integrated all motor oil points except MO_250 for fuel hump. MO_250 pt. was re-run to confirm misinject run #14.

Analyst: ATL Date: 12/04/08 Reviewer: CP Date: 12/04/08

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208752 GCSV Water
EPA 8015B

Inst : GC26A Run Name : DSL_1000 IDF : 1.0
Seqnum : 868514507018 File : 357a018 Time : 22-DEC-2008 14:45
Standards: S10775

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C22	868466089004	18-NOV-2008	26938	27961	1000	1038	mg/L	4	15	
Hexacosane	868470899001	21-NOV-2008	20727	21687	50.00	52.32	mg/L	5	15	

Analyst: CP Date: 12/22/08 Reviewer: ATL Date: 12/23/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208752 GCSV Water
EPA 8015B

Inst : GC26A Run Name : MO_500 IDF : 1.0
Seqnum : 868514507019 File : 357a019 Time : 22-DEC-2008 15:13
Standards: S10552

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C22-C32	868487360001	03-DEC-2008	12002	12935	500.0	538.9	mg/L	8	15	
Hexacosane	868470899001	21-NOV-2008	20727	17882	50.00	43.14	mg/L	-14	15	

JDG 12/22/08 : Corrected automatically drawn baseline .

Analyst: JDG Date: 12/22/08 Reviewer: ATL Date: 12/23/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208752 GCSV Water
EPA 8015B

Inst : GC26A Run Name : OTP_50 IDF : 1.0
Seqnum : 868514507022 File : 357a022 Time : 22-DEC-2008 16:45
Cal : 868466089003 Caldate : 19-NOV-2008
Standards: S10089

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
o-Terphenyl	29798	30099	50.00	50.50	mg/L	1	15	

Analyst: JDG Date: 12/22/08 Reviewer: ATL Date: 01/02/09

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208752 GCSV Water
EPA 8015B

Inst : GC26A Run Name : OTP_50 IDF : 1.0
Seqnum : 868514507035 File : 357a035 Time : 22-DEC-2008 23:34
Cal : 868466089003 Caldate : 19-NOV-2008
Standards: S10089

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
o-Terphenyl	29798	25937	50.00	43.52	mg/L	-13	15	

Analyst: ATL Date: 12/23/08 Reviewer: CP Date: 01/02/09

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208752 GCSV Water
EPA 8015B

Inst : GC26A Run Name : DSL_250 IDF : 1.0
Seqnum : 868514507036 File : 357a036 Time : 23-DEC-2008 00:03
Standards: S10773

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C22	868466089004	18-NOV-2008	26938	24974	250.0	231.8	mg/L	-7	15	
Hexacosane	868470899001	21-NOV-2008	20727	17879	50.00	43.13	mg/L	-14	15	

Analyst: ATL Date: 12/23/08 Reviewer: CP Date: 01/02/09

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208752 GCSV Water
EPA 8015B

Inst : GC26A Run Name : MO_500 IDF : 1.0
Seqnum : 868514507037 File : 357a037 Time : 23-DEC-2008 00:31
Standards: S10552

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C22-C32	868487360001	03-DEC-2008	12002	11325	500.0	471.8	mg/L	-6	15	
Hexacosane	868470899001	21-NOV-2008	20727	15170	50.00	36.60	mg/L	**-27**	15	c-

ATL 12/23/08 : Manually integrated fuel hump.

Analyst: ATL Date: 12/23/08 Reviewer: CP Date: 01/02/09

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208752 GCSV Water
EPA 8015B

Inst : GC26A Run Name : DSL_500 IDF : 1.0
Seqnum : 868514507049 File : 357a049 Time : 23-DEC-2008 06:10
Standards: S10774

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C22	868466089004	18-NOV-2008	26938	27037	500.0	501.8	mg/L	0	15	
Hexacosane	868470899001	21-NOV-2008	20727	19026	50.00	45.90	mg/L	-8	15	

Analyst: ATL Date: 12/23/08 Reviewer: EAH Date: 01/06/09

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208752 GCSV Water
EPA 8015B

Inst : GC26A Run Name : MO_500 IDF : 1.0
Seqnum : 868514507050 File : 357a050 Time : 23-DEC-2008 06:39
Standards: S10552

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C22-C32	868487360001	03-DEC-2008	12002	12028	500.0	501.1	mg/L	0	15	
Hexacosane	868470899001	21-NOV-2008	20727	16122	50.00	38.89	mg/L	**-22**	15	c-

ATL 12/23/08 : Manually integrated fuel hump.

Analyst: ATL Date: 12/23/08 Reviewer: EAH Date: 01/06/09

-=low bias c=CCV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208752 GCSV Water
EPA 8015B

Inst : GC26A Run Name : OTP_50 IDF : 1.0
Seqnum : 868514507051 File : 357a051 Time : 23-DEC-2008 07:07
Cal : 868466089003 Caldate : 19-NOV-2008
Standards: S10089

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
o-Terphenyl	29798	25267	50.00	42.40	mg/L	-15	15	

ATL 01/05/09 [o-Terphenyl A]: Corrected automatically drawn baseline .

Analyst: ATL Date: 12/23/08 Reviewer: EAH Date: 01/06/09

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208752 GCSV Water
EPA 8015B

Inst : GC26A Run Name : DSL_500 IDF : 1.0
Seqnum : 868517362004 File : 359a004 Time : 24-DEC-2008 08:07
Standards: S10774

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C22	868466089004	18-NOV-2008	26938	28482	500.0	528.7	mg/L	6	15	
Hexacosane	868470899001	21-NOV-2008	20727	21379	50.00	51.57	mg/L	3	15	

ATL 01/05/09 : Manually integrated fuel hump.

Analyst: ATL Date: 01/05/09 Reviewer: EAH Date: 01/06/09

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208752 GCSV Water
EPA 8015B

Inst : GC26A Run Name : MO_500 IDF : 1.0
Seqnum : 868517362005 File : 359a005 Time : 24-DEC-2008 08:36
Standards: S10552

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C22-C32	868487360001	03-DEC-2008	12002	13829	500.0	576.1	mg/L	15	15	
Hexacosane	868470899001	21-NOV-2008	20727	19563	50.00	47.19	mg/L	-6	15	

Analyst: ATL Date: 01/05/09 Reviewer: EAH Date: 01/06/09

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208752 GCSV Water
EPA 8015B

Inst : GC26A Run Name : OTP_50 IDF : 1.0
Seqnum : 868517362006 File : 359a006 Time : 24-DEC-2008 09:04
Cal : 868466089003 Caldate : 19-NOV-2008
Standards: S10089

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
o-Terphenyl	29798	30416	50.00	51.04	mg/L	2	15	

Analyst: ATL Date: 01/05/09 Reviewer: EAH Date: 01/06/09

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208752 GCSV Water
EPA 8015B

Inst : GC26A Run Name : DSL_1000 IDF : 1.0
Seqnum : 868517362013 File : 359a013 Time : 24-DEC-2008 12:43
Standards: S10775

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Diesel C10-C22	868466089004	18-NOV-2008	26938	28286	1000	1050	mg/L	5	15	
Hexacosane	868470899001	21-NOV-2008	20727	22506	50.00	54.29	mg/L	9	15	

Analyst: ATL Date: 12/29/08 Reviewer: JDG Date: 12/31/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208752 GCSV Water
EPA 8015B

Inst : GC26A Run Name : OTP_50 IDF : 1.0
Seqnum : 868517362015 File : 359a015 Time : 24-DEC-2008 13:40
Cal : 868466089003 Caldate : 19-NOV-2008
Standards: S10089

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
o-Terphenyl	29798	31505	50.00	52.86	mg/L	6	15	

Analyst: ATL Date: 12/29/08 Reviewer: JDG Date: 12/31/08

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208752 GCSV Water
EPA 8015B

Inst : GC26A Run Name : MO_500 IDF : 1.0
Seqnum : 868517362016 File : 359a016 Time : 24-DEC-2008 14:08
Standards: S10552

Analyte	Cal	Caldate	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Motor Oil C22-C32	868487360001	03-DEC-2008	12002	13816	500.0	575.6	mg/L	15	15	
Hexacosane	868470899001	21-NOV-2008	20727	19554	50.00	47.17	mg/L	-6	15	

ATL 12/29/08 : Manually integrated fuel hump.

Analyst: ATL Date: 12/29/08 Reviewer: JDG Date: 12/31/08

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868466089

Instrument : GC26A Begun : 11/18/08 16:09
Method : EPA 8015B SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	323a001	X	PRIMER			11/18/08 16:09	1.0		
002	323a002	X	IB			11/18/08 16:38	1.0		
003	323a003	X	IB			11/18/08 17:06	1.0		
007	323a007	IB	CALIB			11/18/08 19:09	1.0		
008	323a008	ICAL	DSL_10			11/18/08 19:38	1.0	1	
009	323a009	ICAL	DSL_100			11/18/08 20:06	1.0	2	
010	323a010	ICAL	DSL_500			11/18/08 20:35	1.0	3	
011	323a011	ICAL	DSL_1000			11/18/08 21:04	1.0	4	
012	323a012	ICAL	DSL_5000			11/18/08 21:33	1.0	5	
013	323a013	ICAL	DSL_7500			11/18/08 22:01	1.0	6	
015	323a015	ICV	DSL_500			11/18/08 22:59	1.0	7	
017	323a017	IB	CALIB			11/18/08 23:56	1.0		
032	323a032	ICAL	JP5_10			11/19/08 06:03	1.0	8	
033	323a033	ICAL	JP5_100			11/19/08 06:31	1.0	9	
034	323a034	ICAL	JP5_500			11/19/08 07:00	1.0	10	
035	323a035	ICAL	JP5_1500			11/19/08 07:28	1.0	11	
036	323a036	ICAL	JP5_2500			11/19/08 07:57	1.0	12	
037	323a037	ICAL	JP5_5000			11/19/08 08:26	1.0	13	
038	323a038	IB	CALIB			11/19/08 08:54	1.0		
039	323a039	ICAL	OTP_5			11/19/08 09:23	1.0	14	
040	323a040	ICAL	OTP_10			11/19/08 09:52	1.0	15	
041	323a041	ICAL	OTP_25			11/19/08 10:20	1.0	16	
042	323a042	ICAL	OTP_50			11/19/08 10:49	1.0	17	
043	323a043	ICAL	OTP_100			11/19/08 11:18	1.0	18	
044	323a044	ICAL	OTP_200			11/19/08 11:47	1.0	19	
045	323a045	IB	CALIB			11/19/08 12:16	1.0		
046	323a046	CMARKER	C8-C50			11/19/08 12:44	1.0	20	

ATL 11/21/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 46.

Analyst: ATL Date: 11/21/08 Reviewer: CW Date: 11/24/08

Standards used: 1=S9527 2=S9528 3=S9529 4=S9530 5=S9526 6=S9531 7=S10153 8=S10506 9=S10507 10=S10508 11=S10509 12=S10510 13=S10505 14=S9739 15=S9740 16=S9741 17=S9742 18=S9745 19=S9744 20=S10268

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CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868487360

Instrument : GC26A Begun : 12/03/08 10:40
Method : EPA 8015B SOP Version : TEH_rv13

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	338a001	X	IB			12/03/08 10:40	1.0		
002	338a002	X	IB			12/03/08 11:09	1.0		
003	338a003	X	CMARKER			12/03/08 11:37	1.0	1	
004	338a004	CCV	JP5_250			12/03/08 12:06	1.0	2	
005	338a005	CCV	OTP_50			12/03/08 12:36	1.0	3	
006	338a006	CCV	DSL_250			12/03/08 13:05	1.0	4	
007	338a007	CCV	MO_500			12/03/08 14:34	1.0	5	
009	338a009	CCV	DSL_250			12/03/08 15:32	1.0	6	
010	338a010	CCV	DSL_500			12/03/08 16:01	1.0	7	
011	338a011	CCV	DSL_1000			12/03/08 16:31	1.0	8	
012	338a012	IB	CALIB			12/03/08 17:54	1.0		
013	338a013	ICAL	MO_50			12/03/08 18:28	1.0	9	
014	338a014	X	ICAL			12/03/08 18:57	1.0	10	
015	338a015	ICAL	MO_500			12/03/08 19:26	1.0	11	
016	338a016	ICAL	MO_1000			12/03/08 19:55	1.0	12	
017	338a017	ICAL	MO_5000			12/03/08 20:23	1.0	13	
018	338a018	ICAL	MO_7500			12/03/08 20:52	1.0	14	
019	338a019	IB	CALIB			12/03/08 21:21	1.0		
020	338a020	ICAL	BUNK_50			12/03/08 21:50	1.0	15	
021	338a021	ICAL	BUNK_500			12/03/08 22:19	1.0	16	
022	338a022	ICAL	BUNK_1250			12/03/08 22:48	1.0	17	
023	338a023	ICAL	BUNK_2500			12/03/08 23:16	1.0	18	
024	338a024	ICAL	BUNK_5000			12/03/08 23:45	1.0	19	
025	338a025	IB	CALIB			12/04/08 00:14	1.0		
026	338a026	CMARKER	C8-C50			12/04/08 00:43	1.0	1	
027	338a027	IB	CALIB			12/04/08 01:12	1.0		
028	338a028	X	TANKCHECK			12/04/08 01:40	1.0		
029	338a029	IB	CALIB			12/04/08 12:34	1.0		
030	338a030	ICAL	MO_250			12/04/08 13:02	1.0	10	

ATL 12/04/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 30.

Analyst: ATL Date: 12/04/08 Reviewer: CP Date: 12/04/08

Standards used: 1=S10268 2=S10245 3=S10089 4=S10218 5=S10552 6=S10773 7=S10774 8=S10775 9=S10563 10=S10565 11=S10564 12=S10566 13=S10567 14=S10568 15=S10515 16=S10516 17=S10517 18=S10518 19=S10514

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CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868514507

Instrument : GC26A Begun : 12/22/08 07:07
Method : EPA 8015B SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used
001	357a001	X	IB				12/22/08 07:07	1.0	
002	357a002	X	IB				12/22/08 07:35	1.0	
003	357a003	X	CMARKER				12/22/08 08:07	1.0	1
004	357a004	CCV	DSL_500				12/22/08 08:35	1.0	2
005	357a005	CCV	MO_500				12/22/08 09:04	1.0	3
006	357a006	CCV	JP5_250				12/22/08 09:32	1.0	4
007	357a007	BS	QC476066		Water	146148	12/22/08 10:17	1.0	
008	357a008	BSD	QC476067		Water	146148	12/22/08 10:53	1.0	
009	357a009	SAMPLE	208593-006		Water	146148	12/22/08 11:21	1.0	
010	357a010	X	IB				12/22/08 11:49	1.0	
011	357a011	SAMPLE	208525-001		Water	146148	12/22/08 12:18	1.0	
012	357a012	SAMPLE	208525-002		Water	146148	12/22/08 12:46	1.0	
013	357a013	SAMPLE	208525-003		Water	146148	12/22/08 13:15	1.0	
016	357a016	SAMPLE	208651-056		Water	146148	12/22/08 13:47	1.0	
017	357a017	SAMPLE	208651-058		Water	146148	12/22/08 14:16	1.0	
018	357a018	CCV	DSL_1000				12/22/08 14:45	1.0	5
019	357a019	CCV	MO_500				12/22/08 15:13	1.0	3
020	357a020	CCV	JP5_250				12/22/08 15:42	1.0	4
021	357a021	X	CMARKER				12/22/08 16:10	1.0	1
022	357a022	CCV	OTP_50				12/22/08 16:45	1.0	6
023	357a023	BLANK	QC476602		Water	146274	12/22/08 17:55	1.0	
024	357a024	LCS	QC476603		Water	146274	12/22/08 18:23	1.0	
025	357a025	MSS	208752-002		Water	146274	12/22/08 18:52	1.0	
026	357a026	MS	QC476604		Water	146274	12/22/08 19:20	1.0	
027	357a027	MSD	QC476605		Water	146274	12/22/08 19:48	1.0	
028	357a028	LCS	QC476606		Water	146274	12/22/08 20:17	1.0	
029	357a029	SAMPLE	208749-004		Water	146274	12/22/08 20:45	1.0	
030	357a030	SAMPLE	208749-005		Water	146274	12/22/08 21:13	1.0	
031	357a031	SAMPLE	208749-006		Water	146274	12/22/08 21:41	1.0	
032	357a032	SAMPLE	208749-007		Water	146274	12/22/08 22:10	1.0	
033	357a033	X	CCV				12/22/08 22:38	1.0	7
034	357a034	X	CCV				12/22/08 23:06	1.0	3
035	357a035	CCV	OTP_50				12/22/08 23:34	1.0	6
036	357a036	CCV	DSL_250				12/23/08 00:03	1.0	7
037	357a037	CCV	MO_500				12/23/08 00:31	1.0	3
038	357a038	X	CCV				12/23/08 01:00	1.0	6
039	357a039	SAMPLE	208749-008		Water	146274	12/23/08 01:28	1.0	
040	357a040	SAMPLE	208749-009		Water	146274	12/23/08 01:56	1.0	
041	357a041	SAMPLE	208750-002		Water	146274	12/23/08 02:25	1.0	
042	357a042	SAMPLE	208750-003		Water	146274	12/23/08 02:53	1.0	
043	357a043	SAMPLE	208750-004		Water	146274	12/23/08 03:21	1.0	
044	357a044	SAMPLE	208750-005		Water	146274	12/23/08 03:49	1.0	
045	357a045	SAMPLE	208750-006		Water	146274	12/23/08 04:17	1.0	
046	357a046	SAMPLE	208750-007		Water	146274	12/23/08 04:45	1.0	
047	357a047	SAMPLE	208752-003		Water	146274	12/23/08 05:14	1.0	
048	357a048	SAMPLE	208752-004		Water	146274	12/23/08 05:42	1.0	
049	357a049	CCV	DSL_500				12/23/08 06:10	1.0	2
050	357a050	CCV	MO_500				12/23/08 06:39	1.0	3
051	357a051	CCV	OTP_50				12/23/08 07:07	1.0	6
052	357a052	SAMPLE	208752-005		Water	146274	12/23/08 09:34	1.0	
053	357a053	SAMPLE	208752-006		Water	146274	12/23/08 10:02	1.0	
054	357a054	SAMPLE	208752-007		Water	146274	12/23/08 10:30	1.0	

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868514507

Instrument : GC26A Begun : 12/22/08 07:07
Method : EPA 8015B SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
055	357a055	SAMPLE	208752-008		Water	146274	12/23/08 10:59	1.0		
056	357a056	SAMPLE	208752-009		Water	146274	12/23/08 11:27	1.0		
057	357a057	SAMPLE	208504-011	S	Water	146032	12/23/08 11:56	1.0		
058	357a058	X	CMARKER				12/23/08 12:33	1.0	1	
059	357a059	CCV	DSL_1000				12/23/08 13:02	1.0	5	
060	357a060	CCV	MO_500				12/23/08 13:30	1.0	3	
061	357a061	CCV	OTP_50				12/23/08 13:59	1.0	6	
062	357a062	CCV	DSL_1000				12/23/08 16:25	1.0	5	
063	357a063	CCV	DSL_1000				12/23/08 16:54	1.0	5	

JDG 12/22/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 13.

ATL 01/05/09 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 14 through 63.

Standards used: 1=S10268 2=S10774 3=S10552 4=S10245 5=S10775 6=S10089 7=S10773

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 868517362

Instrument : GC26A Begun : 12/24/08 06:42
Method : EPA 8015B SOP Version : TEH_rv13

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	359a001	X	IB				12/24/08 06:42	1.0		
002	359a002	X	IB				12/24/08 07:11	1.0		
003	359a003	X	CMARKER				12/24/08 07:39	1.0	1	
004	359a004	CCV	DSL_500				12/24/08 08:07	1.0	2	
005	359a005	CCV	MO_500				12/24/08 08:36	1.0	3	
006	359a006	CCV	OTP_50				12/24/08 09:04	1.0	4	
007	359a007	X	TANKCHECK				12/24/08 09:33	1.0		
008	359a008	SAMPLE	208752-005		Water	146274	12/24/08 10:01	1.0		
009	359a009	SAMPLE	208752-006		Water	146274	12/24/08 10:30	1.0		
010	359a010	SAMPLE	208752-007		Water	146274	12/24/08 10:58	1.0		
011	359a011	SAMPLE	208752-008		Water	146274	12/24/08 11:27	1.0		
012	359a012	SAMPLE	208752-009		Water	146274	12/24/08 11:56	1.0		
013	359a013	CCV	DSL_1000				12/24/08 12:43	1.0	5	
014	359a014	X	CCV				12/24/08 13:11	1.0	3	
015	359a015	CCV	OTP_50				12/24/08 13:40	1.0	4	
016	359a016	CCV	MO_500				12/24/08 14:08	1.0	3	
017	359a017	SAMPLE	208738-001	S	Water	146353	12/24/08 15:37	1.0		
018	359a018	SAMPLE	208738-002	S	Water	146353	12/24/08 16:05	1.0		
019	359a019	SAMPLE	208738-003	S	Water	146353	12/24/08 16:55	1.0		
020	359a020	BLANK	QC476648		Water	146285	12/24/08 17:26	1.0		
021	359a021	LCS	QC476649		Water	146285	12/24/08 17:54	1.0		
022	359a022	MSS	208749-002		Water	146285	12/24/08 18:22	1.0		
023	359a023	MS	QC476650		Water	146285	12/24/08 18:51	1.0		
024	359a024	MSD	QC476651		Water	146285	12/24/08 19:19	1.0		
025	359a025	LCS	QC476652		Water	146285	12/24/08 19:48	1.0		
026	359a026	SAMPLE	208749-003		Water	146285	12/24/08 20:16	1.0		
027	359a027	CCV	DSL_500				12/24/08 20:44	1.0	2	
028	359a028	CCV	MO_500				12/24/08 21:13	1.0	3	
029	359a029	CCV	OTP_50				12/24/08 21:41	1.0	4	
030	359a030	X	CCV				12/24/08 22:10	1.0	2	
031	359a031	X	CCV				12/24/08 22:38	1.0	3	
032	359a032	X	CCV				12/24/08 23:07	1.0	4	
033	359a033	BLANK	QC476904		Water	146353	12/24/08 23:35	1.0		
034	359a034	SAMPLE	208738-004	S	Water	146353	12/25/08 00:04	1.0		
035	359a035	SAMPLE	208738-005	S	Water	146353	12/25/08 00:32	1.0		
036	359a036	SAMPLE	208738-006	S	Water	146353	12/25/08 01:01	1.0		
037	359a037	SAMPLE	208738-007	S	Water	146353	12/25/08 01:29	1.0		
038	359a038	SAMPLE	208736-001		Water	146353	12/25/08 01:58	1.0		
039	359a039	SAMPLE	208736-002		Water	146353	12/25/08 02:26	1.0		
040	359a040	X	CMARKER				12/25/08 02:54	1.0	1	
041	359a041	CCV	DSL_1000				12/25/08 03:23	1.0	5	
042	359a042	CCV	MO_500				12/25/08 03:51	1.0	3	
043	359a043	X	CCV				12/25/08 04:20	1.0	2	
044	359a044	X	CCV				12/25/08 04:48	1.0	3	

ATL 12/29/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 44.

Standards used: 1=S10268 2=S10774 3=S10552 4=S10089 5=S10775

SAMPLE PREPARATION SUMMARY

Batch # : 146274
Started By : DJT
Method : 3520C
Spike #1 ID : S10879

Prep Date : 19-DEC-2008 13:40
Spike #2 ID : S10905

Analysis : 8015AZ
Finished By : DJT
Units : mL
Spike #3 ID : S10956

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
208749-004		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208749-005		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208749-006		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208749-007		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208749-008		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208749-009		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208750-002		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208750-003		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208750-004		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208750-005		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208750-006		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208750-007		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208752-002		Water	500	2.5	1	0.005	7	.5		.5		TEHM	mss
208752-003		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208752-004		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208752-005		Water	500	2.5	1	0.005	7	.5		.5		TEHM	See comment 1 below
208752-006		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208752-007		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208752-008		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
208752-009		Water	500	2.5	1	0.005	7	.5		.5		TEHM	
QC476602	BLANK	Water	500	2.5	1	0.005		.5		.5		8015AZ	
QC476603	LCS	Water	500	2.5	1	0.005		.5	.5	.5		8015AZ	
QC476604	MS	Water	500	2.5	1	0.005	7	.5	.5	.5		8015AZ	
QC476605	MSD	Water	500	2.5	1	0.005	7	.5	.5	.5		8015AZ	
QC476606	LCS	Water	500	2.5	1	0.005		.5		.5		8015AZ	+.5 mL S10787A

Comment 1: small spill during pour (poss loss surr)

Analyst: ATL Date: 01/02/09 Reviewer: CP Date: 01/02/09

TEH (8015) Water Prep Log

Curtis & Tompkins, Ltd.

LIMS Batch No: 146274
LIMS Analysis: 8015AZ
Date Extracted: 12/19/08

Extraction Method:
☐ mod. EPA 3510c sep. funnel
☒ mod. EPA 3520c cont. L/L

Cleanup Method (if needed):
☐ EPA 3630c Silica Gel

Sample #	Container ID	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
208752-002	K	500	7	2.5		MSS
003	E					
004	D					
005	↓					
006	E					
007						
008						
009	↓					
208749-004	D					
005						
006	↓					
007	E					
008	↓					
009	D					
208750-002	E					
003	D					
004	E					
005	D					SMALL SPILL DURING POUR (PESS LOSS SURR)
006						
007	↓		↓			
MB QC476602	NA		NA			
LCS 3	↓		↓			
MS 4	M		7			208752-002
MSD 5	N		↓			↓
★ LCS 6	NA	↓	NA	↓		

RFW 12/24/08

0.5/0.5 mL of TEH_SURR was added to all samples
★0.5/0.5 mL of TEH_SP was added to all spikes
pH of all samples adjusted to pH ≤ 2 with H_2SO_4
☒ 3520c: Samples were continually extracted about 450 mL of CH_2Cl_2
Extraction Start Time:
Extraction End Time:
☐ 3510c: Samples were extracted 3 times with 60 mL of CH_2Cl_2
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4
Concentrated to final volume at temperature (degrees C)
Relinquished to TEH Department

Mfg & Lot# / LIMS # / Time	Date/ Initials
5108798/510956A	DJT 12/19/08
510905B/510787A★	↓
FS085385	↓
EM48291	↓
1340	↓
0840	RFW 12/20/08
NA	DJT 12/22/08
EM48315847	↓
100°	↓
✓	↓

12/19/08
Extraction Chemist **Date**

Contined from Page ___
Continued on Page ___

12/24/08
Reviewed by **Date**

Laboratory Job Number 208752

ANALYTICAL REPORT

Volatile Organics by GC/MS

Matrix: Water

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	TB-121208	Batch#:	146322
Lab ID:	208752-001	Sampled:	12/12/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/22/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	V9
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	TB-121208	Batch#:	146322
Lab ID:	208752-001	Sampled:	12/12/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/22/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	102	77-120	
1,2-Dichloroethane-d4	106	70-127	
Toluene-d8	99	83-125	
Bromofluorobenzene	97	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-127A-8D1	Batch#:	146322
Lab ID:	208752-002	Sampled:	12/12/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/22/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	M1
Bromomethane	ND	1.0	V9
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	R5
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	M1
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-127A-8D1	Batch#:	146322
Lab ID:	208752-002	Sampled:	12/12/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/22/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	102	77-120	
1,2-Dichloroethane-d4	98	70-127	
Toluene-d8	97	83-125	
Bromofluorobenzene	101	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	BC-7A-8D1	Batch#:	146322
Lab ID:	208752-003	Sampled:	12/12/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/22/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	V9
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	BC-7A-8D1	Batch#:	146322
Lab ID:	208752-003	Sampled:	12/12/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/22/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	100	77-120	
1,2-Dichloroethane-d4	102	70-127	
Toluene-d8	99	83-125	
Bromofluorobenzene	102	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-116A-8D1	Units:	ug/L
Lab ID:	208752-004	Sampled:	12/12/08
Matrix:	Water	Received:	12/18/08

Analyte	Result	RL	Diln Fac	Batch#	Analyzed	ADEQ Flags
Freon 12	ND	1.0	1.000	146322	12/22/08	V9
Chloromethane	ND	1.0	1.000	146322	12/22/08	V9
Vinyl Chloride	ND	0.5	1.000	146322	12/22/08	
Bromomethane	ND	1.0	1.000	146322	12/22/08	
Chloroethane	ND	1.0	1.000	146322	12/22/08	
Trichlorofluoromethane	ND	1.0	1.000	146322	12/22/08	
Iodomethane	ND	10	1.000	146322	12/22/08	
Acetone	ND	10	1.000	146322	12/22/08	
1,1-Dichloroethene	ND	0.5	1.000	146322	12/22/08	
Methylene Chloride	ND	10	1.000	146322	12/22/08	
Carbon Disulfide	ND	0.5	1.000	146322	12/22/08	
MTBE	66	0.5	1.000	146322	12/22/08	
trans-1,2-Dichloroethene	ND	0.5	1.000	146322	12/22/08	
Vinyl Acetate	ND	10	1.000	146322	12/22/08	V9
1,1-Dichloroethane	ND	0.5	1.000	146322	12/22/08	
2-Butanone	ND	10	1.000	146322	12/22/08	
cis-1,2-Dichloroethene	ND	0.5	1.000	146322	12/22/08	
2,2-Dichloropropane	ND	0.5	1.000	146322	12/22/08	
Chloroform	ND	0.5	1.000	146322	12/22/08	
Bromochloromethane	ND	0.5	1.000	146322	12/22/08	
1,1,1-Trichloroethane	ND	0.5	1.000	146322	12/22/08	
1,1-Dichloropropene	ND	0.5	1.000	146322	12/22/08	
Carbon Tetrachloride	ND	0.5	1.000	146322	12/22/08	
1,2-Dichloroethane	ND	0.5	1.000	146322	12/22/08	
Benzene	150	2.0	4.000	146372	12/23/08	D1
Trichloroethene	2.0	0.5	1.000	146322	12/22/08	
1,2-Dichloropropane	ND	0.5	1.000	146322	12/22/08	
Bromodichloromethane	ND	0.5	1.000	146322	12/22/08	
Dibromomethane	ND	0.5	1.000	146322	12/22/08	
4-Methyl-2-Pentanone	ND	10	1.000	146322	12/22/08	
cis-1,3-Dichloropropene	ND	0.5	1.000	146322	12/22/08	
Toluene	ND	0.5	1.000	146322	12/22/08	
trans-1,3-Dichloropropene	ND	0.5	1.000	146322	12/22/08	
1,1,2-Trichloroethane	ND	0.5	1.000	146322	12/22/08	
2-Hexanone	ND	10	1.000	146322	12/22/08	
1,3-Dichloropropane	ND	0.5	1.000	146322	12/22/08	
Tetrachloroethene	0.5	0.5	1.000	146322	12/22/08	
Dibromochloromethane	ND	0.5	1.000	146322	12/22/08	
1,2-Dibromoethane	ND	0.5	1.000	146322	12/22/08	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-116A-8D1	Units:	ug/L
Lab ID:	208752-004	Sampled:	12/12/08
Matrix:	Water	Received:	12/18/08

Analyte	Result	RL	Diln Fac	Batch#	Analyzed	ADEQ Flags
Chlorobenzene	ND	0.5	1.000	146322	12/22/08	
1,1,1,2-Tetrachloroethane	ND	0.5	1.000	146322	12/22/08	
Ethylbenzene	41	0.5	1.000	146322	12/22/08	
m,p-Xylenes	1.1	0.5	1.000	146322	12/22/08	
o-Xylene	ND	0.5	1.000	146322	12/22/08	
Styrene	ND	0.5	1.000	146322	12/22/08	
Bromoform	ND	1.0	1.000	146322	12/22/08	
Isopropylbenzene	39	0.5	1.000	146322	12/22/08	
1,1,2,2-Tetrachloroethane	ND	0.5	1.000	146322	12/22/08	
1,2,3-Trichloropropane	ND	0.5	1.000	146322	12/22/08	
Propylbenzene	30	0.5	1.000	146322	12/22/08	
Bromobenzene	ND	0.5	1.000	146322	12/22/08	
1,3,5-Trimethylbenzene	ND	0.5	1.000	146322	12/22/08	
2-Chlorotoluene	ND	0.5	1.000	146322	12/22/08	
4-Chlorotoluene	ND	0.5	1.000	146322	12/22/08	
tert-Butylbenzene	0.7	0.5	1.000	146322	12/22/08	
1,2,4-Trimethylbenzene	1.0	0.5	1.000	146322	12/22/08	
sec-Butylbenzene	4.4	0.5	1.000	146322	12/22/08	
para-Isopropyl Toluene	ND	0.5	1.000	146322	12/22/08	
1,3-Dichlorobenzene	ND	0.5	1.000	146322	12/22/08	
1,4-Dichlorobenzene	ND	0.5	1.000	146322	12/22/08	
n-Butylbenzene	ND	0.5	1.000	146322	12/22/08	
1,2-Dichlorobenzene	ND	0.5	1.000	146322	12/22/08	
1,2-Dibromo-3-Chloropropane	ND	2.0	1.000	146322	12/22/08	
1,2,4-Trichlorobenzene	ND	0.5	1.000	146322	12/22/08	
Hexachlorobutadiene	ND	2.0	1.000	146322	12/22/08	
Naphthalene	47	2.0	1.000	146322	12/22/08	
1,2,3-Trichlorobenzene	ND	0.5	1.000	146322	12/22/08	
Xylene (total)	1.1	0.5	1.000	146322	12/22/08	

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed	ADEQ Flags
Dibromofluoromethane	100	77-120	1.000	146322	12/22/08	
1,2-Dichloroethane-d4	97	70-127	1.000	146322	12/22/08	
Toluene-d8	100	83-125	1.000	146322	12/22/08	
Bromofluorobenzene	105	78-120	1.000	146322	12/22/08	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	PL-514-8D1	Sampled:	12/12/08
Lab ID:	208752-005	Received:	12/18/08
Matrix:	Water	Analyzed:	12/23/08
Units:	ug/L		

Analyte	Result	RL	Diln Fac	Batch#	ADEQ Flags
Freon 12	ND	1.0	1.000	146322	V9
Chloromethane	ND	1.0	1.000	146322	V9
Vinyl Chloride	ND	0.5	1.000	146322	
Bromomethane	ND	1.0	1.000	146322	
Chloroethane	ND	1.0	1.000	146322	
Trichlorofluoromethane	ND	1.0	1.000	146322	
Iodomethane	ND	10	1.000	146322	
Acetone	ND	10	1.000	146322	
1,1-Dichloroethene	ND	0.5	1.000	146322	
Methylene Chloride	ND	10	1.000	146322	
Carbon Disulfide	ND	0.5	1.000	146322	
MTBE	67	0.5	1.000	146322	
trans-1,2-Dichloroethene	ND	0.5	1.000	146322	
Vinyl Acetate	ND	10	1.000	146322	V9
1,1-Dichloroethane	ND	0.5	1.000	146322	
2-Butanone	ND	10	1.000	146322	
cis-1,2-Dichloroethene	ND	0.5	1.000	146322	
2,2-Dichloropropane	ND	0.5	1.000	146322	
Chloroform	ND	0.5	1.000	146322	
Bromochloromethane	ND	0.5	1.000	146322	
1,1,1-Trichloroethane	ND	0.5	1.000	146322	
1,1-Dichloropropene	ND	0.5	1.000	146322	
Carbon Tetrachloride	ND	0.5	1.000	146322	
1,2-Dichloroethane	ND	0.5	1.000	146322	
Benzene	160	2.0	4.000	146372	D1
Trichloroethene	1.7	0.5	1.000	146322	
1,2-Dichloropropane	ND	0.5	1.000	146322	
Bromodichloromethane	ND	0.5	1.000	146322	
Dibromomethane	ND	0.5	1.000	146322	
4-Methyl-2-Pentanone	ND	10	1.000	146322	
cis-1,3-Dichloropropene	ND	0.5	1.000	146322	
Toluene	ND	0.5	1.000	146322	
trans-1,3-Dichloropropene	ND	0.5	1.000	146322	
1,1,2-Trichloroethane	ND	0.5	1.000	146322	
2-Hexanone	ND	10	1.000	146322	
1,3-Dichloropropane	ND	0.5	1.000	146322	
Tetrachloroethene	ND	0.5	1.000	146322	
Dibromochloromethane	ND	0.5	1.000	146322	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	PL-514-8D1	Sampled:	12/12/08
Lab ID:	208752-005	Received:	12/18/08
Matrix:	Water	Analyzed:	12/23/08
Units:	ug/L		

Analyte	Result	RL	Diln Fac	Batch#	ADEQ Flags
1,2-Dibromoethane	ND	0.5	1.000	146322	
Chlorobenzene	ND	0.5	1.000	146322	
1,1,1,2-Tetrachloroethane	ND	0.5	1.000	146322	
Ethylbenzene	39	0.5	1.000	146322	
m,p-Xylenes	1.0	0.5	1.000	146322	
o-Xylene	ND	0.5	1.000	146322	
Styrene	ND	0.5	1.000	146322	
Bromoform	ND	1.0	1.000	146322	
Isopropylbenzene	40	0.5	1.000	146322	
1,1,2,2-Tetrachloroethane	ND	0.5	1.000	146322	
1,2,3-Trichloropropane	ND	0.5	1.000	146322	
Propylbenzene	31	0.5	1.000	146322	
Bromobenzene	ND	0.5	1.000	146322	
1,3,5-Trimethylbenzene	ND	0.5	1.000	146322	
2-Chlorotoluene	ND	0.5	1.000	146322	
4-Chlorotoluene	ND	0.5	1.000	146322	
tert-Butylbenzene	0.8	0.5	1.000	146322	
1,2,4-Trimethylbenzene	1.1	0.5	1.000	146322	
sec-Butylbenzene	4.5	0.5	1.000	146322	
para-Isopropyl Toluene	ND	0.5	1.000	146322	
1,3-Dichlorobenzene	ND	0.5	1.000	146322	
1,4-Dichlorobenzene	ND	0.5	1.000	146322	
n-Butylbenzene	ND	0.5	1.000	146322	
1,2-Dichlorobenzene	ND	0.5	1.000	146322	
1,2-Dibromo-3-Chloropropane	ND	2.0	1.000	146322	
1,2,4-Trichlorobenzene	ND	0.5	1.000	146322	
Hexachlorobutadiene	ND	2.0	1.000	146322	
Naphthalene	51	2.0	1.000	146322	
1,2,3-Trichlorobenzene	ND	0.5	1.000	146322	
Xylene (total)	1.0	0.5	1.000	146322	

Surrogate	%REC	Limits	Diln Fac	Batch#	ADEQ Flags
Dibromofluoromethane	100	77-120	1.000	146322	
1,2-Dichloroethane-d4	95	70-127	1.000	146322	
Toluene-d8	101	83-125	1.000	146322	
Bromofluorobenzene	101	78-120	1.000	146322	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-38A-8D1	Sampled:	12/12/08
Lab ID:	208752-006	Received:	12/18/08
Matrix:	Water	Analyzed:	12/23/08
Units:	ug/L		

Analyte	Result	RL	Diln Fac	Batch#	ADEQ Flags
Freon 12	ND	3.3	3.333	146322	D2 V9
Chloromethane	ND	3.3	3.333	146322	D2 V9
Vinyl Chloride	ND	1.7	3.333	146322	D2
Bromomethane	ND	3.3	3.333	146322	D2
Chloroethane	ND	3.3	3.333	146322	D2
Trichlorofluoromethane	ND	3.3	3.333	146322	D2
Iodomethane	ND	33	3.333	146322	D2
Acetone	ND	33	3.333	146322	D2
1,1-Dichloroethene	ND	1.7	3.333	146322	D2
Methylene Chloride	ND	33	3.333	146322	D2
Carbon Disulfide	ND	1.7	3.333	146322	D2
MTBE	24	1.7	3.333	146322	D2
trans-1,2-Dichloroethene	ND	1.7	3.333	146322	D2
Vinyl Acetate	ND	33	3.333	146322	D2 V9
1,1-Dichloroethane	ND	1.7	3.333	146322	D2
2-Butanone	ND	33	3.333	146322	D2
cis-1,2-Dichloroethene	ND	1.7	3.333	146322	D2
2,2-Dichloropropane	ND	1.7	3.333	146322	D2
Chloroform	ND	1.7	3.333	146322	D2
Bromochloromethane	ND	1.7	3.333	146322	D2
1,1,1-Trichloroethane	ND	1.7	3.333	146322	D2
1,1-Dichloropropene	ND	1.7	3.333	146322	D2
Carbon Tetrachloride	ND	1.7	3.333	146322	D2
1,2-Dichloroethane	ND	1.7	3.333	146322	D2
Benzene	620	7.1	14.29	146372	D1
Trichloroethene	ND	1.7	3.333	146322	D2
1,2-Dichloropropane	ND	1.7	3.333	146322	D2
Bromodichloromethane	ND	1.7	3.333	146322	D2
Dibromomethane	ND	1.7	3.333	146322	D2
4-Methyl-2-Pentanone	ND	33	3.333	146322	D2
cis-1,3-Dichloropropene	ND	1.7	3.333	146322	D2
Toluene	ND	1.7	3.333	146322	D2
trans-1,3-Dichloropropene	ND	1.7	3.333	146322	D2
1,1,2-Trichloroethane	ND	1.7	3.333	146322	D2
2-Hexanone	ND	33	3.333	146322	D2
1,3-Dichloropropane	ND	1.7	3.333	146322	D2
Tetrachloroethene	ND	1.7	3.333	146322	D2
Dibromochloromethane	ND	1.7	3.333	146322	D2

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-38A-8D1	Sampled:	12/12/08
Lab ID:	208752-006	Received:	12/18/08
Matrix:	Water	Analyzed:	12/23/08
Units:	ug/L		

Analyte	Result	RL	Diln Fac	Batch#	ADEQ Flags
1,2-Dibromoethane	ND	1.7	3.333	146322	D2
Chlorobenzene	ND	1.7	3.333	146322	D2
1,1,1,2-Tetrachloroethane	ND	1.7	3.333	146322	D2
Ethylbenzene	59	1.7	3.333	146322	D2
m,p-Xylenes	3.7	1.7	3.333	146322	D2
o-Xylene	ND	1.7	3.333	146322	D2
Styrene	ND	1.7	3.333	146322	D2
Bromoform	ND	3.3	3.333	146322	D2
Isopropylbenzene	14	1.7	3.333	146322	D2
1,1,2,2-Tetrachloroethane	ND	1.7	3.333	146322	D2
1,2,3-Trichloropropane	ND	1.7	3.333	146322	D2
Propylbenzene	11	1.7	3.333	146322	D2
Bromobenzene	ND	1.7	3.333	146322	D2
1,3,5-Trimethylbenzene	ND	1.7	3.333	146322	D2
2-Chlorotoluene	ND	1.7	3.333	146322	D2
4-Chlorotoluene	ND	1.7	3.333	146322	D2
tert-Butylbenzene	ND	1.7	3.333	146322	D2
1,2,4-Trimethylbenzene	3.5	1.7	3.333	146322	D2
sec-Butylbenzene	1.8	1.7	3.333	146322	D2
para-Isopropyl Toluene	ND	1.7	3.333	146322	D2
1,3-Dichlorobenzene	ND	1.7	3.333	146322	D2
1,4-Dichlorobenzene	ND	1.7	3.333	146322	D2
n-Butylbenzene	1.8	1.7	3.333	146322	D2
1,2-Dichlorobenzene	ND	1.7	3.333	146322	D2
1,2-Dibromo-3-Chloropropane	ND	6.7	3.333	146322	D2
1,2,4-Trichlorobenzene	ND	1.7	3.333	146322	D2
Hexachlorobutadiene	ND	6.7	3.333	146322	D2
Naphthalene	37	6.7	3.333	146322	D2
1,2,3-Trichlorobenzene	ND	1.7	3.333	146322	D2
Xylene (total)	3.7	1.7	3.333	146322	D2

Surrogate	%REC	Limits	Diln Fac	Batch#	ADEQ Flags
Dibromofluoromethane	98	77-120	3.333	146322	
1,2-Dichloroethane-d4	89	70-127	3.333	146322	
Toluene-d8	100	83-125	3.333	146322	
Bromofluorobenzene	103	78-120	3.333	146322	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-37A-8D1	Batch#:	146322
Lab ID:	208752-007	Sampled:	12/12/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	V9
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	3.0	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	18	0.5	
Trichloroethene	1.6	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	0.7	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-37A-8D1	Batch#:	146322
Lab ID:	208752-007	Sampled:	12/12/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	4.1	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	8.1	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	7.2	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	5.8	0.5	
sec-Butylbenzene	2.3	0.5	
para-Isopropyl Toluene	0.6	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	1.6	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	
Naphthalene	10	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	98	77-120	
1,2-Dichloroethane-d4	93	70-127	
Toluene-d8	97	83-125	
Bromofluorobenzene	100	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-63A-8D1	Sampled:	12/12/08
Lab ID:	208752-008	Received:	12/18/08
Matrix:	Water	Analyzed:	12/23/08
Units:	ug/L		

Analyte	Result	RL	Diln Fac	Batch#	ADEQ Flags
Freon 12	ND	10	10.00	146322	D2 V9
Chloromethane	ND	10	10.00	146322	D2 V9
Vinyl Chloride	ND	5.0	10.00	146322	D2
Bromomethane	ND	10	10.00	146322	D2
Chloroethane	ND	10	10.00	146322	D2
Trichlorofluoromethane	ND	10	10.00	146322	D2
Iodomethane	ND	100	10.00	146322	D2
Acetone	ND	100	10.00	146322	D2
1,1-Dichloroethene	ND	5.0	10.00	146322	D2
Methylene Chloride	ND	100	10.00	146322	D2
Carbon Disulfide	ND	5.0	10.00	146322	D2
MTBE	120	5.0	10.00	146322	D2
trans-1,2-Dichloroethene	ND	5.0	10.00	146322	D2
Vinyl Acetate	ND	100	10.00	146322	D2 V9
1,1-Dichloroethane	ND	5.0	10.00	146322	D2
2-Butanone	ND	100	10.00	146322	D2
cis-1,2-Dichloroethene	ND	5.0	10.00	146322	D2
2,2-Dichloropropane	ND	5.0	10.00	146322	D2
Chloroform	ND	5.0	10.00	146322	D2
Bromochloromethane	ND	5.0	10.00	146322	D2
1,1,1-Trichloroethane	ND	5.0	10.00	146322	D2
1,1-Dichloropropene	ND	5.0	10.00	146322	D2
Carbon Tetrachloride	ND	5.0	10.00	146322	D2
1,2-Dichloroethane	ND	5.0	10.00	146322	D2
Benzene	2,000	25	50.00	146372	D1
Trichloroethene	17	5.0	10.00	146322	D2
1,2-Dichloropropane	ND	5.0	10.00	146322	D2
Bromodichloromethane	ND	5.0	10.00	146322	D2
Dibromomethane	ND	5.0	10.00	146322	D2
4-Methyl-2-Pentanone	ND	100	10.00	146322	D2
cis-1,3-Dichloropropene	ND	5.0	10.00	146322	D2
Toluene	ND	5.0	10.00	146322	D2
trans-1,3-Dichloropropene	ND	5.0	10.00	146322	D2
1,1,2-Trichloroethane	ND	5.0	10.00	146322	D2
2-Hexanone	ND	100	10.00	146322	D2
1,3-Dichloropropane	ND	5.0	10.00	146322	D2
Tetrachloroethene	ND	5.0	10.00	146322	D2
Dibromochloromethane	ND	5.0	10.00	146322	D2

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-63A-8D1	Sampled:	12/12/08
Lab ID:	208752-008	Received:	12/18/08
Matrix:	Water	Analyzed:	12/23/08
Units:	ug/L		

Analyte	Result	RL	Diln Fac	Batch#	ADEQ Flags
1,2-Dibromoethane	ND	5.0	10.00	146322	D2
Chlorobenzene	ND	5.0	10.00	146322	D2
1,1,1,2-Tetrachloroethane	ND	5.0	10.00	146322	D2
Ethylbenzene	5.3	5.0	10.00	146322	D2
m,p-Xylenes	ND	5.0	10.00	146322	D2
o-Xylene	ND	5.0	10.00	146322	D2
Styrene	ND	5.0	10.00	146322	D2
Bromoform	ND	10	10.00	146322	D2
Isopropylbenzene	66	5.0	10.00	146322	D2
1,1,2,2-Tetrachloroethane	ND	5.0	10.00	146322	D2
1,2,3-Trichloropropane	ND	5.0	10.00	146322	D2
Propylbenzene	47	5.0	10.00	146322	D2
Bromobenzene	ND	5.0	10.00	146322	D2
1,3,5-Trimethylbenzene	ND	5.0	10.00	146322	D2
2-Chlorotoluene	ND	5.0	10.00	146322	D2
4-Chlorotoluene	ND	5.0	10.00	146322	D2
tert-Butylbenzene	ND	5.0	10.00	146322	D2
1,2,4-Trimethylbenzene	ND	5.0	10.00	146322	D2
sec-Butylbenzene	6.9	5.0	10.00	146322	D2
para-Isopropyl Toluene	ND	5.0	10.00	146322	D2
1,3-Dichlorobenzene	ND	5.0	10.00	146322	D2
1,4-Dichlorobenzene	ND	5.0	10.00	146322	D2
n-Butylbenzene	ND	5.0	10.00	146322	D2
1,2-Dichlorobenzene	ND	5.0	10.00	146322	D2
1,2-Dibromo-3-Chloropropane	ND	20	10.00	146322	D2
1,2,4-Trichlorobenzene	ND	5.0	10.00	146322	D2
Hexachlorobutadiene	ND	20	10.00	146322	D2
Naphthalene	160	20	10.00	146322	D2
1,2,3-Trichlorobenzene	ND	5.0	10.00	146322	D2
Xylene (total)	ND	5.0	10.00	146322	D2

Surrogate	%REC	Limits	Diln Fac	Batch#	ADEQ Flags
Dibromofluoromethane	97	77-120	10.00	146322	
1,2-Dichloroethane-d4	89	70-127	10.00	146322	
Toluene-d8	96	83-125	10.00	146322	
Bromofluorobenzene	99	78-120	10.00	146322	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	PL-510-8D1	Batch#:	146373
Lab ID:	208752-009	Sampled:	12/12/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	V1
Iodomethane	ND	10	V9
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	V1
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	L1 V1
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	L1 V1
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	0.8	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	V9
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	PL-510-8D1	Batch#:	146373
Lab ID:	208752-009	Sampled:	12/12/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	L1
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1 V1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	100	77-120	
1,2-Dichloroethane-d4	82	70-127	
Toluene-d8	101	83-125	
Bromofluorobenzene	106	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC476776	Batch#:	146322
Matrix:	Water	Analyzed:	12/22/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	V9
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC476776	Batch#:	146322
Matrix:	Water	Analyzed:	12/22/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	100	77-120	
1,2-Dichloroethane-d4	106	70-127	
Toluene-d8	101	83-125	
Bromofluorobenzene	98	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC476777	Batch#:	146322
Matrix:	Water	Analyzed:	12/22/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	V9
Chloromethane	ND	1.0	V9
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC476777	Batch#:	146322
Matrix:	Water	Analyzed:	12/22/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	102	77-120	
1,2-Dichloroethane-d4	101	70-127	
Toluene-d8	103	83-125	
Bromofluorobenzene	96	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC476974	Batch#:	146372
Matrix:	Water	Analyzed:	12/23/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Iodomethane	ND	10	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC476974	Batch#:	146372
Matrix:	Water	Analyzed:	12/23/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1 V1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	102	77-120	
1,2-Dichloroethane-d4	103	70-127	
Toluene-d8	102	83-125	
Bromofluorobenzene	101	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC476977	Batch#:	146373
Matrix:	Water	Analyzed:	12/23/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Freon 12	ND	1.0	
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	V1
Iodomethane	ND	10	V9
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	V9
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	V1
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	L1 V1
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	L1 V1
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	V9
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC476977	Batch#:	146373
Matrix:	Water	Analyzed:	12/23/08
Units:	ug/L		

Analyte	Result	RL	ADEQ Flags
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	L1
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	L1 V1
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Xylene (total)	ND	0.5	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	112	77-120	
1,2-Dichloroethane-d4	104	70-127	
Toluene-d8	104	83-125	
Bromofluorobenzene	114	78-120	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC476775	Batch#:	146322
Matrix:	Water	Analyzed:	12/22/08
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Freon 12	25.00	21.41	86	56-140	
Chloromethane	25.00	22.01	88	46-142	
Vinyl Chloride	25.00	27.72	111	49-136	
Bromomethane	25.00	18.88 b	76	42-154	V9
Chloroethane	25.00	25.21	101	51-133	
Trichlorofluoromethane	25.00	26.04	104	63-135	
Iodomethane	25.00	22.94 b	92	70-130	
Acetone	25.00	26.96	108	48-130	
1,1-Dichloroethene	25.00	26.39	106	68-133	
Methylene Chloride	25.00	26.63	107	71-120	
Carbon Disulfide	25.00	25.87	103	56-120	
MTBE	25.00	23.24	93	58-120	
trans-1,2-Dichloroethene	25.00	26.40	106	80-120	
Vinyl Acetate	25.00	20.31 b	81	63-124	
1,1-Dichloroethane	25.00	25.34	101	77-120	
2-Butanone	25.00	24.85	99	57-120	
cis-1,2-Dichloroethene	25.00	26.31	105	75-120	
2,2-Dichloropropane	25.00	29.22	117	72-128	
Chloroform	25.00	24.26	97	78-120	
Bromochloromethane	25.00	24.81	99	78-120	
1,1,1-Trichloroethane	25.00	27.38	110	78-120	
1,1-Dichloropropene	25.00	25.32	101	75-120	
Carbon Tetrachloride	25.00	26.49	106	80-120	
1,2-Dichloroethane	25.00	24.84	99	74-120	
Benzene	25.00	23.32	93	77-120	
Trichloroethene	25.00	24.61	98	78-122	
1,2-Dichloropropane	25.00	23.52	94	76-120	
Bromodichloromethane	25.00	25.11	100	78-120	
Dibromomethane	25.00	26.36	105	77-120	
4-Methyl-2-Pentanone	25.00	21.66	87	65-120	
cis-1,3-Dichloropropene	25.00	24.35	97	76-120	
Toluene	25.00	25.65	103	73-120	
trans-1,3-Dichloropropene	25.00	22.29	89	72-120	
1,1,2-Trichloroethane	25.00	25.41	102	76-120	
2-Hexanone	25.00	23.49	94	57-121	
1,3-Dichloropropane	25.00	25.38	102	75-120	
Tetrachloroethene	25.00	25.95	104	77-120	
Dibromochloromethane	25.00	23.93	96	76-120	

b= See narrative

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC476775	Batch#:	146322
Matrix:	Water	Analyzed:	12/22/08
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
1,2-Dibromoethane	25.00	25.37	101	77-120	
Chlorobenzene	25.00	23.98	96	78-120	
1,1,1,2-Tetrachloroethane	25.00	25.08	100	77-120	
Ethylbenzene	25.00	25.82	103	78-120	
m,p-Xylenes	50.00	52.87	106	77-120	
o-Xylene	25.00	25.65	103	77-120	
Styrene	25.00	25.58	102	77-120	
Bromoform	25.00	25.08	100	74-121	
Isopropylbenzene	25.00	23.31	93	71-120	
1,1,2,2-Tetrachloroethane	25.00	25.40	102	73-120	
1,2,3-Trichloropropane	25.00	25.07	100	72-120	
Propylbenzene	25.00	26.97	108	76-120	
Bromobenzene	25.00	25.29	101	75-120	
1,3,5-Trimethylbenzene	25.00	26.80	107	77-120	
2-Chlorotoluene	25.00	25.70	103	76-120	
4-Chlorotoluene	25.00	25.36	101	78-120	
tert-Butylbenzene	25.00	25.76	103	76-120	
1,2,4-Trimethylbenzene	25.00	27.47	110	77-120	
sec-Butylbenzene	25.00	29.50	118	80-120	
para-Isopropyl Toluene	25.00	27.25	109	76-120	
1,3-Dichlorobenzene	25.00	24.26	97	75-120	
1,4-Dichlorobenzene	25.00	24.18	97	77-120	
n-Butylbenzene	25.00	27.69	111	76-120	
1,2-Dichlorobenzene	25.00	25.71	103	76-120	
1,2-Dibromo-3-Chloropropane	25.00	24.26	97	65-120	
1,2,4-Trichlorobenzene	25.00	25.92	104	73-121	
Hexachlorobutadiene	25.00	30.00	120	73-123	
Naphthalene	25.00	24.21	97	62-121	
1,2,3-Trichlorobenzene	25.00	25.84	103	66-123	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	103	77-120	
1,2-Dichloroethane-d4	97	70-127	
Toluene-d8	102	83-125	
Bromofluorobenzene	94	78-120	

b= See narrative

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-127A-8D1	Batch#:	146322
MSS Lab ID:	208752-002	Sampled:	12/12/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/22/08
Diln Fac:	1.000		

Type: MS Lab ID: QC476797

Analyte	MSS Result	Spiked	Result	%REC	Limits	ADEQ Flags
Freon 12	<0.2000	25.00	31.41	126	56-140	
Chloromethane	<0.2000	25.00	27.02	108	46-142	
Vinyl Chloride	<0.1394	25.00	36.84	147 *	49-136	M1
Bromomethane	<0.2000	25.00	29.10 b	116	42-154	V9
Chloroethane	<0.2153	25.00	29.95	120	51-133	
Trichlorofluoromethane	<0.2000	25.00	31.82	127	63-135	
Iodomethane	<2.000	25.00	15.99 b	64	60-140	
Acetone	<1.000	25.00	18.01	72	48-130	
1,1-Dichloroethene	<0.1391	25.00	28.18	113	68-133	
Methylene Chloride	<1.000	25.00	27.26	109	71-120	
Carbon Disulfide	<0.1000	25.00	26.81	107	56-120	
MTBE	0.4598	25.00	23.20	91	58-120	
trans-1,2-Dichloroethene	<0.1082	25.00	27.88	112	80-120	
Vinyl Acetate	<2.000	25.00	19.90 b	80	63-124	
1,1-Dichloroethane	<0.1000	25.00	25.85	103	77-120	
2-Butanone	<2.000	25.00	21.98	88	57-120	
cis-1,2-Dichloroethene	<0.1267	25.00	27.91	112	75-120	
2,2-Dichloropropane	<0.1021	25.00	32.10	128	72-128	
Chloroform	<0.1048	25.00	25.64	103	78-120	
Bromochloromethane	<0.1195	25.00	25.85	103	78-120	
1,1,1-Trichloroethane	<0.1358	25.00	30.00	120	78-120	
1,1-Dichloropropene	<0.1367	25.00	29.02	116	75-120	
Carbon Tetrachloride	<0.1295	25.00	30.70	123 *	80-120	M1
1,2-Dichloroethane	<0.1080	25.00	26.42	106	74-120	
Benzene	<0.1000	25.00	26.55	106	77-120	
Trichloroethene	0.1842	25.00	27.64	110	78-122	
1,2-Dichloropropane	<0.1143	25.00	26.14	105	76-120	
Bromodichloromethane	<0.1539	25.00	27.52	110	78-120	
Dibromomethane	<0.1298	25.00	26.59	106	77-120	
4-Methyl-2-Pentanone	<2.000	25.00	21.44	86	65-120	
cis-1,3-Dichloropropene	<0.1420	25.00	25.30	101	76-120	
Toluene	<0.1116	25.00	28.21	113	73-120	
trans-1,3-Dichloropropene	<0.1000	25.00	23.27	93	72-120	
1,1,2-Trichloroethane	<0.1347	25.00	27.01	108	76-120	
2-Hexanone	<2.000	25.00	20.61	82	57-121	
1,3-Dichloropropane	<0.1000	25.00	23.82	95	75-120	
Tetrachloroethene	0.2546	25.00	27.67	110	77-120	
Dibromochloromethane	<0.1230	25.00	23.38	94	76-120	
1,2-Dibromoethane	<0.1000	25.00	26.47	106	77-120	
Chlorobenzene	<0.1000	25.00	24.21	97	78-120	
1,1,1,2-Tetrachloroethane	<0.1000	25.00	24.66	99	77-120	
Ethylbenzene	<0.1000	25.00	25.35	101	78-120	
m,p-Xylenes	<0.1581	50.00	54.04	108	77-120	
o-Xylene	<0.1000	25.00	26.44	106	77-120	
Styrene	<0.1000	25.00	25.12	100	77-120	
Bromoform	<0.2000	25.00	24.30	97	74-121	
Isopropylbenzene	<0.1000	25.00	24.48	98	71-120	
1,1,2,2-Tetrachloroethane	<0.1281	25.00	25.23	101	73-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-127A-8D1	Batch#:	146322
MSS Lab ID:	208752-002	Sampled:	12/12/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/22/08
Diln Fac:	1.000		

Analyte	MSS Result	Spiked	Result	%REC	Limits	ADEQ Flags
1,2,3-Trichloropropane	<0.1000	25.00	23.98	96	72-120	
Propylbenzene	<0.1000	25.00	27.06	108	76-120	
Bromobenzene	<0.1006	25.00	24.83	99	75-120	
1,3,5-Trimethylbenzene	<0.1000	25.00	27.80	111	77-120	
2-Chlorotoluene	<0.1000	25.00	26.21	105	76-120	
4-Chlorotoluene	<0.1000	25.00	24.92	100	78-120	
tert-Butylbenzene	<0.1000	25.00	27.24	109	76-120	
1,2,4-Trimethylbenzene	<0.1000	25.00	26.85	107	77-120	
sec-Butylbenzene	0.2501	25.00	28.70	114	80-120	
para-Isopropyl Toluene	<0.1256	25.00	26.91	108	76-120	
1,3-Dichlorobenzene	<0.1000	25.00	24.35	97	75-120	
1,4-Dichlorobenzene	<0.1000	25.00	24.67	99	77-120	
n-Butylbenzene	<0.1458	25.00	28.27	113	76-120	
1,2-Dichlorobenzene	<0.1000	25.00	25.64	103	76-120	
1,2-Dibromo-3-Chloropropane	<0.5389	25.00	22.29	89	65-120	
1,2,4-Trichlorobenzene	<0.1114	25.00	23.53	94	73-121	
Hexachlorobutadiene	<0.4000	25.00	28.14	113	73-123	
Naphthalene	<0.4000	25.00	23.67	95	62-121	
1,2,3-Trichlorobenzene	<0.1000	25.00	23.05	92	66-123	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	102	77-120	
1,2-Dichloroethane-d4	105	70-127	
Toluene-d8	102	83-125	
Bromofluorobenzene	97	78-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-127A-8D1	Batch#:	146322
MSS Lab ID:	208752-002	Sampled:	12/12/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/22/08
Diln Fac:	1.000		

Type: MSD Lab ID: QC476798

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
Freon 12	25.00	28.96	116	56-140	8	24	
Chloromethane	25.00	26.03	104	46-142	4	24	
Vinyl Chloride	25.00	33.57	134	49-136	9	24	
Bromomethane	25.00	29.89 b	120	42-154	3	24	V9
Chloroethane	25.00	27.24	109	51-133	9	25	
Trichlorofluoromethane	25.00	28.67	115	63-135	10	20	
Iodomethane	25.00	21.78 b	87	60-140	31 *	30	R5
Acetone	25.00	18.01	72	48-130	0	41	
1,1-Dichloroethene	25.00	27.82	111	68-133	1	20	
Methylene Chloride	25.00	25.48	102	71-120	7	20	
Carbon Disulfide	25.00	24.53	98	56-120	9	20	
MTBE	25.00	22.76	89	58-120	2	21	
trans-1,2-Dichloroethene	25.00	25.77	103	80-120	8	24	
Vinyl Acetate	25.00	22.09 b	88	63-124	10	24	
1,1-Dichloroethane	25.00	25.82	103	77-120	0	20	
2-Butanone	25.00	21.95	88	57-120	0	32	
cis-1,2-Dichloroethene	25.00	26.62	106	75-120	5	20	
2,2-Dichloropropane	25.00	29.70	119	72-128	8	24	
Chloroform	25.00	24.71	99	78-120	4	20	
Bromochloromethane	25.00	24.64	99	78-120	5	20	
1,1,1-Trichloroethane	25.00	28.22	113	78-120	6	20	
1,1-Dichloropropene	25.00	27.12	108	75-120	7	21	
Carbon Tetrachloride	25.00	28.20	113	80-120	8	21	
1,2-Dichloroethane	25.00	24.43	98	74-120	8	20	
Benzene	25.00	25.19	101	77-120	5	20	
Trichloroethene	25.00	25.54	101	78-122	8	20	
1,2-Dichloropropane	25.00	24.52	98	76-120	6	20	
Bromodichloromethane	25.00	25.75	103	78-120	7	20	
Dibromomethane	25.00	26.23	105	77-120	1	20	
4-Methyl-2-Pentanone	25.00	22.15	89	65-120	3	22	
cis-1,3-Dichloropropene	25.00	24.14	97	76-120	5	20	
Toluene	25.00	26.13	105	73-120	8	20	
trans-1,3-Dichloropropene	25.00	22.64	91	72-120	3	20	
1,1,2-Trichloroethane	25.00	25.82	103	76-120	5	20	
2-Hexanone	25.00	21.05	84	57-121	2	25	
1,3-Dichloropropane	25.00	24.40	98	75-120	2	20	
Tetrachloroethene	25.00	26.22	104	77-120	5	20	
Dibromochloromethane	25.00	23.70	95	76-120	1	20	
1,2-Dibromoethane	25.00	25.13	101	77-120	5	20	
Chlorobenzene	25.00	23.60	94	78-120	3	20	
1,1,1,2-Tetrachloroethane	25.00	23.96	96	77-120	3	20	
Ethylbenzene	25.00	25.83	103	78-120	2	26	
m,p-Xylenes	50.00	52.03	104	77-120	4	20	
o-Xylene	25.00	23.96	96	77-120	10	20	
Styrene	25.00	24.78	99	77-120	1	20	
Bromoform	25.00	24.67	99	74-121	1	21	
Isopropylbenzene	25.00	23.72	95	71-120	3	20	
1,1,2,2-Tetrachloroethane	25.00	25.55	102	73-120	1	20	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-127A-8D1	Batch#:	146322
MSS Lab ID:	208752-002	Sampled:	12/12/08
Matrix:	Water	Received:	12/18/08
Units:	ug/L	Analyzed:	12/22/08
Diln Fac:	1.000		

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
1,2,3-Trichloropropane	25.00	24.93	100	72-120	4	20	
Propylbenzene	25.00	25.83	103	76-120	5	20	
Bromobenzene	25.00	23.83	95	75-120	4	20	
1,3,5-Trimethylbenzene	25.00	26.59	106	77-120	4	20	
2-Chlorotoluene	25.00	25.24	101	76-120	4	20	
4-Chlorotoluene	25.00	23.07	92	78-120	8	20	
tert-Butylbenzene	25.00	26.51	106	76-120	3	21	
1,2,4-Trimethylbenzene	25.00	26.81	107	77-120	0	20	
sec-Butylbenzene	25.00	28.12	111	80-120	2	21	
para-Isopropyl Toluene	25.00	26.39	106	76-120	2	20	
1,3-Dichlorobenzene	25.00	22.85	91	75-120	6	20	
1,4-Dichlorobenzene	25.00	23.23	93	77-120	6	23	
n-Butylbenzene	25.00	27.88	112	76-120	1	21	
1,2-Dichlorobenzene	25.00	24.62	98	76-120	4	20	
1,2-Dibromo-3-Chloropropane	25.00	21.20	85	65-120	5	22	
1,2,4-Trichlorobenzene	25.00	23.24	93	73-121	1	20	
Hexachlorobutadiene	25.00	26.51	106	73-123	6	25	
Naphthalene	25.00	23.91	96	62-121	1	32	
1,2,3-Trichlorobenzene	25.00	23.35	93	66-123	1	29	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	102	77-120	
1,2-Dichloroethane-d4	101	70-127	
Toluene-d8	102	83-125	
Bromofluorobenzene	99	78-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC476973	Batch#:	146372
Matrix:	Water	Analyzed:	12/23/08
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Freon 12	20.00	19.00	95	56-140	
Chloromethane	20.00	18.05	90	46-142	
Vinyl Chloride	20.00	21.93	110	49-136	
Bromomethane	20.00	16.26	81	42-154	
Chloroethane	20.00	21.66	108	51-133	
Trichlorofluoromethane	20.00	23.07	115	63-135	
Iodomethane	20.00	17.26 b	86	70-130	
Acetone	20.00	16.15	81	48-130	
1,1-Dichloroethene	20.00	21.30	106	68-133	
Methylene Chloride	20.00	20.65	103	71-120	
Carbon Disulfide	20.00	20.15	101	56-120	
MTBE	20.00	17.91	90	58-120	
trans-1,2-Dichloroethene	20.00	20.85	104	80-120	
Vinyl Acetate	20.00	15.84 b	79	63-124	V9
1,1-Dichloroethane	20.00	19.91	100	77-120	
2-Butanone	20.00	17.11	86	57-120	
cis-1,2-Dichloroethene	20.00	20.49	102	75-120	
2,2-Dichloropropane	20.00	22.54	113	72-128	
Chloroform	20.00	19.50	98	78-120	
Bromochloromethane	20.00	19.85	99	78-120	
1,1,1-Trichloroethane	20.00	21.90	109	78-120	
1,1-Dichloropropene	20.00	19.80	99	75-120	
Carbon Tetrachloride	20.00	20.74	104	80-120	
1,2-Dichloroethane	20.00	18.77	94	74-120	
Benzene	20.00	18.62	93	77-120	
Trichloroethene	20.00	19.62	98	78-122	
1,2-Dichloropropane	20.00	19.01	95	76-120	
Bromodichloromethane	20.00	19.18	96	78-120	
Dibromomethane	20.00	20.47	102	77-120	
4-Methyl-2-Pentanone	20.00	17.62	88	65-120	
cis-1,3-Dichloropropene	20.00	18.83	94	76-120	
Toluene	20.00	20.26	101	73-120	
trans-1,3-Dichloropropene	20.00	17.49	87	72-120	
1,1,2-Trichloroethane	20.00	20.22	101	76-120	
2-Hexanone	20.00	16.99	85	57-121	
1,3-Dichloropropane	20.00	19.42	97	75-120	
Tetrachloroethene	20.00	20.93	105	77-120	

*= Value outside of QC limits; see narrative
b= See narrative

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC476973	Batch#:	146372
Matrix:	Water	Analyzed:	12/23/08
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Dibromochloromethane	20.00	18.85	94	76-120	
1,2-Dibromoethane	20.00	20.30	101	77-120	
Chlorobenzene	20.00	19.50	97	78-120	
1,1,1,2-Tetrachloroethane	20.00	19.00	95	77-120	
Ethylbenzene	20.00	20.47	102	78-120	
m,p-Xylenes	40.00	41.99	105	77-120	
o-Xylene	20.00	20.02	100	77-120	
Styrene	20.00	20.05	100	77-120	
Bromoform	20.00	19.92	100	74-121	
Isopropylbenzene	20.00	18.36	92	71-120	
1,1,2,2-Tetrachloroethane	20.00	20.69	103	73-120	
1,2,3-Trichloropropane	20.00	19.65	98	72-120	
Propylbenzene	20.00	22.88	114	76-120	
Bromobenzene	20.00	21.18	106	75-120	
1,3,5-Trimethylbenzene	20.00	21.98	110	77-120	
2-Chlorotoluene	20.00	21.37	107	76-120	
4-Chlorotoluene	20.00	20.16	101	78-120	
tert-Butylbenzene	20.00	21.37	107	76-120	
1,2,4-Trimethylbenzene	20.00	21.42	107	77-120	
sec-Butylbenzene	20.00	22.84	114	80-120	
para-Isopropyl Toluene	20.00	22.22	111	76-120	
1,3-Dichlorobenzene	20.00	19.11	96	75-120	
1,4-Dichlorobenzene	20.00	19.06	95	77-120	
n-Butylbenzene	20.00	23.15	116	76-120	
1,2-Dichlorobenzene	20.00	20.29	101	76-120	
1,2-Dibromo-3-Chloropropane	20.00	18.49	92	65-120	
1,2,4-Trichlorobenzene	20.00	19.97	100	73-121	
Hexachlorobutadiene	20.00	25.85 b	129 *	73-123	L1 V3
Naphthalene	20.00	20.18	101	62-121	
1,2,3-Trichlorobenzene	20.00	20.65	103	66-123	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	102	77-120	
1,2-Dichloroethane-d4	94	70-127	
Toluene-d8	97	83-125	
Bromofluorobenzene	103	78-120	

*= Value outside of QC limits; see narrative
b= See narrative

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-125A-8D1	Batch#:	146372
MSS Lab ID:	208578-008	Sampled:	12/10/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Type: MS Lab ID: QC476988

Analyte	MSS Result	Spiked	Result	%REC	Limits	ADEQ Flags
Freon 12	<0.2000	20.00	17.40	87	56-140	
Chloromethane	<0.2000	20.00	17.99	90	46-142	
Vinyl Chloride	<0.1394	20.00	23.99	120	49-136	
Bromomethane	<0.2000	20.00	20.15	101	42-154	
Chloroethane	<0.2153	20.00	22.24	111	51-133	
Trichlorofluoromethane	<0.2000	20.00	22.98	115	63-135	
Iodomethane	<2.000	20.00	18.27 b	91	60-140	
Acetone	<1.000	20.00	15.62	78	48-130	
1,1-Dichloroethene	<0.1391	20.00	22.33	112	68-133	
Methylene Chloride	<1.000	20.00	22.39	112	71-120	
Carbon Disulfide	<0.1000	20.00	21.45	107	56-120	
MTBE	<0.1000	20.00	18.82	94	58-120	
trans-1,2-Dichloroethene	<0.1082	20.00	22.94	115	80-120	
Vinyl Acetate	<2.000	20.00	13.76 b	69	63-124	V9
1,1-Dichloroethane	<0.1000	20.00	22.17	111	77-120	
2-Butanone	<2.000	20.00	18.23	91	57-120	
cis-1,2-Dichloroethene	<0.1267	20.00	22.08	110	75-120	
2,2-Dichloropropane	<0.1021	20.00	22.59	113	72-128	
Chloroform	<0.1048	20.00	21.09	105	78-120	
Bromochloromethane	<0.1195	20.00	20.61	103	78-120	
1,1,1-Trichloroethane	<0.1358	20.00	24.04	120	78-120	
1,1-Dichloropropene	<0.1367	20.00	21.23	106	75-120	
Carbon Tetrachloride	<0.1295	20.00	23.78	119	80-120	
1,2-Dichloroethane	<0.1080	20.00	20.77	104	74-120	
Benzene	<0.1000	20.00	20.43	102	77-120	
Trichloroethene	<0.1252	20.00	20.71	104	78-122	
1,2-Dichloropropane	<0.1143	20.00	20.55	103	76-120	
Bromodichloromethane	<0.1539	20.00	21.02	105	78-120	
Dibromomethane	<0.1298	20.00	21.59	108	77-120	
4-Methyl-2-Pentanone	<2.000	20.00	17.28	86	65-120	
cis-1,3-Dichloropropene	<0.1420	20.00	19.54	98	76-120	
Toluene	<0.1116	20.00	20.99	105	73-120	
trans-1,3-Dichloropropene	<0.1000	20.00	16.96	85	72-120	
1,1,2-Trichloroethane	<0.1347	20.00	22.05	110	76-120	
2-Hexanone	<2.000	20.00	17.31	87	57-121	
1,3-Dichloropropane	<0.1000	20.00	20.33	102	75-120	
Tetrachloroethene	<0.1217	20.00	22.12	111	77-120	
Dibromochloromethane	<0.1230	20.00	20.09	100	76-120	
1,2-Dibromoethane	<0.1000	20.00	21.15	106	77-120	
Chlorobenzene	<0.1000	20.00	21.34	107	78-120	
1,1,1,2-Tetrachloroethane	<0.1000	20.00	20.93	105	77-120	
Ethylbenzene	<0.1000	20.00	22.20	111	78-120	
m,p-Xylenes	<0.1581	40.00	44.53	111	77-120	
o-Xylene	<0.1000	20.00	21.03	105	77-120	
Styrene	<0.1000	20.00	19.79	99	77-120	
Bromoform	<0.2000	20.00	20.25	101	74-121	
Isopropylbenzene	<0.1000	20.00	21.27	106	71-120	
1,1,2,2-Tetrachloroethane	<0.1281	20.00	21.69	108	73-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-125A-8D1	Batch#:	146372
MSS Lab ID:	208578-008	Sampled:	12/10/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Analyte	MSS Result	Spiked	Result	%REC	Limits	ADEQ Flags
1,2,3-Trichloropropane	<0.1000	20.00	21.53	108	72-120	
Propylbenzene	<0.1000	20.00	22.57	113	76-120	
Bromobenzene	<0.1006	20.00	20.86	104	75-120	
1,3,5-Trimethylbenzene	<0.1000	20.00	22.79	114	77-120	
2-Chlorotoluene	<0.1000	20.00	21.91	110	76-120	
4-Chlorotoluene	<0.1000	20.00	21.16	106	78-120	
tert-Butylbenzene	<0.1000	20.00	21.74	109	76-120	
1,2,4-Trimethylbenzene	<0.1000	20.00	24.04	120	77-120	
sec-Butylbenzene	<0.1000	20.00	25.01	125 *	80-120	M1
para-Isopropyl Toluene	<0.1256	20.00	20.95	105	76-120	
1,3-Dichlorobenzene	<0.1000	20.00	18.94	95	75-120	
1,4-Dichlorobenzene	<0.1000	20.00	19.69	98	77-120	
n-Butylbenzene	<0.1458	20.00	22.53	113	76-120	
1,2-Dichlorobenzene	<0.1000	20.00	21.07	105	76-120	
1,2-Dibromo-3-Chloropropane	<0.5389	20.00	18.64	93	65-120	
1,2,4-Trichlorobenzene	<0.1114	20.00	18.30	91	73-121	
Hexachlorobutadiene	<0.4000	20.00	21.44 b	107	73-123	V3
Naphthalene	<0.4000	20.00	18.72	94	62-121	
1,2,3-Trichlorobenzene	<0.1000	20.00	18.92	95	66-123	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	104	77-120	
1,2-Dichloroethane-d4	104	70-127	
Toluene-d8	104	83-125	
Bromofluorobenzene	102	78-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-125A-8D1	Batch#:	146372
MSS Lab ID:	208578-008	Sampled:	12/10/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Type: MSD Lab ID: QC476989

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
Freon 12	20.00	15.34	77	56-140	13	24	
Chloromethane	20.00	16.24	81	46-142	10	24	
Vinyl Chloride	20.00	21.85	109	49-136	9	24	
Bromomethane	20.00	21.59	108	42-154	7	24	
Chloroethane	20.00	19.04	95	51-133	16	25	
Trichlorofluoromethane	20.00	19.96	100	63-135	14	20	
Iodomethane	20.00	20.43 b	102	60-140	11	30	
Acetone	20.00	15.07	75	48-130	4	41	
1,1-Dichloroethene	20.00	22.12	111	68-133	1	20	
Methylene Chloride	20.00	20.82	104	71-120	7	20	
Carbon Disulfide	20.00	19.38	97	56-120	10	20	
MTBE	20.00	18.27	91	58-120	3	21	
trans-1,2-Dichloroethene	20.00	20.96	105	80-120	9	24	
Vinyl Acetate	20.00	14.86 b	74	63-124	8	24	V9
1,1-Dichloroethane	20.00	20.45	102	77-120	8	20	
2-Butanone	20.00	17.22	86	57-120	6	32	
cis-1,2-Dichloroethene	20.00	21.75	109	75-120	1	20	
2,2-Dichloropropane	20.00	20.57	103	72-128	9	24	
Chloroform	20.00	19.55	98	78-120	8	20	
Bromochloromethane	20.00	19.25	96	78-120	7	20	
1,1,1-Trichloroethane	20.00	22.40	112	78-120	7	20	
1,1-Dichloropropene	20.00	20.50	102	75-120	3	21	
Carbon Tetrachloride	20.00	22.32	112	80-120	6	21	
1,2-Dichloroethane	20.00	19.97	100	74-120	4	20	
Benzene	20.00	19.67	98	77-120	4	20	
Trichloroethene	20.00	19.62	98	78-122	5	20	
1,2-Dichloropropane	20.00	20.16	101	76-120	2	20	
Bromodichloromethane	20.00	20.93	105	78-120	0	20	
Dibromomethane	20.00	21.24	106	77-120	2	20	
4-Methyl-2-Pentanone	20.00	17.42	87	65-120	1	22	
cis-1,3-Dichloropropene	20.00	19.20	96	76-120	2	20	
Toluene	20.00	20.10	101	73-120	4	20	
trans-1,3-Dichloropropene	20.00	17.51	88	72-120	3	20	
1,1,2-Trichloroethane	20.00	21.05	105	76-120	5	20	
2-Hexanone	20.00	17.21	86	57-121	1	25	
1,3-Dichloropropane	20.00	19.91	100	75-120	2	20	
Tetrachloroethene	20.00	20.15	101	77-120	9	20	
Dibromochloromethane	20.00	18.58	93	76-120	8	20	
1,2-Dibromoethane	20.00	20.55	103	77-120	3	20	
Chlorobenzene	20.00	18.76	94	78-120	13	20	
1,1,1,2-Tetrachloroethane	20.00	18.81	94	77-120	11	20	
Ethylbenzene	20.00	19.87	99	78-120	11	26	
m,p-Xylenes	40.00	42.25	106	77-120	5	20	
o-Xylene	20.00	19.87	99	77-120	6	20	
Styrene	20.00	17.80	89	77-120	11	20	
Bromoform	20.00	19.44	97	74-121	4	21	
Isopropylbenzene	20.00	19.28	96	71-120	10	20	
1,1,2,2-Tetrachloroethane	20.00	20.39	102	73-120	6	20	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Field ID:	ASE-125A-8D1	Batch#:	146372
MSS Lab ID:	208578-008	Sampled:	12/10/08
Matrix:	Water	Received:	12/12/08
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
1,2,3-Trichloropropane	20.00	20.11	101	72-120	7	20	
Propylbenzene	20.00	22.42	112	76-120	1	20	
Bromobenzene	20.00	20.93	105	75-120	0	20	
1,3,5-Trimethylbenzene	20.00	22.97	115	77-120	1	20	
2-Chlorotoluene	20.00	21.87	109	76-120	0	20	
4-Chlorotoluene	20.00	20.33	102	78-120	4	20	
tert-Butylbenzene	20.00	21.30	107	76-120	2	21	
1,2,4-Trimethylbenzene	20.00	21.52	108	77-120	11	20	
sec-Butylbenzene	20.00	22.17	111	80-120	12	21	
para-Isopropyl Toluene	20.00	21.32	107	76-120	2	20	
1,3-Dichlorobenzene	20.00	19.21	96	75-120	1	20	
1,4-Dichlorobenzene	20.00	19.38	97	77-120	2	23	
n-Butylbenzene	20.00	21.78	109	76-120	3	21	
1,2-Dichlorobenzene	20.00	20.39	102	76-120	3	20	
1,2-Dibromo-3-Chloropropane	20.00	19.62	98	65-120	5	22	
1,2,4-Trichlorobenzene	20.00	18.06	90	73-121	1	20	
Hexachlorobutadiene	20.00	20.84 b	104	73-123	3	25	V3
Naphthalene	20.00	19.18	96	62-121	2	32	
1,2,3-Trichlorobenzene	20.00	19.12	96	66-123	1	29	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	101	77-120	
1,2-Dichloroethane-d4	99	70-127	
Toluene-d8	96	83-125	
Bromofluorobenzene	96	78-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	146373
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Type: BS Lab ID: QC476975

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Freon 12	20.00	21.63	108	56-140	
Chloromethane	20.00	17.14	86	46-142	
Vinyl Chloride	20.00	20.82	104	49-136	
Bromomethane	20.00	16.68	83	42-154	
Chloroethane	20.00	19.96	100	51-133	
Trichlorofluoromethane	20.00	24.51 b	123	63-135	V3
Iodomethane	20.00	14.34 b	72	70-130	V9
Acetone	20.00	19.11	96	48-130	
1,1-Dichloroethene	20.00	22.10	110	68-133	
Methylene Chloride	20.00	22.52	113	71-120	
Carbon Disulfide	20.00	19.61	98	56-120	
MTBE	20.00	21.91	110	58-120	
trans-1,2-Dichloroethene	20.00	21.76	109	80-120	
Vinyl Acetate	20.00	15.30 b	77	63-124	V9
1,1-Dichloroethane	20.00	22.62	113	77-120	
2-Butanone	20.00	19.59	98	57-120	
cis-1,2-Dichloroethene	20.00	21.67	108	75-120	
2,2-Dichloropropane	20.00	24.76 b	124	72-128	V3
Chloroform	20.00	23.04	115	78-120	
Bromochloromethane	20.00	21.80	109	78-120	
1,1,1-Trichloroethane	20.00	25.69 b	128 *	78-120	L1 V3
1,1-Dichloropropene	20.00	23.04	115	75-120	
Carbon Tetrachloride	20.00	26.73 b	134 *	80-120	L1 V3
1,2-Dichloroethane	20.00	21.98	110	74-120	
Benzene	20.00	20.25	101	77-120	
Trichloroethene	20.00	22.79	114	78-122	
1,2-Dichloropropane	20.00	20.69	103	76-120	
Bromodichloromethane	20.00	22.76	114	78-120	
Dibromomethane	20.00	21.90	109	77-120	
4-Methyl-2-Pentanone	20.00	19.19	96	65-120	
cis-1,3-Dichloropropene	20.00	20.96	105	76-120	
Toluene	20.00	21.85	109	73-120	
trans-1,3-Dichloropropene	20.00	19.36	97	72-120	
1,1,2-Trichloroethane	20.00	22.25	111	76-120	
2-Hexanone	20.00	15.77 b	79	57-121	V9
1,3-Dichloropropane	20.00	19.38	97	75-120	
Tetrachloroethene	20.00	21.76	109	77-120	
Dibromochloromethane	20.00	19.02	95	76-120	
1,2-Dibromoethane	20.00	23.05	115	77-120	
Chlorobenzene	20.00	18.66	93	78-120	
1,1,1,2-Tetrachloroethane	20.00	19.93	100	77-120	
Ethylbenzene	20.00	20.37	102	78-120	
m,p-Xylenes	40.00	38.88	97	77-120	
o-Xylene	20.00	19.00	95	77-120	
Styrene	20.00	17.93	90	77-120	
Bromoform	20.00	20.34	102	74-121	
Isopropylbenzene	20.00	17.79	89	71-120	
1,1,2,2-Tetrachloroethane	20.00	18.82	94	73-120	
1,2,3-Trichloropropane	20.00	18.73	94	72-120	
Propylbenzene	20.00	19.09	95	76-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	146373
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Analyte	Spiked	Result	%REC	Limits	ADEQ Flags
Bromobenzene	20.00	18.69	93	75-120	
1,3,5-Trimethylbenzene	20.00	18.09	90	77-120	
2-Chlorotoluene	20.00	18.79	94	76-120	
4-Chlorotoluene	20.00	18.22	91	78-120	
tert-Butylbenzene	20.00	18.63	93	76-120	
1,2,4-Trimethylbenzene	20.00	17.86	89	77-120	
sec-Butylbenzene	20.00	18.92	95	80-120	
para-Isopropyl Toluene	20.00	17.34	87	76-120	
1,3-Dichlorobenzene	20.00	18.43	92	75-120	
1,4-Dichlorobenzene	20.00	17.66	88	77-120	
n-Butylbenzene	20.00	19.45	97	76-120	
1,2-Dichlorobenzene	20.00	18.55	93	76-120	
1,2-Dibromo-3-Chloropropane	20.00	17.28	86	65-120	
1,2,4-Trichlorobenzene	20.00	18.04	90	73-121	
Hexachlorobutadiene	20.00	26.16 b	131 *	73-123	L1 V3
Naphthalene	20.00	17.27	86	62-121	
1,2,3-Trichlorobenzene	20.00	18.51	93	66-123	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	112	77-120	
1,2-Dichloroethane-d4	103	70-127	
Toluene-d8	104	83-125	
Bromofluorobenzene	99	78-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	146373
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Type: BSD Lab ID: QC476976

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
Freon 12	20.00	24.38	122	56-140	12	24	
Chloromethane	20.00	17.38	87	46-142	1	24	
Vinyl Chloride	20.00	22.46	112	49-136	8	24	
Bromomethane	20.00	18.75	94	42-154	12	24	
Chloroethane	20.00	21.87	109	51-133	9	25	
Trichlorofluoromethane	20.00	26.50 b	133	63-135	8	20	V3
Iodomethane	20.00	17.54 b	88	70-130	20	20	V9
Acetone	20.00	22.27	111	48-130	15	41	
1,1-Dichloroethene	20.00	22.24	111	68-133	1	20	
Methylene Chloride	20.00	23.24	116	71-120	3	20	
Carbon Disulfide	20.00	19.64	98	56-120	0	20	
MTBE	20.00	21.74	109	58-120	1	21	
trans-1,2-Dichloroethene	20.00	22.51	113	80-120	3	24	
Vinyl Acetate	20.00	15.54 b	78	63-124	2	24	V9
1,1-Dichloroethane	20.00	22.65	113	77-120	0	20	
2-Butanone	20.00	20.98	105	57-120	7	32	
cis-1,2-Dichloroethene	20.00	22.55	113	75-120	4	20	
2,2-Dichloropropane	20.00	24.85 b	124	72-128	0	24	V3
Chloroform	20.00	23.57	118	78-120	2	20	
Bromochloromethane	20.00	22.80	114	78-120	4	20	
1,1,1-Trichloroethane	20.00	26.11 b	131 *	78-120	2	20	L1 V3
1,1-Dichloropropene	20.00	23.59	118	75-120	2	21	
Carbon Tetrachloride	20.00	26.30 b	131 *	80-120	2	21	L1 V3
1,2-Dichloroethane	20.00	22.34	112	74-120	2	20	
Benzene	20.00	20.54	103	77-120	1	20	
Trichloroethene	20.00	22.67	113	78-122	1	20	
1,2-Dichloropropane	20.00	21.34	107	76-120	3	20	
Bromodichloromethane	20.00	22.95	115	78-120	1	20	
Dibromomethane	20.00	22.94	115	77-120	5	20	
4-Methyl-2-Pentanone	20.00	20.29	101	65-120	6	22	
cis-1,3-Dichloropropene	20.00	21.53	108	76-120	3	20	
Toluene	20.00	22.07	110	73-120	1	20	
trans-1,3-Dichloropropene	20.00	19.42	97	72-120	0	20	
1,1,2-Trichloroethane	20.00	23.57	118	76-120	6	20	
2-Hexanone	20.00	16.78 b	84	57-121	6	25	V9
1,3-Dichloropropane	20.00	19.87	99	75-120	3	20	
Tetrachloroethene	20.00	21.90	110	77-120	1	20	
Dibromochloromethane	20.00	19.50	98	76-120	2	20	
1,2-Dibromoethane	20.00	24.14	121 *	77-120	5	20	L1
Chlorobenzene	20.00	19.05	95	78-120	2	20	
1,1,1,2-Tetrachloroethane	20.00	20.01	100	77-120	0	20	
Ethylbenzene	20.00	20.54	103	78-120	1	26	
m,p-Xylenes	40.00	39.18	98	77-120	1	20	
o-Xylene	20.00	19.30	96	77-120	2	20	
Styrene	20.00	18.30	92	77-120	2	20	
Bromoform	20.00	20.53	103	74-121	1	21	
Isopropylbenzene	20.00	17.91	90	71-120	1	20	
1,1,2,2-Tetrachloroethane	20.00	19.30	96	73-120	2	20	
1,2,3-Trichloropropane	20.00	19.38	97	72-120	3	20	
Propylbenzene	20.00	19.09	95	76-120	0	20	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	208752	Location:	Quarterly UST
Client:	CH2M Hill	Prep:	EPA 5030B
Project#:	371016.SH.60.61.QS	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	146373
Units:	ug/L	Analyzed:	12/23/08
Diln Fac:	1.000		

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	ADEQ Flags
Bromobenzene	20.00	19.10	96	75-120	2	20	
1,3,5-Trimethylbenzene	20.00	18.50	92	77-120	2	20	
2-Chlorotoluene	20.00	19.07	95	76-120	1	20	
4-Chlorotoluene	20.00	18.47	92	78-120	1	20	
tert-Butylbenzene	20.00	19.16	96	76-120	3	21	
1,2,4-Trimethylbenzene	20.00	18.34	92	77-120	3	20	
sec-Butylbenzene	20.00	19.52	98	80-120	3	21	
para-Isopropyl Toluene	20.00	18.38	92	76-120	6	20	
1,3-Dichlorobenzene	20.00	19.05	95	75-120	3	20	
1,4-Dichlorobenzene	20.00	18.23	91	77-120	3	23	
n-Butylbenzene	20.00	20.53	103	76-120	5	21	
1,2-Dichlorobenzene	20.00	19.05	95	76-120	3	20	
1,2-Dibromo-3-Chloropropane	20.00	17.53	88	65-120	1	22	
1,2,4-Trichlorobenzene	20.00	18.65	93	73-121	3	20	
Hexachlorobutadiene	20.00	28.34 b	142 *	73-123	8	25	L1 V3
Naphthalene	20.00	17.94	90	62-121	4	32	
1,2,3-Trichlorobenzene	20.00	19.24	96	66-123	4	29	

Surrogate	%REC	Limits	ADEQ Flags
Dibromofluoromethane	111	77-120	
1,2-Dichloroethane-d4	103	70-127	
Toluene-d8	104	83-125	
Bromofluorobenzene	98	78-120	

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

CURTIS & TOMPKINS BFB TUNE FOR 208752 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 458468482014 File : fkk14 Time : 20-NOV-2008 16:09

Standards: S9454

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	13627	15.43	
75	30% - 60% of mass 95	34213	38.75	
95		88293		
96	5% - 9% of mass 95	5645	6.39	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	77104	87.33	
175	5% - 9% of mass 174	5993	7.77	
176	> 95% and < 101% of mass 174	76701	99.48	
177	5% - 9% of mass 176	5145	6.71	

Analyst: BO Date: 11/21/08 Reviewer: ACM Date: 11/21/08

CURTIS & TOMPKINS BFB TUNE FOR 208752 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 458514527002 File : flm02 Time : 22-DEC-2008 07:58

Standards: S10902

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	58796	15.53	
75	30% - 60% of mass 95	140821	37.20	
95		378560		
96	5% - 9% of mass 95	23780	6.28	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	342826	90.56	
175	5% - 9% of mass 174	26328	7.68	
176	> 95% and < 101% of mass 174	333056	97.15	
177	5% - 9% of mass 176	22173	6.66	

Analyst: BO Date: 12/23/08 Reviewer: LW Date: 12/23/08

CURTIS & TOMPKINS BFB TUNE FOR 208752 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 458514527013 File : flm13 Time : 22-DEC-2008 14:16

Standards: S10902

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	28846	15.41	
75	30% - 60% of mass 95	69781	37.29	
95		187136		
96	5% - 9% of mass 95	12200	6.52	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	162026	86.58	
175	5% - 9% of mass 174	11054	6.82	
176	> 95% and < 101% of mass 174	162432	100.25	
177	5% - 9% of mass 176	10862	6.69	

Analyst: BO Date: 12/23/08 Reviewer: LW Date: 12/23/08

CURTIS & TOMPKINS BFB TUNE FOR 208752 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : BFB IDF : 1.0
Seqnum : 458515995002 File : fln02 Time : 23-DEC-2008 08:26

Standards: S10902

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	32269	15.26	
75	30% - 60% of mass 95	80490	38.05	
95		211518		
96	5% - 9% of mass 95	15144	7.16	
173	< 2% of mass 174	0	0.00	
174	> 50% and < 100% of mass 95	182656	86.35	
175	5% - 9% of mass 174	14574	7.98	
176	> 95% and < 101% of mass 174	175360	96.01	
177	5% - 9% of mass 176	12590	7.18	

Analyst: BO Date: 12/23/08 Reviewer: LW Date: 12/24/08

CURTIS & TOMPKINS BFB TUNE FOR 208752 MSVOA Water
EPA 8260B

Inst : MSVOA11 Run Name : BFB IDF : 1.0
Seqnum : 838465788012 File : kke12 Time : 18-NOV-2008 16:19

Standards: S9454

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	7127	15.88	
75	30% - 60% of mass 95	18835	41.98	
95		44868		
96	5% - 9% of mass 95	3178	7.08	
173	< 2% of mass 174	180	0.50	
174	> 50% and < 100% of mass 95	35728	79.63	
175	5% - 9% of mass 174	2545	7.12	
176	> 95% and < 101% of mass 174	34880	97.63	
177	5% - 9% of mass 176	1827	5.24	

Analyst: SJD Date: 11/19/08 Reviewer: LW Date: 11/20/08

CURTIS & TOMPKINS BFB TUNE FOR 208752 MSVOA Water
EPA 8260B

Inst : MSVOA11 Run Name : BFB IDF : 1.0
Seqnum : 838515986002 File : kln02 Time : 23-DEC-2008 08:23

Standards: S10902

Mass	Ion Abundance Criteria	Abundance	% Relative Abundance	Q
50	15% - 40% of mass 95	12258	15.99	
75	30% - 60% of mass 95	35912	46.85	
95		76650		
96	5% - 9% of mass 95	5209	6.80	
173	< 2% of mass 174	376	0.59	
174	> 50% and < 100% of mass 95	64242	83.81	
175	5% - 9% of mass 174	4823	7.51	
176	> 95% and < 101% of mass 174	61890	96.34	
177	5% - 9% of mass 176	4058	6.56	

Analyst: BO Date: 12/23/08 Reviewer: LW Date: 12/24/08

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 208752 MSVOA Water: EPA 8260B

Inst : MSVOA06 Name : 826GOX6W
Calnum : 458468482002 Date : 20-NOV-2008 18:54 Type : WATER
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	fkk19	458468482019	0.25PPB	20-NOV-2008 18:54	S10756 (2000000X), S10619 (2000000X), S10653 (1000000X), S9073 (2000000X), S10447 (1000X)
L2	fkk20	458468482020	0.5PPB	20-NOV-2008 19:28	S10756 (1000000X), S10619 (1000000X), S10653 (500000X), S9073 (1000000X), S10447 (1000X)
L3	fkk21	458468482021	2PPB	20-NOV-2008 20:02	S10756 (250000X), S10619 (250000X), S10653 (250000X), S9073 (500000X), S10447 (1000X)
L4	fkk22	458468482022	5PPB	20-NOV-2008 20:36	S10756 (100000X), S10619 (100000X), S10653 (100000X), S9073 (200000X), S10447 (1000X)
L5	fkk23	458468482023	10PPB	20-NOV-2008 21:11	S10756 (50000X), S10619 (50000X), S10653 (50000X), S9073 (100000X), S10447 (1000X)
L6	fkk24	458468482024	20PPB	20-NOV-2008 21:45	S10756 (25000X), S10619 (25000X), S10653 (25000X), S9073 (50000X), S10447 (1000X)
L7	fkk25	458468482025	50PPB	20-NOV-2008 22:19	S10756 (10000X), S10619 (10000X), S10653 (10000X), S9073 (20000X), S10447 (1000X)
L8	fkk26	458468482026	75PPB	20-NOV-2008 22:53	S10756 (6667X), S10619 (6667X), S10653 (6667X), S9073 (13330X), S10447 (1000X)
L9	fkk27	458468482027	100PPB	20-NOV-2008 23:28	S10756 (5000X), S10619 (5000X), S10653 (5000X), S9073 (10000X), S10447 (1000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12	0.6477m	0.5656m	0.8454m	0.5532	0.5981	0.5029	0.6945	0.8107		QUAD	0.07610	1.80204	-0.00946	0.6523	0.998	15	0.05	0.99	
Chloromethane		0.9120	1.0398m	0.8574m	0.9261	0.7973	0.8813	0.8769	0.9183	AVRG		1.10970		0.9011	8	15	0.10	0.99	
Vinyl Chloride	0.6186	0.5959m	0.7893m	0.5598m	0.6264	0.5569	0.6827	0.7578	0.7322	AVRG		1.52036		0.6577	13	15	0.05	0.99	
Bromomethane		0.1930m	0.2567m	0.2550m	0.3034	0.2679	0.3026	0.3182	0.3165	AVRG		3.61455		0.2767	15	15	0.05	0.99	
Chloroethane		0.2923	0.4104m	0.3212m	0.3726	0.3217	0.3698	0.3835	0.3545	AVRG		2.83075		0.3533	11	15	0.05	0.99	
Trichlorofluoromethane	0.8273	0.6040	0.8892	0.5834	0.6697	0.5610	0.7684	0.8422		QUAD	0.22995	1.57748	-0.00635	0.7181	0.998	15	0.05	0.99	
Acetone			0.3710	0.3072	0.3329	0.3066	0.3294	0.3094	0.3034	AVRG		3.09739		0.3229	8	15	0.05	0.99	
1,1-Dichloroethene		0.5390	0.5372	0.4875	0.5458	0.5394	0.5632	0.5255	0.5359	AVRG		1.87202		0.5342	4	15	0.05	0.99	
Iodomethane	0.2512m	0.2547	0.1985	0.2369	0.4263	0.5013	0.6536			QUAD	0.98411	2.12895	-0.01928	0.3604	0.998	15	0.05	0.99	
Methylene Chloride			0.7555	0.7020	0.7777	0.7282	0.7274	0.7409	0.6984	AVRG		1.36448		0.7329	4	15	0.05	0.99	
Carbon Disulfide		1.9732	2.0441	1.9382	2.1352	2.1460	2.1501	2.1023	2.0997	AVRG		0.48225		2.0736	4	15	0.05	0.99	
MTBE		1.8448	1.9060	1.8521	2.0989	1.9539	1.9188	1.8955	1.8013	AVRG		0.52386		1.9089	5	15	0.05	0.99	
trans-1,2-Dichloroethene		0.5724	0.6436	0.5699	0.6624	0.6271	0.6206	0.6152	0.6125	AVRG		1.62478		0.6155	5	15	0.05	0.99	
Vinyl Acetate			1.4646	1.3551	1.4651	1.4441	1.3282	1.1582	1.2586	AVRG		0.73887		1.3534	9	15	0.05	0.99	
1,1-Dichloroethane		1.1776	1.3258	1.1169	1.2878	1.2281	1.2081	1.1790	1.1551	AVRG		0.82659		1.2098	6	15	0.10	0.99	
2-Butanone			0.4453	0.3964	0.4502	0.4328	0.4482	0.3979	0.4069	AVRG		2.35082		0.4254	6	15	0.05	0.99	
2,2-Dichloropropane		0.6786	0.6640	0.6592	0.7122	0.6598	0.7015	0.6263	0.6552	AVRG		1.49344		0.6696	4	15	0.05	0.99	
cis-1,2-Dichloroethene		0.7223	0.7479	0.6878	0.7508	0.7135	0.7124	0.6781	0.6675	AVRG		1.40840		0.7100	4	15	0.05	0.99	
Chloroform		1.1011	1.1817	0.9979	1.1557	1.1104	1.1029	1.0849	1.0483	AVRG		0.91087		1.0978	5	15	0.05	0.99	
Bromochloromethane		0.4453	0.4569	0.4219	0.4393	0.4106	0.4205	0.4021	0.3778	AVRG		2.37086		0.4218	6	15	0.05	0.99	
1,1,1-Trichloroethane		0.6786	0.6238	0.6419	0.6958	0.6787	0.7016	0.6478	0.6849	AVRG		1.49443		0.6692	4	15	0.05	0.99	
1,1-Dichloropropene		0.4729	0.4341	0.4096	0.4634	0.4519	0.4448	0.4139	0.4414	AVRG		2.26500		0.4415	5	15	0.05	0.99	
Carbon Tetrachloride		0.3579	0.3097	0.3470	0.3746	0.3690	0.4029	0.3392	0.3707	AVRG		2.78631		0.3589	8	15	0.05	0.99	
1,2-Dichloroethane		0.4235	0.4701	0.4850	0.5038	0.4928	0.4932	0.4776	0.4512	AVRG		2.10680		0.4747	6	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		1.4164	1.5484	1.4447	1.5657	1.5800	1.5338	1.4807	1.4213	AVRG		0.66716		1.4989	4	15	0.05	0.99	
Trichloroethene		0.3697	0.3608	0.3472	0.3727	0.3785	0.3762	0.3664	0.3544	AVRG		2.73401		0.3658	3	15	0.05	0.99	
1,2-Dichloropropane		0.4435	0.4550	0.4382	0.4770	0.4693	0.4468	0.4365	0.3983	AVRG		2.24433		0.4456	5	15	0.05	0.99	
Bromodichloromethane		0.4415	0.4802	0.4840	0.5273	0.5310	0.5354	0.5045	0.4853	AVRG		2.00542		0.4986	6	15	0.05	0.99	
Dibromomethane		0.2300	0.2969	0.2910	0.3043	0.3130	0.3027	0.2996	0.2881	AVRG		3.44004		0.2907	9	15	0.05	0.99	
4-Methyl-2-Pentanone			0.4959	0.4811	0.5008	0.5289	0.5033	0.4753	0.4843	AVRG		2.01743		0.4957	4	15	0.05	0.99	
cis-1,3-Dichloropropene		0.6246	0.6565	0.6505	0.6813	0.6704	0.6664	0.6453	0.6113	AVRG		1.53661		0.6508	4	15	0.05	0.99	
Toluene		0.8146	0.8853	0.8122	0.9430	0.8216	0.8864	0.8331	0.7821	AVRG		1.18022		0.8473	6	15	0.05	0.99	
trans-1,3-Dichloropropene		0.5134	0.5798	0.5280	0.6186	0.5837	0.6048	0.5817	0.5529	AVRG		1.75321		0.5704	6	15	0.05	0.99	
1,1,2-Trichloroethane		0.1829	0.1999	0.2064	0.2296	0.2242	0.2147	0.2110	0.2022	AVRG		4.78775		0.2089	7	15	0.05	0.99	
2-Hexanone			0.4174	0.3862	0.4263	0.4429	0.4268	0.4108	0.3985	AVRG		2.40632		0.4156	5	15	0.05	0.99	
1,3-Dichloropropane		0.7309	0.7680	0.7370	0.8303	0.7496	0.7260	0.7478	0.7151	AVRG		1.33229		0.7506	5	15	0.05	0.99	
Tetrachloroethene		0.4671	0.3880	0.3940	0.4274	0.4027	0.4365	0.3896	0.4448	AVRG		2.38796		0.4188	7	15	0.05	0.99	
Dibromochloromethane		0.5128	0.5363	0.5575	0.6187	0.5950	0.5587	0.5842	0.5715	AVRG		1.76417		0.5668	6	15	0.05	0.99	
1,2-Dibromoethane		0.3918	0.4380	0.4352	0.4647	0.4605	0.4395	0.4345	0.4239	AVRG		2.29346		0.4360	5	15	0.05	0.99	
Chlorobenzene		1.2018	1.3036	1.2462	1.3654	1.2216	1.2035	1.1940	1.1691	AVRG		0.80766		1.2382	5	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.4243	0.4402	0.4451	0.4881	0.4392	0.4457	0.4558	0.4371	AVRG		2.23746		0.4469	4	15	0.05	0.99	
Ethylbenzene		1.8818	1.8141	1.7404	1.8654	1.7387	1.7386	1.6694	1.7063	AVRG		0.56518		1.7693	4	15	0.05	0.99	
m,p-Xylenes	0.6758	0.7117	0.7093	0.6555	0.7591	0.6902	0.6493	0.6463	0.6219	AVRG		1.47082		0.6799	6	15	0.05	0.99	
o-Xylene		0.7474	0.7130	0.7380	0.8050	0.7101	0.7081	0.6705	0.6743	AVRG		1.38732		0.7208	6	15	0.05	0.99	
Styrene		1.1668	1.2083	1.2783	1.3591	1.2751	1.2064	1.2359	1.1947	AVRG		0.80609		1.2406	5	15	0.05	0.99	
Bromoform		0.3384	0.4010	0.3872	0.4298	0.4176	0.4104	0.4216	0.4280	AVRG		2.47363		0.4043	7	15	0.10	0.99	
Isopropylbenzene		3.0309	3.1358	2.8764	3.1730	3.2802	3.1139	2.6768	3.0122	AVRG		0.32923		3.0374	6	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		1.2187	1.3367	1.2470	1.3233	1.3741	1.2816	1.1398	1.1738	AVRG		0.79248		1.2619	7	15	0.30	0.99	
1,2,3-Trichloropropane		0.9947	1.0412	0.9590	1.0409	1.0688	0.9486	0.8885	0.9096	AVRG		1.01894		0.9814	7	15	0.05	0.99	
Propylbenzene		3.6590	3.6765	3.6088	3.8859	3.6238	3.5999	2.9929	3.2114	AVRG		0.28310		3.5323	8	15	0.05	0.99	
Bromobenzene		1.0963	1.1176	1.1603	1.1995	1.1560	1.0828	1.0219	0.9894	AVRG		0.90664		1.1030	6	15	0.05	0.99	
1,3,5-Trimethylbenzene		2.7137	2.5669	2.3754	2.5792	2.5702	2.4624	2.0936	2.1615	AVRG		0.40977		2.4404	9	15	0.05	0.99	
2-Chlorotoluene		2.6839	2.7820	2.5064	2.7425	2.6461	2.4760	2.2110	2.1634	AVRG		0.39582		2.5264	9	15	0.05	0.99	
4-Chlorotoluene		2.5391	2.6318	2.3726	2.6948	2.5134	2.4123	2.2333	2.2632	AVRG		0.40691		2.4576	7	15	0.05	0.99	
tert-Butylbenzene		2.0682	2.1355	2.0728	2.3030	2.1681	2.1491	1.7917	2.0084	AVRG		0.47913		2.0871	7	15	0.05	0.99	
1,2,4-Trimethylbenzene		2.4841	2.6946	2.4595	2.8300	2.7523	2.4361	2.3412	2.3804	AVRG		0.39258		2.5473	7	15	0.05	0.99	
sec-Butylbenzene		2.6941	2.9373	2.8182	3.2195	3.0012	2.9793	2.5388	2.8537	AVRG		0.34719		2.8803	7	15	0.05	0.99	
para-Isopropyl Toluene		2.3222	2.4065	2.4900	2.8276	2.5056	2.4662	2.2356	2.4075	AVRG		0.40689		2.4577	7	15	0.05	0.99	
1,3-Dichlorobenzene		1.8624	1.9265	1.8008	2.0384	2.0149	1.7742	1.7265	1.7346	AVRG		0.53770		1.8598	7	15	0.05	0.99	
1,4-Dichlorobenzene		1.9640	1.9539	1.7998	2.0434	2.0272	1.8866	1.8327	1.7681	AVRG		0.52371		1.9095	5	15	0.05	0.99	
n-Butylbenzene		2.0336	2.0045	1.9628	2.3176	2.0874	2.1481	1.9081	2.0601	AVRG		0.48420		2.0653	6	15	0.05	0.99	
1,2-Dichlorobenzene		1.6521	1.8060	1.8047	1.9114	1.8783	1.7213	1.7061	1.6942	AVRG		0.56441		1.7718	5	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.2027	0.2132	0.1812	0.1817	0.2018	0.1917	0.1875	0.1815	AVRG		5.19028		0.1927	6	15	0.05	0.99	
1,2,4-Trichlorobenzene		0.9808	1.0314	0.9145	1.0720	0.9912	0.9648	0.9062	0.9141	AVRG		1.02892		0.9719	6	15	0.05	0.99	
Hexachlorobutadiene		0.3912	0.3325	0.3555	0.3981	0.3490	0.3611	0.2936	0.3587	AVRG		2.81722		0.3550	9	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene		2.4957	2.6121	2.5931	2.9375	3.0324	2.8585	2.8640	2.8128	AVRG		0.36026		2.7758	7	15	0.05	0.99	
1,2,3-Trichlorobenzene		0.9184	0.8977	0.8231	0.9863	1.0044	0.8833	0.8869	0.9203	AVRG		1.09283		0.9151	6	15	0.05	0.99	
Dibromofluoromethane	0.6058	0.6022	0.6119	0.6105	0.5974	0.6059	0.5972	0.5918	0.5932	AVRG		1.66175		0.6018	1	15	0.05	0.99	
1,2-Dichloroethane-d4	0.3077	0.3168	0.3283	0.3237	0.3184	0.3303	0.3215	0.3005	0.3060	AVRG		3.15437		0.3170	3	15	0.05	0.99	
Toluene-d8	1.0044	0.9486	1.0031	1.0163	0.9886	1.0385	0.9811	1.0217	1.0037	AVRG		0.99934		1.0007	3	15	0.05	0.99	
Bromofluorobenzene	1.0593	0.9793	1.0003	1.0272	1.0410	1.0415	0.9604	0.8944	0.9258	AVRG		1.00794		0.9921	6	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Freon 12	0.500	32	1.000	9	2.000	55	5.000	0	10.00	5	20.00	-14	50.00	2	75.00	0		
Chloromethane			1.000	1	2.000	15	5.000	-5	10.00	3	20.00	-12	50.00	-2	75.00	-3	100.0	2
Vinyl Chloride	0.500	-6	1.000	-9	2.000	20	5.000	-15	10.00	-5	20.00	-15	50.00	4	75.00	15	100.0	11
Bromomethane			1.000	-30	2.000	-7	5.000	-8	10.00	10	20.00	-3	50.00	9	75.00	15	100.0	14
Chloroethane			1.000	-17	2.000	16	5.000	-9	10.00	5	20.00	-9	50.00	5	75.00	9	100.0	0
Trichlorofluoromethane	0.500	76	1.000	18	2.000	51	5.000	-4	10.00	5	20.00	-14	50.00	3	75.00	-1		
Acetone					2.000	15	5.000	-5	10.00	3	20.00	-5	50.00	2	75.00	-4	100.0	-6
1,1-Dichloroethene			0.500	1	2.000	1	5.000	-9	10.00	2	20.00	1	50.00	5	75.00	-2	100.0	0
Iodomethane	0.250	347	0.500	151	2.000	-9	5.000	-30	10.00	-3	20.00	2	50.00	0				
Methylene Chloride					2.000	3	5.000	-4	10.00	6	20.00	-1	50.00	-1	75.00	1	100.0	-5
Carbon Disulfide			0.500	-5	2.000	-1	5.000	-7	10.00	3	20.00	3	50.00	4	75.00	1	100.0	1
MTBE			0.500	-3	2.000	0	5.000	-3	10.00	10	20.00	2	50.00	1	75.00	-1	100.0	-6
trans-1,2-Dichloroethene			0.500	-7	2.000	5	5.000	-7	10.00	8	20.00	2	50.00	1	75.00	0	100.0	0
Vinyl Acetate					2.000	8	5.000	0	10.00	8	20.00	7	50.00	-2	75.00	-14	100.0	-7
1,1-Dichloroethane			0.500	-3	2.000	10	5.000	-8	10.00	6	20.00	2	50.00	0	75.00	-3	100.0	-5
2-Butanone					2.000	5	5.000	-7	10.00	6	20.00	2	50.00	5	75.00	-6	100.0	-4
2,2-Dichloropropane			0.500	1	2.000	-1	5.000	-2	10.00	6	20.00	-1	50.00	5	75.00	-6	100.0	-2
cis-1,2-Dichloroethene			0.500	2	2.000	5	5.000	-3	10.00	6	20.00	0	50.00	0	75.00	-5	100.0	-6
Chloroform			0.500	0	2.000	8	5.000	-9	10.00	5	20.00	1	50.00	0	75.00	-1	100.0	-5
Bromochloromethane			0.500	6	2.000	8	5.000	0	10.00	4	20.00	-3	50.00	0	75.00	-5	100.0	-10
1,1,1-Trichloroethane			0.500	1	2.000	-7	5.000	-4	10.00	4	20.00	1	50.00	5	75.00	-3	100.0	2
1,1-Dichloropropene			0.500	7	2.000	-2	5.000	-7	10.00	5	20.00	2	50.00	1	75.00	-6	100.0	0
Carbon Tetrachloride			0.500	0	2.000	-14	5.000	-3	10.00	4	20.00	3	50.00	12	75.00	-5	100.0	3
1,2-Dichloroethane			0.500	-11	2.000	-1	5.000	2	10.00	6	20.00	4	50.00	4	75.00	1	100.0	-5
Benzene			0.500	-6	2.000	3	5.000	-4	10.00	4	20.00	5	50.00	2	75.00	-1	100.0	-5
Trichloroethene			0.500	1	2.000	-1	5.000	-5	10.00	2	20.00	3	50.00	3	75.00	0	100.0	-3
1,2-Dichloropropane			0.500	0	2.000	2	5.000	-2	10.00	7	20.00	5	50.00	0	75.00	-2	100.0	-11
Bromodichloromethane			0.500	-11	2.000	-4	5.000	-3	10.00	6	20.00	6	50.00	7	75.00	1	100.0	-3
Dibromomethane			0.500	-21	2.000	2	5.000	0	10.00	5	20.00	8	50.00	4	75.00	3	100.0	-1
4-Methyl-2-Pentanone					2.000	0	5.000	-3	10.00	1	20.00	7	50.00	2	75.00	-4	100.0	-2
cis-1,3-Dichloropropene			0.500	-4	2.000	1	5.000	0	10.00	5	20.00	3	50.00	2	75.00	-1	100.0	-6
Toluene			0.500	-4	2.000	4	5.000	-4	10.00	11	20.00	-3	50.00	5	75.00	-2	100.0	-8
trans-1,3-Dichloropropene			0.500	-10	2.000	2	5.000	-7	10.00	8	20.00	2	50.00	6	75.00	2	100.0	-3
1,1,2-Trichloroethane			0.500	-12	2.000	-4	5.000	-1	10.00	10	20.00	7	50.00	3	75.00	1	100.0	-3
2-Hexanone					2.000	0	5.000	-7	10.00	3	20.00	7	50.00	3	75.00	-1	100.0	-4
1,3-Dichloropropane			0.500	-3	2.000	2	5.000	-2	10.00	11	20.00	0	50.00	-3	75.00	0	100.0	-5
Tetrachloroethene			0.500	12	2.000	-7	5.000	-6	10.00	2	20.00	-4	50.00	4	75.00	-7	100.0	6
Dibromochloromethane			0.500	-10	2.000	-5	5.000	-2	10.00	9	20.00	5	50.00	-1	75.00	3	100.0	1
1,2-Dibromoethane			0.500	-10	2.000	0	5.000	0	10.00	7	20.00	6	50.00	1	75.00	0	100.0	-3
Chlorobenzene			0.500	-3	2.000	5	5.000	1	10.00	10	20.00	-1	50.00	-3	75.00	-4	100.0	-6
1,1,1,2-Tetrachloroethane			0.500	-5	2.000	-2	5.000	0	10.00	9	20.00	-2	50.00	0	75.00	2	100.0	-2
Ethylbenzene			0.500	6	2.000	3	5.000	-2	10.00	5	20.00	-2	50.00	-2	75.00	-6	100.0	-4

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
m,p-Xylenes	0.500	-1	1.000	5	4.000	4	10.00	-4	20.00	12	40.00	2	100.0	-4	150.0	-5	200.0	-9
o-Xylene			0.500	4	2.000	-1	5.000	2	10.00	12	20.00	-1	50.00	-2	75.00	-7	100.0	-6
Styrene			0.500	-6	2.000	-3	5.000	3	10.00	10	20.00	3	50.00	-3	75.00	0	100.0	-4
Bromoform			0.500	-16	2.000	-1	5.000	-4	10.00	6	20.00	3	50.00	2	75.00	4	100.0	6
Isopropylbenzene			0.500	0	2.000	3	5.000	-5	10.00	4	20.00	8	50.00	3	75.00	-12	100.0	-1
1,1,2,2-Tetrachloroethane			0.500	-3	2.000	6	5.000	-1	10.00	5	20.00	9	50.00	2	75.00	-10	100.0	-7
1,2,3-Trichloropropane			0.500	1	2.000	6	5.000	-2	10.00	6	20.00	9	50.00	-3	75.00	-9	100.0	-7
Propylbenzene			0.500	4	2.000	4	5.000	2	10.00	10	20.00	3	50.00	2	75.00	-15	100.0	-9
Bromobenzene			0.500	-1	2.000	1	5.000	5	10.00	9	20.00	5	50.00	-2	75.00	-7	100.0	-10
1,3,5-Trimethylbenzene			0.500	11	2.000	5	5.000	-3	10.00	6	20.00	5	50.00	1	75.00	-14	100.0	-11
2-Chlorotoluene			0.500	6	2.000	10	5.000	-1	10.00	9	20.00	5	50.00	-2	75.00	-12	100.0	-14
4-Chlorotoluene			0.500	3	2.000	7	5.000	-3	10.00	10	20.00	2	50.00	-2	75.00	-9	100.0	-8
tert-Butylbenzene			0.500	-1	2.000	2	5.000	-1	10.00	10	20.00	4	50.00	3	75.00	-14	100.0	-4
1,2,4-Trimethylbenzene			0.500	-2	2.000	6	5.000	-3	10.00	11	20.00	8	50.00	-4	75.00	-8	100.0	-7
sec-Butylbenzene			0.500	-6	2.000	2	5.000	-2	10.00	12	20.00	4	50.00	3	75.00	-12	100.0	-1
para-Isopropyl Toluene			0.500	-6	2.000	-2	5.000	1	10.00	15	20.00	2	50.00	0	75.00	-9	100.0	-2
1,3-Dichlorobenzene			0.500	0	2.000	4	5.000	-3	10.00	10	20.00	8	50.00	-5	75.00	-7	100.0	-7
1,4-Dichlorobenzene			0.500	3	2.000	2	5.000	-6	10.00	7	20.00	6	50.00	-1	75.00	-4	100.0	-7
n-Butylbenzene			0.500	-2	2.000	-3	5.000	-5	10.00	12	20.00	1	50.00	4	75.00	-8	100.0	0
1,2-Dichlorobenzene			0.500	-7	2.000	2	5.000	2	10.00	8	20.00	6	50.00	-3	75.00	-4	100.0	-4
1,2-Dibromo-3-Chloropropane			0.500	5	2.000	11	5.000	-6	10.00	-6	20.00	5	50.00	-1	75.00	-3	100.0	-6
1,2,4-Trichlorobenzene			0.500	1	2.000	6	5.000	-6	10.00	10	20.00	2	50.00	-1	75.00	-7	100.0	-6
Hexachlorobutadiene			0.500	10	2.000	-6	5.000	0	10.00	12	20.00	-2	50.00	2	75.00	-17	100.0	1
Naphthalene			0.500	-10	2.000	-6	5.000	-7	10.00	6	20.00	9	50.00	3	75.00	3	100.0	1
1,2,3-Trichlorobenzene			0.500	0	2.000	-2	5.000	-10	10.00	8	20.00	10	50.00	-3	75.00	-3	100.0	1
Dibromofluoromethane	50.00	1	50.00	0	50.00	2	50.00	1	50.00	-1	50.00	1	50.00	-1	50.00	-2	50.00	-1
1,2-Dichloroethane-d4	50.00	-3	50.00	0	50.00	4	50.00	2	50.00	0	50.00	4	50.00	1	50.00	-5	50.00	-3
Toluene-d8	50.00	0	50.00	-5	50.00	0	50.00	2	50.00	-1	50.00	4	50.00	-2	50.00	2	50.00	0
Bromofluorobenzene	50.00	7	50.00	-1	50.00	1	50.00	4	50.00	5	50.00	5	50.00	-3	50.00	-10	50.00	-7

BO 11/21/08 : Manual integrations were made due to fronting/tailing of peaks, except for Bromomethane which was integrated to raise the baseline due to noise

Analyst: BO Date: 11/21/08 Reviewer: ACM Date: 11/21/08

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; QUAD=Quadratic regression

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 208752 MSVOA Water
EPA 8260B

Inst : MSVOA06 Name : 826GOX6W
Calnum : 458468482002 Cal Date : 20-NOV-2008 Type : WATER

ICV 458468482028 (fkk28 21-NOV-2008) stds: S10631 (10000X), S10447 (1000X)
ICV 458468482029 (fkk29 21-NOV-2008) stds: S10654 (10000X), S10798 (10000X), S10788 (10000X), S10447 (1000X)

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	458468482028	0.6523	0.6183	25.00	25.67	ug/L	3	25	
Chloromethane	458468482028	0.9011	0.7419	25.00	20.58	ug/L	-18	25	
Vinyl Chloride	458468482028	0.6577	0.7466	25.00	28.38	ug/L	14	25	
Bromomethane	458468482028	0.2767	0.2219	25.00	20.05	ug/L	-20	25	
Chloroethane	458468482028	0.3533	0.3134	25.00	22.18	ug/L	-11	25	
Trichlorofluoromethane	458468482028	0.7181	0.7269	25.00	26.80	ug/L	7	25	
Acetone	458468482029	0.3229	0.2969	25.00	22.99	ug/L	-8	25	
1,1-Dichloroethene	458468482029	0.5342	0.5779	25.00	27.05	ug/L	8	25	
Iodomethane	458468482029	0.3604	0.2156	25.00	11.90	ug/L	**-52**	25	v- ***
Methylene Chloride	458468482029	0.7329	0.7315	25.00	24.95	ug/L	0	25	
Carbon Disulfide	458468482029	2.0736	2.0503	25.00	24.72	ug/L	-1	25	
MTBE	458468482029	1.9089	1.6999	25.00	22.26	ug/L	-11	25	
trans-1,2-Dichloroethene	458468482029	0.6155	0.6477	25.00	26.31	ug/L	5	25	
Vinyl Acetate	458468482029	1.3534	0.9237	25.00	17.06	ug/L	**-32**	25	v- ***
1,1-Dichloroethane	458468482029	1.2098	1.1919	25.00	24.63	ug/L	-1	25	
2-Butanone	458468482029	0.4254	0.3758	25.00	22.09	ug/L	-12	25	
2,2-Dichloropropane	458468482029	0.6696	0.6737	25.00	25.15	ug/L	1	25	
cis-1,2-Dichloroethene	458468482029	0.7100	0.7126	25.00	25.09	ug/L	0	25	
Chloroform	458468482029	1.0978	1.0713	25.00	24.40	ug/L	-2	25	
Bromochloromethane	458468482029	0.4218	0.3950	25.00	23.41	ug/L	-6	25	
1,1,1-Trichloroethane	458468482029	0.6692	0.7239	25.00	27.04	ug/L	8	25	
1,1-Dichloropropene	458468482029	0.4415	0.4956	25.00	28.06	ug/L	12	25	
Carbon Tetrachloride	458468482029	0.3589	0.4153	25.00	28.93	ug/L	16	25	
1,2-Dichloroethane	458468482029	0.4747	0.4647	25.00	24.47	ug/L	-2	25	
Benzene	458468482029	1.4989	1.5405	25.00	25.69	ug/L	3	25	
Trichloroethene	458468482029	0.3658	0.3974	25.00	27.16	ug/L	9	25	
1,2-Dichloropropane	458468482029	0.4456	0.4417	25.00	24.78	ug/L	-1	25	
Bromodichloromethane	458468482029	0.4986	0.5145	25.00	25.79	ug/L	3	25	
Dibromomethane	458468482029	0.2907	0.2992	25.00	25.73	ug/L	3	25	
4-Methyl-2-Pentanone	458468482029	0.4957	0.4561	25.00	23.01	ug/L	-8	25	
cis-1,3-Dichloropropene	458468482029	0.6508	0.6214	25.00	23.87	ug/L	-5	25	
Toluene	458468482029	0.8473	0.9101	25.00	26.85	ug/L	7	25	
trans-1,3-Dichloropropene	458468482029	0.5704	0.5250	25.00	23.01	ug/L	-8	25	
1,1,2-Trichloroethane	458468482029	0.2089	0.2147	25.00	25.70	ug/L	3	25	
2-Hexanone	458468482029	0.4156	0.3925	25.00	23.61	ug/L	-6	25	
1,3-Dichloropropane	458468482029	0.7506	0.7684	25.00	25.59	ug/L	2	25	
Tetrachloroethene	458468482029	0.4188	0.4715	25.00	28.15	ug/L	13	25	
Dibromochloromethane	458468482029	0.5668	0.5681	25.00	25.06	ug/L	0	25	
1,2-Dibromoethane	458468482029	0.4360	0.4362	25.00	25.01	ug/L	0	25	
Chlorobenzene	458468482029	1.2382	1.2117	25.00	24.47	ug/L	-2	25	
1,1,1,2-Tetrachloroethane	458468482029	0.4469	0.4543	25.00	25.41	ug/L	2	25	
Ethylbenzene	458468482029	1.7693	1.8355	25.00	25.94	ug/L	4	25	
m,p-Xylenes	458468482029	0.6799	0.7220	50.00	53.10	ug/L	6	25	
o-Xylene	458468482029	0.7208	0.7255	25.00	25.16	ug/L	1	25	
Styrene	458468482029	1.2406	1.2565	25.00	25.32	ug/L	1	25	
Bromoform	458468482029	0.4043	0.4197	25.00	25.96	ug/L	4	25	
Isopropylbenzene	458468482029	3.0374	2.8809	25.00	23.71	ug/L	-5	25	

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	458468482029	1.2619	1.1922	25.00	23.62	ug/L	-6	25	
1,2,3-Trichloropropane	458468482029	0.9814	0.9500	25.00	24.20	ug/L	-3	25	
Propylbenzene	458468482029	3.5323	3.8946	25.00	27.56	ug/L	10	25	
Bromobenzene	458468482029	1.1030	1.1645	25.00	26.39	ug/L	6	25	
1,3,5-Trimethylbenzene	458468482029	2.4404	2.5856	25.00	26.49	ug/L	6	25	
2-Chlorotoluene	458468482029	2.5264	2.6010	25.00	25.74	ug/L	3	25	
4-Chlorotoluene	458468482029	2.4576	2.4107	25.00	24.52	ug/L	-2	25	
tert-Butylbenzene	458468482029	2.0871	2.3029	25.00	27.59	ug/L	10	25	
1,2,4-Trimethylbenzene	458468482029	2.5473	2.7542	25.00	27.03	ug/L	8	25	
sec-Butylbenzene	458468482029	2.8803	3.2369	25.00	28.10	ug/L	12	25	
para-Isopropyl Toluene	458468482029	2.4577	2.5805	25.00	26.25	ug/L	5	25	
1,3-Dichlorobenzene	458468482029	1.8598	1.8497	25.00	24.86	ug/L	-1	25	
1,4-Dichlorobenzene	458468482029	1.9095	1.8322	25.00	23.99	ug/L	-4	25	
n-Butylbenzene	458468482029	2.0653	2.3800	25.00	28.81	ug/L	15	25	
1,2-Dichlorobenzene	458468482029	1.7718	1.7633	25.00	24.88	ug/L	0	25	
1,2-Dibromo-3-Chloropropane	458468482029	0.1927	0.1836	25.00	23.82	ug/L	-5	25	
1,2,4-Trichlorobenzene	458468482029	0.9719	0.9695	25.00	24.94	ug/L	0	25	
Hexachlorobutadiene	458468482029	0.3550	0.4023	25.00	28.33	ug/L	13	25	
Naphthalene	458468482029	2.7758	2.9697	25.00	26.75	ug/L	7	25	
1,2,3-Trichlorobenzene	458468482029	0.9151	0.9388	25.00	25.65	ug/L	3	25	

-=low bias v=ICV

CURTIS & TOMPKINS INITIAL CALIBRATION FOR 208752 MSVOA Water: EPA 8260B

Inst : MSVOA11 Name : 8260GX11
Calnum : 838465788001 Date : 18-NOV-2008 18:16 Type : WATER
Units : ug/L X Axis : R

Level	File	Seqnum	Sample ID	Analyzed	Stds
L1	kke16	838465788016		18-NOV-2008 18:16	S10756 (2000000X), S10619 (2000000X), S9073 (2000000X), S10355 (1000000X), S10764 (2500X)
L2	kke17	838465788017		18-NOV-2008 18:44	S10756 (1000000X), S10619 (1000000X), S9073 (1000000X), S10355 (500000X), S10764 (2500X)
L3	kke18	838465788018		18-NOV-2008 19:12	S10756 (250000X), S10619 (250000X), S9073 (500000X), S10355 (250000X), S10764 (2500X)
L4	kke19	838465788019		18-NOV-2008 19:40	S10756 (100000X), S10619 (100000X), S9073 (200000X), S10355 (100000X), S10764 (2500X)
L5	kke20	838465788020		18-NOV-2008 20:08	S10756 (50000X), S10619 (50000X), S9073 (100000X), S10355 (50000X), S10764 (2500X)
L6	kke21	838465788021		18-NOV-2008 20:36	S10756 (25000X), S10619 (25000X), S9073 (50000X), S10355 (25000X), S10764 (2500X)
L7	kke22	838465788022		18-NOV-2008 21:04	S10756 (10000X), S10619 (10000X), S9073 (20000X), S10355 (10000X), S10764 (2500X)
L8	kke23	838465788023		18-NOV-2008 21:32	S10756 (6667X), S10619 (6667X), S9073 (13330X), S10355 (6667X), S10764 (2500X)
L9	kke24	838465788024		18-NOV-2008 22:01	S10756 (5000X), S10619 (5000X), S9073 (10000X), S10355 (5000X), S10764 (2500X)

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Freon 12		0.3826	0.2856	0.3130	0.3829	0.4930	0.3869	0.4265		QUAD	0.18484	2.46331	-0.00308	0.3815	0.994	15	0.05	0.99	
Chloromethane		0.5475	0.5297	0.5101	0.5003	0.4942	0.4918	0.4801	0.4955	AVRG		1.97565		0.5062	4	15	0.10	0.99	
Vinyl Chloride	0.5419	0.5371	0.5413	0.4561	0.5720	0.5515	0.5140	0.4999	0.5282	AVRG		1.89791		0.5269	6	15	0.05	0.99	
Bromomethane		0.1919	0.1829	0.1564	0.1860	0.2058	0.2333	0.2239	0.2438	AVRG		4.92600		0.2030	14	15	0.05	0.99	
Chloroethane		0.3368	0.3324	0.3090	0.3369	0.3257	0.3178	0.2955	0.3048	AVRG		3.12628		0.3199	5	15	0.05	0.99	
Trichlorofluoromethane		0.4924	0.4960	0.4157	0.5853	0.5906	0.4996	0.5256	0.5948	AVRG		1.90478		0.5250	12	15	0.05	0.99	
Acetone			0.2276	0.1873	0.1954	0.1884	0.1732	0.1756	0.1733	AVRG		5.30002		0.1887	10	15	0.05	0.99	
1,1-Dichloroethene		0.2992m	0.3182	0.3175	0.3450	0.3302	0.3161	0.3283	0.3499	AVRG		3.07154		0.3256	5	15	0.05	0.99	
Iodomethane			0.2490	0.2671	0.2986	0.3140	0.3476	0.3224	0.3389	AVRG		3.27477		0.3054	12	15	0.05	0.99	
Methylene Chloride			0.4485	0.4455	0.4319	0.4326	0.4161	0.4065	0.4142	AVRG		2.33695		0.4279	4	15	0.05	0.99	
Carbon Disulfide		1.1484	1.2118	1.2208	1.2950	1.2525	1.1919	1.2335	1.2755	AVRG		0.81389		1.2287	4	15	0.05	0.99	
MTBE		1.4036	1.4331	1.3887	1.4217	1.4173	1.3934	1.3600	1.3773	AVRG		0.71459		1.3994	2	15	0.05	0.99	
trans-1,2-Dichloroethene		0.4337m	0.3948	0.4060	0.4186	0.4091	0.3963	0.4065	0.4207	AVRG		2.43480		0.4107	3	15	0.05	0.99	
Vinyl Acetate			0.9227	0.8898	0.8646	0.8899	0.9376	0.8330	0.8239	AVRG		1.13609		0.8802	5	15	0.05	0.99	
1,1-Dichloroethane		0.7398	0.7597	0.7639	0.7771	0.7652	0.7402	0.7293	0.7445	AVRG		1.32898		0.7525	2	15	0.10	0.99	
2-Butanone			0.2022	0.1853	0.1943	0.1934	0.1848	0.1844	0.1795	AVRG		5.28728		0.1891	4	15	0.05	0.99	
2,2-Dichloropropane		0.6137	0.5701	0.5595	0.6016	0.5617	0.5343	0.5426	0.5593	AVRG		1.76100		0.5679	5	15	0.05	0.99	
cis-1,2-Dichloroethene		0.5459	0.4710	0.4711	0.4676	0.4604	0.4551	0.4573	0.4684	AVRG		2.10707		0.4746	6	15	0.05	0.99	
Chloroform		0.7704	0.7259	0.7108	0.7262	0.7187	0.7024	0.6908	0.7122	AVRG		1.38953		0.7197	3	15	0.05	0.99	
Bromochloromethane		0.1922	0.2052	0.2134	0.2198	0.2244	0.2228	0.2273	0.2302	AVRG		4.60974		0.2169	6	15	0.05	0.99	
1,1,1-Trichloroethane		0.5447	0.5472	0.5390	0.5806	0.5479	0.5164	0.5340	0.5630	AVRG		1.82950		0.5466	4	15	0.05	0.99	
1,1-Dichloropropene		0.3096	0.3175	0.3151	0.3513	0.3244	0.3019	0.3277	0.3439	AVRG		3.08717		0.3239	5	15	0.05	0.99	
Carbon Tetrachloride		0.2491	0.2619	0.2639	0.2986	0.2740	0.2568	0.2796	0.3015	AVRG		3.66084		0.2732	7	15	0.05	0.99	
1,2-Dichloroethane		0.3297	0.3622	0.3653	0.3673	0.3614	0.3524	0.3453	0.3492	AVRG		2.82405		0.3541	4	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Benzene		1.1444	1.1790	1.1393	1.1808	1.1518	1.1265	1.1445	1.1852	AVRG		0.86474		1.1564	2	15	0.05	0.99	
Trichloroethene		0.2513	0.2683	0.2548	0.2740	0.2624	0.2520	0.2649	0.2759	AVRG		3.80269		0.2630	4	15	0.05	0.99	
1,2-Dichloropropane		0.2970	0.3020	0.2972	0.3040	0.2906	0.2835	0.2820	0.2891	AVRG		3.41088		0.2932	3	15	0.05	0.99	
Bromodichloromethane		0.3602	0.3516	0.3464	0.3656	0.3576	0.3539	0.3502	0.3567	AVRG		2.81474		0.3553	2	15	0.05	0.99	
Dibromomethane		0.1580	0.1597	0.1532	0.1593	0.1583	0.1556	0.1549	0.1567	AVRG		6.37124		0.1570	1	15	0.05	0.99	
4-Methyl-2-Pentanone		0.2499	0.2527	0.2427	0.2509	0.2468	0.2460	0.2434	0.2386	AVRG		4.05913		0.2464	2	15	0.05	0.99	
cis-1,3-Dichloropropene		0.4525	0.4838	0.4674	0.4787	0.4735	0.4664	0.4610	0.4698	AVRG		2.13161		0.4691	2	15	0.05	0.99	
Toluene		0.6754	0.7058	0.6915	0.7266	0.6915	0.6762	0.6989	0.7192	AVRG		1.43239		0.6981	3	15	0.05	0.99	
trans-1,3-Dichloropropene		0.4313	0.4353	0.4314	0.4501	0.4412	0.4353	0.4327	0.4391	AVRG		2.28810		0.4370	1	15	0.05	0.99	
1,1,2-Trichloroethane		0.1391	0.1322	0.1239	0.1338	0.1306	0.1267	0.1283	0.1282	AVRG		7.67226		0.1303	4	15	0.05	0.99	
2-Hexanone			0.2360	0.2103	0.2239	0.2196	0.2143	0.2163	0.2115	AVRG		4.56957		0.2188	4	15	0.05	0.99	
1,3-Dichloropropane		0.5366	0.5671	0.5505	0.5804	0.5632	0.5514	0.5386	0.5503	AVRG		1.80260		0.5548	3	15	0.05	0.99	
Tetrachloroethene		0.2502	0.2909	0.2823	0.3143	0.2868	0.2675	0.2964	0.3202	AVRG		3.46527		0.2886	8	15	0.05	0.99	
Dibromochloromethane		0.2949	0.3300	0.3173	0.3369	0.3345	0.3317	0.3323	0.3418	AVRG		3.05414		0.3274	5	15	0.05	0.99	
1,2-Dibromoethane		0.2061	0.2336	0.2328	0.2431	0.2409	0.2414	0.2390	0.2412	AVRG		4.25979		0.2348	5	15	0.05	0.99	
Chlorobenzene		0.8963	0.9837	0.9351	0.9911	0.9366	0.9191	0.9336	0.9658	AVRG		1.05803		0.9452	3	15	0.30	0.99	
1,1,1,2-Tetrachloroethane		0.2922	0.3345	0.3102	0.3300	0.3175	0.3158	0.3144	0.3271	AVRG		3.14748		0.3177	4	15	0.05	0.99	
Ethylbenzene		1.5293	1.5810	1.4902	1.5964	1.4944	1.4485	1.5258	1.5992	AVRG		0.65227		1.5331	4	15	0.05	0.99	
m,p-Xylenes	0.6207	0.5946	0.6247	0.5982	0.6391	0.6072	0.5963	0.6397	0.6733	AVRG		1.60889		0.6215	4	15	0.05	0.99	
o-Xylene		0.5773	0.6170	0.5976	0.6393	0.5992	0.6014	0.6298	0.6559	AVRG		1.62687		0.6147	4	15	0.05	0.99	
Styrene		0.9373	1.0665	1.0294	1.1010	1.0593	1.0881	1.1229	1.1658	AVRG		0.93345		1.0713	6	15	0.05	0.99	
Bromoform		0.1745	0.2065	0.1951	0.2132	0.2115	0.2155	0.2161	0.2214	AVRG		4.83689		0.2067	7	15	0.10	0.99	
Isopropylbenzene		3.1204	3.3263	3.1408	3.3128	3.0648	2.8751	3.1025	3.2468	AVRG		0.31759		3.1487	5	15	0.05	0.99	
1,1,2,2-Tetrachloroethane		0.8623	0.8860	0.8090	0.8350	0.7806	0.7639	0.7231	0.7048	AVRG		1.25694		0.7956	8	15	0.30	0.99	
1,2,3-Trichloropropane		0.8722	0.9855	0.8255	0.8585	0.8189	0.8023	0.7760	0.7597	AVRG		1.19426		0.8373	8	15	0.05	0.99	
Propylbenzene		3.4867	3.5722	3.4553	3.6182	3.4978	3.3125	3.6548	3.8498	AVRG		0.28122		3.5559	4	15	0.05	0.99	
Bromobenzene		0.8958	0.8919	0.8417	0.8937	0.8479	0.8449	0.8728	0.9018	AVRG		1.14442		0.8738	3	15	0.05	0.99	
1,3,5-Trimethylbenzene		2.5258	2.6346	2.3824	2.4854	2.4435	2.3423	2.5623	2.7409	AVRG		0.39767		2.5146	5	15	0.05	0.99	
2-Chlorotoluene		2.8320	2.8334	2.6622	2.7804	2.6110	2.5236	2.6492	2.7109	AVRG		0.37032		2.7003	4	15	0.05	0.99	
4-Chlorotoluene		2.4659	2.5744	2.4720	2.5236	2.3934	2.2942	2.3697	2.4083	AVRG		0.41023		2.4377	4	15	0.05	0.99	
tert-Butylbenzene		1.8648	2.0741	1.9163	2.0014	1.9886	1.8050	2.0384	2.2082	AVRG		0.50325		1.9871	6	15	0.05	0.99	
1,2,4-Trimethylbenzene		2.4837	2.5084	2.2455	2.2674	2.2543	2.2017	2.3702	2.4998	AVRG		0.42483		2.3539	5	15	0.05	0.99	
sec-Butylbenzene		2.4398	2.7860	2.5334	2.7010	2.7191	2.4351	2.8352	3.1609	AVRG		0.37019		2.7013	9	15	0.05	0.99	
para-Isopropyl Toluene		2.1498	2.1870	1.9838	2.0802	2.1853	1.9837	2.3069	2.5694	AVRG		0.45855		2.1808	9	15	0.05	0.99	
1,3-Dichlorobenzene		1.5332	1.6315	1.5653	1.6076	1.5411	1.4745	1.5414	1.5706	AVRG		0.64178		1.5582	3	15	0.05	0.99	
1,4-Dichlorobenzene		1.5387	1.7011	1.6091	1.6500	1.5761	1.5472	1.6076	1.6409	AVRG		0.62156		1.6088	3	15	0.05	0.99	
n-Butylbenzene		1.7105	1.8751	1.5914	1.6389	1.6932	1.4889	1.7547	1.9732	AVRG		0.58284		1.7157	9	15	0.05	0.99	
1,2-Dichlorobenzene		1.4059	1.6048	1.5176	1.5809	1.4943	1.4377	1.4707	1.4965	AVRG		0.66621		1.5010	4	15	0.05	0.99	
1,2-Dibromo-3-Chloropropane		0.2235m	0.1806m	0.1703	0.1717	0.1615	0.1516	0.1451		QUAD	-0.1965	5.93482	0.089968	0.1720	1.000	15	0.05	0.99	
1,2,4-Trichlorobenzene		0.8986	0.9654	0.8529	0.8260	0.8296	0.7120	0.7353	0.7751	AVRG		1.21307		0.8244	10	15	0.05	0.99	
Hexachlorobutadiene		0.2642	0.3124	0.2237	0.2586	0.2923	0.2120	0.2651	0.3154	AVRG		3.73192		0.2680	14	15	0.05	0.99	

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	a0	a1	a2	Avg	r^2 %RSD	Max %RSD	Min RF	Min r^2	Flg
Naphthalene		2.4043	2.5946	2.3927	2.4635	2.3399	2.0233	1.9343	1.9361	AVRG		0.44226		2.2611	11	15	0.05	0.99	
1,2,3-Trichlorobenzene		0.8219	0.9197	0.8022	0.7963	0.7913	0.6801	0.6973	0.7331	AVRG		1.28166		0.7802	10	15	0.05	0.99	
Dibromofluoromethane		0.4213	0.4239	0.4268	0.4206	0.4217	0.4199	0.4197	0.4184	AVRG		2.37229		0.4215	1	15	0.05	0.99	
1,2-Dichloroethane-d4		0.3326	0.3322	0.3286	0.3319	0.3286	0.3238	0.3263	0.3210	AVRG		3.04781		0.3281	1	15	0.05	0.99	
Toluene-d8		1.1689	1.1622	1.1533	1.1653	1.1702	1.1652	1.1697	1.1635	AVRG		0.85852		1.1648	0	15	0.05	0.99	
Bromofluorobenzene		1.1564	1.1359	1.1302	1.1284	1.0929	1.0991	1.0911	1.0727	AVRG		0.89821		1.1133	3	15	0.05	0.99	

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
Freon 12			1.000	13	2.000	-20	5.000	-19	10.00	-4	20.00	21	50.00	-7	75.00	1		
Chloromethane			1.000	8	2.000	5	5.000	1	10.00	-1	20.00	-2	50.00	-3	75.00	-5	100.0	-2
Vinyl Chloride	0.500	3	1.000	2	2.000	3	5.000	-13	10.00	9	20.00	5	50.00	-2	75.00	-5	100.0	0
Bromomethane			1.000	-5	2.000	-10	5.000	-23	10.00	-8	20.00	1	50.00	15	75.00	10	100.0	20
Chloroethane			1.000	5	2.000	4	5.000	-3	10.00	5	20.00	2	50.00	-1	75.00	-8	100.0	-5
Trichlorofluoromethane			1.000	-6	2.000	-6	5.000	-21	10.00	11	20.00	12	50.00	-5	75.00	0	100.0	13
Acetone					2.000	21	5.000	-1	10.00	4	20.00	0	50.00	-8	75.00	-7	100.0	-8
1,1-Dichloroethene			0.500	-8	2.000	-2	5.000	-2	10.00	6	20.00	1	50.00	-3	75.00	1	100.0	7
Iodomethane					2.000	-18	5.000	-13	10.00	-2	20.00	3	50.00	14	75.00	6	100.0	11
Methylene Chloride					2.000	5	5.000	4	10.00	1	20.00	1	50.00	-3	75.00	-5	100.0	-3
Carbon Disulfide			0.500	-7	2.000	-1	5.000	-1	10.00	5	20.00	2	50.00	-3	75.00	0	100.0	4
MTBE			0.500	0	2.000	2	5.000	-1	10.00	2	20.00	1	50.00	0	75.00	-3	100.0	-2
trans-1,2-Dichloroethene			0.500	6	2.000	-4	5.000	-1	10.00	2	20.00	0	50.00	-4	75.00	-1	100.0	2
Vinyl Acetate					2.000	5	5.000	1	10.00	-2	20.00	1	50.00	7	75.00	-5	100.0	-6
1,1-Dichloroethane			0.500	-2	2.000	1	5.000	2	10.00	3	20.00	2	50.00	-2	75.00	-3	100.0	-1
2-Butanone					2.000	7	5.000	-2	10.00	3	20.00	2	50.00	-2	75.00	-3	100.0	-5
2,2-Dichloropropane			0.500	8	2.000	0	5.000	-1	10.00	6	20.00	-1	50.00	-6	75.00	-4	100.0	-2
cis-1,2-Dichloroethene			0.500	15	2.000	-1	5.000	-1	10.00	-1	20.00	-3	50.00	-4	75.00	-4	100.0	-1
Chloroform			0.500	7	2.000	1	5.000	-1	10.00	1	20.00	0	50.00	-2	75.00	-4	100.0	-1
Bromochloromethane			0.500	-11	2.000	-5	5.000	-2	10.00	1	20.00	3	50.00	3	75.00	5	100.0	6
1,1,1-Trichloroethane			0.500	0	2.000	0	5.000	-1	10.00	6	20.00	0	50.00	-6	75.00	-2	100.0	3
1,1-Dichloropropene			0.500	-4	2.000	-2	5.000	-3	10.00	8	20.00	0	50.00	-7	75.00	1	100.0	6
Carbon Tetrachloride			0.500	-9	2.000	-4	5.000	-3	10.00	9	20.00	0	50.00	-6	75.00	2	100.0	10
1,2-Dichloroethane			0.500	-7	2.000	2	5.000	3	10.00	4	20.00	2	50.00	0	75.00	-2	100.0	-1
Benzene			0.500	-1	2.000	2	5.000	-1	10.00	2	20.00	0	50.00	-3	75.00	-1	100.0	2
Trichloroethene			0.500	-4	2.000	2	5.000	-3	10.00	4	20.00	0	50.00	-4	75.00	1	100.0	5
1,2-Dichloropropane			0.500	1	2.000	3	5.000	1	10.00	4	20.00	-1	50.00	-3	75.00	-4	100.0	-1
Bromodichloromethane			0.500	1	2.000	-1	5.000	-2	10.00	3	20.00	1	50.00	0	75.00	-1	100.0	0
Dibromomethane			0.500	1	2.000	2	5.000	-2	10.00	2	20.00	1	50.00	-1	75.00	-1	100.0	0
4-Methyl-2-Pentanone			0.500	1	2.000	3	5.000	-1	10.00	2	20.00	0	50.00	0	75.00	-1	100.0	-3
cis-1,3-Dichloropropene			0.500	-4	2.000	3	5.000	0	10.00	2	20.00	1	50.00	-1	75.00	-2	100.0	0
Toluene			0.500	-3	2.000	1	5.000	-1	10.00	4	20.00	-1	50.00	-3	75.00	0	100.0	3
trans-1,3-Dichloropropene			0.500	-1	2.000	0	5.000	-1	10.00	3	20.00	1	50.00	0	75.00	-1	100.0	0
1,1,2-Trichloroethane			0.500	7	2.000	1	5.000	-5	10.00	3	20.00	0	50.00	-3	75.00	-2	100.0	-2
2-Hexanone					2.000	8	5.000	-4	10.00	2	20.00	0	50.00	-2	75.00	-1	100.0	-3
1,3-Dichloropropane			0.500	-3	2.000	2	5.000	-1	10.00	5	20.00	2	50.00	-1	75.00	-3	100.0	-1
Tetrachloroethene			0.500	-13	2.000	1	5.000	-2	10.00	9	20.00	-1	50.00	-7	75.00	3	100.0	11
Dibromochloromethane			0.500	-10	2.000	1	5.000	-3	10.00	3	20.00	2	50.00	1	75.00	1	100.0	4
1,2-Dibromoethane			0.500	-12	2.000	0	5.000	-1	10.00	4	20.00	3	50.00	3	75.00	2	100.0	3
Chlorobenzene			0.500	-5	2.000	4	5.000	-1	10.00	5	20.00	-1	50.00	-3	75.00	-1	100.0	2
1,1,1,2-Tetrachloroethane			0.500	-8	2.000	5	5.000	-2	10.00	4	20.00	0	50.00	-1	75.00	-1	100.0	3
Ethylbenzene			0.500	0	2.000	3	5.000	-3	10.00	4	20.00	-3	50.00	-6	75.00	0	100.0	4

Spiked Amounts / Drifts	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D	L9	%D
m,p-Xylenes	0.500	0	1.000	-4	4.000	0	10.00	-4	20.00	3	40.00	-2	100.0	-4	150.0	3	200.0	8
o-Xylene			0.500	-6	2.000	0	5.000	-3	10.00	4	20.00	-3	50.00	-2	75.00	2	100.0	7
Styrene			0.500	-13	2.000	0	5.000	-4	10.00	3	20.00	-1	50.00	2	75.00	5	100.0	9
Bromoform			0.500	-16	2.000	0	5.000	-6	10.00	3	20.00	2	50.00	4	75.00	5	100.0	7
Isopropylbenzene			0.500	-1	2.000	6	5.000	0	10.00	5	20.00	-3	50.00	-9	75.00	-1	100.0	3
1,1,2,2-Tetrachloroethane			0.500	8	2.000	11	5.000	2	10.00	5	20.00	-2	50.00	-4	75.00	-9	100.0	-11
1,2,3-Trichloropropane			0.500	4	2.000	18	5.000	-1	10.00	3	20.00	-2	50.00	-4	75.00	-7	100.0	-9
Propylbenzene			0.500	-2	2.000	0	5.000	-3	10.00	2	20.00	-2	50.00	-7	75.00	3	100.0	8
Bromobenzene			0.500	3	2.000	2	5.000	-4	10.00	2	20.00	-3	50.00	-3	75.00	0	100.0	3
1,3,5-Trimethylbenzene			0.500	0	2.000	5	5.000	-5	10.00	-1	20.00	-3	50.00	-7	75.00	2	100.0	9
2-Chlorotoluene			0.500	5	2.000	5	5.000	-1	10.00	3	20.00	-3	50.00	-7	75.00	-2	100.0	0
4-Chlorotoluene			0.500	1	2.000	6	5.000	1	10.00	4	20.00	-2	50.00	-6	75.00	-3	100.0	-1
tert-Butylbenzene			0.500	-6	2.000	4	5.000	-4	10.00	1	20.00	0	50.00	-9	75.00	3	100.0	11
1,2,4-Trimethylbenzene			0.500	6	2.000	7	5.000	-5	10.00	-4	20.00	-4	50.00	-6	75.00	1	100.0	6
sec-Butylbenzene			0.500	-10	2.000	3	5.000	-6	10.00	0	20.00	1	50.00	-10	75.00	5	100.0	17
para-Isopropyl Toluene			0.500	-1	2.000	0	5.000	-9	10.00	-5	20.00	0	50.00	-9	75.00	6	100.0	18
1,3-Dichlorobenzene			0.500	-2	2.000	5	5.000	0	10.00	3	20.00	-1	50.00	-5	75.00	-1	100.0	1
1,4-Dichlorobenzene			0.500	-4	2.000	6	5.000	0	10.00	3	20.00	-2	50.00	-4	75.00	0	100.0	2
n-Butylbenzene			0.500	0	2.000	9	5.000	-7	10.00	-4	20.00	-1	50.00	-13	75.00	2	100.0	15
1,2-Dichlorobenzene			0.500	-6	2.000	7	5.000	1	10.00	5	20.00	0	50.00	-4	75.00	-2	100.0	0
1,2-Dibromo-3-Chloropropane			0.500	-6	2.000	-2	5.000	-2	10.00	3	20.00	0	50.00	0	75.00	0		
1,2,4-Trichlorobenzene			0.500	9	2.000	17	5.000	3	10.00	0	20.00	1	50.00	-14	75.00	-11	100.0	-6
Hexachlorobutadiene			0.500	-1	2.000	17	5.000	-17	10.00	-4	20.00	9	50.00	-21	75.00	-1	100.0	18
Naphthalene			0.500	6	2.000	15	5.000	6	10.00	9	20.00	3	50.00	-11	75.00	-14	100.0	-14
1,2,3-Trichlorobenzene			0.500	5	2.000	18	5.000	3	10.00	2	20.00	1	50.00	-13	75.00	-11	100.0	-6
Dibromofluoromethane			50.00	0	50.00	1	50.00	1	50.00	0	50.00	0	50.00	0	50.00	0	50.00	-1
1,2-Dichloroethane-d4			50.00	1	50.00	1	50.00	0	50.00	1	50.00	0	50.00	-1	50.00	-1	50.00	-2
Toluene-d8			50.00	0	50.00	0	50.00	-1	50.00	0	50.00	0	50.00	0	50.00	0	50.00	0
Bromofluorobenzene			50.00	4	50.00	2	50.00	2	50.00	1	50.00	-2	50.00	-1	50.00	-2	50.00	-4

ACM 11/20/08 : All manual integrations done to correct baseline noise. Integrations by SJD.

Analyst: SJD Date: 11/19/08 Reviewer: LW Date: 11/20/08

m=manual integration

Instrument amount = a0 + response * a1 + response^2 * a2; AVRG=Average response factor; QUAD=Quadratic regression

CURTIS & TOMPKINS 2ND SOURCE CALIBRATION SUMMARY FOR 208752 MSVOA Water
EPA 8260B

Inst : MSVOA11 Name : 8260GX11
Calnum : 838465788001 Cal Date : 18-NOV-2008 Type : WATER

ICV 838465788025 (kke25 18-NOV-2008) stds: S10631 (10000X), S10764 (2500X)
ICV 838465788026 (kke26 18-NOV-2008) stds: S10654 (10000X), S10533 (10000X), S10788 (10000X), S10764 (2500X)

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
Freon 12	838465788025	0.3815	0.4395	25.00	26.88	ug/L	8	25	
Chloromethane	838465788025	0.5062	0.4121	25.00	20.36	ug/L	-19	25	
Vinyl Chloride	838465788025	0.5269	0.5934	25.00	28.16	ug/L	13	25	
Bromomethane	838465788025	0.2030	0.2034	25.00	25.05	ug/L	0	25	
Chloroethane	838465788025	0.3199	0.3052	25.00	23.85	ug/L	-5	25	
Trichlorofluoromethane	838465788025	0.5250	0.5698	25.00	27.14	ug/L	9	25	
Acetone	838465788026	0.1887	0.1845	25.00	24.44	ug/L	-2	25	
1,1-Dichloroethene	838465788026	0.3256	0.3628	25.00	27.86	ug/L	11	25	
Iodomethane	838465788026	0.3054	0.2678	25.00	21.93	ug/L	-12	25	
Methylene Chloride	838465788026	0.4279	0.4442	25.00	25.95	ug/L	4	25	
Carbon Disulfide	838465788026	1.2287	1.2655	25.00	25.75	ug/L	3	25	
MTBE	838465788026	1.3994	1.2491	25.00	22.31	ug/L	-11	25	
trans-1,2-Dichloroethene	838465788026	0.4107	0.4328	25.00	26.35	ug/L	5	25	
Vinyl Acetate	838465788026	0.8802	0.5687	25.00	16.15	ug/L	**-35**	25	v- ***
1,1-Dichloroethane	838465788026	0.7525	0.7826	25.00	26.00	ug/L	4	25	
2-Butanone	838465788026	0.1891	0.1810	25.00	23.93	ug/L	-4	25	
2,2-Dichloropropane	838465788026	0.5679	0.5826	25.00	25.65	ug/L	3	25	
cis-1,2-Dichloroethene	838465788026	0.4746	0.4862	25.00	25.61	ug/L	2	25	
Chloroform	838465788026	0.7197	0.7173	25.00	24.92	ug/L	0	25	
Bromochloromethane	838465788026	0.2169	0.2279	25.00	26.26	ug/L	5	25	
1,1,1-Trichloroethane	838465788026	0.5466	0.6065	25.00	27.74	ug/L	11	25	
1,1-Dichloropropene	838465788026	0.3239	0.3700	25.00	28.55	ug/L	14	25	
Carbon Tetrachloride	838465788026	0.2732	0.3262	25.00	29.85	ug/L	19	25	
1,2-Dichloroethane	838465788026	0.3541	0.3578	25.00	25.26	ug/L	1	25	
Benzene	838465788026	1.1564	1.1831	25.00	25.58	ug/L	2	25	
Trichloroethene	838465788026	0.2630	0.2902	25.00	27.59	ug/L	10	25	
1,2-Dichloropropane	838465788026	0.2932	0.2955	25.00	25.20	ug/L	1	25	
Bromodichloromethane	838465788026	0.3553	0.3763	25.00	26.48	ug/L	6	25	
Dibromomethane	838465788026	0.1570	0.1608	25.00	25.62	ug/L	2	25	
4-Methyl-2-Pentanone	838465788026	0.2464	0.2365	25.00	24.00	ug/L	-4	25	
cis-1,3-Dichloropropene	838465788026	0.4691	0.4669	25.00	24.88	ug/L	0	25	
Toluene	838465788026	0.6981	0.7418	25.00	26.56	ug/L	6	25	
trans-1,3-Dichloropropene	838465788026	0.4370	0.3939	25.00	22.53	ug/L	-10	25	
1,1,2-Trichloroethane	838465788026	0.1303	0.1350	25.00	25.90	ug/L	4	25	
2-Hexanone	838465788026	0.2188	0.2110	25.00	24.11	ug/L	-4	25	
1,3-Dichloropropane	838465788026	0.5548	0.5728	25.00	25.81	ug/L	3	25	
Tetrachloroethene	838465788026	0.2886	0.3441	25.00	29.81	ug/L	19	25	
Dibromochloromethane	838465788026	0.3274	0.3379	25.00	25.80	ug/L	3	25	
1,2-Dibromoethane	838465788026	0.2348	0.2482	25.00	26.44	ug/L	6	25	
Chlorobenzene	838465788026	0.9452	0.9545	25.00	25.25	ug/L	1	25	
1,1,1,2-Tetrachloroethane	838465788026	0.3177	0.3336	25.00	26.25	ug/L	5	25	
Ethylbenzene	838465788026	1.5331	1.6527	25.00	26.95	ug/L	8	25	
m,p-Xylenes	838465788026	0.6215	0.6643	50.00	53.44	ug/L	7	25	
o-Xylene	838465788026	0.6147	0.6370	25.00	25.91	ug/L	4	25	
Styrene	838465788026	1.0713	1.1031	25.00	25.74	ug/L	3	25	
Bromoform	838465788026	0.2067	0.2213	25.00	26.76	ug/L	7	25	
Isopropylbenzene	838465788026	3.1487	3.0922	25.00	24.55	ug/L	-2	25	

Analyte	ICV Seqnum	Average RF	RF	Spiked	Quant	Units	%D	Max	Flags
1,1,2,2-Tetrachloroethane	838465788026	0.7956	0.7676	25.00	24.12	ug/L	-4	25	
1,2,3-Trichloropropane	838465788026	0.8373	0.8400	25.00	25.08	ug/L	0	25	
Propylbenzene	838465788026	3.5559	3.9261	25.00	27.60	ug/L	10	25	
Bromobenzene	838465788026	0.8738	0.8960	25.00	25.63	ug/L	3	25	
1,3,5-Trimethylbenzene	838465788026	2.5146	2.7484	25.00	27.32	ug/L	9	25	
2-Chlorotoluene	838465788026	2.7003	2.8015	25.00	25.94	ug/L	4	25	
4-Chlorotoluene	838465788026	2.4377	2.5248	25.00	25.89	ug/L	4	25	
tert-Butylbenzene	838465788026	1.9871	2.2783	25.00	28.66	ug/L	15	25	
1,2,4-Trimethylbenzene	838465788026	2.3539	2.6135	25.00	27.76	ug/L	11	25	
sec-Butylbenzene	838465788026	2.7013	3.2162	25.00	29.77	ug/L	19	25	
para-Isopropyl Toluene	838465788026	2.1808	2.4776	25.00	28.40	ug/L	14	25	
1,3-Dichlorobenzene	838465788026	1.5582	1.5855	25.00	25.44	ug/L	2	25	
1,4-Dichlorobenzene	838465788026	1.6088	1.6294	25.00	25.32	ug/L	1	25	
n-Butylbenzene	838465788026	1.7157	2.0248	25.00	29.50	ug/L	18	25	
1,2-Dichlorobenzene	838465788026	1.5010	1.5462	25.00	25.75	ug/L	3	25	
1,2-Dibromo-3-Chloropropane	838465788026	0.1720	0.1662	25.00	26.01	ug/L	4	25	
1,2,4-Trichlorobenzene	838465788026	0.8244	0.8725	25.00	26.46	ug/L	6	25	
Hexachlorobutadiene	838465788026	0.2680	0.3675	25.00	34.28	ug/L	**37**	25	v+ ***
Naphthalene	838465788026	2.2611	2.4195	25.00	26.75	ug/L	7	25	
1,2,3-Trichlorobenzene	838465788026	0.7802	0.8408	25.00	26.94	ug/L	8	25	

+=high bias -=low bias v=ICV

CURTIS & TOMPKINS SPIKE USER REPORT FOR 208752 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : QC476775 IDF : 1.0
Seqnum : 458514527003.3 File : flm03 Time : 22-DEC-2008 08:15
Cal : 458468482002 Caldate : 20-NOV-2008 Caltype : WATER
Standards: S10935 (10000X), S10844 (10000X), S10798 (10000X), S10985 (10000X), S10715 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.6523	0.5075	25.00	21.41	ug/L	-14	20	0.0500	u
Chloromethane	0.9011	0.7935	25.00	22.01	ug/L	-12	20	0.1000	u
Vinyl Chloride	0.6577	0.7293	25.00	27.72	ug/L	11	20	0.0500	u
Bromomethane	0.2767	0.2089	25.00	18.88	ug/L	**-24**	20	0.0500	c- u ***
Chloroethane	0.3533	0.3562	25.00	25.21	ug/L	1	20	0.0500	u
Trichlorofluoromethane	0.7181	0.7044	25.00	26.04	ug/L	4	20	0.0500	u
Iodomethane	0.3604	0.4605	25.00	22.94	ug/L	-8	20	0.0500	u v- ***
Acetone	0.3229	0.3482	25.00	26.96	ug/L	8	20	0.0500	u
1,1-Dichloroethene	0.5342	0.5638	25.00	26.39	ug/L	6	20	0.0500	u
Methylene Chloride	0.7329	0.7808	25.00	26.63	ug/L	7	20	0.0500	u
Carbon Disulfide	2.0736	2.1457	25.00	25.87	ug/L	3	20	0.0500	u
MTBE	1.9089	1.7742	25.00	23.24	ug/L	-7	20	0.0500	u
trans-1,2-Dichloroethene	0.6155	0.6499	25.00	26.40	ug/L	6	20	0.0500	u
Vinyl Acetate	1.3534	1.0996	25.00	20.31	ug/L	-19	20	0.0500	u v- ***
1,1-Dichloroethane	1.2098	1.2262	25.00	25.34	ug/L	1	20	0.1000	u
2-Butanone	0.4254	0.4229	25.00	24.85	ug/L	-1	20	0.0500	u
cis-1,2-Dichloroethene	0.7100	0.7472	25.00	26.31	ug/L	5	20	0.0500	u
2,2-Dichloropropane	0.6696	0.7827	25.00	29.22	ug/L	17	20	0.0500	u
Chloroform	1.0978	1.0654	25.00	24.26	ug/L	-3	20	0.0500	u
Bromochloromethane	0.4218	0.4185	25.00	24.81	ug/L	-1	20	0.0500	u
1,1,1-Trichloroethane	0.6692	0.7329	25.00	27.38	ug/L	10	20	0.0500	u
1,1-Dichloropropene	0.4415	0.4471	25.00	25.32	ug/L	1	20	0.0500	u
Carbon Tetrachloride	0.3589	0.3803	25.00	26.49	ug/L	6	20	0.0500	u
1,2-Dichloroethane	0.4747	0.4716	25.00	24.84	ug/L	-1	20	0.0500	u
Benzene	1.4989	1.3979	25.00	23.32	ug/L	-7	20	0.0500	u
Trichloroethene	0.3658	0.3600	25.00	24.61	ug/L	-2	20	0.0500	u
1,2-Dichloropropane	0.4456	0.4192	25.00	23.52	ug/L	-6	20	0.0500	u
Bromodichloromethane	0.4986	0.5007	25.00	25.11	ug/L	0	20	0.0500	u
Dibromomethane	0.2907	0.3065	25.00	26.36	ug/L	5	20	0.0500	u
4-Methyl-2-Pentanone	0.4957	0.4294	25.00	21.66	ug/L	-13	20	0.0500	u
cis-1,3-Dichloropropene	0.6508	0.6338	25.00	24.35	ug/L	-3	20	0.0500	u
Toluene	0.8473	0.8693	25.00	25.65	ug/L	3	20	0.0500	u
trans-1,3-Dichloropropene	0.5704	0.5085	25.00	22.29	ug/L	-11	20	0.0500	u
1,1,2-Trichloroethane	0.2089	0.2123	25.00	25.41	ug/L	2	20	0.0500	u
2-Hexanone	0.4156	0.3905	25.00	23.49	ug/L	-6	20	0.0500	u
1,3-Dichloropropane	0.7506	0.7618	25.00	25.38	ug/L	2	20	0.0500	u
Tetrachloroethene	0.4188	0.4346	25.00	25.95	ug/L	4	20	0.0500	u
Dibromochloromethane	0.5668	0.5427	25.00	23.93	ug/L	-4	20	0.0500	u
1,2-Dibromoethane	0.4360	0.4424	25.00	25.37	ug/L	1	20	0.0500	u
Chlorobenzene	1.2382	1.1878	25.00	23.98	ug/L	-4	20	0.3000	u
1,1,1,2-Tetrachloroethane	0.4469	0.4484	25.00	25.08	ug/L	0	20	0.0500	u
Ethylbenzene	1.7693	1.8275	25.00	25.82	ug/L	3	20	0.0500	u
m,p-Xylenes	0.6799	0.7190	50.00	52.87	ug/L	6	20	0.0500	u
o-Xylene	0.7208	0.7394	25.00	25.65	ug/L	3	20	0.0500	u
Styrene	1.2406	1.2692	25.00	25.58	ug/L	2	20	0.0500	u
Bromoform	0.4043	0.4056	25.00	25.08	ug/L	0	20	0.1000	u
Isopropylbenzene	3.0374	2.8320	25.00	23.31	ug/L	-7	20	0.0500	u

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	1.2619	1.2818	25.00	25.40	ug/L	2	20	0.3000	u
1,2,3-Trichloropropane	0.9814	0.9840	25.00	25.07	ug/L	0	20	0.0500	u
Propylbenzene	3.5323	3.8108	25.00	26.97	ug/L	8	20	0.0500	u
Bromobenzene	1.1030	1.1157	25.00	25.29	ug/L	1	20	0.0500	u
1,3,5-Trimethylbenzene	2.4404	2.6164	25.00	26.80	ug/L	7	20	0.0500	u
2-Chlorotoluene	2.5264	2.5972	25.00	25.70	ug/L	3	20	0.0500	u
4-Chlorotoluene	2.4576	2.4931	25.00	25.36	ug/L	1	20	0.0500	u
tert-Butylbenzene	2.0871	2.1506	25.00	25.76	ug/L	3	20	0.0500	u
1,2,4-Trimethylbenzene	2.5473	2.7994	25.00	27.47	ug/L	10	20	0.0500	u
sec-Butylbenzene	2.8803	3.3988	25.00	29.50	ug/L	18	20	0.0500	u
para-Isopropyl Toluene	2.4577	2.6787	25.00	27.25	ug/L	9	20	0.0500	u
1,3-Dichlorobenzene	1.8598	1.8051	25.00	24.26	ug/L	-3	20	0.0500	u
1,4-Dichlorobenzene	1.9095	1.8470	25.00	24.18	ug/L	-3	20	0.0500	u
n-Butylbenzene	2.0653	2.2876	25.00	27.69	ug/L	11	20	0.0500	u
1,2-Dichlorobenzene	1.7718	1.8221	25.00	25.71	ug/L	3	20	0.0500	u
1,2-Dibromo-3-Chloropropane	0.1927	0.1869	25.00	24.26	ug/L	-3	20	0.0500	u
1,2,4-Trichlorobenzene	0.9719	1.0078	25.00	25.92	ug/L	4	20	0.0500	u
Hexachlorobutadiene	0.3550	0.4259	25.00	30.00	ug/L	20	20	0.0500	u
Naphthalene	2.7758	2.6876	25.00	24.21	ug/L	-3	20	0.0500	u
1,2,3-Trichlorobenzene	0.9151	0.9459	25.00	25.84	ug/L	3	20	0.0500	u
Dibromofluoromethane	0.6018	0.6201	50.00	51.52	ug/L	3	20	0.0500	u
1,2-Dichloroethane-d4	0.3170	0.3082	50.00	48.61	ug/L	-3	20	0.0500	u
Toluene-d8	1.0007	1.0182	50.00	50.88	ug/L	2	20	0.0500	u
Bromofluorobenzene	0.9921	0.9284	50.00	46.79	ug/L	-6	20	0.0500	u

ISTD (ICAL fkk25)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	811980	904692	11.42	12.82	12.84	0.02
1,4-Difluorobenzene	1320025	1569749	18.92	14.16	14.19	0.03
Chlorobenzene-d5	1182141	1312793	11.05	18.69	18.70	0.02
1,4-Dichlorobenzene-d4	596162	664952	11.54	21.48	21.50	0.02

Analyst: BO Date: 12/24/08 Reviewer: ACM Date: 01/06/09

-=low bias c=CCV u=use v=ICV

CURTIS & TOMPKINS CONTINUING CALIBRATION FOR 208752 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : 25PPB IDF : 1.0
Seqnum : 458514527014.1 File : flm14 Time : 22-DEC-2008 14:35
Cal : 458468482002 Caldate : 20-NOV-2008 Caltype : WATER
Standards: S10715 (1000X), S10935 (10000X), S10844 (10000X), S10798 (10000X), S10985 (10000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.6523	0.3288	25.00	14.25	ug/L	**-43**	20	0.0500	c- ***
Chloromethane	0.9011	0.6799	25.00	18.86	ug/L	**-25**	20	0.1000	c- ***
Vinyl Chloride	0.6577	0.6136	25.00	23.32	ug/L	-7	20	0.0500	
Bromomethane	0.2767	0.3029	25.00	27.37	ug/L	9	20	0.0500	
Chloroethane	0.3533	0.3446	25.00	24.39	ug/L	-2	20	0.0500	
Trichlorofluoromethane	0.7181	0.6878	25.00	25.48	ug/L	2	20	0.0500	
Acetone	0.3229	0.2846	25.00	22.04	ug/L	-12	20	0.0500	
1,1-Dichloroethene	0.5342	0.5408	25.00	25.31	ug/L	1	20	0.0500	
Iodomethane	0.3604	0.5138	25.00	25.15	ug/L	1	20	0.0500	
Methylene Chloride	0.7329	0.7412	25.00	25.28	ug/L	1	20	0.0500	
Carbon Disulfide	2.0736	1.9619	25.00	23.65	ug/L	-5	20	0.0500	
MTBE	1.9089	1.6277	25.00	21.32	ug/L	-15	20	0.0500	
trans-1,2-Dichloroethene	0.6155	0.5952	25.00	24.18	ug/L	-3	20	0.0500	
Vinyl Acetate	1.3534	1.0292	25.00	19.01	ug/L	**-24**	20	0.0500	c- ***
1,1-Dichloroethane	1.2098	1.1524	25.00	23.81	ug/L	-5	20	0.1000	
2-Butanone	0.4254	0.4115	25.00	24.19	ug/L	-3	20	0.0500	
2,2-Dichloropropane	0.6696	0.7042	25.00	26.29	ug/L	5	20	0.0500	
cis-1,2-Dichloroethene	0.7100	0.7205	25.00	25.37	ug/L	1	20	0.0500	
Chloroform	1.0978	1.0229	25.00	23.29	ug/L	-7	20	0.0500	
Bromochloromethane	0.4218	0.4049	25.00	24.00	ug/L	-4	20	0.0500	
1,1,1-Trichloroethane	0.6692	0.6741	25.00	25.19	ug/L	1	20	0.0500	
1,1-Dichloropropene	0.4415	0.4508	25.00	25.53	ug/L	2	20	0.0500	
Carbon Tetrachloride	0.3589	0.3711	25.00	25.85	ug/L	3	20	0.0500	
1,2-Dichloroethane	0.4747	0.4542	25.00	23.92	ug/L	-4	20	0.0500	
Benzene	1.4989	1.4467	25.00	24.13	ug/L	-3	20	0.0500	
Trichloroethene	0.3658	0.3625	25.00	24.77	ug/L	-1	20	0.0500	
1,2-Dichloropropane	0.4456	0.4369	25.00	24.51	ug/L	-2	20	0.0500	
Bromodichloromethane	0.4986	0.4892	25.00	24.53	ug/L	-2	20	0.0500	
Dibromomethane	0.2907	0.2953	25.00	25.40	ug/L	2	20	0.0500	
4-Methyl-2-Pentanone	0.4957	0.4384	25.00	22.11	ug/L	-12	20	0.0500	
cis-1,3-Dichloropropene	0.6508	0.6293	25.00	24.17	ug/L	-3	20	0.0500	
Toluene	0.8473	0.8937	25.00	26.37	ug/L	5	20	0.0500	
trans-1,3-Dichloropropene	0.5704	0.5211	25.00	22.84	ug/L	-9	20	0.0500	
1,1,2-Trichloroethane	0.2089	0.2189	25.00	26.20	ug/L	5	20	0.0500	
2-Hexanone	0.4156	0.3882	25.00	23.35	ug/L	-7	20	0.0500	
1,3-Dichloropropane	0.7506	0.7588	25.00	25.27	ug/L	1	20	0.0500	
Tetrachloroethene	0.4188	0.4054	25.00	24.20	ug/L	-3	20	0.0500	
Dibromochloromethane	0.5668	0.5632	25.00	24.84	ug/L	-1	20	0.0500	
1,2-Dibromoethane	0.4360	0.4385	25.00	25.14	ug/L	1	20	0.0500	
Chlorobenzene	1.2382	1.1964	25.00	24.16	ug/L	-3	20	0.3000	
1,1,1,2-Tetrachloroethane	0.4469	0.4550	25.00	25.45	ug/L	2	20	0.0500	
Ethylbenzene	1.7693	1.7886	25.00	25.27	ug/L	1	20	0.0500	
m,p-Xylenes	0.6799	0.7492	50.00	55.10	ug/L	10	20	0.0500	
o-Xylene	0.7208	0.7718	25.00	26.77	ug/L	7	20	0.0500	
Styrene	1.2406	1.3039	25.00	26.28	ug/L	5	20	0.0500	
Bromoform	0.4043	0.3993	25.00	24.70	ug/L	-1	20	0.1000	
Isopropylbenzene	3.0374	2.7524	25.00	22.65	ug/L	-9	20	0.0500	

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	1.2619	1.2672	25.00	25.10	ug/L	0	20	0.3000	
1,2,3-Trichloropropane	0.9814	0.9703	25.00	24.72	ug/L	-1	20	0.0500	
Propylbenzene	3.5323	3.6434	25.00	25.79	ug/L	3	20	0.0500	
Bromobenzene	1.1030	1.1138	25.00	25.25	ug/L	1	20	0.0500	
1,3,5-Trimethylbenzene	2.4404	2.5628	25.00	26.25	ug/L	5	20	0.0500	
2-Chlorotoluene	2.5264	2.5628	25.00	25.36	ug/L	1	20	0.0500	
4-Chlorotoluene	2.4576	2.4642	25.00	25.07	ug/L	0	20	0.0500	
tert-Butylbenzene	2.0871	2.1519	25.00	25.78	ug/L	3	20	0.0500	
1,2,4-Trimethylbenzene	2.5473	2.9228	25.00	28.69	ug/L	15	20	0.0500	
sec-Butylbenzene	2.8803	3.1871	25.00	27.66	ug/L	11	20	0.0500	
para-Isopropyl Toluene	2.4577	2.5577	25.00	26.02	ug/L	4	20	0.0500	
1,3-Dichlorobenzene	1.8598	1.7778	25.00	23.90	ug/L	-4	20	0.0500	
1,4-Dichlorobenzene	1.9095	1.8524	25.00	24.25	ug/L	-3	20	0.0500	
n-Butylbenzene	2.0653	2.3781	25.00	28.79	ug/L	15	20	0.0500	
1,2-Dichlorobenzene	1.7718	1.7787	25.00	25.10	ug/L	0	20	0.0500	
1,2-Dibromo-3-Chloropropane	0.1927	0.1830	25.00	23.75	ug/L	-5	20	0.0500	
1,2,4-Trichlorobenzene	0.9719	1.0267	25.00	26.41	ug/L	6	20	0.0500	
Hexachlorobutadiene	0.3550	0.4170	25.00	29.37	ug/L	17	20	0.0500	
Naphthalene	2.7758	2.7560	25.00	24.82	ug/L	-1	20	0.0500	
1,2,3-Trichlorobenzene	0.9151	0.9525	25.00	26.02	ug/L	4	20	0.0500	
Dibromofluoromethane	0.6018	0.5965	50.00	49.56	ug/L	-1	20	0.0500	
1,2-Dichloroethane-d4	0.3170	0.3121	50.00	49.22	ug/L	-2	20	0.0500	
Toluene-d8	1.0007	1.0511	50.00	52.52	ug/L	5	20	0.0500	
Bromofluorobenzene	0.9921	1.0289	50.00	51.85	ug/L	4	20	0.0500	

ISTD (ICAL fkk25)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	811980	1056975	30.17	12.82	12.84	0.02
1,4-Difluorobenzene	1320025	1710400	29.57	14.16	14.18	0.02
Chlorobenzene-d5	1182141	1415619	19.75	18.69	18.70	0.02
1,4-Dichlorobenzene-d4	596162	710792	19.23	21.48	21.50	0.02

Analyst: BO Date: 12/24/08 Reviewer: ACM Date: 12/29/08

-=low bias c=CCV

CURTIS & TOMPKINS SPIKE USER REPORT FOR 208752 MSVOA Water
EPA 8260B

Inst : MSVOA06 Run Name : QC476973 IDF : 1.0
Seqnum : 458515995003.2 File : fln03 Time : 23-DEC-2008 08:43
Cal : 458468482002 Caldate : 20-NOV-2008 Caltype : WATER
Standards: S10935 (12500X), S10844 (12500X), S10798 (12500X), S10985 (12500X), S10715 (1000X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.6523	0.5577	20.00	19.00	ug/L	-5	20	0.0500	u
Chloromethane	0.9011	0.8131	20.00	18.05	ug/L	-10	20	0.1000	u
Vinyl Chloride	0.6577	0.7212	20.00	21.93	ug/L	10	20	0.0500	u
Bromomethane	0.2767	0.2249	20.00	16.26	ug/L	-19	20	0.0500	u
Chloroethane	0.3533	0.3825	20.00	21.66	ug/L	8	20	0.0500	u
Trichlorofluoromethane	0.7181	0.7719	20.00	23.07	ug/L	15	20	0.0500	u
Iodomethane	0.3604	0.4131	20.00	17.26	ug/L	-14	20	0.0500	u v- ***
Acetone	0.3229	0.2607	20.00	16.15	ug/L	-19	20	0.0500	u
1,1-Dichloroethene	0.5342	0.5688	20.00	21.30	ug/L	6	20	0.0500	u
Methylene Chloride	0.7329	0.7566	20.00	20.65	ug/L	3	20	0.0500	u
Carbon Disulfide	2.0736	2.0891	20.00	20.15	ug/L	1	20	0.0500	u
MTBE	1.9089	1.7092	20.00	17.91	ug/L	-10	20	0.0500	u
trans-1,2-Dichloroethene	0.6155	0.6417	20.00	20.85	ug/L	4	20	0.0500	u
Vinyl Acetate	1.3534	1.0722	20.00	15.84	ug/L	**-21**	20	0.0500	c- u v- ***
1,1-Dichloroethane	1.2098	1.2041	20.00	19.91	ug/L	0	20	0.1000	u
2-Butanone	0.4254	0.3640	20.00	17.11	ug/L	-14	20	0.0500	u
cis-1,2-Dichloroethene	0.7100	0.7273	20.00	20.49	ug/L	2	20	0.0500	u
2,2-Dichloropropane	0.6696	0.7547	20.00	22.54	ug/L	13	20	0.0500	u
Chloroform	1.0978	1.0705	20.00	19.50	ug/L	-2	20	0.0500	u
Bromochloromethane	0.4218	0.4187	20.00	19.85	ug/L	-1	20	0.0500	u
1,1,1-Trichloroethane	0.6692	0.7327	20.00	21.90	ug/L	9	20	0.0500	u
1,1-Dichloropropene	0.4415	0.4371	20.00	19.80	ug/L	-1	20	0.0500	u
Carbon Tetrachloride	0.3589	0.3722	20.00	20.74	ug/L	4	20	0.0500	u
1,2-Dichloroethane	0.4747	0.4454	20.00	18.77	ug/L	-6	20	0.0500	u
Benzene	1.4989	1.3956	20.00	18.62	ug/L	-7	20	0.0500	u
Trichloroethene	0.3658	0.3589	20.00	19.62	ug/L	-2	20	0.0500	u
1,2-Dichloropropane	0.4456	0.4235	20.00	19.01	ug/L	-5	20	0.0500	u
Bromodichloromethane	0.4986	0.4782	20.00	19.18	ug/L	-4	20	0.0500	u
Dibromomethane	0.2907	0.2975	20.00	20.47	ug/L	2	20	0.0500	u
4-Methyl-2-Pentanone	0.4957	0.4366	20.00	17.62	ug/L	-12	20	0.0500	u
cis-1,3-Dichloropropene	0.6508	0.6127	20.00	18.83	ug/L	-6	20	0.0500	u
Toluene	0.8473	0.8583	20.00	20.26	ug/L	1	20	0.0500	u
trans-1,3-Dichloropropene	0.5704	0.4989	20.00	17.49	ug/L	-13	20	0.0500	u
1,1,2-Trichloroethane	0.2089	0.2112	20.00	20.22	ug/L	1	20	0.0500	u
2-Hexanone	0.4156	0.3531	20.00	16.99	ug/L	-15	20	0.0500	u
1,3-Dichloropropane	0.7506	0.7289	20.00	19.42	ug/L	-3	20	0.0500	u
Tetrachloroethene	0.4188	0.4383	20.00	20.93	ug/L	5	20	0.0500	u
Dibromochloromethane	0.5668	0.5342	20.00	18.85	ug/L	-6	20	0.0500	u
1,2-Dibromoethane	0.4360	0.4425	20.00	20.30	ug/L	1	20	0.0500	u
Chlorobenzene	1.2382	1.2071	20.00	19.50	ug/L	-3	20	0.3000	u
1,1,1,2-Tetrachloroethane	0.4469	0.4245	20.00	19.00	ug/L	-5	20	0.0500	u
Ethylbenzene	1.7693	1.8109	20.00	20.47	ug/L	2	20	0.0500	u
m,p-Xylenes	0.6799	0.7136	40.00	41.99	ug/L	5	20	0.0500	u
o-Xylene	0.7208	0.7215	20.00	20.02	ug/L	0	20	0.0500	u
Styrene	1.2406	1.2439	20.00	20.05	ug/L	0	20	0.0500	u
Bromoform	0.4043	0.4026	20.00	19.92	ug/L	0	20	0.1000	u
Isopropylbenzene	3.0374	2.7881	20.00	18.36	ug/L	-8	20	0.0500	u

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	1.2619	1.3055	20.00	20.69	ug/L	3	20	0.3000	u
1,2,3-Trichloropropane	0.9814	0.9644	20.00	19.65	ug/L	-2	20	0.0500	u
Propylbenzene	3.5323	4.0416	20.00	22.88	ug/L	14	20	0.0500	u
Bromobenzene	1.1030	1.1679	20.00	21.18	ug/L	6	20	0.0500	u
1,3,5-Trimethylbenzene	2.4404	2.6822	20.00	21.98	ug/L	10	20	0.0500	u
2-Chlorotoluene	2.5264	2.6989	20.00	21.37	ug/L	7	20	0.0500	u
4-Chlorotoluene	2.4576	2.4774	20.00	20.16	ug/L	1	20	0.0500	u
tert-Butylbenzene	2.0871	2.2301	20.00	21.37	ug/L	7	20	0.0500	u
1,2,4-Trimethylbenzene	2.5473	2.7281	20.00	21.42	ug/L	7	20	0.0500	u
sec-Butylbenzene	2.8803	3.2895	20.00	22.84	ug/L	14	20	0.0500	u
para-Isopropyl Toluene	2.4577	2.7303	20.00	22.22	ug/L	11	20	0.0500	u
1,3-Dichlorobenzene	1.8598	1.7767	20.00	19.11	ug/L	-4	20	0.0500	u
1,4-Dichlorobenzene	1.9095	1.8193	20.00	19.06	ug/L	-5	20	0.0500	u
n-Butylbenzene	2.0653	2.3901	20.00	23.15	ug/L	16	20	0.0500	u
1,2-Dichlorobenzene	1.7718	1.7978	20.00	20.29	ug/L	1	20	0.0500	u
1,2-Dibromo-3-Chloropropane	0.1927	0.1782	20.00	18.49	ug/L	-8	20	0.0500	u
1,2,4-Trichlorobenzene	0.9719	0.9703	20.00	19.97	ug/L	0	20	0.0500	u
Hexachlorobutadiene	0.3550	0.4588	20.00	25.85	ug/L	**29**	20	0.0500	c+ u ***
Naphthalene	2.7758	2.8005	20.00	20.18	ug/L	1	20	0.0500	u
1,2,3-Trichlorobenzene	0.9151	0.9446	20.00	20.65	ug/L	3	20	0.0500	u
Dibromofluoromethane	0.6018	0.6146	50.00	51.06	ug/L	2	20	0.0500	u
1,2-Dichloroethane-d4	0.3170	0.2995	50.00	47.24	ug/L	-6	20	0.0500	u
Toluene-d8	1.0007	0.9670	50.00	48.32	ug/L	-3	20	0.0500	u
Bromofluorobenzene	0.9921	1.0266	50.00	51.74	ug/L	3	20	0.0500	u

ISTD (ICAL fkk25)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	811980	989880	21.91	12.82	12.84	0.02
1,4-Difluorobenzene	1320025	1725240	30.70	14.16	14.18	0.02
Chlorobenzene-d5	1182141	1416224	19.80	18.69	18.70	0.02
1,4-Dichlorobenzene-d4	596162	695274	16.63	21.48	21.49	0.01

BO 12/23/08 : QC# batch# fixed in LIMS [general version]

Analyst: BO Date: 12/24/08 Reviewer: ACM Date: 01/06/09

+=high bias -=low bias c=CCV u=use v=ICV

CURTIS & TOMPKINS SPIKE USER REPORT FOR 208752 MSVOA Water
EPA 8260B

Inst : MSVOA11 Run Name : QC476975 IDF : 1.0
Seqnum : 838515986003.8 File : kln03 Time : 23-DEC-2008 08:36
Cal : 838465788001 Caldate : 18-NOV-2008 Caltype : WATER
Standards: S11013 (12500X), S10935 (12500X), S10798 (12500X), S10985 (12500X), S10764 (2500X)

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Freon 12	0.3815	0.4400	20.00	21.63	ug/L	8	20	0.0500	u
Chloromethane	0.5062	0.4337	20.00	17.14	ug/L	-14	20	0.1000	u
Vinyl Chloride	0.5269	0.5484	20.00	20.82	ug/L	4	20	0.0500	u
Bromomethane	0.2030	0.1693	20.00	16.68	ug/L	-17	20	0.0500	u
Chloroethane	0.3199	0.3192	20.00	19.96	ug/L	0	20	0.0500	u
Trichlorofluoromethane	0.5250	0.6433	20.00	24.51	ug/L	**23**	20	0.0500	c+ u ***
Iodomethane	0.3054	0.2190	20.00	14.34	ug/L	**-28**	20	0.0500	c- u ***
Acetone	0.1887	0.1803	20.00	19.11	ug/L	-4	20	0.0500	u
1,1-Dichloroethene	0.3256	0.3598	20.00	22.10	ug/L	10	20	0.0500	u
Methylene Chloride	0.4279	0.4818	20.00	22.52	ug/L	13	20	0.0500	u
Carbon Disulfide	1.2287	1.2047	20.00	19.61	ug/L	-2	20	0.0500	u
MTBE	1.3994	1.5330	20.00	21.91	ug/L	10	20	0.0500	u
trans-1,2-Dichloroethene	0.4107	0.4469	20.00	21.76	ug/L	9	20	0.0500	u
Vinyl Acetate	0.8802	0.6735	20.00	15.30	ug/L	**-23**	20	0.0500	c- u v- ***
1,1-Dichloroethane	0.7525	0.8509	20.00	22.62	ug/L	13	20	0.1000	u
2-Butanone	0.1891	0.1853	20.00	19.59	ug/L	-2	20	0.0500	u
cis-1,2-Dichloroethene	0.4746	0.5142	20.00	21.67	ug/L	8	20	0.0500	u
2,2-Dichloropropane	0.5679	0.7030	20.00	24.76	ug/L	**24**	20	0.0500	c+ u ***
Chloroform	0.7197	0.8291	20.00	23.04	ug/L	15	20	0.0500	u
Bromochloromethane	0.2169	0.2365	20.00	21.80	ug/L	9	20	0.0500	u
1,1,1-Trichloroethane	0.5466	0.7022	20.00	25.69	ug/L	**28**	20	0.0500	c+ u ***
1,1-Dichloropropene	0.3239	0.3731	20.00	23.04	ug/L	15	20	0.0500	u
Carbon Tetrachloride	0.2732	0.3651	20.00	26.73	ug/L	**34**	20	0.0500	c+ u ***
1,2-Dichloroethane	0.3541	0.3892	20.00	21.98	ug/L	10	20	0.0500	u
Benzene	1.1564	1.1709	20.00	20.25	ug/L	1	20	0.0500	u
Trichloroethene	0.2630	0.2996	20.00	22.79	ug/L	14	20	0.0500	u
1,2-Dichloropropane	0.2932	0.3034	20.00	20.69	ug/L	3	20	0.0500	u
Bromodichloromethane	0.3553	0.4043	20.00	22.76	ug/L	14	20	0.0500	u
Dibromomethane	0.1570	0.1718	20.00	21.90	ug/L	9	20	0.0500	u
4-Methyl-2-Pentanone	0.2464	0.2364	20.00	19.19	ug/L	-4	20	0.0500	u
cis-1,3-Dichloropropene	0.4691	0.4916	20.00	20.96	ug/L	5	20	0.0500	u
Toluene	0.6981	0.7626	20.00	21.85	ug/L	9	20	0.0500	u
trans-1,3-Dichloropropene	0.4370	0.4230	20.00	19.36	ug/L	-3	20	0.0500	u
1,1,2-Trichloroethane	0.1303	0.1450	20.00	22.25	ug/L	11	20	0.0500	u
2-Hexanone	0.2188	0.1726	20.00	15.77	ug/L	**-21**	20	0.0500	c- u ***
1,3-Dichloropropane	0.5548	0.5376	20.00	19.38	ug/L	-3	20	0.0500	u
Tetrachloroethene	0.2886	0.3140	20.00	21.76	ug/L	9	20	0.0500	u
Dibromochloromethane	0.3274	0.3114	20.00	19.02	ug/L	-5	20	0.0500	u
1,2-Dibromoethane	0.2348	0.2705	20.00	23.05	ug/L	15	20	0.0500	u
Chlorobenzene	0.9452	0.8820	20.00	18.66	ug/L	-7	20	0.3000	u
1,1,1,2-Tetrachloroethane	0.3177	0.3165	20.00	19.93	ug/L	0	20	0.0500	u
Ethylbenzene	1.5331	1.5612	20.00	20.37	ug/L	2	20	0.0500	u
m,p-Xylenes	0.6215	0.6042	40.00	38.88	ug/L	-3	20	0.0500	u
o-Xylene	0.6147	0.5840	20.00	19.00	ug/L	-5	20	0.0500	u
Styrene	1.0713	0.9604	20.00	17.93	ug/L	-10	20	0.0500	u
Bromoform	0.2067	0.2103	20.00	20.34	ug/L	2	20	0.1000	u
Isopropylbenzene	3.1487	2.8010	20.00	17.79	ug/L	-11	20	0.0500	u

Analyte	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
1,1,2,2-Tetrachloroethane	0.7956	0.7487	20.00	18.82	ug/L	-6	20	0.3000	u
1,2,3-Trichloropropane	0.8373	0.7840	20.00	18.73	ug/L	-6	20	0.0500	u
Propylbenzene	3.5559	3.3949	20.00	19.09	ug/L	-5	20	0.0500	u
Bromobenzene	0.8738	0.8164	20.00	18.69	ug/L	-7	20	0.0500	u
1,3,5-Trimethylbenzene	2.5146	2.2751	20.00	18.09	ug/L	-10	20	0.0500	u
2-Chlorotoluene	2.7003	2.5374	20.00	18.79	ug/L	-6	20	0.0500	u
4-Chlorotoluene	2.4377	2.2212	20.00	18.22	ug/L	-9	20	0.0500	u
tert-Butylbenzene	1.9871	1.8511	20.00	18.63	ug/L	-7	20	0.0500	u
1,2,4-Trimethylbenzene	2.3539	2.1022	20.00	17.86	ug/L	-11	20	0.0500	u
sec-Butylbenzene	2.7013	2.5556	20.00	18.92	ug/L	-5	20	0.0500	u
para-Isopropyl Toluene	2.1808	1.8905	20.00	17.34	ug/L	-13	20	0.0500	u
1,3-Dichlorobenzene	1.5582	1.4359	20.00	18.43	ug/L	-8	20	0.0500	u
1,4-Dichlorobenzene	1.6088	1.4204	20.00	17.66	ug/L	-12	20	0.0500	u
n-Butylbenzene	1.7157	1.6683	20.00	19.45	ug/L	-3	20	0.0500	u
1,2-Dichlorobenzene	1.5010	1.3920	20.00	18.55	ug/L	-7	20	0.0500	u
1,2-Dibromo-3-Chloropropane	0.1720	0.1412	20.00	17.28	ug/L	-14	20	0.0500	u
1,2,4-Trichlorobenzene	0.8244	0.7435	20.00	18.04	ug/L	-10	20	0.0500	u
Hexachlorobutadiene	0.2680	0.3505	20.00	26.16	ug/L	**31**	20	0.0500	c+ u v+ ***
Naphthalene	2.2611	1.9523	20.00	17.27	ug/L	-14	20	0.0500	u
1,2,3-Trichlorobenzene	0.7802	0.7220	20.00	18.51	ug/L	-7	20	0.0500	u
Dibromofluoromethane	0.4215	0.4703	50.00	55.78	ug/L	12	20	0.0500	u
1,2-Dichloroethane-d4	0.3281	0.3390	50.00	51.66	ug/L	3	20	0.0500	u
Toluene-d8	1.1648	1.2117	50.00	52.01	ug/L	4	20	0.0500	u
Bromofluorobenzene	1.1133	1.1007	50.00	49.43	ug/L	-1	20	0.0500	u

ISTD (ICAL kke22)	ICAL Area	Area	%Drift	ICAL RT	RT	Drift
Pentafluorobenzene	857785	787827	-8.16	9.71	9.71	0.00
1,4-Difluorobenzene	1338370	1300294	-2.84	10.77	10.77	0.00
Chlorobenzene-d5	1081801	1243320	14.93	14.32	14.31	-0.01
1,4-Dichlorobenzene-d4	483101	588341	21.78	16.76	16.75	-0.01

Analyst: BO Date: 12/24/08 Reviewer: ACM Date: 01/06/09

+=high bias -=low bias c=CCV u=use v=ICV

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 458514527

Date : 12/22/08 Reference : fkk25
Sequence : MSVOA06 flm Analyzed : 11/20/08 22:19

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	811980	12.82	1320025	14.16	1182141	18.69	596162	21.48
		LOWER LIMIT	405990	12.32	660013	13.66	591071	18.19	298081	20.98
		UPPER LIMIT	1623960	13.32	2640050	14.66	2364282	19.19	1192324	21.98
003	CCV/LCS	QC476775	904692	12.84	1569749	14.19	1312793	18.70	664952	21.50
005	BLANK	QC476776	923227	12.84	1541739	14.18	1288757	18.70	641649	21.49
006	SAMPLE	208752-001	944945	12.84	1588073	14.19	1332857	18.70	660547	21.49
007	MSS	208752-002	925807	12.84	1617096	14.18	1371862	18.70	649808	21.49
008	MS	QC476797	917769	12.84	1528109	14.19	1365937	18.70	688768	21.50
009	MSD	QC476798	946517	12.84	1591538	14.18	1378908	18.70	707620	21.49
014	CCV	25PPB	1056975	12.84	1710400	14.18	1415619	18.70	710792	21.50
016	BLANK	QC476777	978907	12.84	1658475	14.18	1386193	18.70	713009	21.50
017	SAMPLE	208450-001	1007667	12.84	1689572	14.18	1395452	18.70	689821	21.49
018	SAMPLE	208575-001	955962	12.84	1641923	14.18	1432395	18.71	684716	21.49
019	SAMPLE	208575-002	964330	12.84	1577317	14.18	1413202	18.70	679455	21.49
020	SAMPLE	208575-003	962576	12.85	1640433	14.19	1369750	18.70	685354	21.50
021	SAMPLE	208575-004	951640	12.84	1585108	14.18	1326177	18.71	684507	21.49
022	SAMPLE	208575-005	936228	12.85	1604688	14.19	1401098	18.70	637178	21.50
023	SAMPLE	208575-006	938456	12.84	1683349	14.18	1388343	18.70	692935	21.49
024	SAMPLE	208575-007	920268	12.84	1586888	14.18	1360715	18.70	681766	21.49
025	SAMPLE	208575-008	961650	12.84	1639983	14.18	1315005	18.70	655134	21.49
026	SAMPLE	208575-009	920185	12.84	1561647	14.18	1334319	18.70	655883	21.49
027	SAMPLE	208575-010	921444	12.84	1533483	14.18	1358514	18.70	660416	21.49
028	SAMPLE	208575-011	880382	12.83	1496028	14.18	1215963	18.70	622331	21.49
029	SAMPLE	208752-003	913648	12.84	1540965	14.18	1267026	18.70	646482	21.49
030	SAMPLE	208752-004	877256	12.84	1518219	14.18	1261983	18.70	634204	21.49
031	SAMPLE	208752-005	947217	12.84	1625501	14.18	1368528	18.70	674918	21.50
032	SAMPLE	208752-007	1005049	12.84	1659909	14.18	1367677	18.70	704508	21.50
033	SAMPLE	208752-006	975825	12.83	1599041	14.18	1364254	18.70	683020	21.49
034	SAMPLE	208752-008	955045	12.84	1634856	14.18	1366206	18.70	687227	21.49
038	SAMPLE	208663-001	939817	12.84	1640238	14.18	1340213	18.70	674248	21.50
039	SAMPLE	208663-002	934235	12.84	1629674	14.18	1376064	18.70	653872	21.49
040	SAMPLE	208663-003	930516	12.84	1585088	14.18	1308924	18.70	631484	21.49

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 458515995

Date : 12/23/08 Reference : fkk25
Sequence : MSVOA06 fln Analyzed : 11/20/08 22:19

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	811980	12.82	1320025	14.16	1182141	18.69	596162	21.48
		LOWER LIMIT	405990	12.32	660013	13.66	591071	18.19	298081	20.98
		UPPER LIMIT	1623960	13.32	2640050	14.66	2364282	19.19	1192324	21.98
003	CCV/LCS	QC476973	989880	12.84	1725240	14.18	1416224	18.70	695274	21.49
005	BLANK	QC476974	986554	12.84	1650374	14.18	1413562	18.70	691849	21.49
006	SAMPLE	208575-012	933323	12.84	1567806	14.18	1383385	18.69	667214	21.49
007	SAMPLE	208575-013	915137	12.84	1610450	14.18	1369383	18.70	664410	21.49
008	SAMPLE	208575-014	976346	12.84	1572909	14.18	1353628	18.70	662183	21.49
009	SAMPLE	208578-001	942932	12.84	1666873	14.18	1362428	18.70	661212	21.49
010	SAMPLE	208578-002	993940	12.84	1686022	14.18	1362564	18.70	665260	21.49
011	SAMPLE	208578-003	952404	12.84	1601384	14.18	1366133	18.70	658064	21.49
012	SAMPLE	208578-004	919858	12.84	1625875	14.19	1334766	18.70	663427	21.50
013	MSS	208578-008	951136	12.85	1568329	14.19	1375407	18.70	654977	21.50
014	SAMPLE	208599-010	941382	12.85	1626115	14.19	1345044	18.70	640865	21.50
015	SAMPLE	208599-025	930384	12.85	1556668	14.19	1291661	18.70	661758	21.50
016	SAMPLE	208752-004	899086	12.84	1542969	14.18	1288225	18.70	663213	21.50
017	SAMPLE	208752-005	940243	12.84	1576550	14.18	1352249	18.71	675904	21.49
018	SAMPLE	208752-006	978665	12.84	1674057	14.18	1388617	18.70	664647	21.49
019	SAMPLE	208752-008	927053	12.85	1608983	14.18	1399467	18.70	664884	21.50
020	MS	QC476988	928011	12.85	1629524	14.19	1347756	18.70	693865	21.50
021	MSD	QC476989	977331	12.84	1660039	14.18	1413207	18.71	693721	21.49

CURTIS & TOMPKINS INTERNAL STANDARD SUMMARY FOR SEQUENCE 838515986

Date : 12/23/08 Reference : kke22
Sequence : MSVOA11 kln Analyzed : 11/18/08 21:04

#	Type	Sample ID	PFLBZ	RT	14DFB	RT	CLBZD5	RT	DCBZ14D4	RT
		ICAL STD	857785	9.71	1338370	10.77	1081801	14.32	483101	16.76
		LOWER LIMIT	428893	9.21	669185	10.27	540901	13.82	241551	16.26
		UPPER LIMIT	1715570	10.21	2676740	11.27	2163602	14.82	966202	17.26
003	CCV/BS	QC476975	787827	9.71	1300294	10.77	1243320	14.31	588341	16.75
006	BSD	QC476976	811891	9.71	1349852	10.76	1299174	14.31	615402	16.75
008	BLANK	QC476977	800723	9.71	1349558	10.77	1280898	14.31	504637	16.75
009	SAMPLE	208496-001	782545	9.71	1311610	10.76	1248424	14.31	556602	16.75
010	SAMPLE	208496-002	868851	9.71	1451972	10.76	1396281	14.31	631664	16.75
011	SAMPLE	208496-003	964655	9.71	1596529	10.77	1544092	14.31	711962	16.75
012	SAMPLE	208496-004	1083982	9.71	1799937	10.76	1730143	14.31	785621	16.75
013	SAMPLE	208496-005	1195970	9.71	1968898	10.77	1864329	14.31	859641	16.75
014	SAMPLE	208496-007	1240256	9.71	2018813	10.77	1912147	14.31	893882	16.75
015	SAMPLE	208496-008	1279595	9.70	2086578	10.76	1990537	14.31	888264	16.75
016	SAMPLE	208496-009	1331542	9.71	2133487	10.77	2024651	14.31	857478	16.75
017	SAMPLE	208578-005	1313238	9.71	2106253	10.77	1992658	14.31	823277	16.75
018	SAMPLE	208578-006	1289685	9.71	2066420	10.77	1957364	14.32	787526	16.75
019	SAMPLE	208578-007	1223242	9.71	1977510	10.76	1917014	14.32	772437	16.75
020	SAMPLE	208752-009	1253562	9.71	2015738	10.77	1924309	14.31	771630	16.75
021	SAMPLE	208696-001	1204797	9.71	1912712	10.76	1826376	14.32	751838	16.75
022	SAMPLE	208552-001	1145053	9.71	1856350	10.77	1767274	14.32	719996	16.75
023	SAMPLE	208709-010	1154361	9.71	1874661	10.77	1809833	14.31	773481	16.75
024	SAMPLE	208639-003	1159068	9.71	1865464	10.76	1789939	14.31	700640	16.75
025	SAMPLE	208639-005	1133392	9.71	1808131	10.77	1716717	14.32	678925	16.75
026	SAMPLE	208708-004	1084877	9.71	1726500	10.76	1648732	14.31	658353	16.76

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 458468482

Instrument : MSVOA06 Begun : 11/20/08 08:02
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	fkk01	X	IB			11/20/08 08:02	1.0	1	
002	fkk02	X	BFB			11/20/08 08:57	1.0	2	
003	fkk03	X	20PPB			11/20/08 09:14	1.0	3 4 5 6 1	
004	fkk04	X	BFB			11/20/08 10:48	1.0	2	
005	fkk05	X	20PPB			11/20/08 11:04	1.0	3 4 5 6 1	
006	fkk06	X	BFB			11/20/08 11:44	1.0	2	
007	fkk07	X	BFB			11/20/08 11:56	1.0	2	
008	fkk08	X	20PPB			11/20/08 12:13	1.0	3 4 5 6 1	
009	fkk09	X	BFB			11/20/08 13:19	1.0	2	
010	fkk10	X	20PPB			11/20/08 13:36	1.0	3 4 5 6 1	
011	fkk11	X	IB			11/20/08 14:29	1.0	1	
012	fkk12	X	IB			11/20/08 15:03	1.0	1	
013	fkk13	X	LOW PT			11/20/08 15:37	1.0	1	
014	fkk14	TUN	BFB			11/20/08 16:09	1.0	2	
015	fkk15	X	IB			11/20/08 16:38	1.0	1	
016	fkk16	X	IB			11/20/08 17:12	1.0	1	
017	fkk17	X	IB			11/20/08 17:46	1.0	1	
018	fkk18	IB	CALIB			11/20/08 18:20	1.0	1	
019	fkk19	ICAL	0.25PPB			11/20/08 18:54	1.0	3 4 7 6 1	
020	fkk20	ICAL	0.5PPB			11/20/08 19:28	1.0	3 4 7 6 1	
021	fkk21	ICAL	2PPB			11/20/08 20:02	1.0	3 4 7 6 1	
022	fkk22	ICAL	5PPB			11/20/08 20:36	1.0	3 4 7 6 1	
023	fkk23	ICAL	10PPB			11/20/08 21:11	1.0	3 4 7 6 1	
024	fkk24	ICAL	20PPB			11/20/08 21:45	1.0	3 4 7 6 1	
025	fkk25	ICAL	50PPB			11/20/08 22:19	1.0	3 4 7 6 1	
026	fkk26	ICAL	75PPB			11/20/08 22:53	1.0	3 4 7 6 1	
027	fkk27	ICAL	100PPB			11/20/08 23:28	1.0	3 4 7 6 1	
028	fkk28	ICV	ICVGAS25PPB			11/21/08 00:02	1.0	8 1	
029	fkk29	ICV	ICV25PPB			11/21/08 00:36	1.0	9 10 11 1	
030	fkk30	X	IB			11/21/08 01:10	1.0	1	
031	fkk31	X	IB			11/21/08 01:45	1.0	1	
032	fkk32	X	IB			11/21/08 02:19	1.0	1	

BO 11/21/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 32.

BO 11/21/08 : fkk14, maximum sensitivity autotune

Analyst: BO Date: 11/21/08 Reviewer: ACM Date: 11/21/08

Standards used: 1=S10447 2=S9454 3=S10756 4=S10619 5=S10355 6=S9073 7=S10653 8=S10631 9=S10654 10=S10798 11=S10788

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CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 458514527

Instrument : MSVOA06 Begun : 12/22/08 07:27
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	flm01	X	IB			12/22/08 07:27	1.0	1	
002	flm02	TUN	BFB			12/22/08 07:58	1.0	2	
003	flm03	CCV/LCS	QC476775	Water	146322	12/22/08 08:15	1.0	3 4 5 6 1	
004	flm04	X	IB			12/22/08 09:02	1.0	1	
005	flm05	BLANK	QC476776	Water	146322	12/22/08 09:36	1.0	1	
006	flm06	SAMPLE	208752-001	Water	146322	12/22/08 10:10	1.0	1	
007	flm07	MSS	208752-002	Water	146322	12/22/08 10:44	1.0	1	
008	flm08	MS	QC476797	Water	146322	12/22/08 11:18	1.0	1 3 4 5 6	
009	flm09	MSD	QC476798	Water	146322	12/22/08 11:52	1.0	1 3 4 5 6	
010	flm10	X	IB			12/22/08 12:26	1.0	1	
011	flm11	X	BFB			12/22/08 13:16	1.0	2	
012	flm12	X	25PPB			12/22/08 13:33	1.0	1 3 4 5 6	
013	flm13	TUN	BFB			12/22/08 14:16	1.0	2	
014	flm14	CCV	25PPB			12/22/08 14:35	1.0	1 3 4 5 6	
015	flm15	X	IB			12/22/08 15:09	1.0	1	
016	flm16	BLANK	QC476777	Water	146322	12/22/08 15:43	1.0	1	
017	flm17	SAMPLE	208450-001	Water	146322	12/22/08 16:17	1.0	1	pH > 2
018	flm18	SAMPLE	208575-001	Water	146322	12/22/08 16:51	1.0	1	
019	flm19	SAMPLE	208575-002	Water	146322	12/22/08 17:26	1.0	1	
020	flm20	SAMPLE	208575-003	Water	146322	12/22/08 18:00	1.0	1	
021	flm21	SAMPLE	208575-004	Water	146322	12/22/08 18:34	1.0	1	
022	flm22	SAMPLE	208575-005	Water	146322	12/22/08 19:08	1.0	1	
023	flm23	SAMPLE	208575-006	Water	146322	12/22/08 19:42	1.0	1	
024	flm24	SAMPLE	208575-007	Water	146322	12/22/08 20:17	1.0	1	
025	flm25	SAMPLE	208575-008	Water	146322	12/22/08 20:51	1.0	1	
026	flm26	SAMPLE	208575-009	Water	146322	12/22/08 21:26	1.0	1	
027	flm27	SAMPLE	208575-010	Water	146322	12/22/08 22:00	1.0	1	
028	flm28	SAMPLE	208575-011	Water	146322	12/22/08 22:34	1.0	1	
029	flm29	SAMPLE	208752-003	Water	146322	12/22/08 23:09	1.0	1	
030	flm30	SAMPLE	208752-004	Water	146322	12/22/08 23:43	1.0	1	1:BZ=150
031	flm31	SAMPLE	208752-005	Water	146322	12/23/08 00:18	1.0	1	1:BZ=160
032	flm32	SAMPLE	208752-007	Water	146322	12/23/08 00:53	1.0	1	
033	flm33	SAMPLE	208752-006	Water	146322	12/23/08 01:27	3.333	1	1:BZ=180
034	flm34	SAMPLE	208752-008	Water	146322	12/23/08 02:02	10.0	1	1:BZ=190
035	flm35	X	IB			12/23/08 02:36	1.0	1	
036	flm36	X	IB			12/23/08 03:10	1.0	1	
037	flm37	X	IB			12/23/08 03:45	1.0	1	
038	flm38	SAMPLE	208663-001	Water	146354	12/23/08 04:20	1.0	1	
039	flm39	SAMPLE	208663-002	Water	146354	12/23/08 04:54	1.0	1	
040	flm40	SAMPLE	208663-003	Water	146354	12/23/08 05:29	1.0	1	

BO 12/23/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 40.

Analyst: BO Date: 12/23/08 Reviewer: LW Date: 12/23/08

Standards used: 1=S10715 2=S10902 3=S10935 4=S10844 5=S10798 6=S10985

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CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 458515995

Instrument : MSVOA06 Begun : 12/23/08 07:55
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	fln01	X	IB			12/23/08 07:55	1.0	1	
002	fln02	TUN	BFB			12/23/08 08:26	1.0	2	
003	fln03	CCV/LCS	QC476973	Water	146372	12/23/08 08:43	1.0	3 4 5 6 1	
004	fln04	X	IB			12/23/08 09:29	1.0	1	
005	fln05	BLANK	QC476974	Water	146372	12/23/08 10:03	1.0	1	
006	fln06	SAMPLE	208575-012	Water	146372	12/23/08 10:37	1.0	1	
007	fln07	SAMPLE	208575-013	Water	146372	12/23/08 11:12	1.0	1	
008	fln08	SAMPLE	208575-014	Water	146372	12/23/08 11:46	1.0	1	
009	fln09	SAMPLE	208578-001	Water	146372	12/23/08 12:20	1.0	1	headspace > 1 mL
010	fln10	SAMPLE	208578-002	Water	146372	12/23/08 12:53	1.0	1	
011	fln11	SAMPLE	208578-003	Water	146372	12/23/08 13:27	1.0	1	
012	fln12	SAMPLE	208578-004	Water	146372	12/23/08 14:01	1.0	1	headspace > 1 mL
013	fln13	MSS	208578-008	Water	146372	12/23/08 14:35	1.0	1	
014	fln14	SAMPLE	208599-010	Water	146372	12/23/08 15:09	1.0	1	
015	fln15	SAMPLE	208599-025	Water	146372	12/23/08 15:43	14.29	1	headspace <= 1 mL
016	fln16	SAMPLE	208752-004	Water	146372	12/23/08 16:17	4.0	1	
017	fln17	SAMPLE	208752-005	Water	146372	12/23/08 16:51	4.0	1	
018	fln18	SAMPLE	208752-006	Water	146372	12/23/08 17:26	14.29	1	
019	fln19	SAMPLE	208752-008	Water	146372	12/23/08 18:00	50.0	1	
020	fln20	MS	QC476988	Water	146372	12/23/08 18:34	1.0	1 3 4 5 6	
021	fln21	MSD	QC476989	Water	146372	12/23/08 19:08	1.0	1 3 4 5 6	
022	fln22	X	IB			12/23/08 19:43	1.0	1	
023	fln23	X	IB			12/23/08 20:17	1.0	1	
024	fln24	X	IB			12/23/08 20:51	1.0	1	

BO 12/24/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 24.

Analyst: BO Date: 12/24/08 Reviewer: LW Date: 12/24/08

Standards used: 1=S10715 2=S10902 3=S10935 4=S10844 5=S10798 6=S10985

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CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 838465788

Instrument : MSVOA11 Begun : 11/18/08 11:08
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	kke01	X	IB			11/18/08 11:08	1.0	1	
002	kke02	X	BFB			11/18/08 11:49	1.0	2	
003	kke03	X	BFB			11/18/08 12:06	1.0	2	
004	kke04	X	BFB			11/18/08 12:56	1.0	2	
005	kke05	X	BFB			11/18/08 13:10	1.0	2	
006	kke06	X	BFB			11/18/08 13:43	1.0	2	
007	kke07	X	BFB			11/18/08 14:03	1.0	2	
008	kke08	X	RT			11/18/08 14:33	1.0	1	
009	kke09	X	IB			11/18/08 15:01	1.0	1	
010	kke10	X	LP			11/18/08 15:29	1.0	1	
011	kke11	X	BFB			11/18/08 16:02	1.0	2	
012	kke12	TUN	BFB			11/18/08 16:19	1.0	2	
013	kke13	X	IB			11/18/08 16:51	1.0	1	
014	kke14	X	IB			11/18/08 17:19	1.0	1	
015	kke15	IB	CALIB			11/18/08 17:47	1.0	1	
016	kke16	ICAL				11/18/08 18:16	1.0	3 4 5 6 1	
017	kke17	ICAL				11/18/08 18:44	1.0	3 4 5 6 1	
018	kke18	ICAL				11/18/08 19:12	1.0	3 4 5 6 1	
019	kke19	ICAL				11/18/08 19:40	1.0	3 4 5 6 1	
020	kke20	ICAL				11/18/08 20:08	1.0	3 4 5 6 1	
021	kke21	ICAL				11/18/08 20:36	1.0	3 4 5 6 1	
022	kke22	ICAL				11/18/08 21:04	1.0	3 4 5 6 1	
023	kke23	ICAL				11/18/08 21:32	1.0	3 4 5 6 1	
024	kke24	ICAL				11/18/08 22:01	1.0	3 4 5 6 1	
025	kke25	ICV				11/18/08 22:29	1.0	7 1	
026	kke26	ICV				11/18/08 22:57	1.0	8 9 10 1	
027	kke27	X	IB			11/18/08 23:25	1.0	1	
028	kke28	X	IB			11/18/08 23:53	1.0	1	
029	kke29	X	IB			11/19/08 00:22	1.0	1	

ACM 11/19/08 : Adjusted tune prior to runs 4, 6, and 11.

ACM 11/24/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 24.

Analyst: ACM Date: 11/19/08 Reviewer: LW Date: 11/20/08

Standards used: 1=S10764 2=S9454 3=S10756 4=S10619 5=S9073 6=S10355 7=S10631 8=S10654 9=S10533 10=S10788

CURTIS & TOMPKINS SEQUENCE SUMMARY FOR 838515986

Instrument : MSVOA11 Begun : 12/23/08 07:46
Method : EPA 8260B SOP Version : TVH_8260B_rv0

#	File	Type	Sample ID	P	Matrix	Batch	Analyzed	IDF	Stds Used	
001	kln01	X	IB				12/23/08 07:46	1.0	1	
002	kln02	TUN	BFB				12/23/08 08:23	1.0	2	
003	kln03	CCV/BS	QC476975		Water	146373	12/23/08 08:36	1.0	3 4 5 6 1	
004	kln04	X	QC476976		Water	146373	12/23/08 09:15	1.0	3 4 5 6 1	
005	kln05	X	IB				12/23/08 09:43	1.0	1	
006	kln06	BSD	QC476976		Water	146373	12/23/08 10:11	1.0	3 4 5 6 1	
007	kln07	X	IB				12/23/08 10:39	1.0	1	
008	kln08	BLANK	QC476977		Water	146373	12/23/08 11:07	1.0	1	
009	kln09	SAMPLE	208496-001	M	Soil	146373	12/23/08 11:35	10000	1 7	
010	kln10	SAMPLE	208496-002	M	Soil	146373	12/23/08 12:03	1000	1 7	
011	kln11	SAMPLE	208496-003	M	Soil	146373	12/23/08 12:32	2000	1 7	
012	kln12	SAMPLE	208496-004	M	Soil	146373	12/23/08 13:00	200.0	1 7	
013	kln13	SAMPLE	208496-005	M	Soil	146373	12/23/08 13:28	200.0	1 7	
014	kln14	SAMPLE	208496-007	M	Soil	146373	12/23/08 13:56	833.3	1 7	
015	kln15	SAMPLE	208496-008	M	Soil	146373	12/23/08 14:24	100.0	1 7	
016	kln16	SAMPLE	208496-009	M	Soil	146373	12/23/08 14:52	50000	1 7	
017	kln17	SAMPLE	208578-005		Water	146373	12/23/08 15:20	1.0	1	
018	kln18	SAMPLE	208578-006		Water	146373	12/23/08 15:49	1.0	1	
019	kln19	SAMPLE	208578-007		Water	146373	12/23/08 16:17	1.0	1	headspace > 1 mL
020	kln20	SAMPLE	208752-009		Water	146373	12/23/08 16:45	1.0	1	
021	kln21	SAMPLE	208696-001		Water	146373	12/23/08 17:13	1.0	1	pH > 2, 1:ACE=320
022	kln22	SAMPLE	208552-001		Water	146373	12/23/08 17:41	1.0	1	headspace <= 1 mL
023	kln23	SAMPLE	208709-010		Water	146373	12/23/08 18:09	3.333	1	
024	kln24	SAMPLE	208639-003		Water	146373	12/23/08 18:37	33.33	1	
025	kln25	SAMPLE	208639-005		Water	146373	12/23/08 19:05	10.0	1	
026	kln26	SAMPLE	208708-004		Water	146373	12/23/08 19:34	71.43	1	
027	kln27	X	IB				12/23/08 20:02	1.0	1	
028	kln28	X	IB				12/23/08 20:30	1.0	1	
029	kln29	X	IB				12/23/08 20:58	1.0	1	

BO 12/24/08 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 1 through 29.

Analyst: BO Date: 12/24/08 Reviewer: LW Date: 12/24/08

Standards used: 1=S10764 2=S10902 3=S11013 4=S10935 5=S10798 6=S10985 7=S10843

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GC/MS VOLATILE ORGANICS

Batch #: 146322

Water Sample Prep Sheet

	Sample Number	Sample Vial	pH	Head space?	Shelf	Dil'n Flask	MS#	Comments	Initials & Date
1	208752-1	A	<2				6	TB	12/22/08
2	-2	B						1x MSS	
3	-2	COE	<2					MS/MSD	
4	-3	B							
5	-4								
6	-5								
7	-6					10		3.3x	
8	208575-8	C						1x	
9	-9								
10	-10								
11	-11								
12	-1	A							
13	-2	C							
14	-3								
15	-4								
16	-5								
17	-6								
18	-7	E							
19	208450-9 *	A	6					TB hold 12/22	
20	208752-7	B	<2					1x	
21	-8		<2			11		10x	
22									
23	208663-1	A	<2					Storage Blank	
24	-2								
25	-3								
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									

GC/MS VOLATILE ORGANICS

Batch #: 146372

Water Sample Prep Sheet

	Sample Number	Sample Vial	pH	Head space?	Shelf	Dil'n Flask	MS#	Comments	Initials & Date
1	208752-4	C	<2			1	6	mu 4x, Bzn > vu	Rè 12/23/08
2	-5					2		mu 4x, Bzn > vu	
3	-6					3		mu 14.2x, Bzn > vu	
4	-8					~~5~~ 4		mu 50x, Bzn > vu	
5	208599-10		<2					mu 1x, Fo/13 curve + vc 95	
6	-25	A	<2	12mL		5		mu 14.2x cis 60	
7	208575-12	C						1X	
8	-13								
9	-14								
10	208578-8	F						MSS	
11	-8	GHI	<2					MS/MSD	
12	-1	A		12mL				TB	
13	-2	C							
14	-3								
15	-4	A		12mL					
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									

GC/MS VOLATILE ORGANICS

Batch #: 146373

Water Sample Prep Sheet

	Sample Number	Sample Vial	pH	Head space?	Shelf	Dil'n Flask	MS#	Comments	Initials & Date
1	208639-3	C	<2			7	11	m 33x, TCE > UL	RJ 12/23/08
2	-5					8		m 10x, TCE > UL, TCFM curve +	
3	208708-4					9		71.4x	
4	208709-10	D				10		m 3.3x, OD Bm	
5	208552-1	A	<2	100L				m 1x, sec-but ben	
6	208578-5	C						1x	
7	-6								
8	-7	A		100L					
9	208752-9	B						1x	
10	~~208749-3~~								
11	~~-4~~								
12	~~-5~~								
13	~~-6~~								
14	~~-7~~								
15	~~-8~~								
16	~~-9~~								
17	~~-1~~								
18	~~208696-1~~							1x	
19	208496-1	C				11		m 10,000x MeOH hold 12/23	
20	-2					12		m 1000x	
21	-3					13		m 2000x	
22	-4					14		m 200x	
23	-5					15		m 200x	
24	-7					16		m 833x	
25	-8					17		m 100x	
26	-9					18		m 50,000x	
27	208696-1	B	7					1x	
28									
29									
30									
31									
32									
33									
34									
35									