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# ASSESSMENT OF GROUND WATER QUALITY IN THE VICINITY OF THE HIMCO LANDFILL SITE, ELKHART, INDIANA

Prepared for

Bayer Corporation
Elkhart, Indiana

Prepared by

ENVIRON International Corporation
Arlington, Virginia

June 26, 1996

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Re: Himco Superfund Site

Dear Mr. Johnson:

Enclosed are two copies of Environ's final report regarding the recent sampling at the Himco Superfund Site in Elkhart, Indiana. Please place one copy of the report in the Administrative Record for the site.

If you have any questions, please call me.

Very truly yours,

Reed S. Oslan

cc: Gerard F. Hickel, Esq. (w/o encl)
R. Lennie Scott (w/o encl.)

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# I. EXECUTIVE SUMMARY

In September 1995, well water samples were collected by the U.S. Army Corps of Engineers ("USACE") from 19 wells at and near the Himco Landfill site in Indiana ("the Site"). Sampling locations included seven existing monitoring wells, four new upgradient monitoring wells installed north of the landfill, six new downgradient monitoring wells installed south of the landfill, and two new monitoring wells installed along the eastern boundary of the Himco Landfill site in Indiana. The samples were analyzed for metals, cyanide, volatile organic compounds (VOCs), semi-volatile compounds (SVOCs), pesticides, and polychlorinated biphenyls (PCBs), yielding over 100 analytes per sample. ENVIRON Corporation has reviewed these analytical data. The scope of ENVIRON's review and ENVIRON's findings regarding ground water quality conditions on and near the Site are presented in this report.

ENVIRON conducted a quality assurance review of these new sampling data using guidelines developed by the U.S. Environmental Protection Agency ("USEPA" or "Agency") for the Contract Laboratory Program. The validated USACE data were compared to analytical data obtained by EIS Environmental Engineers, Inc. (EIS) using split samples that were provided by the USACE. No major differences were noted between EIS' and USACE's results.

The frequency of detection and range of detected concentrations in the two ground water sampling events (totalling 48 well water samples) were tabulated for the 27 carcinogens and nine non-carcinogens that contributed most to risk measures (i.e., lifetime cancer risk, or LCR, and non-cancer Hazard Quotient, or HQ, respectively) calculated by Life Systems, Inc. ("LSI") in the baseline health risk assessment for the Site. These 36 substances of potential concern included every carcinogen evaluated by LSI that yielded a LCR value of one per million ($1 \times 10^{-6}$) or greater and every non-carcinogen evaluated by LSI that yielded a HQ value of 0.1 or greater, based upon LSI's exposure assumptions. ENVIRON evaluated the frequency of detection and the magnitude and spatial pattern of detected concentrations of each of these substances to identify which ones may be related to past landfilling operations at the Site. Only substances that were detected in downgradient wells at a frequency of detection of 10% or greater (once or more every 10 samples) and at elevated concentrations, relative to upgradient (background) ground water samples, were judged to be site-related chemicals of

potential concern in ground water. Only site-related (hazardous) substances should be considered in determining the need for remedial action under the Comprehensive Environmental Response and Compensation Liability Act ("CERCLA"), or Superfund law. The following is a summary of ENVIRON's findings regarding these 36 substances:

**Carcinogens**

- Twenty-one of the 27 carcinogenic substances of potential concern were not detected in any of the 19 well water samples obtained by USACE in September 1995. These non-detected carcinogenic substances include: seven VOCs (i.e., bromodichloromethane, chloroform, 1,1-dichloroethene, methylene chloride, styrene, tetrachloroethene, trichloroethene, and vinyl chloride); six SVOCs (i.e., 1,4-dichlorobenzene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[k]fluoranthene, chrysene, and indeno[1,2,3cd]pyrene); and eight pesticides (i.e., aldrin, α-chlordane, δ-chlordane, β-benzenehexachloride (β-BHC), 4,4-DDE, 4,4-DDT, dieldrin, and heptachlor). These non-detections in ground water during September 1995 indicate that the 21 carcinogenic substances are not site-related chemicals of concern in ground water. This conclusion is also supported by the ground water sampling results from the RI for these substances.

- Two of the twenty-seven carcinogenic substances of potential concern (i.e., arsenic and beryllium) were detected in well water samples from upgradient (background) and downgradient wells in September 1995. Considering the results of both the RI and the September 1995 sampling events, arsenic and beryllium were found not to be elevated in downgradient wells relative to upgradient wells, according to the results of the Wilcoxon test (which is a non-parametric statistical test recommended by Agency guidance documents for situations where the frequency of detection is low).

- Four of the twenty-seven carcinogenic substances of potential concern (i.e., bis(2-ethylhexyl)phthalate, trichloroethylene, benzene and carbazole) were detected in September 1995 in well water samples only from downgradient wells.

    - Two of these four substances (i.e., bis(2-ethylhexyl)phthalate and trichloroethylene) were detected in upgradient monitoring wells during the RI, however, at concentrations greater than those reported in downgradient well samples in

September 1995. For bis(2-ethylhexylphthalate), the frequency of detection during the RI was similar in upgradient and downgradient wells (i.e., approximately 25% to 33%). Trichloroethylene was detected in only one (i.e., less than 5%) of the 30 downgradient samples collected during the two events; the sole detection was at a concentration (0.9 $\mu$g/L) less than the Maximum Contaminant Level (MCL) under the federal Safe Drinking Water Act (5 $\mu$g/L). Given these results, the RI and the September 1995 data provide no basis for concluding that bis(2-ethylhexyl) phthalate or trichloroethylene are site-related chemicals of concern in ground water.

- Carbazole was detected in only one of the 19 split ground water samples collected in September 1995. The reported detection was in the sample from new shallow well WT116A, which may not reflect authentic ground water contamination (for reasons documented in Section III and Appendix B of this report). It was not detected in any of the 29 ground water samples collected during the RI. The low frequency of detection (i.e., less than 5%), including no detections in the "on landfill" wells, indicates that carbazole is not a site-related chemical of concern in ground water.

- Benzene was detected in three of the 19 split ground water samples collected in September 1995. The maximum detected concentration was reported in a sample from new shallow well WT116A, which may not reflect authentic ground water contamination (for reasons documented in Section III and Appendix B of this report). With the exception of the sampling results for well WT116A, the detects of benzene during the RI and in September 1995 were at concentrations (range of 1 to 3 $\mu$g/L) less than the federal MCL (5 $\mu$g/L). Considering the results of both the RI and the September 1995 sampling events, including the questioned sampling result for well WT116A in September 1995, benzene was found not to be elevated in downgradient wells relative to upgradient wells, according to the results of the Wilcoxon test.

Non-carcinogens

- One of the nine non-carcinogenic substances of potential concern (chlorobenzene) was not detected in any of the 19 well water samples obtained by USACE in September 1995. Chlorobenzene was detected in only one of the 29 samples collected during the RI at a

concentration of 0.9 $\mu$g/L; it was not detected in any leachate or soil samples during the RI. Given the low frequency of detection (i.e., less than 5%) and the absence of chlorobenzene in leachate or soil samples, the RI and September 1995 data provide no basis for concluding that chlorobenzene is a site-related chemical of concern in ground water.

- Five of the nine non-carcinogenic chemicals of potential concern (i.e., antimony, barium, chromium, silver, vanadium) were detected in both upgradient (background) and downgradient wells in September 1995 and during the RI.

    - For antimony, chromium, silver, and vanadium, the maximum detected concentration in September 1995 was from an upgradient (background) well sample. Given these results, the RI and September 1995 data provide no basis for concluding that antimony, chromium, silver, or vanadium is a site-related chemical of concern in ground water.

    - Barium was detected in all 48 well water samples obtained from 31 monitoring wells on or near the Site during the RI (1990-91) and the September 1995 split sampling event. Considering the results of both the RI and the September 1995 sampling events, barium was found to be elevated in on-site, downgradient wells south of the landfill (but not elevated in the "on landfill" wells that are closer to the landfilled mass), relative to upgradient wells, according to the results of the t-test (which is a parametric statistical test recommended by Agency guidance documents for comparing a group of downgradient well data to a group of upgradient well data).

- Two of the nine non-carcinogenic substances of potential concern (carbon disulfide and cadmium) were detected in September 1995 in well water samples only from downgradient monitoring wells. Considering the results of both the RI and the September 1995 sampling events, carbon disulfide and cadmium were found <u>not</u> to be <u>elevated</u> in downgradient wells relative to upgradient wells, according to the results of the Wilcoxon test.

In September 1993, the USEPA issued its Record of Decision ("ROD") which presented the Agency's preferred remedial action for the Site. The ROD was based upon a baseline risk assessment, which was conducted by LSI using RI data and which concluded that the landfill does not pose an unacceptable health risk for current land use and existing exposure scenarios. LSI also conducted a health risk assessment for hypothetical future land use and exposure scenarios, which assumed that individuals consumed on-site leachate[1] and ground water for a substantial portion of a lifetime; LSI concluded that the health risk measures under these assumed exposure conditions would be greater than the Agency's typically allowable levels.

According to the Agency's *Risk Assessment Guidance for Superfund*, an early step in the health risk assessment process is to identify site-related chemicals of potential concern based, in part, upon an evaluation of frequency of detection and the magnitude and spatial pattern of detected concentrations (USEPA 1989). LSI's risk assessment did not identify site-related chemicals of concern according to this approach. Instead, LSI identified as "site-related" practically all substances detected in any sample or medium, regardless of its source.[2]

ENVIRON has evaluated LSI's baseline risk assessment in the context of the September 1995 ground water monitoring data obtained by USACE and the findings summarized above. As a result of the evaluation of LSI's cancer risk assessment, ENVIRON has determined the following:

- Almost all (i.e., 99.9% or more) of the cumulative (all-chemical) LCR calculated by LSI for the "on landfill" and "south of landfill" exposure locations is associated with substances that were detected only in leachate or soil or were detected in upgradient (i.e., background) wells. The RI and September 1995 data provide no basis for concluding that these substances are site-related chemicals of concern in ground water.

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[1] Because LSI assumed that hypothetical future residents on the landfilled mass will drink leachate (i.e., soil water within the landfilled mass above the regional ground water table), the LCR values obtained by LSI for the "on landfill" exposure scenario do not represent incremental risks related to the use of ground water.

[2] As summarized above, the RI and September 1995 data provide no basis for concluding that any of the 27 carcinogenic substances considered in LSI's baseline risk assessment is a site-related chemical of concern in ground water. Of the nine non-carcinogenic substances considered in LSI's baseline risk assessment, only barium was determined to possibly be a site-related substance in ground water.

- If the LCR values for substances detected in upgradient (background) wells or detected only in leachate or soil during the RI are not considered, then the cumulative LCR posed by future use of ground water by hypothetical on-site residents is due only to benzene and, according to LSI's calculations, is within the acceptable risk range (i.e., less than one per ten thousand ($1 \times 10^{-4}$), as established by the National Contingency Plan ("NCP") for the "on landfill" and "south of landfill" exposure locations. Considering the results of both the RI and the September 1995 sampling events, even benzene was found not to be elevated in downgradient wells relative to upgradient wells.

In summary, the cumulative LCR obtained by LSI do not represent incremental risks demonstrably related to the Site and past landfilling operations. The LCR values associated with detected, site-related substances do not warrant the remedial action recommended by the Agency in its ROD for the Site.

As a result of the evaluation of LSI's non-cancer risk assessment, ENVIRON has determined the following:

- All (100%) of the Hazard Index (HI; i.e., all-chemical sum of HQ values) calculated by LSI for the "south of landfill" exposure locations is associated with six substances that were detected in upgradient (background) wells during the RI.

- If the HQ values for substances detected in upgradient (background) wells and substances detected only in leachate are not considered, then the HI (cumulative HQ) posed by future use of ground water by hypothetical on-site residents is due only to cadmium and chlorobenzene. According to LSI's calculations, the HQ value is equal to or less than 0.1 for both substances for the "on landfill" and "south of landfill" exposure locations.[3] Considering the results of both the RI and the September 1995 sampling events, cadmium and chlorobenzene were found not to be elevated in downgradient wells relative to upgradient wells.

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[3] A HQ value less than 1 is considered safe for the general population. Because of the conservative manner by which non-cancer Reference Doses (RfDs) are derived, a HQ value greater than 1 does not necessarily indicate that adverse health effects will occur, even if the assumed exposure conditions are realized.

- According to LSI's calculations, the HQ associated with barium, the only non-carcinogenic substance in ground water determined to be possibly site-related, is less than 0.1 for all exposure locations.

In summary, the HI (cumulative HQ) values obtained by LSI do not represent exposures demonstrably related to the Site and past landfilling operations. The HI (and HQ) values associated with detected site-related substances do not warrant the remedial action recommended by the Agency in its ROD for the Site.

# II. INTRODUCTION

The Himco Landfill site ("the Site") is located at County Road 10 and the Nappanee Street Extension in Cleveland Township, adjacent to the City of Elkhart in Indiana. It was privately operated by Himco Waste Away Services, Inc. from 1960 until September 1976. The Site was proposed for the National Priorities List ("NPL") in June 1988 and was officially placed on the NPL by USEPA Region V in February 1990. In September 1993, the USEPA issued its ROD, which presented the Agency's preferred remedial action for the Site. The ROD called for institutional controls (that ban the construction and operation of drinking water wells on site) to mitigate any direct human exposures to shallow ground water underneath the site and ground water monitoring to provide a basis for assessing whether ground water quality conditions are changing in the vicinity of the Site. In addition, the ROD called for construction and maintenance of a multi-media cap over the entire landfill.

As part of remedial design activities, field personnel from the U.S. Army Corps of Engineers, Omaha District, ("USACE") conducted ground water monitoring at the Site in September 1995 as contractors to USEPA Region V. Samples were collected from seven existing monitoring wells and from twelve new monitoring wells. The seven existing ground water monitoring wells sampled during September 1995 were WTE1, WT01, WT101A, WT101B, WT102A, WT102B, and WT111A (see Figure 1 for well locations). Most of the new monitoring wells (i.e., wells WT112A, WT112B, WT114A, WT114B, WT115A, WT116A, WT116B, WT117A, WT117B, and WT118B) were placed in locations or at depths that had not been previously sampled during the RI. Four of the new wells (i.e., wells WT112A, WT112B, WT113A, and WT113B) were installed north (upgradient) of the landfill, six were installed south (downgradient) of the landfill (i.e., WT115A, WT116A, WT116B, WT117A, WT117B, and WT118B), and two were installed on the eastern edge of the landfill (i.e., WT114A, WT114B). Sampling these new and existing monitoring wells provided data regarding ground water quality around the perimeter of the landfill. Samples were analyzed for metals, cyanide, volatile organic compounds, semi-volatile compounds, pesticides, and polychlorinated biphenyls. The analytical data for these samples are shown, as received, in Appendix A of this report.

EIS Environmental Engineers, Inc. ("EIS") was present during the September 1995 sampling event to (1) observe and record USACE's field activities, and (2) obtain and analyze

split samples of ground water from the various wells sampled by USACE personnel. EIS prepared a report of its findings, which is included as Appendix B of this report.

ENVIRON Corporation has reviewed the analytical data obtained by USACE and EIS. This report summarizes ENVIRON's analysis and conclusions regarding the ground water sampling data. ENVIRON's report consists of six primary sections, as follows:

- Executive Summary (Section I), which summarizes the data, methods, and conclusions of ENVIRON's analysis of ground water quality conditions in the vicinity of the Site;

- Introduction (Section II), which provides useful background information regarding the preparation of this report;

- Ground Water Sampling Data (Section III), which summarizes the new ground water sampling data with particular emphasis on the USEPA sampling data and substances detected in one or more monitoring wells during the Remedial Investigation ("RI");

- Summary of Baseline Risk Assessment (Section IV), which summarizes and analyzes the baseline health risk assessment for the Site, which was conducted by Life Systems, Inc. "(LSI"), a contractor to USEPA Region V, and upon which the ROD is based;

- Implications of ENVIRON's Findings (Section V), which discusses ENVIRON's findings in the context of the National Contingency Plan and the need for any further remedial action at the Site; and

- References (Section VI), which provides documentation for publications cited and relied upon in this report.

# III. ASSESSMENT OF GROUND WATER QUALITY

## A. Overview

Based on the analytical results of ground water monitoring samples collected during the RI and during the September 1995 split sampling event, ENVIRON evaluated whether releases from the Site, if any, have adversely impacted local ground water. The analysis involved three steps, which included:

- Compiling all available ground water monitoring data collected at the Site by contractors to USEPA Region V;

- Identifying chemical substances that have been detected by contractors to USEPA Region V in one or more monitoring well(s) and that could contribute significantly to either cancer or noncancer risks under the ground water exposure conditions hypothesized by LSI; and

- Evaluating the potential sources of and impacts posed by these substances, based upon the spatial and temporal patterns of their detected concentrations in monitoring well samples.

The remainder of this chapter describes each of the steps listed above in greater detail and summarizes the results of ENVIRON's findings.

## B. Ground Water Monitoring Data

The first step in the analysis was to compile all available ground water monitoring data collected at the Site. As part of the RI, twenty-nine samples were taken from 17 wells between November 1990 through September 1991. An additional 19 samples were collected by USACE in September 1995 from 19 monitoring wells, including 12 new wells. The monitoring wells sampled in the RI and in the September 1995 sampling event are shown in Figure 1.

As part of its baseline risk assessment, LSI divided the monitoring wells sampled during the RI into four groups: background wells, on the landfill wells, south of the landfill "shallow" wells, and south of the landfill "deep" wells (see Table 1). As a result, before

analyzing the split samples collected in September 1995, ENVIRON assigned each of the twelve new wells into one of the four groups developed by LSI (see Table 1), based upon their location and depth. New wells less than 50 feet deep were considered "shallow" wells, while new wells greater than 50 feet were considered "deep" wells.

ENVIRON also performed a quality assurance/quality control (QA/QC) of the analytical results provided by USEPA Region V in September 1995. A detailed description of this review and its results can be found in Appendix C. In summary, ENVIRON reviewed the materials enclosed in Appendix A of this report (i.e., the case narratives and associated laboratory reports and the supplemental information provided by USEPA for the September 1995 sampling event) and compared the laboratory performance and the analytical results to the quality control (QC) criteria outlined in *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review* and *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* ("the Functional Guidelines"). ENVIRON then evaluated the data qualifiers assigned by the USEPA data reviewer to determine whether the qualifiers were appropriately applied as described in the Functional Guidelines. ENVIRON modified the qualifiers in instances where, in its judgement, the Functional Guidelines were not properly applied. ENVIRON also identified additional qualifications in instances where the available documentation provided a reasonable and appropriate basis for extending the quality assurance review beyond that reported by USEPA Region V.

Finally, ENVIRON compared the analytical results obtained by USEPA contractors with those obtained for split samples that were analyzed by EIS (as reported in Appendix B). The sample-by-sample comparison revealed no major differences between the two data sets for most samples and analytes.[4] On this basis, the analytical results obtained by USEPA Region V were evaluated by ENVIRON for purposes of the remainder of this report. Selected (minor) discrepancies between the results for the split samples are identified and discussed later in this report.

## C. Identification of Chemicals of Potential Concern

During the RI and the split sampling event in September 1995, ground water underneath the Site and in the vicinity of the Site was sampled and analyzed for over 100 different

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[4] For the convenience of the reader, the split sample results are compared by monitoring well and analyte group in the listings in Appendix D of this report.

chemicals. For purposes of this report, ENVIRON focussed its analysis on 27 substances regarded by USEPA to be carcinogens and nine non-carcinogenic substances that pose the greatest potential for any health risks associated with future residential use of ground water on the Site. This section describes how ENVIRON identified the 36 chemical substances that are the subject of Sections III.D and III.E of this report.

**1. Carcinogenic Substances**

Based upon the RI data, LSI found that 26 carcinogenic substances would pose LCR values greater than one per million ($1 \times 10^{-6}$), the lower end of the acceptable risk range established by the NCP, under the exposure conditions assumed by LSI in the baseline health risk assessment.[5] These 26 substances include:

- nine volatile organic compounds (VOCs) (i.e., benzene, bromodichloromethane, chloroform, 1,1-dichloroethene, methylene chloride, styrene, tetrachloroethene, trichloroethene, and vinyl chloride);
- seven semi-volatile organic compounds (SVOCs) (i.e., bis(2-ethylhexyl)phthalate, 1,4-dichlorobenzene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[k]fluoranthene, chrysene, and indeno[1,2,3cd]pyrene);
- eight pesticides (i.e., aldrin, α-chlordane, δ-chlordane, β-benzenehexachloride (β-BHC), 4,4-DDE, 4,4-DDT, dieldrin, and heptachlor); and
- two metals (i.e., arsenic and beryllium)

ENVIRON conducted two tasks to identify additional substances of potential concern, beyond the 26 substances identified on the basis of LSI's assessment, as follows:

- Identifying chemicals that were not previously evaluated by LSI due to lack of appropriate toxicity values (oral slope factors) from USEPA sources; and

[5] A summary of LSI's assessment is presented in Appendix E of this report.

- Identifying chemicals that could pose excess lifetime cancer risks greater than one per ten million ($1 \times 10^{-7}$) based upon the maximum detected concentration in any well water sample from either the RI or the September 1995 sampling event and under the exposure conditions assumed by LSI in the baseline risk assessment.

The USEPA's Integrated Risk Information System (IRIS) and the latest quarterly Health Effects Summary Tables (HEAST) were reviewed to determine whether any substances identified as carcinogenic chemicals of concern by LSI, but not evaluated in the baseline health risk assessment (presumably) due to lack of appropriate toxicity values, have since had cancer slope factors derived and published by the USEPA. On this basis, α-benzenehexachloride (α-BHC), carbazole, and 1,2-dichloropropane were identified as candidates for further evaluation.

A risk screening test was used to identify chemicals that could potentially pose excess lifetime cancer risks greater than one per ten million ($1 \times 10^{-7}$) based on their sample concentrations as reported by USEPA. ENVIRON calculated LCR values using the same exposure assumptions and exposure parameters that LSI used in the baseline risk assessment. For purposes of this risk screening only, exposure concentrations for detected chemicals were conservatively assumed to be equal to the maximum detected concentration of the substance for any well sample during either the RI or the September 1995 split sampling event. For purposes of this risk screening only, exposure concentrations for non-detected substances were conservatively assumed to be equal to the highest SQL for the substance for any sample during either the RI or the September 1995 split sampling event. This conservative risk screening test identified only carbazole, an SVOC, as a chemical of potential concern, in addition to the 26 substances listed above.

**2. Noncarcinogenic Substances**

Noncarcinogenic substances of potential concern were identified using a similar process as described above for carcinogens. Based upon the RI data, LSI found that six substances would pose HQ values greater than 1 under the exposure conditions assumed in the baseline risk assessment (see Appendix E); these substances include:

- one VOC (i.e., carbon disulfide);

- four metals (i.e., antimony, cadmium, chromium, and vanadium); and

- nitrate/nitrite.

ENVIRON conducted two tasks to identify additional substances, beyond the 6 substances identified on the basis of LSI's assessment, as follows:

- Identifying chemicals that were not previously evaluated by LSI due to lack of appropriate toxicity values (oral Reference Doses) from USEPA sources; and

- Identifying chemicals that could pose a HQ greater than 0.1 based upon the maximum detected concentration in any well water sample from either the RI or the September 1995 sampling event and under the exposure conditions assumed by LSI in the baseline risk assessment.

The USEPA's Integrated Risk Information System (IRIS) and the latest quarterly Health Effects Summary Tables (HEAST) were reviewed to determine whether any substances identified as non-carcinogenic chemicals of concern by LSI, but not evaluated in the baseline health risk assessment (presumably) due to lack of appropriate toxicity values, have since had oral Reference Doses (RfDs) derived and published by the USEPA. On this basis, no additional substances were identified as candidates for further evaluation.

A risk screening test was used to identify chemicals that could potentially pose a HQ value greater than 0.1 (which is well below any level of health concern), based upon the sample concentrations reported by USEPA. HQ values were calculated by ENVIRON using the same exposure assumptions and exposure parameters that LSI used in the baseline risk assessment. For purposes of the risk screening only, exposure concentrations for detected chemicals were conservatively assumed to be equal to the maximum detected concentration of the substance in any well sample during either the RI or the September 1995 split sampling event. For purposes of the risk screening only, exposure concentrations for nondetected chemicals were conservatively assumed to be equal to the highest SQL for the substance for any water sample collected during either the RI or the September 1995 split sampling event. This conservative risk screening test

identified three additional non-carcinogenic chemicals of potential concern: one VOC (chlorobenzene) and two metals (barium and silver).

## D. Analysis of Carcinogenic Chemicals of Potential Concern

This section summarizes and discusses the analytical results of the September 1995 well water samples, as obtained by the USACE for USEPA Region V, for the 27 carcinogenic substances identified as chemicals of potential concern, on the basis of the criteria established above. These analytical data are evaluated in the context of the RI sampling results.[6] Emphasis is placed upon substances that were actually detected in monitoring well samples during either ground water sampling event, as distinct from substances that were detected only in soil or leachate samples during the RI. For the carcinogens that were detected in one or more well samples, ENVIRON tabulated the frequency of detection and range of detected concentrations in the two ground water sampling events (totalling 48 well water samples). ENVIRON evaluated the frequency of detection and the magnitude and spatial pattern of detected concentrations for each of these substances to identify which ones may be related to past landfilling operations at the Site. Only substances that were detected in downgradient wells at a frequency of detection of 10% or greater (once or more every 10 samples) and at elevated concentrations, relative to upgradient (background) ground water samples, were judged to be site-related chemicals of potential concern in ground water. Only site-related (hazardous) substances should be considered in determining the need for remedial action under CERCLA.

### 1. Substances Not Detected in Any Monitoring Well Sample

Twenty-one of the 27 carcinogenic substances of potential concern were <u>not</u> detected in <u>any</u> of the 19 well water samples obtained by USACE in September 1995. These non-detected carcinogenic substances include:

- seven of the nine VOCs (i.e., bromodichloromethane, chloroform, 1,1-dichloroethene, methylene chloride, styrene, tetrachloroethene,

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[6] Section IV of this report evaluates the analytical data in the context of LSI's baseline health risk assessment for ground water.

trichloroethene, and vinyl chloride[7]);

- six of the eight SVOCs (i.e., 1,4-dichlorobenzene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[k]fluoranthene, chrysene, and indeno[1,2,3cd]pyrene); and

- all eight pesticides (i.e., aldrin, α-chlordane, δ-chlordane, β-benzenehexachloride (β-BHC), 4,4-DDE, 4,4-DDT, dieldrin, and heptachlor).

These non-detections in ground water during September 1995 indicate that the 21 carcinogenic substances are not site-related chemicals of concern in ground water. This conclusion is supported by the ground water sampling results from the RI, as follows:

- Substances Detected Only In Leachate or Soil During the RI
  Eighteen of these 21 carcinogenic substances were not detected in any of the 29 water samples collected from 17 monitoring wells during the RI. Fifteen of the 18 were considered chemicals of concern in ground water by LSI solely due to

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[7] With the exception of vinyl chloride, none of these substances was detected in any of the split samples, according to EIS' analytical results. Vinyl chloride was detected in one sample from a shallow well (WT116A) and one sample from a deep well (WT118B) downgradient of the landfill, but was not detected in any of the other 17 well water samples collected in September 1995 (see Appendix D), according to EIS' analytical results. Again, EPA's results showed no detections of vinyl chloride for any of the 19 samples collected in September 1995. The cumulative frequency of detection in downgradient wells for the RI and September 1995 sampling events (total of 30 samples) is 0% using EPA analyses and 6% according to EIS' analyses. Vinyl chloride was not detected in any ground water samples from the "on landfill" wells that are closest to the landfilled mass. In addition, vinyl chloride can arise as a result of the biodegradation of trichloroethylene, which was detected in an upgradient (background) well during the RI. Given the above, the RI and September 1995 data provide no basis for concluding that vinyl chloride is a site-related chemical of concern in ground water.

their detection in one or more samples of leachate.[8] Three of the 18 were considered chemicals of concern in ground water by LSI solely due to their detection in one or more samples of soil.[9] Because these 18 substances were not detected in ground water during either the RI or the September 1995 split sampling event (total of 48 well water samples), there is no evidence that they have been released from leachate or soil, respectively, into ground water. As a result, there is no basis to conclude that these 18 substances are site-related chemicals of concern present in ground water.

- Substances Detected Only In Upgradient (Background) Wells During the RI
  One of the 21 carcinogenic substances, bromodichloromethane, was detected solely in background samples during the RI (see Table 4). It was not detected in any of the 17 samples collected during the RI from on-site monitoring wells downgradient or sidegradient of the landfill mass. Based on the RI and September 1995 ground water sampling data, there is no basis to conclude that bromodichloromethane is a site-related chemical of concern in ground water.

- Substances Detected In Upgradient and Downgradient Wells During the RI
  Two of the 21 carcinogenic substances (i.e., chloroform and methylene chloride) are VOCs that were detected in upgradient and downgradient monitoring wells during the RI. Both are also common laboratory contaminants.

  During the RI, chloroform was detected in three of 12 (or 25% of the) upgradient (background) well samples and in one sample from each group of downgradient monitoring wells (on the landfill, south of the landfill shallow, and south of the

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[8] Residents hypothesized to live on the landfill were assumed by LSI to consume leachate (i.e., unfiltered water from within the waste mass, but well above the regional ground water table) (see Appendix E). The substances detected only in leachate samples during the RI included three VOCs (i.e., styrene, tetrachloroethene, and vinyl chloride), five SVOCs (benzo[a]pyrene, benzo[b]fluoranthene, benzo[k]fluoranthene, chrysene, and indeno[1,2,3cd]pyrene), and seven pesticides (4,4-DDT, aldrin, alpha-chlordane, beta-BHC, dieldrin, gamma-chlordane, and heptachlor).

[9] The substances detected only in soil samples during the RI included one VOC (1,1-dichloroethene), one SVOC (1,4-dichlorobenzene), and one pesticide (4,4-DDE).

landfill deep); hence, the frequency of chloroform detection in the downgradient wells (3 out of 17 samples or 18%) was equal to or less than that for the upgradient wells (see Table 3). Each of the three detections in background (upgradient) well water samples (range of 4 to 26 $\mu$g/L) was greater than any of the three downgradient detections (range of 1 to 2 $\mu$g/L). Given the above, neither the RI or September 1995 data provide any basis for concluding that chloroform is a site-related chemical of concern in ground water.

During the RI, methylene chloride was detected in two of 12 upgradient (background) well samples and in one sample each from the landfill well group and the south of the landfill shallow well group (i.e., two out of 17 total downgradient samples; see Table 4). It was not detected in any samples taken from the south of the landfill deep well group. The maximum detected concentration in any monitoring well (19 $\mu$g/L) was found in one of the background samples. Given the above, neither the RI or September 1995 data provide any basis for concluding that methylene chloride is a site-related chemical of concern in ground water.

**2. Substances Detected in Upgradient Monitoring Well Samples**

Two of the twenty-seven carcinogenic substances of potential concern (arsenic and beryllium) were detected in well water samples from upgradient (background) and downgradient wells in September 1995.

**a) Arsenic**

Arsenic was detected in four of the 19 split samples collected in September 1995: in one of six upgradient (background) wells, two of three "on landfill" wells, and in one of five shallow wells south of the landfill (see Table 5). During the RI, arsenic was detected in unfiltered water samples from background wells, "on landfill" wells, and shallow and deep monitoring wells south of the landfill (see Table 5). Because of the reported detection of arsenic in the "on landfill" and south of the landfill wells in the RI and in the split sampling event, ENVIRON conducted a statistical analysis of the existing USEPA ground water quality data to determine whether arsenic concentrations in downgradient monitoring wells are significantly elevated relative to background levels. Details

of the statistical analysis (using the Wilcoxon Rank Sum Test) are summarized in Appendix F. Considering the results of both the RI and the September 1995 sampling events, total arsenic was found not to be elevated in downgradient wells relative to background levels (using a confidence level, $\alpha$, of 5%).

**b) Beryllium**

Beryllium was detected in two of six upgradient (background) wells and two of five deep wells south of the landfill in September 1995 (see Table 6). It was not detected in the three "on landfill" wells or the five shallow wells south of the landfill in September 1995. During the RI, beryllium was detected in two unfiltered well water samples from background wells and in two unfiltered well water samples from shallow monitoring wells south of landfill (see Table 10).[10] It was not detected in water samples from the "on landfill" wells or the deep wells south of the landfill during the RI. Because the reported detections of beryllium in downgradient wells during the RI and the split sampling event are comparable to those from background wells and because beryllium was not detected in the "on landfill" monitoring wells (see Table 10), the presence of beryllium in ground water during the RI may not be site-related. ENVIRON conducted a statistical analysis of the existing USEPA ground water quality data to determine whether beryllium concentrations in downgradient monitoring wells are significantly elevated relative to background levels. Details of the statistical analysis (using the Wilcoxon Rank Sum Test) are summarized in Appendix F. Considering the results of both the RI and the September 1995 sampling events, total beryllium was found not to be elevated in downgradient wells relative to background levels (using a confidence level, $\alpha$, of 5%).

**3. Substances Detected in Downgradient Monitoring Well Samples**

Four of the twenty-seven carcinogenic substances of potential concern (bis(2-ethylhexyl)phthalate, trichloroethylene, benzene and carbazole) were detected in well

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[10] In Table A4-9 (Volume 5, SEC Donohue, 1992) LSI reported that beryllium was detected in two out of seven samples taken of deep groundwater. Based on ENVIRON's review of the analytical results found in Table B-3 (Volume 4 SEC Donohue, 1992), it appears that beryllium was not detected in any of six samples taken of deep groundwater.

water samples only from downgradient wells in September 1995. Two of these four substances (i.e., bis(2-ethylhexyl)phthalate and trichloroethylene) were detected in upgradient monitoring wells during the RI, as detailed below.

**a. Bis(2-ethylhexyl) phthalate**

During the RI, bis(2-ethylhexyl)phthalate was detected in approximately 25% to 33% of the well water samples in each group of monitoring wells: background, on the landfill, south of the landfill shallow, and south of the landfill deep (see Table 7). USEPA contractors reported detections of bis(2-ethylhexyl)phthalate in the September 1995 split samples from the "on landfill" wells and the downgradient wells, but not upgradient samples (see Table 7). The maximum detected concentration in September 1995 (15 $\mu$g/L) was for sample EARQ1 of shallow ground water south of the landfill (WT116A).[11] Because the duplicate of sample EARQ1 (i.e., sample EARQ0) was reported to be non-detect with a sample quantitation limit of 10 $\mu$g/L, the authenticity of the reported detection is called into question. Finally, the maximum detected concentration reported by USEPA contractors for the September 1995 split samples (15 $\mu$g/L) is lower than the maximum detection in upgradient (background) samples during the RI (32 $\mu$g/L; see Table 7). Given the above, neither the RI or September 1995 data provide any basis for concluding that bis(2-ethylhexyl)phthalate is a site-related chemical of concern in ground water.

**b. Trichloroethene**

During the RI, trichloroethene was detected in one upgradient (background) well sample (see Table 8). Trichloroethene was detected in only one of the 19 split well water samples collected in September 1995, in a downgradient well sample (well WT116A) at a concentration (0.9 $\mu$g/L) lower than the reported

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[11] EIS reported (see Appendix B of this report) that USACE field personnel, while monitoring with a photoionization detector (PID), obtained elevated background readings at this well location, possibly due exhaust from a generator in the vicinity of the well. These observations suggest that the sample result may not represent actual ground water contamination.

detection during the RI in an upgradient well (2 μg/L; see Table 8).[12] Sample quantitation limits for the background wells during the split sampling event (10 μg/L) were not sufficiently sensitive to ensure that trichloroethene was not present in upgradient ground water at concentrations comparable to those detected in shallow well south of the landfill. Given the above, neither the RI or September 1995 data provide any basis for concluding that trichloroethene is a site-related chemical in ground water.

**c. Carbazole**

Carbazole was not detected in any of the 29 samples collected during the RI (Table 9). Carbazole was detected in only one of the 19 well water samples collected in September 1995 (see Table 9). It was detected at a concentration of 6 μg/L in the sample taken from Well WT116A in the south of the landfill shallow well group. EIS reported (see Appendix B of this report) that USACE field personnel, while monitoring with a photoionization detector (PID), obtained elevated background readings at this well location, possibly due exhaust from a generator in the vicinity of the well. These observations suggest that the duplicate sample results for well WT116A may not represent actual ground water contamination. Given the low overall frequency of detection (i.e., less than 5%) and the failure to detect carbazole in any of the samples from the "on landfill" wells that are closest to the landfilled mass, there is no basis to conclude that carbazole is a site-related chemical of concern in ground water.

**d. Benzene**

During the RI and the September 1995 sampling events, benzene was detected in downgradient monitoring wells, but not in upgradient (background) wells. During the RI, it was detected once in the on landfill well group and twice in the south of the landfill shallow well group (see Table 10) out of 17 total downgradient well samples. The maximum detected concentration (3 μg/L) during the RI occurred in a sample taken from the south of the landfill shallow

[12] Both detected concentrations of trichloroethylene are less than the federal MCL for this substance (5 μg/L).

well group. All three detections during the RI were less than the federal MCL (5 $\mu$g/L).

Benzene was detected in three of the 19 split well water samples collected in September 1995 (see Table 10). It was detected once in the on landfill well group and twice in the south of the landfill shallow well group. The maximum concentration (15 $\mu$g/L) occurred in a sample taken from Well WT116A in the south of the landfill shallow well group. EIS reported (see Appendix B of this report) that USACE field personnel, while monitoring with a photoionization detector (PID), obtained elevated background readings at this well location, possibly due exhaust from a generator in the vicinity of the well. These observations suggest that the duplicate sample results at this well may not represent actual ground water contamination. The other two detections (at concentrations of 1 and 2 $\mu$g/L) were less than the federal MCL.

Sample quantitation limits for the background wells were 5 to 10 $\mu$g/L during the RI and were 10 $\mu$g/L for the September 1995 sampling event. These SQLs were not sufficiently sensitive to ensure that benzene was not present in upgradient ground water at levels that were comparable to those detected in shallow wells south of the landfill (range of 1 to 3 $\mu$g/L, if the questioned sampling result for well WT116A in September 1995 is neglected). ENVIRON conducted a statistical analysis of the existing ground water quality data to determine whether benzene concentrations in downgradient monitoring wells are significantly elevated relative to background levels. Details of the statistical analysis (using the Wilcoxon Rank Sum Test) are summarized in Appendix F. Considering the results of both the RI and the September 1995 sampling events, including the questioned sampling result for well WT116A, benzene was found not to be elevated in downgradient wells relative to background levels (using a confidence level, $\alpha$, of 5%).

## E. Analysis of Noncarcinogenic Chemicals of Potential Concern

This section summarizes and discusses the analytical results of the September 1995 well water samples, as obtained by the USACE for USEPA Region V, for the nine non-carcinogenic substances identified as chemicals of potential concern, on the basis of the criteria established above. The analytical data are evaluated in the context of the RI sampling results. Emphasis is placed upon non-carcinogenic substances that were actually detected in monitoring

well samples during either sampling event, as distinct from substances that were detected only in soil or leachate samples during the RI. For the non-carcinogens that were detected in one or more well samples, ENVIRON tabulated the frequency of detection and range of detected concentrations in the two ground water sampling events (total of 48 well water samples). ENVIRON evaluated the frequency of detection and the magnitude and spatial pattern of detected concentrations for each of these substances to identify which ones may be related to past landfilling operations at the Site. Only substances that were detected in downgradient wells at a frequency of detection of 10% or greater (once or more every 10 samples) and at elevated concentrations, relative to upgradient (background) ground water samples, were judged to be site-related chemicals of potential concern in ground water. Only site-related (hazardous) substances should be considered in determining the need for remedial action under CERCLA.

**1. Substances Not Detected in Any Monitoring Well Sample**

One of the nine non-carcinogenic substances of potential concern (chlorobenzene) was not detected in any of the 19 well water samples obtained by USACE in September 1995. The non-detections in ground water during September 1995 indicate that chlorobenzene is not a site-related chemical of concern in ground water.

Chlorobenzene was detected in only one of the 29 samples collected during the RI at a concentration of 0.9 $\mu$g/L in one sample from an "on landfill" well (see Table 11); it was not detected in any leachate or soil samples during the RI. Given the low frequency of detection (i.e., less than 5%) and the absence of chlorobenzene in leachate or soil samples, the RI and September 1995 data provide no basis for concluding that chlorobenzene is a site-related chemical of concern in ground water.

**2. Substances Detected in Upgradient Monitoring Well Samples**

Five of the nine non-carcinogenic chemicals of potential concern (i.e., antimony, barium, chromium, silver, vanadium) were detected in both upgradient (background) and downgradient wells in September 1995.

**a. Antimony**

During the RI, antimony was detected twice in upgradient (background) samples, once in the south of the landfill shallow well group, and twice in the south of the landfill deep well group (see Table 12). The maximum detected

concentration (48.7 $\mu$g/L) was found in a background sample. Antimony was not detected in the "on landfill" wells.

The USEPA's analytical results for the September 1995 sampling event were generally consistent with the RI results. Antimony was detected in two upgradient (background) monitoring wells and in one well in the south of the landfill shallow well group (see Table 12), but not in the "on landfill" wells. The maximum detected concentration (29.7 $\mu$g/L) was found in a background sample. Within a well grouping, the maximum reported antimony concentration tended to be lower in September 1995 than from the RI.

During both the RI and the September 1995 sampling event, the maximum detected concentration of antimony occurred in an upgradient (background) well sample. In addition, antimony was not detected in any of the ground water samples from the "on landfill" wells that are closest to the landfilled mass. Given the above, the RI and September 1995 data provide no basis for concluding that antimony is a site-related chemical of concern in ground water.

**b. Barium**

Barium was detected in all 48 well water samples obtained from 31 monitoring wells on or near the Site during the RI (1990-91) and the September 1995 split sampling event (see Table 13). The ubiquity of barium in both upgradient and downgradient monitoring wells indicates that barium is naturally occurring in ground water. Because the maximum detected concentration of barium during the RI and in September 1995 was from a downgradient well sample, ENVIRON conducted a statistical analysis of the existing ground water quality data to determine whether barium concentrations in downgradient monitoring wells are significantly elevated relative to background levels. Details of the statistical analysis (using the t-test, a parametric statistical test recommended by Agency guidance documents) are summarized in Appendix F. Considering the results of both the RI and the September 1995 sampling events, barium is not elevated in the "on landfill" wells that are closest to the landfilled mass, but is elevated in the on-site, downgradient wells south of the landfill, relative to background levels (using a confidence level, $\alpha$, of 5%).

**c. Chromium**

During the RI, chromium was detected in four background samples, in one sample from the on landfill well group, in four samples from the south of the landfill shallow well group, and in two samples from the south of the landfill deep well group (Table 14). The USEPA's analytical results for the September 1995 sampling event report chromium being detected in two background samples, in two samples from the "south of the landfill shallow" well group, and in two samples from the "south of the landfill deep" well group, but not detected in the "on landfill" wells that are closest to the landfilled mass (see Table 14). The September 1995 data show the maximum detected concentration of chromium (23.9 $\mu$g/L) to be from an upgradient (background) well sample. Based upon the occurrence of chromium in both upgradient and downgradient monitoring wells at similar detected concentrations, there is no basis to conclude that chromium is a site-related chemical of concern in ground water.

**d. Silver**

During the RI, silver was detected in two background samples, in three samples from the on landfill well group, in one sample from the south of the landfill shallow well group, and in two samples from the south of the landfill deep well group (Table 15). The USEPA's analytical results for the September 1995 sampling event report silver being detected in two background samples and in two samples from the "south of the landfill deep" well group, but not detected in any ground water samples from the "on landfill" wells that are closest to the landfilled mass (see Table 15). The September 1995 data show the maximum detected concentration of silver (19.5 $\mu$g/L) to be from an upgradient (background) well sample. Based upon the occurrence of silver in both upgradient and downgradient monitoring wells at similar detected concentrations, the RI and September 1995 data provide no basis for concluding that silver is a site-related chemical of concern in ground water.

**e. Vanadium**

During the RI, vanadium was detected in three background samples, in three samples from the "on landfill" well group, in five samples from the south of the landfill shallow well group, and in four samples from the south of the

landfill deep well group (Table 16). The USEPA's analytical results for the September 1995 sampling event report vanadium being detected in four background samples, in three samples taken from the on landfill well group, in three samples from the south landfill shallow well group, and in two samples from the south of the landfill deep well group (see Table 16). The September 1995 data show the maximum detected concentration of vanadium (26.5 $\mu$g/L) to be from an upgradient (background) well sample. Based upon the occurrence of vanadium in both upgradient and downgradient monitoring wells at similar detected concentrations, the RI and September 1995 data provide no basis for concluding that vanadium is a site-related chemical of concern in ground water.

**3. Substances Detected in Downgradient Monitoring Wells**

Two of the nine non-carcinogenic substances of potential concern (carbon disulfide and cadmium) were detected in September 1995 in well water samples only from downgradient monitoring wells.

**a. Carbon Disulfide**

Carbon disulfide was <u>not</u> detected in <u>any</u> of the 29 well water samples collected during the RI (see Table 17); it was detected only in some leachate samples during the RI and was judged by LSI to be a chemical of concern solely on that basis. USEPA's analytical results for the September 1995 sampling event report carbon disulfide being detected twice in the on landfill well group and once in the south of the landfill "deep" well group (Table 17). Sample quantitation limits for the background wells during the split sampling event (10 $\mu$g/L) were not sufficiently sensitive, however, to ensure that carbon disulfide was not present in upgradient ground water at levels that were comparable to those detected in downgradient wells (i.e., $\leq$ 2 $\mu$g/L).

Because the maximum detected concentration of carbon disulfide in September 1995 was from a downgradient well sample, ENVIRON conducted a statistical analysis of the existing ground water quality data to determine whether carbon disulfide concentrations in downgradient monitoring wells are significantly elevated relative to background levels. Details of the statistical analysis (using the Wilcoxon Rank Sum Test) are summarized in Appendix F. Considering the results of both the RI and the September 1995 sampling events,

carbon disulfide is not elevated in downgradient wells relative to background levels (using a confidence level, $\alpha$, of 5%). Hence, the RI and September 1995 data provide no basis for concluding that carbon disulfide is a site-related chemical of concern in ground water.

**b. Cadmium**

During the RI, cadmium was detected in one "shallow" well sample and one "deep" well sample from monitoring wells south of the landfill during the RI (see Table 18); cadmium was also detected in some leachate samples during the RI. The USEPA's analytical results for the September 1995 sampling event report cadmium being detected in one well sample from the "on landfill" group and one well sample in the south of the landfill "shallow" well group (see Table 18). Because the detected concentrations from the September 1995 sampling event are lower than those from the RI (see Table 19), the abundance of cadmium in downgradient ground water may be decreasing with time.

Because the maximum detected concentration of cadmium in September 1995 was from a downgradient well sample, ENVIRON conducted a statistical analysis of the existing ground water quality data to determine whether cadmium concentrations in downgradient monitoring wells are significantly elevated relative to background levels. Details of the statistical analysis (using the Wilcoxon Rank Sum Test) are summarized in Appendix F. Considering the results of both the RI and the September 1995 sampling events, cadmium is not elevated in downgradient wells relative to background levels (using a confidence level, $\alpha$, of 5%). Hence, the RI and September 1995 data provide no basis for concluding that cadmium is a site-related chemical of concern in ground water.

**4. Substances Not Analyzed in September 1995**

One of the nine non-carcinogenic substances of potential concern (nitrite/nitrate) was not analyzed in the September 1995 samples. Nitrite/nitrate (as a single analyte) was detected twice in upgradient (background) samples, four times in the south of the landfill shallow well group, and once in the south of the landfill deep well group (see Table 19) during the RI.[13] The two highest detected concentrations (6,900 $\mu$g/L and 5,500 $\mu$g/L) were found in background samples, which may be attributable to the use of fertilizer and possibly other sources unrelated to the landfill. Given the above, there is no basis for concluding that nitrite/nitrate is a site-related chemical of concern in ground water.

[13] During the RI, leachate samples were also analyzed for nitrate/nitrite, but soil samples were not. The nitrite/nitrate analyses of leachate samples were judged unuseable by SEC Donohue, however.

# IV. BASELINE HEALTH RISK ASSESSMENT

The ROD for the Site was based upon a baseline risk assessment, which was conducted by LSI and which concluded that the landfill does not pose an unacceptable health risk for current land use and existing exposure scenarios. LSI also conducted a health risk assessment for hypothetical future land use and exposure scenarios, which assumed that individuals consumed on-site leachate and ground water for a substantial portion of a lifetime; LSI concluded that the health risks under these assumed exposure conditions would be above the USEPA's acceptable risk range. USEPA Region V proposed a remedy for the Site to mitigate this hypothetical future on-site threat associated with residential development on the landfill mass. Additional information regarding LSI's assessment is provided in Appendix E.

According to the Agency's *Risk Assessment Guidance for Superfund*, an early step in the health risk assessment process is to identify site-related chemicals of potential concern based, in part, upon an evaluation of frequency of detection and the magnitude and spatial pattern of detected concentrations (USEPA 1989). In the case of ground water monitoring data, this step should include a rigorous comparison of the concentrations detected in upgradient versus downgradient wells (USEPA 1989, 1992). The intent of this screening is that only site-related (hazardous) substances should be considered in determining the need for remedial action under CERCLA. LSI's risk assessment did not identify site-related chemicals of concern according to this approach.[14] Instead, LSI identified as "site related" practically all substances detected in any sample or medium. It also did not correct down-gradient exposure concentrations for any background contribution. Consequently, the values of lifetime cancer risk (LCR) and non-cancer Hazard Quotient (HQ) obtained by LSI do not represent incremental risks demonstrably related to the Site and past landfilling operations.

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[14] As summarized in Sections III.D and III.E of this report, the RI and September 1995 data provide no basis for concluding that any of the 27 carcinogenic substances considered in LSI's baseline risk assessment is a site-related chemical of concern in ground water. Of the nine non-carcinogenic substances considered in LSI's baseline risk assessment, only barium was determined to possibly be a site-related chemical of concern in ground water.

Many of the substances identified as chemicals of potential concern by LSI were not detected during the RI in any on-site or downgradient monitoring well and were not detected in any monitoring wells in September 1995 either (see Section III of this report). In evaluating exposures to ground water, LSI made the following assumptions regarding the interpretation of non-detect in ground water samples collected during the RI:

- Substances detected in one or more leachate samples, but not detected in any well water (ground water) samples, were assumed to be present in every downgradient well water sample at a concentration equal to one-half the sample quantitation limit (SQL).

- Substances detected in one or more soil samples, but not detected in any well water (ground water) samples, were assumed to be present in every downgradient well water sample at a concentration equal to one-half the SQL.

- Substances detected in one or more ground water sample(s) were assumed to be present in every downgradient well water sample. For samples with a non-detect result, the substance concentration was assumed to be equal to one-half the SQL.

Consistent with these assumptions and to facilitate an interpretation of LSI's risk assessment, ENVIRON compiled the LSI's risk measures from the baseline risk assessment according to the following groupings:

- Substances detected during the RI only in well water samples from upgradient (background) wells;

- Substances detected during the RI only in (one or more samples of) leachate;

- Substances detected during the RI only in (one or more samples of) soil;

- Substances detected during the RI in one or more samples from any downgradient well(s), in addition to leachate samples and upgradient (background) ground water monitoring wells; and

- Substances detected during the RI in one or more leachate samples and in one or more ground water samples from downgradient wells, but not in upgradient (background) monitoring wells.

ENVIRON placed chemical substances in these detection groups based on a review of the LCR values calculated by LSI (SEC Donohue 1992, vol. 5) and the Analytical Chemistry Tables presented in the RI report (SEC Donohue 1992, vol. 4). Table 20 lists the lifetime cancer risk (LCR) values, while Table 21 lists the non-cancer hazard quotient (HQ) values, for the substances considered by LSI. Risk measures (LCR and HQ values) calculated by LSI are shown for four different exposure locations developed by LSI:

- Background, for which exposure concentrations were based upon RI sampling results for substances detected in seven upgradient wells (WB1, WB2, WB3, WB4, WTP102A, WTP102B, WTP103C);[15]

- On Landfill, for which exposure concentrations were based upon RI sampling results for leachate samples (from water sampled from excavation trenches TL1, TL2, and TL4 in the landfill mass) and two monitoring wells near the landfill mass (WTCP-1 and WT103A);

- South of Landfill (Shallow), for which exposure concentrations were based upon RI sampling results for four shallow on-site, monitoring wells south of the landfill mass (WT101A, WTE-2, WTM-2, and WT111A); and

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[15] LSI presented risk measures (LCR and HQ values) for the background (upgradient) exposure location only for detected substances, whereas risk measures were calculated and presented for non-detected substances for the other three (downgradient) exposure locations.

- South of Landfill (Deep), for which exposure concentrations were based upon RI sampling results for four "deep" on-site, monitoring wells south of the landfill mass (WTE-3, WTM-1, WT101B, and WT101C).

Several conclusions are apparent, based upon a review of Table 20, including the following:

- Almost all (i.e., 99.9% or more) of the cumulative (all-chemical) LCR for the "on landfill" and "south of landfill" exposure locations is associated with substances that were detected during the RI only in leachate or soil or were detected in upgradient (i.e., background) wells. The RI and September 1995 data provide no basis for concluding that these substances are site-related chemicals of concern in ground water.

- The LCR estimate for beryllium and the cumulative LCR for substances detected in background wells exceeded one per ten thousand ($1 \times 10^{-4}$), the upper bound of the acceptable risk range as established by the NCP. The RI and September 1995 data provide no basis for concluding that these substances are site-related chemicals of concern in ground water.

- The occurrence of arsenic, beryllium, vinyl chloride, and several polycyclic aromatic hydrocarbons in leachate samples and the assumption by LSI that hypothetical future residents on the landfill mass will drink leachate are the principal reasons that LSI obtained LCR values greater than $10^{-4}$ for these substances for the "on landfill" exposure scenario.[16]

- If the LCR values for substances detected in upgradient (background) wells and substances detected during the RI only in leachate or soil are not considered, then the cumulative LCR posed by future use of ground water

[16] Because LSI assumed that hypothetical future residents on the landfilled mass will drink leachate (i.e., soil water within the landfilled mass above the regional ground water table), the LCR values obtained by LSI for the "on landfill" exposure scenario do not represent incremental risks related to the use of ground water.

by hypothetical on-site residents is due only to benzene and is within the acceptable risk range established by the NCP. As discussed in Section III.D and documented in Appendix F, ENVIRON's statistical analysis of the available well sampling data indicates that even benzene is not elevated in downgradient wells relative to background wells.

Figure 2 illustrates these conclusions further. The left-most set of bars (labelled "LSI Total") shows the total LCR values calculated by LSI for the four exposure locations, based upon RI data. The LCR for the "on landfill" scenario (shown in green) is elevated as a result of LSI's assumption that hypothetical future residents drink leachate. ENVIRON re-calculated exposure concentrations in a manner identical to LSI, but relying upon the results of the "on landfill" wells only. The corresponding LCR for the "on landfill" exposure location and its well data is substantially lower, as shown by the second set of bars ("Not Leachate"). The LCR for background conditions is lower than that for the other three scenarios because the "background LCR" calculated by LSI (shown in red) was based upon detected substances only, whereas the LCRs for the other exposure locations reflect "non-detected" substances also. When the LCRs for the "on landfill" and "south of the landfill" exposure locations are adjusted to reflect only the contributions of detected substances, then the LCRs, as calculated by LSI, for these three downgradient exposure locations become similar to that for background, as shown by the third set of bars ("Only Detects"). Finally, when substances detected in both upgradient and downgradient wells are not considered, the residual LCR (reflecting only substances that were detected in the RI only in downgradient wells; i.e., benzene) is found to be substantially less than one per ten thousand, based upon LSI's calculations; this is shown by the fourth set of bars ("w/o Background"). In summary, the total (cumulative) LCR values determined by LSI do not reflect documented, site-related impacts on ground water quality. The LCR values associated with detected site-related substances in ground water are within the acceptable risk range established by the NCP.

Several conclusions are apparent, based upon a review of Table 21, including the following:

- All (100%) of the Hazard Index (HI; i.e., all-chemical sum of HQ values) for the "south of landfill" exposure locations is associated with six

substances that were detected in upgradient (background) wells during the RI.

- The HQ value for antimony detected in background wells (HQ = 3) exceeds 1, the value that typically serves to indicate a potential non-cancer concern.[17] It also exceeds the HQ values obtained by LSI for assumed use of ground water from shallow or deep wells south of the landfill.

- The HQ value for nitrite/nitrate detected in background wells (HQ = 2) exceeds 1, the value that serves to indicate a potential non-cancer concern.

- No substance (other than nitrite/nitrate and antimony[18]) was found to yield a non-cancer HQ value greater than 1 for assumed use of ground water from shallow or deep wells south of the landfill. According to LSI's calculations, the HQ associated with barium, the only non-carcinogenic substance in ground water determined to possibly be site-related, is less than 0.1 for all exposure locations.

- The occurrence of antimony, chromium, vanadium, carbon disulfide, and cadmium in leachate samples and the assumption by LSI that hypothetical future residents on the landfill mass will drink leachate are the principal reasons that LSI obtained HQ values equal to or greater than 1 for these substances for the "on landfill" exposure scenario.[19]

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[17] Because of the conservative manner by which non-cancer Reference Doses (RfDs) are derived, a HQ value greater than 1 does not necessarily indicate that adverse health effects will occur, even if the assumed exposure conditions are realized.

[18] As discussed in Section III.E., the RI and September 1995 data provide no basis for concluding that antimony or nitrate/nitrite is a site-related chemical of concern in ground water.

[19] Because LSI assumed that hypothetical future residents on the landfilled mass will drink leachate (i.e., soil water within the landfilled mass above the regional ground water table), the HQ values obtained by LSI for the "on landfill" exposure scenario do not represent incremental risks related to the use of ground water.

- If the HQ values for substances detected in upgradient (background) wells and substances detected only in leachate during the RI are not considered, then the HI (cumulative HQ) posed by future use of ground water by hypothetical on-site residents is due only to cadmium and chlorobenzene and is less than 1 for the "on landfill" and "south of landfill" exposure locations. As discussed in Section III.E, the RI and September 1995 data provide no basis for concluding that cadmium or chlorobenzene is a site-related chemical of concern in ground water.

Figure 3 illustrates these conclusions further. The left-most set of bars (labelled "LSI Total") shows the HI (total HQ) values calculated by LSI for the four exposure locations, based upon RI data. The HI for the "on landfill" scenario (shown in green) is elevated as a result of LSI's assumption that hypothetical future residents drink leachate. ENVIRON re-calculated exposure concentrations in a manner identical to LSI, but relying upon the results of the "on landfill" wells only. The corresponding HI for the "on landfill" exposure location and its well data is substantially lower, as shown by the second set of bars ("Not Leachate") . In contrast to LCRs, "non-detected" substances do not make a substantial contribution to the HIs for the downgradient exposure locations, as shown by a comparison of the third and second set of bars. The HIs based upon detected substances only, as calculated by LSI, are similar for the "on landfill", "south of the landfill", and background (shown in red) exposure locations, as shown by the third set of bars ("Only Detects"). When substances detected in both upgradient and downgradient wells are not considered, the residual HI (reflecting only substances that were detected in the RI only in downgradient wells; i.e., cadmium and chlorobenzene) is found to be substantially less than 1, based upon LSI's calculations; this is shown by the fourth set of bars ("w/o Background"). In summary, the HI (cumulative HQ) values determined by LSI do not reflect documented, site-related impacts on ground water quality. The HI values associated with detected, site-related substances in ground water indicate that these substances do not pose a threat of adverse non-cancer health effects even if ground water on the Site is consumed.

# V. IMPLICATIONS OF ENVIRON's FINDINGS

The National Contingency Plan (NCP) and various USEPA risk management guidance documents (e.g., USEPA 1991) prepared over the past several years have established $10^{-4}$ as the upper end of the acceptable range of lifetime cancer risks (LCRs) that may be posed by site-related chemicals at NPL sites. Sites that are found through standard risk assessment practice to have a cumulative (all-chemical) LCR less than (or even slightly greater than) $10^{-4}$ due to site-related substances do not require any remedial action. As documented in Table 20 and discussed in Sections III.D and IV of this report, if the LCR values for substances detected in background wells and substances detected during the RI only in leachate or soil are not considered, then the cancer risk posed by future use of ground water by hypothetical on-site residents is due only to benzene. According to LSI's assessment (see Table 1), the LCR for benzene is within the acceptable risk range established by the NCP. Hence, even if it is assumed that benzene's occurrence in ground water is related to the Site and landfilling operations, its LCR, assuming future use of ground water by hypothetical on-site residents, is not sufficient to require or warrant the remedial action recommended by the Agency in its ROD for the Site.

Where the non-cancer HQ is less than 1, there is no threat of adverse non-cancer health effects. In these circumstances, therefore, remedial action is not warranted according to the NCP and various USEPA risk management guidance documents (e.g., USEPA 1991). As documented in Table 21 and discussed in Sections III.E and IV of this report, if the HQ values for substances detected in background wells and substances detected during the RI only in leachate or soil are not considered, then the non-cancer risk posed by future use of ground water by hypothetical on-site residents is due only to cadmium and chlorobenzene. According to LSI's assessment (see Table 2), the HQ values for cadmium and chlorobenzene are 0.1 and 0.06, respectively; i.e., both well below 1. According to LSI's calculations, the HQ associated with barium, the only non-carcinogenic substance in ground water determined to possibly be site-related, is less than 0.1 for all exposure locations. Hence, the HQ values for site-related substances in ground water, assuming future use of ground water by hypothetical on-site residents, are not sufficient to require or warrant the remedial action recommended by the Agency in its ROD for the Site.

# VI. REFERENCES

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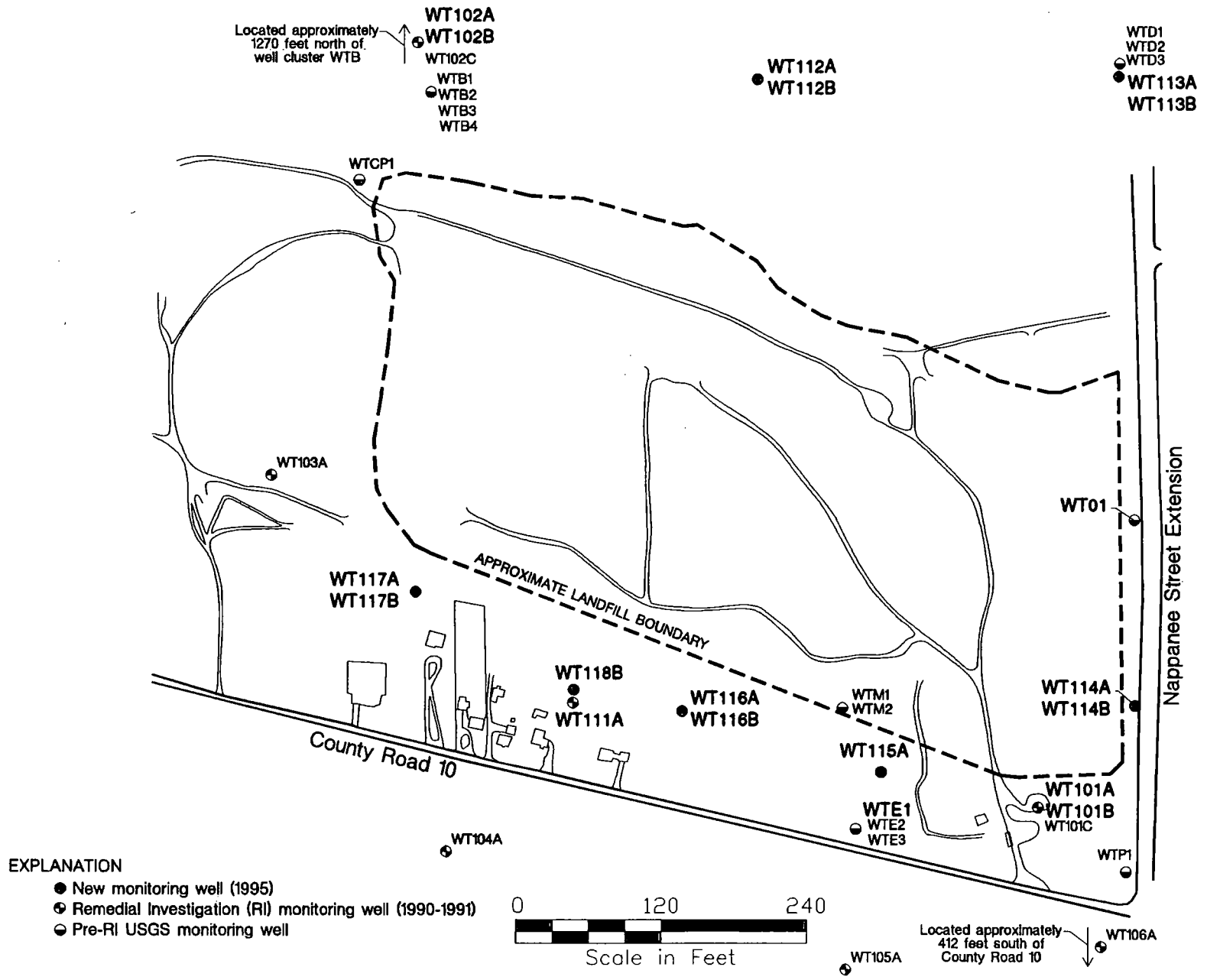


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LOCATION OF GROUNDWATER MONITORING WELLS
ON AND NEAR THE HIMCO NPL SITE IN INDIANA

Figure
1

# LIFETIME CANCER RISKS (LCRs) FOR ON-SITE GROUND WATER USE

## Impacts of LSI's Assumptions on LCRs for Four Exposure Locations

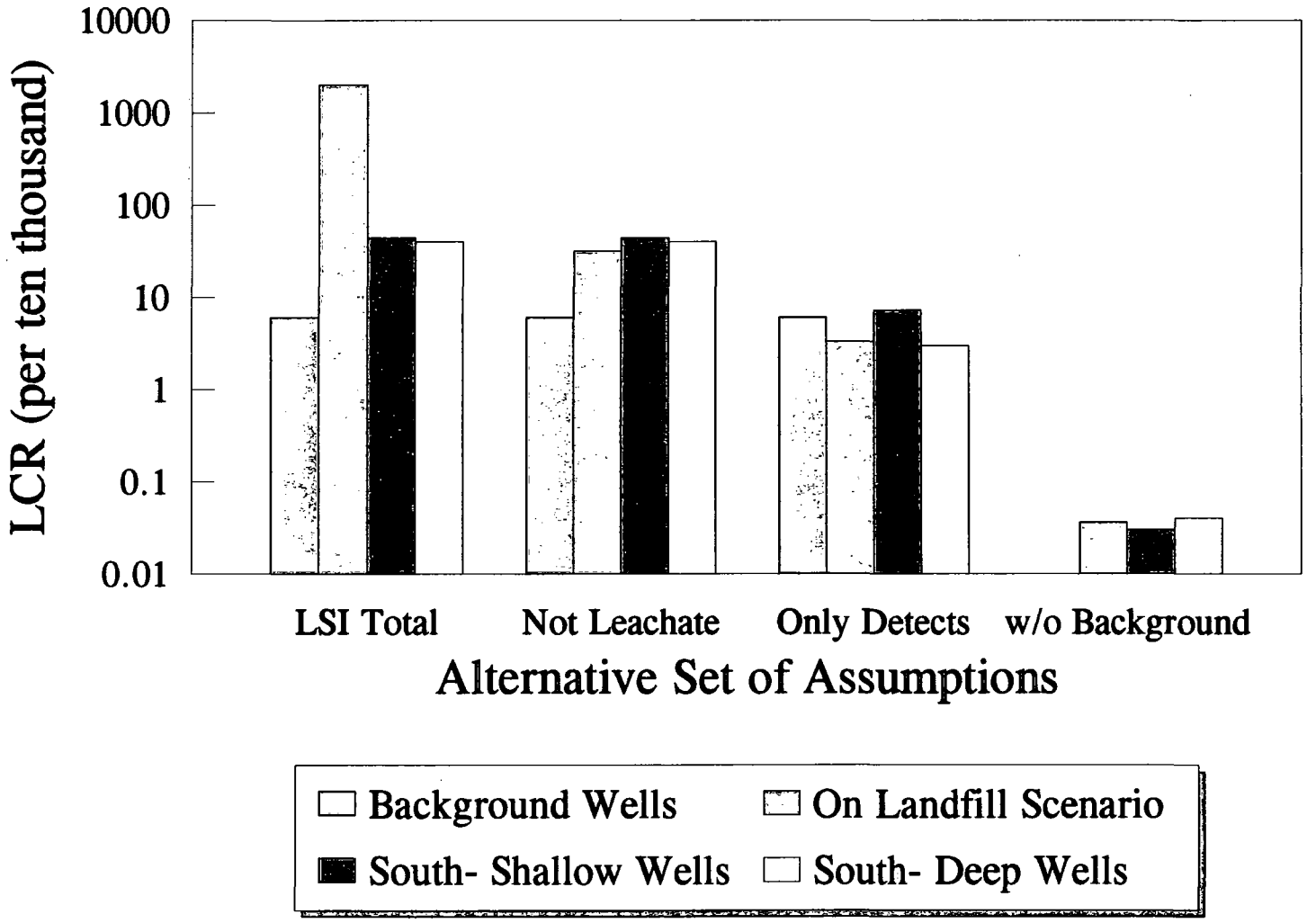


FIGURE 2

# NON-CANCER HAZARD INDEX FOR ON-SITE GROUND WATER USE

## Impacts of LSI's Assumptions on HIs for Four Exposure Locations

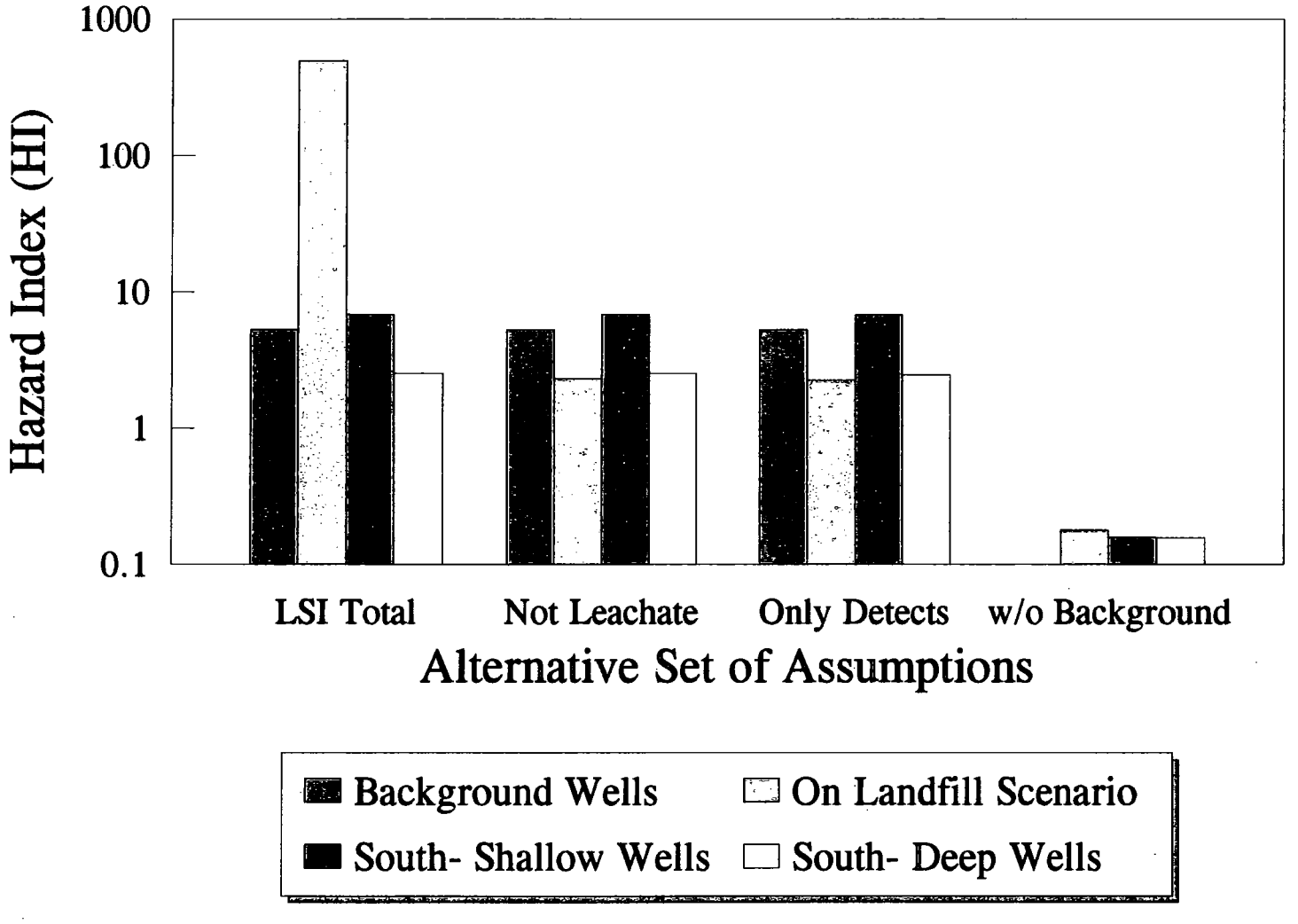


FIGURE 3

**TABLE 1**
**Classification of Monitoring Wells on and Near the Himco Landfill**

| Well Group | Monitoring Wells in Each Respective Well Group | | | |
|---|---|---|---|---|
| | **Background** | **On Landfill** | **South Landfill (Shallow)** | **South Landfill (Deep)** |
| Existing Remedial Investigation Well or USGS Well used in LSI's Risk Assessment | WT102A, WT102B, WT102C, WTB1, WTB2, WTB3, WTB4 | WT103A, WTCP1 | WT101B, WT101C, WTE3, WTM1 | WT101A, WT111A, WTE2, WTM2 |
| Existing Remedial Investigation Well or USGS Well not used in LSI's Risk Assessment and Classified by ENVIRON | NA | WT01 | WTE1 | NA |
| New Monitoring Wells (1995) Classified by ENVIRON | WT112A, WT112B, WT113A, WT113B | WT114A, WT114B | WT116B, WT117B, WT118B | WT115A, WT116A, WT117A |

**Note:**
Figure 1 shows the locations of these wells. New wells less than 50 feet deep were considered "shallow" wells; new wells greater than 50 feet deep were considered "deep" wells.

**TABLE 2**

**Summary of Analytical Data for Bromodichloromethane in Groundwater Monitoring Wells, Himco Landfill[1]**

| | Background Wells | | On Landfill Wells | | South Landfill (Shallow Wells) | | South Landfill (Deep Wells) | |
|---|---|---|---|---|---|---|---|---|
| Sampling Information | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data |
| Well IDs | WT102A, WT102B, WT102C, WTB1, WTB2, WTB3, WTB4 | WT102A, WT102B, WT112A, WT112B, WT113A, WT113B | WT103A, WTCP1 | WT01, WT114A, WT114B | WT101A, WT111A, WTE2, WTM2 | WT101A, WT111A, WT115A, WT116A, WT117A | WT101B, WT101C, WTE3, WTM1 | WT101B, WT116B, WT117B, WT118B, WTE1 |
| Number of Samples | 12 | 6 | 4 | 3 | 7 | 5 | 6 | 5 |
| Number of Detects | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Range of Detected Concentrations (µg/L) | 2 to 7 | NA | NA | NA | NA | NA | NA | NA |
| Sample Quantitation Limits for Nondetect Samples (µg/L) | 5 to 10 | 10 | 5 to 10 | 10 | 5 to 10 | 10 | 5 to 10 | 10 |

Notes:

NA: Not applicable

[1]Data based on ENVIRON's review of the analytical results found in Tables B-1 and B-19 of the Remedial Investigation Report (Volume 4 SEC Donohue, 1992). ENVIRON noted several discrepancies between its summary of the analytical data and Life Systems' summary of the analytical data found in Tables A1-3, A4-8, A4-9, and A4-10 (Volume 5 SEC Donohue, 1992).

**TABLE 3**

**Summary of Analytical Data for Chloroform in Groundwater Monitoring Wells, Himco Landfill[1]**

| | Background Wells | | On Landfill Wells | | South Landfill (Shallow Wells) | | South Landfill (Deep Wells) | |
|---|---|---|---|---|---|---|---|---|
| Sampling Information | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data |
| Well IDs | WT102A, WT102B, WT102C, WTB1, WTB2, WTB3, WTB4 | WT102A, WT102B, WT112A, WT112B, WT113A, WT113B | WT103A, WTCP1 | WT01, WT114A, WT114B | WT101A, WT111A, WTE2, WTM2 | WT101A, WT111A, WT115A, WT116A, WT117A | WT101B, WT101C, WTE3, WTM1 | WT101B, WT116B, WT117B, WT118B, WTE1 |
| Number of Samples | 12 | 6 | 4 | 3 | 7 | 5 | 6 | 5 |
| Number of Detects | 3 | 0 | 1 | 0 | 1 | 0 | 1 | 0 |
| Range of Detected Concentrations (µg/L) | 4 to 26 | NA | 1 | NA | 2 | NA | 2 | NA |
| Sample Quantitation Limits for Nondetect Samples (µg/L) | 5 to 10 | 10 | 5 to 10 | 10 | 5 to 10 | 10 | 5 to 10 | 10 |

Notes:

NA: Not applicable

[1]Data based on ENVIRON's review of the analytical results found in Tables B-1 and B-19 of the Remedial Investigation Report (Volume 4 SEC Donohue, 1992). ENVIRON noted several discrepancies between its summary of the analytical data and Life Systems' summary of the analytical data found in Tables A1-3, A4-8, A4-9, and A4-10 (Volume 5 SEC Donohue, 1992).

TABLE 4

Summary of Analytical Data for Methylene Chloride in Groundwater Monitoring Wells, Himco Landfill[1]

| | Background Wells | | On Landfill Wells | | South Landfill (Shallow Wells) | | South Landfill (Deep Wells) | |
|---|---|---|---|---|---|---|---|---|
| Sampling Information | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data |
| Well IDs | WT102A, WT102B, WT102C, WTB1, WTB2, WTB3, WTB4 | WT102A, WT102B, WT112A, WT112B, WT113A, WT113B | WT103A, WTCP1 | WT01, WT114A, WT114B | WT101A, WT111A, WTE2, WTM2 | WT101A, WT111A, WT115A, WT116A, WT117A | WT101B, WT101C, WTE3, WTM1 | WT101B, WT116B, WT117B, WT118B, WTE1 |
| Number of Samples | 12 | 6 | 4 | 3 | 7 | 5 | 6 | 5 |
| Number of Detects | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| Range of Detected Concentrations (µg/L) | 1 to 19 | NA | 2 | NA | 2 | NA | NA | NA |
| Sample Quantitation Limits for Nondetect Samples (µg/L) | 5 to 10 | 10 | 5 to 10 | 10 | 5 to 10 | 10 | 5 to 10 | 10 |

Notes:

NA: Not applicable

[1]Data based on ENVIRON's review of the analytical results found in Tables B-1 and B-19 of the Remedial Investigation Report (Volume 4 SEC Donohue, 1992). ENVIRON noted several discrepancies between its summary of the analytical data and Life Systems' summary of the analytical data found in Tables A1-3, A4-8, A4-9, and A4-10 (Volume 5 SEC Donohue, 1992).

**TABLE 5**

**Summary of Analytical Data for Total Arsenic in Groundwater Monitoring Wells, Himco Landfill[1]**

| | Background Wells | | On Landfill Wells | | South Landfill (Shallow Wells) | | South Landfill (Deep Wells) | |
|---|---|---|---|---|---|---|---|---|
| Sampling Information | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data |
| Well IDs | WT102A, WT102B, WT102C, WTB1, WTB2, WTB3, WTB4 | WT102A, WT102B, WT112A, WT112B, WT113A, WT113B | WT103A, WTCP1 | WT01, WT114A, WT114B | WT101A, WT111A, WTE2, WTM2 | WT101A, WT111A, WT115A, WT116A, WT117A | WT101B, WT101C, WTE3, WTM1 | WT101B, WT116B, WT117B, WT118B, WTE1 |
| Number of Samples | 12 | 6 | 4 | 3 | 7 | 5 | 6 | 5 |
| Number of Detects | 3 | 1 | 2 | 2 | 6 | 1 | 5 | 0 |
| Range of Detected Concentrations (µg/L) | 4.0 to 5.8 | 4.8 | 2.2 to 3.9 | 18.5 to 23.3 | 2.7 to 54.5 | 7.8 | 3.8 to 9.1 | NA |
| Sample Quantitation Limits for Nondetect Samples (µg/L) | 1 to 3 | 3.8 | 3 | 3.8 | 3.0 | 3.8 | 2.0 | 3.8 |

**Notes:**

NA: Not applicable

[1]Data based on ENVIRON's review of the analytical results found in Tables B-1, B-2, B-3, B-19, B-20, and B-21 of the Remedial Investigation Report (Volume 4 SEC Donohue, 1992). ENVIRON noted several discrepancies between its summary of the analytical data and Life Systems' summary of the analytical data found in Tables A4-8, A4-9, A4-10 (Volume 5 SEC Donohue, 1992).

**TABLE 6**

**Summary of Analytical Data for Total Beryllium in Groundwater Monitoring Wells, Himco Landfill[1]**

| | Background Wells | | On Landfill Wells | | South Landfill (Shallow Wells) | | South Landfill (Deep Wells) | |
|---|---|---|---|---|---|---|---|---|
| Sampling Information | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data |
| Well IDs | WT102A, WT102B, WT102C, WTB1, WTB2, WTB3, WTB4 | WT102A, WT102B, WT112A, WT112B, WT113A, WT113B | WT103A, WTCP1 | WT01, WT114A, WT114B | WT101A, WT111A, WTE2, WTM2 | WT101A, WT111A, WT115A, WT116A, WT117A | WT101B, WT101C, WTE3, WTM1 | WT101B, WT116B, WT117B, WT118B, WTE1 |
| Number of Samples | 12 | 6 | 4 | 3 | 7 | 5 | 6 | 5 |
| Number of Detects | 2 | 2 | 0 | 0 | 2 | 0 | 0 | 2 |
| Range of Detected Concentrations (µg/L) | 1.2 to 3.1 | 0.5 to 1.3 | NA | NA | 1 to 5.4 | NA | NA | 0.92 to 1.1 |
| Sample Quantitation Limits for Nondetect Samples (µg/L) | 1.0 to 3.0 | 0.4 | 1 to 3 | 0.4 | 1.0 to 3.0 | 0.4 | 1.0 to 3.0 | 0.4 |

Notes:

NA: Not applicable

[1]Data based on ENVIRON's review of the analytical results found in Tables B-1, B-2, B-3, B-19, B-20, and B-21 of the Remedial Investigation Report (Volume 4 SEC Donohue, 1992). ENVIRON noted several discrepancies between its summary of the analytical data and Life Systems' summary of the analytical data found in Tables A4-8, A4-9, A4-10 (Volume 5 SEC Donohue, 1992).

**TABLE 7**

**Summary of Analytical Data for Bis(2-ethylhexyl)phthalate in Groundwater Monitoring Wells, Himco Landfill[1]**

| | Background Wells | | On Landfill Wells | | South Landfill (Shallow Wells) | | South Landfill (Deep Wells) | |
|---|---|---|---|---|---|---|---|---|
| Sampling Information | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data |
| Well IDs | WT102A, WT102B, WT102C, WTB1, WTB2, WTB3, WTB4 | WT102A, WT102B, WT112A, WT112B, WT113A, WT113B | WT103A, WTCP1 | WT01, WT114A, WT114B | WT101A, WT111A, WTE2, WTM2 | WT101A, WT111A, WT115A, WT116A, WT117A | WT101B, WT101C, WTE3, WTM1 | WT101B, WT116B, WT117B, WT118B, WTE1 |
| Number of Samples | 12 | 6 | 4 | 3 | 7 | 5 | 6 | 5 |
| Number of Detects | 4 | 0 | 1 | 1 | 2 | 4 | 2 | 1 |
| Range of Detected Concentrations (µg/L) | 3 to 32 | NA | 2 | 13 | 16 to 110 | 0.3 to 15 | 3 | 3 |
| Sample Quantitation Limits for Nondetect Samples (µg/L) | 10 | 10 | 10 | 10 | 10 to 11 | 10 | 10 | 10 |

Notes:

NA: Not applicable

[1]Data based on ENVIRON's review of the analytical results found in Tables B-2 and B-20 of the Remedial Investigation Report (Volume 4 SEC Donohue, 1992). ENVIRON noted several discrepancies between its summary of the analytical data and Life Systems' summary of the analytical data found in Tables A4-8, A4-9, A4-10 (Volume 5 SEC Donohue, 1992).

**TABLE 8**

**Summary of Analytical Data for Trichloroethene in Groundwater Monitoring Wells, Himco Landfill[1]**

| | Background Wells | | On Landfill Wells | | South Landfill (Shallow Wells) | | South Landfill (Deep Wells) | |
|---|---|---|---|---|---|---|---|---|
| Sampling Information | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data |
| Well IDs | WT102A, WT102B, WT102C, WTB1, WTB2, WTB3, WTB4 | WT102A, WT102B, WT112A, WT112B, WT113A, WT113B | WT103A, WTCP1 | WT01, WT114A, WT114B | WT101A, WT111A, WTE2, WTM2 | WT101A, WT111A, WT115A, WT116A, WT117A | WT101B, WT101C, WTE3, WTM1 | WT101B, WT116B, WT117B, WT118B, WTE1 |
| Number of Samples | 12 | 6 | 4 | 3 | 7 | 5 | 6 | 5 |
| Number of Detects | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Range of Detected Concentrations (µg/L) | 2 | NA | NA | NA | NA | 0.9 | NA | NA |
| Sample Quantitation Limits for Nondetect Samples (µg/L) | 5 to 10 | 10 | 5 to 10 | 10 | 5 to 10 | 10 | 5 to 10 | 10 |

Notes:

NA: Not applicable

[1]Data based on ENVIRON's review of the analytical results found in Tables B-1 and B-19 of the Remedial Investigation Report (Volume 4 SEC Donohue, 1992). ENVIRON noted several discrepancies between its summary of the analytical data and Life Systems' summary of the analytical data found in Tables A1-3, A4-8, A4-9, and A4-10 (Volume 5 SEC Donohue, 1992).

TABLE 9

Summary of Analytical Data for Carbazole in Groundwater Monitoring Wells, Himco Landfill[1]

| | Background Wells | | On Landfill Wells | | South Landfill (Shallow Wells) | | South Landfill (Deep Wells) | |
|---|---|---|---|---|---|---|---|---|
| Sampling Information | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data |
| Well IDs | WT102A, WT102B, WT102C, WTB1, WTB2, WTB3, WTB4 | WT102A, WT102B, WT112A, WT112B, WT113A, WT113B | WT103A, WTCP1 | WT01, WT114A, WT114B | WT101A, WT111A, WTE2, WTM2 | WT101A, WT111A, WT115A, WT116A, WT117A | WT101B, WT101C, WTE3, WTM1 | WT101B, WT116B, WT117B, WT118B, WTE1 |
| Number of Samples | 6 | 6 | 1 | 3 | 4 | 5 | 4 | 5 |
| Number of Detects | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Range of Detected Concentrations (µg/L) | NA | NA | NA | NA | NA | 6 | NA | NA |
| Sample Quantitation Limits for Nondetect Samples (µg/L) | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |

Notes:

NA: Not applicable

[1]Data based on ENVIRON's review of the analytical results found in Tables B-3 and B-21 of the Remedial Investigation Report (Volume 4 SEC Donohue, 1992). ENVIRON noted several discrepancies between its summary of the analytical data and Life Systems' summary of the analytical data found in Tables A1-3, A4-8, A4-9, and A4-10 (Volume 5 SEC Donohue, 1992).

**TABLE 10**

**Summary of Analytical Data for Benzene in Groundwater Monitoring Wells, Himco Landfill[1]**

| Sampling Information | Background Wells | | On Landfill Wells | | South Landfill (Shallow Wells) | | South Landfill (Deep Wells) | |
|---|---|---|---|---|---|---|---|---|
| | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data |
| Well IDs | WT102A, WT102B, WT102C, WTB1, WTB2, WTB3, WTB4 | WT102A, WT102B, WT112A, WT112B, WT113A, WT113B | WT103A, WTCP1 | WT01, WT114A, WT114B | WT101A, WT111A, WTE2, WTM2 | WT101A, WT111A, WT115A, WT116A, WT117A | WT101B, WT101C, WTE3, WTM1 | WT101B, WT116B, WT117B, WT118B, WTE1 |
| Number of Samples | 12 | 6 | 4 | 3 | 7 | 5 | 6 | 5 |
| Number of Detects | 0 | 0 | 1 | 1 | 2 | 2 | 0 | 0 |
| Range of Detected Concentrations (µg/L) | NA | NA | 0.9 | 2 | 1 to 3 | 1 to 15 | NA | NA |
| Sample Quantitation Limits for Nondetect Samples (µg/L) | 5 to 10 | 10 | 5 to 10 | 10 | 5 to 10 | 10 | 5 to 10 | 10 |

Notes:

NA: Not applicable

[1]Data based on ENVIRON's review of the analytical results found in Tables B-1, B-2, B-3, B-19, B-20, and B-21 of the Remedial Investigation Report (Volume 4 SEC Donohue, 1992). ENVIRON noted several discrepancies between its summary of the analytical data and Life Systems' summary of the analytical data found in Tables A4-8, A4-9, A4-10 (Volume 5 SEC Donohue, 1992).

**TABLE 11**

**Summary of Analytical Data for Chlorobenzene in Groundwater Monitoring Wells, Himco Landfill[1]**

| | Background Wells | | On Landfill Wells | | South Landfill (Shallow Wells) | | South Landfill (Deep Wells) | |
|---|---|---|---|---|---|---|---|---|
| Sampling Information | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data |
| Well IDs | WT102A, WT102B, WT102C, WTB1, WTB2, WTB3, WTB4 | WT102A, WT102B, WT112A, WT112B, WT113A, WT113B | WT103A, WTCP1 | WT01, WT114A, WT114B | WT101A, WT111A, WTE2, WTM2 | WT101A, WT111A, WT115A, WT116A, WT117A | WT101B, WT101C, WTE3, WTM1 | WT101B, WT116B, WT117B, WT118B, WTE1 |
| Number of Samples | 12 | 6 | 4 | 3 | 7 | 5 | 6 | 5 |
| Number of Detects | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Range of Detected Concentrations (µg/L) | NA | NA | 0.9 | NA | NA | NA | NA | NA |
| Sample Quantitation Limits for Nondetect Samples (µg/L) | 5 to 10 | 10 | 5 to 10 | 10 | 5 to 10 | 10 | 5 to 10 | 10 |

Notes:

NA: Not applicable

[1]Data based on ENVIRON's review of the analytical results found in Tables B-3 and B-21 of the Remedial Investigation Report (Volume 4 SEC Donohue, 1992). ENVIRON noted several discrepancies between its summary of the analytical data and Life Systems' summary of the analytical data found in Tables A1-3, A4-8, A4-9, and A4-10 (Volume 5 SEC Donohue, 1992).

**TABLE 12**

**Summary of Analytical Data for Total Antimony in Groundwater Monitoring Wells, Himco Landfill[1]**

| | Background Wells | | On Landfill Wells | | South Landfill (Shallow Wells) | | South Landfill (Deep Wells) | |
|---|---|---|---|---|---|---|---|---|
| Sampling Information | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data |
| Well IDs | WT102A, WT102B, WT102C, WTB1, WTB2, WTB3, WTB4 | WT102A, WT102B, WT112A, WT112B, WT113A, WT113B | WT103A, WTCP1 | WT01, WT114A, WT114B | WT101A, WT111A, WTE2, WTM2 | WT101A, WT111A, WT115A, WT116A, WT117A | WT101B, WT101C, WTE3, WTM1 | WT101B, WT116B, WT117B, WT118B, WTE1 |
| Number of Samples | 12 | 6 | 4 | 3 | 7 | 5 | 6 | 5 |
| Number of Detects | 2 | 2 | 0 | 0 | 1 | 1 | 2 | 0 |
| Range of Detected Concentrations (µg/L) | 36 to 48.7 | 21.7 to 29.7 | NA | NA | 36.2 | 2.9 | 46.8 to 47.9 | NA |
| Sample Quantitation Limits for Nondetect Samples (µg/L) | 13 to 37 | 12.8 | 13 to 31 | 12.8 | 13 to 31 | 12.8 | 13 | 1.9 to 12.8 |

Notes:

NA: Not applicable

[1]Data based on ENVIRON's review of the analytical results found in Tables B-3 and B-21 of the Remedial Investigation Report (Volume 4 SEC Donohue, 1992). ENVIRON noted several discrepancies between its summary of the analytical data and Life Systems' summary of the analytical data found in Tables A1-3, A4-8, A4-9, and A4-10 (Volume 5 SEC Donohue, 1992).

**TABLE 13**

**Summary of Analytical Data for Total Barium in Groundwater Monitoring Wells, Himco Landfill[1]**

| Sampling Information | Background Wells | | On Landfill Wells | | South Landfill (Shallow Wells) | | South Landfill (Deep Wells) | |
|---|---|---|---|---|---|---|---|---|
| | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data |
| Well IDs | WT102A, WT102B, WT102C, WTB1, WTB2, WTB3, WTB4 | WT102A, WT102B, WT112A, WT112B, WT113A, WT113B | WT103A, WTCP1 | WT01, WT114A, WT114B | WT101A, WT111A, WTE2, WTM2 | WT101A, WT111A, WT115A, WT116A, WT117A | WT101B, WT101C, WTE3, WTM1 | WT101B, WT116B, WT117B, WT118B, WTE1 |
| Number of Samples | 12 | 6 | 4 | 3 | 7 | 5 | 6 | 5 |
| Number of Detects | 12 | 6 | 4 | 3 | 7 | 5 | 6 | 5 |
| Range of Detected Concentrations (µg/L) | 22.5 to 124 | 14.3 to 92.5 | 27.6 to 79.6 | 74.3 to 237 | 49.4 to 250 | 50.1 to 136 | 75 to 222 | 35.8 to 347 |
| Sample Quantitation Limits for Nondetect Samples (µg/L) | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:

NA: Not applicable

[1]Data based on ENVIRON's review of the analytical results found in Tables B-3 and B-21 of the Remedial Investigation Report (Volume 4 SEC Donohue, 1992). ENVIRON noted several discrepancies between its summary of the analytical data and Life Systems' summary of the analytical data found in Tables A1-3, A4-8, A4-9, and A4-10 (Volume 5 SEC Donohue, 1992).

**TABLE 14**

**Summary of Analytical Data for Total Chromium in Groundwater Monitoring Wells, Himco Landfill[1]**

| | Background Wells | | On Landfill Wells | | South Landfill (Shallow Wells) | | South Landfill (Deep Wells) | |
|---|---|---|---|---|---|---|---|---|
| Sampling Information | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data |
| Well IDs | WT102A, WT102B, WT102C, WTB1, WTB2, WTB3, WTB4 | WT102A, WT102B, WT112A, WT112B, WT113A, WT113B | WT103A, WTCP1 | WT01, WT114A, WT114B | WT101A, WT111A, WTE2, WTM2 | WT101A, WT111A, WT115A, WT116A, WT117A | WT101B, WT101C, WTE3, WTM1 | WT101B, WT116B, WT117B, WT118B, WTE1 |
| Number of Samples | 12 | 6 | 4 | 3 | 7 | 5 | 6 | 5 |
| Number of Detects | 4 | 2 | 1 | 0 | 4 | 2 | 2 | 2 |
| Range of Detected Concentrations (µg/L) | 2.8 to 24.6 | 5.6 to 23.9 | 7.9 | NA | 2.2 to 133 | 4.2 to 7.1 | 2.8 to 7.7 | 14.4 to 20.6 |
| Sample Quantitation Limits for Nondetect Samples (µg/L) | 2 to 6 | 4 | 5 to 6 | 4 | 2 to 6 | 4 | 2 to 6 | 4 |

Notes:

NA: Not applicable

[1]Data based on ENVIRON's review of the analytical results found in Tables B-3 and B-21 of the Remedial Investigation Report (Volume 4 SEC Donohue, 1992). ENVIRON noted several discrepancies between its summary of the analytical data and Life Systems' summary of the analytical data found in Tables A1-3, A4-8, A4-9, and A4-10 (Volume 5 SEC Donohue, 1992).

**TABLE 15**

**Summary of Analytical Data for Total Silver in Groundwater Monitoring Wells, Himco Landfill[1]**

| Sampling Information | Background Wells | | On Landfill Wells | | South Landfill (Shallow Wells) | | South Landfill (Deep Wells) | |
|---|---|---|---|---|---|---|---|---|
| | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data |
| Well IDs | WT102A, WT102B, WT102C, WTB1, WTB2, WTB3, WTB4 | WT102A, WT102B, WT112A, WT112B, WT113A, WT113B | WT103A, WTCP1 | WT01, WT114A, WT114B | WT101A, WT111A, WTE2, WTM2 | WT101A, WT111A, WT115A, WT116A, WT117A | WT101B, WT101C, WTE3, WTM1 | WT101B, WT116B, WT117B, WT118B, WTE1 |
| Number of Samples | 12 | 6 | 4 | 3 | 7 | 5 | 6 | 5 |
| Number of Detects | 2 | 2 | 3 | 0 | 1 | 0 | 2 | 2 |
| Range of Detected Concentrations (µg/L) | 7.7 to 9 | 4.9 to 19.5 | 6.9 | NA | 18.4 | NA | 11.2 to 11.6 | 10.9 to 18.2 |
| Sample Quantitation Limits for Nondetect Samples (µg/L) | 2 to 7 | 2.5 | 2 to 7 | 2.5 | 2 to 7.7 | 2.5 | 2 | 2.5 |

Notes:

NA: Not applicable

[1]Data based on ENVIRON's review of the analytical results found in Tables B-3 and B-21 of the Remedial Investigation Report (Volume 4 SEC Donohue, 1992). ENVIRON noted several discrepancies between its summary of the analytical data and Life Systems' summary of the analytical data found in Tables A1-3, A4-8, A4-9, and A4-10 (Volume 5 SEC Donohue, 1992).

**TABLE 16**

**Summary of Analytical Data for Total Vanadium in Groundwater Monitoring Wells, Himco Landfill[1]**

| | Background Wells | | On Landfill Wells | | South Landfill (Shallow Wells) | | South Landfill (Deep Wells) | |
|---|---|---|---|---|---|---|---|---|
| Sampling Information | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data |
| Well IDs | WT102A, WT102B, WT102C, WTB1, WTB2, WTB3, WTB4 | WT102A, WT102B, WT112A, WT112B, WT113A, WT113B | WT103A, WTCP1 | WT01, WT114A, WT114B | WT101A, WT111A, WTE2, WTM2 | WT101A, WT111A, WT115A, WT116A, WT117A | WT101B, WT101C, WTE3, WTM1 | WT101B, WT116B, WT117B, WT118B, WTE1 |
| Number of Samples | 12 | 6 | 4 | 3 | 7 | 5 | 6 | 5 |
| Number of Detects | 3 | 4 | 3 | 3 | 5 | 3 | 4 | 2 |
| Range of Detected Concentrations (µg/L) | 8.5 to 26.8 | 9.6 to 26.5 | 5.2 to 12.5 | 6.9 to 23.2 | 4.5 to 106 | 10.1 to 20.9 | 3.0 to 12.1 | 17.8 to 18.8 |
| Sample Quantitation Limits for Nondetect Samples (µg/L) | 2.0 to 8.5 | 4.5 | 3 | NA | 3 to 12.2 | 4.5 | 2 | 4.5 |

Notes:

NA: Not applicable

[1]Data based on ENVIRON's review of the analytical results found in Tables B-3 and B-21 of the Remedial Investigation Report (Volume 4 SEC Donohue, 1992). ENVIRON noted several discrepancies between its summary of the analytical data and Life Systems' summary of the analytical data found in Tables A1-3, A4-8, A4-9, and A4-10 (Volume 5 SEC Donohue, 1992).

TABLE 17

Summary of Analytical Data for Carbon Disulfide in Groundwater Monitoring Wells, Himco Landfill[1]

| | Background Wells | | On Landfill Wells | | South Landfill (Shallow Wells) | | South Landfill (Deep Wells) | |
|---|---|---|---|---|---|---|---|---|
| Sampling Information | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data |
| Well IDs | WT102A, WT102B, WT102C, WTB1, WTB2, WTB3, WTB4 | WT102A, WT102B, WT112A, WT112B, WT113A, WT113B | WT103A, WTCP1 | WT01, WT114A, WT114B | WT101A, WT111A, WTE2, WTM2 | WT101A, WT111A, WT115A, WT116A, WT117A | WT101B, WT101C, WTE3, WTM1 | WT101B, WT116B, WT117B, WT118B, WTE1 |
| Number of Samples | 12 | 6 | 4 | 3 | 7 | 5 | 6 | 5 |
| Number of Detects | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 |
| Range of Detected Concentrations (µg/L) | NA | NA | NA | 0.7 to 2 | NA | NA | NA | 2 |
| Sample Quantitation Limits for Nondetect Samples (µg/L) | 5 to 10 | 10 | 5 to 10 | 10 | 5 to 10 | 10 | 5 to 10 | 10 |

Notes:

NA: Not applicable

[1]Data based on ENVIRON's review of the analytical results found in Tables B-1 and B-19 of the Remedial Investigation Report (Volume 4 SEC Donohue, 1992). ENVIRON noted several discrepancies between its summary of the analytical data and Life Systems' summary of the analytical data found in Tables A1-3, A4-8, A4-9, and A4-10 (Volume 5 SEC Donohue, 1992).

**TABLE 18**

**Summary of Analytical Data for Total Cadmium in Groundwater Monitoring Wells, Himco Landfill[1]**

| | Background Wells | | On Landfill Wells | | South Landfill (Shallow Wells) | | South Landfill (Deep Wells) | |
|---|---|---|---|---|---|---|---|---|
| Sampling Information | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data |
| Well IDs | WT102A, WT102B, WT102C, WTB1, WTB2, WTB3, WTB4 | WT102A, WT102B, WT112A, WT112B, WT113A, WT113B | WT103A, WTCP1 | WT01, WT114A, WT114B | WT101A, WT111A, WTE2, WTM2 | WT101A, WT111A, WT115A, WT116A, WT117A | WT101B, WT101C, WTE3, WTM1 | WT101B, WT116B, WT117B, WT118B, WTE1 |
| Number of Samples | 12 | 6 | 4 | 3 | 7 | 5 | 6 | 5 |
| Number of Detects | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 |
| Range of Detected Concentrations (µg/L) | NA | NA | NA | 1.7 | 3.0 | 1.1 | 2.4 | NA |
| Sample Quantitation Limits for Nondetect Samples (µg/L) | 1 to 5 | 1.1 | 1 to 5 | 1.1 | 1 to 5 | 1.1 | 1 to 5 | 1.1 |

Notes:

NA: Not applicable

[1]Data based on ENVIRON's review of the analytical results found in Tables B-3 and B-21 of the Remedial Investigation Report (Volume 4 SEC Donohue, 1992). ENVIRON noted several discrepancies between its summary of the analytical data and Life Systems' summary of the analytical data found in Tables A1-3, A4-8, A4-9, and A4-10 (Volume 5 SEC Donohue, 1992).

**TABLE 19**

**Summary of Analytical Data for Nitrogen, Nitrate, and Nitrite in Groundwater Monitoring Wells, Himco Landfill[1]**

| | Background Wells | | On Landfill Wells | | South Landfill (Shallow Wells) | | South Landfill (Deep Wells) | |
|---|---|---|---|---|---|---|---|---|
| Sampling Information | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data | RI Sampling Data | New Sampling Data |
| Well IDs | WT102A, WT102B, WT102C, WTB1, WTB2, WTB3, WTB4 | WT102A, WT102B, WT112A, WT112B, WT113A, WT113B | WT103A, WTCP1 | WT01, WT114A, WT114B | WT101A, WT111A, WTE2, WTM2 | WT101A, WT111A, WT115A, WT116A, WT117A | WT101B, WT101C, WTE3, WTM1 | WT101B, WT116B, WT117B, WT118B, WTE1 |
| Number of Samples | 8 | NA | 1 | NA | 5 | NA | 5 | NA |
| Number of Detects | 2 | NA | 0 | NA | 4 | NA | 1 | NA |
| Range of Detected Concentrations (µg/L) | 5,500 to 6,900 | NA | NA | NA | 50 to 280 | NA | 480 | NA |
| Sample Quantitation Limits for Nondetect Samples (µg/L) | 20 to 40,100 | NA | 20 | NA | 40,100 | NA | 20 | NA |

Notes:

NA: Not applicable

[1]Data based on ENVIRON's review of the analytical results found in Tables B-5 and B-23 of the Remedial Investigation Report (Volume 4 SEC Donohue, 1992). ENVIRON noted several discrepancies between its summary of the analytical data and Life Systems' summary of the analytical data found in Tables A1-3, A4-8, A4-9, and A4-10 (Volume 5 SEC Donohue, 1992).

**TABLE 20**

**Excess Lifetime Cancer Risk (LCR) Values Estimated by Life Systems for Four Hypothetical Locations of Ground Water Exposure**

| Detection Group | Chemical of Potential Concern | LCR Values for Respective Groundwater Exposure Locations | | | |
|---|---|---|---|---|---|
| | | Background[1] | On Landfill[2] | South Landfill (Shallow)[3] | South Landfill (Deep)[4] |
| Background only | Bromodichloromethane | 8.06E-06 | 3.02E-05 | 7.04E-06 | 7.03E-06 |
| **Group Subtotal** | | **8.06E-06** | **3.02E-05** | **7.04E-06** | **7.03E-06** |
| Background, leachate and any well | Bis(2 ethylhexyl)phthalate | 4.40E-06 | 3.10E-06 | 8.20E-06 | 5.10E-07 |
| | Chloroform | 8.31E-06 | 6.20E-05 | 8.30E-06 | 7.30E-06 |
| | Methylene Chloride | 1.51E-06 | 2.81E-05 | 2.71E-07 | 6.02E-07 |
| | Trichloroethene | 7.10E-07 | 6.04E-05 | 1.21E-06 | 1.21E-06 |
| | Arsenic, total | 9.01E-05 | 3.00E-04 | 5.01E-04 | 1.00E-04 |
| | Beryllium, total | 5.00E-04 | 2.00E-01 | 2.00E-04 | 1.80E-04 |
| **Group Subtotal** | | **6.05E-04** | **2.00E-01** | **7.18E-04** | **2.90E-04** |
| Soil only | 1,1-Dichloroethene | 0.00E+00 | 2.92E-04 | 5.05E-05 | 5.04E-05 |
| | 1,4-Dichlorobenzene | 0.00E+00 | 2.10E-06 | 1.08E-06 | 1.08E-06 |
| | 4,4-DDE | NA | 1.30E-06 | 1.10E-06 | 2.40E-07 |
| **Group Subtotal** | | **0.00E+00** | **2.95E-04** | **5.27E-05** | **5.17E-05** |
| Leachate only | 4,4-DDT | 0.00E+00 | 1.40E-06 | 2.70E-07 | 2.70E-07 |
| | Aldrin | NA | 2.00E-05 | 5.01E-06 | 5.01E-06 |
| | Benzo[a]pyrene | 0.00E+00 | 5.00E-04 | 7.00E-04 | 7.00E-04 |
| | Benzo[b]fluoranthene | 0.00E+00 | 7.00E-04 | 7.00E-04 | 7.00E-04 |
| | Benzo[k]fluoranthene | 0.00E+00 | 3.00E-04 | 7.00E-04 | 7.00E-04 |
| | Chrysene | 0.00E+00 | 5.00E-04 | 7.00E-04 | 7.00E-04 |
| | Indeno[1,2,3 cd]pyrene | 0.00E+00 | 3.00E-04 | 7.00E-04 | 7.00E-04 |
| | Styrene | 0.00E+00 | 1.15E-06 | 2.28E-06 | 2.28E-06 |
| | Tetrachloroethene | 0.00E+00 | 1.15E-05 | 3.30E-06 | 3.30E-06 |
| | Vinyl Chloride | NA | 8.04E-04 | 1.31E-04 | 1.31E-04 |
| | alpha Chlordane | NA | 3.30E-05 | 2.30E-05 | 3.30E-05 |
| | beta BHC | NA | 1.02E-06 | 5.10E-07 | 5.09E-07 |
| | Dieldrin | NA | 1.02E-05 | 4.06E-05 | 9.10E-06 |
| | gamma Chlordane | NA | 4.40E-07 | 3.30E-06 | 3.30E-06 |
| | Heptachlor | NA | 3.03E-06 | 1.01E-06 | 1.01E-06 |
| **Group Subtotal** | | **0.00E+00** | **3.19E-03** | **3.71E-03** | **3.69E-03** |
| Leachate and any well | Benzene | 0.00E+00 | 4.03E-05 | 3.02E-06 | 4.03E-06 |
| **Group Subtotal** | | **0.00E+00** | **4.03E-05** | **3.02E-06** | **4.03E-06** |
| **Grand Total** | | **6.13E-04** | **2.04E-01** | **4.49E-03** | **4.04E-03** |

[1]Data based on two samples taken at each of seven wells: WB1, WB2, WB3, WB4, WTP102A, WTP102B, WTP103C. Risks compiled from Appendix 5, pp. A5-230 and A5-231 (Volume 5, SEC Donohue, 1992).

[2]Data based on one leachate sample taken at trench TL1, one at trench TL2, either one or two at trench TL4, and two groundwater monitoring well samples each taken at wells WTCP-1 and WT-103A. Risks compiled from Appendix 5, pp. A5-128 and A5-129 (Volume 5, SEC Donohue, 1992).

[3]Data based on one sample taken at well WT-101A and two samples taken at each of three wells: WTE-2, WTM-2 and WT-111A. Risks compiled from Appendix 5, pp. A5-156 and A5-157 (Volume 5, SEC Donohue, 1992).

[4]Data based on one sample taken at well WTE-3 and two samples taken at each of three wells: WTM-1, WT-101B and WT-101C. Risks compiled from Appendix 5, pp. A5-201 and A5-202 (Volume 5, SEC Donohue, 1992).

**TABLE 21**

**Noncancer Hazard Quotient (HQ) Values Estimated by Life Systems for Four Hypothetical Locations of Ground Water Exposure**

| Detection Group | Chemical of Potential Concern | Non-Cancer HQ Values for Respective Groundwater Exposure Locations | | | |
|---|---|---|---|---|---|
| | | Background[1] | On Landfill[2] | South Landfill (Shallow)[3] | South Landfill (Deep)[4] |
| Background and any well | Nitrite/Nitrate[5] | 2 | 0.0 | 5 | 0.1001 |
| **Group Subtotal** | | **2** | **0.0** | **5** | **0.1001** |
| Background, leachate and any well | Antimony, Total | 3 | 406 | 1 | 2 |
| | Barium, Total | 0.071 | 0.0303 | 0.0706 | 0.0807 |
| | Chromium, Total | 0.104 | 20 | 0.306 | 0.0407 |
| | Silver, Total | 0.083 | 0.0305 | 0.0508 | 0.0407 |
| | Vanadium, Total | 0.054 | 9 | 0.208 | 0.042 |
| **Group Subtotal** | | **3** | **436** | **2** | **2** |
| Leachate only | Carbon Disulfide | 0.0 | 1 | 0.09103 | 0.08103 |
| **Group Subtotal** | | **0.0** | **1** | **0.09103** | **0.08103** |
| Leachate and any well | Cadmium, Total | 0.0 | 60 | 0.1009 | 0.1009 |
| **Group Subtotal** | | **0.0** | **60** | **0.1009** | **0.1009** |
| Any well | Chlorobenzene | 0.0 | 0.02208 | 0.0572 | 0.0562 |
| **Group Subtotal** | | **0.0** | **0.02208** | **0.0572** | **0.0562** |
| **Grand Total** | | **5** | **497** | **7** | **3** |

[1]Data based on two samples taken at each of seven wells: WB1, WB2, WB3, WB4, WTP102A, WTP102B, WTP103C. Risks compiled from Appendix 5, pp. A5-230 and A5-231 (Volume 5, SEC Donohue, 1992).

[2]Data based on one leachate sample taken at trench TL1, one at trench TL2, either one or two at trench TL4, and two groundwater monitoring well samples each taken at wells WTCP-1 and WT-103A. Risks compiled from Appendix 5, pp. A5-128 and A5-129 (Volume 5, SEC Donohue, 1992).

[3]Data based on one sample taken at well WT-101A and two samples taken at each of three wells: WTE-2, WTM-2 and WT-111A. Risks compiled from Appendix 5, pp. A5-156 and A5-157 (Volume 5, SEC Donohue, 1992).

[4]Data based on one sample taken at well WTE-3 and two samples taken at each of three wells: WTM-1, WT-101B and WT-101C. Risks compiled from Appendix 5, pp. A5-201 and A5-202 (Volume 5, SEC Donohue, 1992).

[5]Although leachate was sampled for nitrite/nitrate, sampling results were qualified with an "R" flag indicating that the results are unusable.

# APPENDIX A
# Ground Water Sampling Data
# Obtained by USEPA Region V

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

RECEIVED
JAN 10 1996
R. LENNIE SCOTT

REPLY TO THE ATTENTION OF:

HSR-6J

January 8, 1996

Mr. R. Lennie Scott, P.E., Director
Health, Environment, and Safety
Bayer Corporation
1884 Miles Avenue
Elkhart, Indiana 46515-0040

RE: Sampling Results From the Himco Dump Site

Dear Mr. Scott:

Attached per your request are the data from the September, 1995 round of ground water sampling at the Himco Dump site. As I explained previously, I have been waiting for a table relating the sample numbers to their locations. I also provide a figure from the work plan showing the aproximate well locations.

I apologize for the delay, some of which can be attributed to the recent government shut down. If you have any questions, please call me at 312/353-6083.

Sincerely yours,

Wm. Turpin Ballard

Wm. Turpin Ballard
Remedial Project Manager

Recycled/Recyclable • Printed with Vegetable Oil Based Inks on 100% Recycled Paper (40% Postconsumer)

## ORGANIC DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature utinized in this document, the following code letters and associated definitions are provide:

VALUE-if the results is a value greater than or equal to the Contract Required Quantitation Limit (CRQL).

U Indicates that the compound was analyzed for, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.

J Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of a compound but the result is less than the sample quantitation limit, but greater than zero. The flag is also used to indicate a reported result having an associated QC problem.

R Indicates the data are unusable. (Note: The analyte may or may not be present.)

N Indicates presumptive evidence of a compound. This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search.

P Indicates a pesticide/Aroclor target analyte when there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two results is reported.

C Indicates pesticide results that have been confirmed by GC/MS.

B Indicates the analyte is detected in the associated blank as well as the sample.

E Indicates compounds whose concentrations exceed the calibration range of the instrument.

D Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.

A Indicates tentatively identified compounds that are suspected to be aldol condensation products.

G Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method.

L Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method.

T Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.

X, Y, Z are reserved for laboratory defined flags.

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**
**REGION V**

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Data Set No: _____ CERCLIS No: IND980500292

Case No: 24033 Site Name Location: Himco Dump

Contractor or EPA Lab: ROSS Data User: SF

No. of Samples: 12 Date Sampled or Data Received: 11-8-95

Have Chain-of-Custody records been received? Yes ✓ No ____
Have traffic reports or packing lists been received? Yes ✓ No ____
If no, are traffic report or packing list numbers written on the chain-of-custody record? Yes ✓ No ____
If no, which traffic report or packing list numbers are missing?

_____ _____ _____ _____

_____ _____ _____ _____

Are basic data forms in? Yes ✓ No ____
No of samples claimed: 12 No. of samples received: 12

Received by: Lynette Burnett Date: 11-8-95

Received by LSSS: Lynette Burnett Date: 11-9-95

Review started: 9 Nov. 1995 Reviewer Signature: Al Venuto

Total time spent on review: 12 hrs. Date review completed: 11-13-95

Copied by: Lynette Burnett Date: 11-17-95

Mailed to user by: Lynette Burnett Date: 11-17-95

**DATA USER:**
Please fill in the blanks below and return this form to:
Sylvia Griffen, Data mgmt. Coordinator, Region V, 5SCRL

Data received by: _____ Date: _____

Data review received by: _____ Date: _____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

**PROBLEMS:** Please indicate reasons why data are not suitable for your uses.

_____

_____

Received by Data Mgmt. Coordinator for Files. Data: _____

# EPA — Organic Traffic Report & Chain of Custody Record

United States Environmental Protection Agency
Contract Laboratory Program

(For Organic CLP Analysis)

SAS No. (if applicable):

Case No.: 24033

1. Matrix (Enter in Column A): 1. Surface Water, 2. Ground Water, 3. Leachate, 4. Field QC, 5. Soil/Sediment, 6. Oil (High only), 7. Waste (High only), 8. Other (Specify in Column A)

2. Preservative (Enter in Column D): 1. HCl, 2. HNO3, 3. NaHSO4, 4. H2SO4, 5. Ice only, 6. Other (Specify in Column D), N. Not preserved

| | |
|---|---|
| 2. Region No.: V | Sampling Co.: USACE |
| 4. Date Shipped: 9/25/95 | Carrier: FED EX |
| 6. Date Received -- Received by: 9/26/95 ~Kendra Schelle | |
| Sampler (Name): M. Benak Rhiner | Airbill Number: 687435815 5 |
| Laboratory Contract Number: 68-D5-0024 | Unit Price: $595 |
| Sampler Signature: Rhiner Michelle Benak | 5. Ship To: Ross Analytical Services, INC 16433 Foltz Industrial Pkwy Strongsville, OH 44136 ATTN: Carol Turner |
| 7. Transfer to: | Date Received |
| Received by: | |
| Contract Number | Price |

3. Purpose*: Lead — [X] SF, [ ] PRP, [ ] ST, [ ] FED; Early Action — [ ] CLEM, [ ] PA, [ ] REM, [ ] RI, [ ] SI, [ ] ESI; Long-Term Action — [ ] FS, [X] RD, [ ] RA, [ ] O&M, [ ] NPLD

| CLP Sample Numbers (from labels) | A Matrix (from Box 1) / Other | B Conc.: Low Med High | C Sample Type: Comp / Grab | D Preservative (from Box 2) / Other | E RAS Analysis: VOA | BNA | Pest/PCB | High only: ARO/TOX | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K High Phases: Solids | Water-Medium Lvl | Water-Immis. Lvl |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EARR8 | 2 | L | G | 1 | X | | | | 5-190891, 5-190892 | 95CE03K10 | 9/25/95 0740 | | RI | | | |
| EARR3 | 2 | L | G | 1 | X | | | | 5-190786, 5-190787 | 95CE03S25 | 9/25/95 1052 | MEAFH9 | RM | | | |
| EARR3 | 2 | L | G | 1 | X | | | | 5-190794, 5-190795 | 95CE03M02 | 9/25/95 1052 | | RM | | | |
| EARR3 | 2 | L | G | 1 | X | | | | 5-190796, 5-190797 | 95CE03M02 | 9/25/95 1052 | | RM | | | |
| EARR3 | 2 | L | G | 1 | X | | | | 5-190798, 5-190799 | 95CE03M02 | 9/25/95 1052 | | RM | | | |
| EARR4 | 2 | L | G | 1 | X | | | | 5-190655, 5-190813 | 95CE03S27 | 9/25/95 1446 | MEAFJ0 | RM | | | |
| EARR5 | 2 | L | G | 1 | X | | | | 5-190819, 5-190820 | 95CE03D05 | 9/25/95 1200 | MEAFJ1 | RM | | | |
| EARR2 | 2 | L | G | 1 | X | | | | 5-190778, 5-190779 | 95CE03S23 | 9/25/95 1201 | MEAFH8 | RM | | | |
| EARR5 | 2 | L | G | 5 | | | X | | 5-190823, 5-190824 | 95CE03D03 | 9/25/95 1200 | MEAFJ1 | RM | | | |
| EARQ9 | 2 | L | G | 1 | X | | | | 5-190753, 5-190754 | 95CE03S13 | 9/25/95 1501 | MEAFH5 | RM | | | |

Shipment for Case Complete? (Y/N): Y

Page: 1 of 1

Sample(s) to be Used for Laboratory QC: 5-190774, 795, 796, 777, 776 and 779

Additional Sampler Signatures: [illegible]

Chain of Custody Seal Number(s): 41127 41128

## CHAIN OF CUSTODY RECORD

| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
|---|---|---|---|---|---|
| [illegible] | 9/[illegible] 17:00 | | | | |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| | | | | | |
| quished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) | Date / Time | Remarks | Is custody seal intact? Y/N/none |
| | | Kendra Schelle | 9/26/95 1000 | | N |

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to SMO

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AR1-012-4 REV. 3/93

000010

26252

United States Environmental Protection Agency
Contract Laboratory Program

# Or Traffic Report & Chain of Custody Record

For anic CLP Ana sis)

SAS No. (if applicable)

Case No.

1. Ma rix (E ter In olumn A)
1. S ace Water
2. G nd Water
3. L chate
4. Fie d QC
5. S ediment
6. O igh only)
7. (H only)
8. O r (Specify In olumn A)

2. Preservative (Enter In Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify In Column D)
N. Not preserved

2. Sampling Co. USACE

4. Carrier 9 25 95 FED EX

Sampler (Name) 1 ER B

Airbill Number 6874358153

5. Ship To Ross Analytical Services, INC
16433 Foltz Industrial PKY
Strongville, OH 44136
ATTN: ar l T r

6. ate Received -- Received by: 9

y Contract Number DB-D5-0024

Unit Price $59

7. Transfer to:

Date Received

Received by

Contract Number

Price

pose

Action: CLEM, PA, REM, RI, SI

Long-Term

| CLP Sample Numbers (from labels) | A Matrix (from Box 1) Other: | Conc. Low Med High | C Type: Comp Grab | vative (from Box 2) Other: | E RAS Analysis VOA | BNA | Pest/ | AF | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/ Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K Phases Solids | Water-Miscible Liq | Water-Immis. Liq |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | L | G | 5 | | | | | -1 6 80 - 07 1 | 9 23 | 201 | M 48 | RA | | | |
| | 2 | L | | 5 | | | | | 1 | 95CE03523 | | M 8 | 1 | | | |
| | | | | | | | | | -9 22 - | 5CED 3 | 0 | | | | | |
| | 2 | | | | | | | | 5- 5 | 15CE03513 | | MEA | | | | |

for Case Complete? (Y/N) Y

Page 1 of 1

(s) to be Used for Laboratory QC

Additional 5 ... er Signatures ... (Schneyd)

Chain of Custody Seal Number(s) 411 5 41

## CHAIN OF CUSTODY RECORD

| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
|---|---|---|---|---|---|
| Michelle Lunk | 9/25/95 10:30 | | | | |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| | | | | | |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) | Date / Time | Remarks Is custody seal intact? Y/N/none | |
| | | Kendra Scholle | 9/26/95 1000 | | |

TRIBUTION: Blue - Region Copy
White - Lab Copy for Return to Region
Pink - D Copy
Yellow - Lab Copy for Return to

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363865

A21-012-4 REV. 3/93

000011

EPA United States Environmental Protection Agency
Contract Laboratory Program

# Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (if applicable):
Case No.: 24033

1. Matrix (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (Specify in Column A)

2. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. Other (Specify in Column D) N. Not preserved

2. Region No.: V
Sampling Co.: USACE
4. Date Shipped: 9/25/95
Carrier: FED EX
6. Date Received -- Received by: 9/26/95 - Kendra Scholle
Sampler (Name): J. RHINER M. Penak
Airbill Number: 6874358153
Laboratory Contract Number: 68-D5-0024
Unit Price: $595
Sampler Signature: [signature]
5. Ship To: Ross Analytical Services, INC 16433 Foltz Industrial PKY Strongville, OH 44136 ATTN: Carol Turner
7. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

3. Purpose*: Lead: [X] SF [ ] PRP [ ] ST [ ] FED; Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [ ] SI [ ] ESI; Long-Term Action: [ ] FS [X] RD [ ] RA [ ] O&M [ ] NPLD

| CLP Sample Numbers (from labels) | A Matrix (from Box 1) Other | B Conc.: Low Med High | C Sample Type: Comp./Grab | D Preservative (from Box 2) Other | E RAS Analysis: VOA | BNA | Pest/PCB | High only ARO/TOX | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K High Phases: Solids | Water-Miscible Liq. | Water-Immis. Liq. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EARR4 | 2 | L | G | 5 | | X | | | 5-190814, 5-190656 | 95CE03S27 | 9/25/95 1446 | MEAFJ0 | RI | | | |
| EARR4 | 2 | L | G | 5 | | | X | | 5-190815, 5-190816 | 95CE03S27 | 9/25/95 1446 | MEAFJ0 | RI | | | |
| EARQ9 | 2 | L | G | 5 | | X | | | 5-190755, 5-190756 | 95CE03S13 | 9/25/95 1501 | MEAFH5 | RI | | | |
| EARQ9 | 2 | L | G | 5 | | | X | | 5-190758 | 95CE03S13 | 9/25/95 1501 | MEAFH5 | RI | | | |

Shipment for Case Complete? (Y/N): 0
Page: 1 of 1
Sample(s) to be Used for Laboratory QC:
Additional Sampler Signatures: [signature]
Chain of Custody Seal Number(s): 41149 41150

## CHAIN OF CUSTODY RECORD

| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
|---|---|---|---|---|---|
| [signature] | [illegible] | | | | |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| | | | | | |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) Kendra Scholle | Date / Time 9/26/95 1000 | Remarks Is custody seal intact? Y/N/none | |

DISTRIBUTION: Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to SMO

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A21-012-4 REV. 3/93

000012

EPA United States Environmental Protection Agency Contract Laboratory Program

# Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (if applicable)

Case No. 24033

1. Matrix (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (Specify in Column A)

2. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. Other (Specify in Column D) N. Not preserved

2. Region No.: V

Sampling Co.: USACE

4. Date Shipped: 9/25/95

Carrier: FED EX

6. Date Received -- Received by: 9/26/95 · Kendra Scholle

Sampler (Name): J RHINER M. Berak

Airbill Number: 6874358153

Laboratory Contract Number: 68-D5-0024

Unit Price: $595

Sampler Signature: [signature]

3. Purpose*: Lead [X] SF [ ] PRP [ ] ST [ ] FED; Early Action [ ] CLEM [ ] PA [ ] REM [ ] RI [ ] SI [ ] ESI; Long-Term Action [ ] FS [X] RD [ ] RA [ ] O&M [ ] NPLD

5. Ship To: Ross Analytical Services, INC 16433 Foltz Industrial PKY Strongville, OH 44136 ATTN: Carol Turner

7. Transfer to:

Date Received

Received by

Contract Number

Price

| CLP Sample Numbers (from labels) | A Matrix (from Box 1) Other: | B Conc. Low Med High | C Sample Type: Comp./Grab | D Preservative (from Box 2) Other: | E RAS Analysis: VOA | BNA | Pest/PCB | High only ARO/TOX | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K High Phases: Solids | Water-Miscible Liq. | Water-Immis. Liq. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EARR3 | 2 | L | G | 5 | | X | | | 5190803,805,807,808 | 95CE03M02 | 9/25/95 1052 | | RH | | | |
| EARR3 | 2 | L | G | 5 | | | X | | 5-190809, 5-190810 | 95CE03M02 | 9/25/95 1052 | | RH | | | |

Shipment for Case Complete? (Y/N): Y

Page 1 of 1

Sample(s) to be Used for Laboratory QC: 5-190803, 805, 807, 808; 5-190809, 810

Additional Sampler Signatures: [signature] (Schwagel) [signature]

Chain of Custody Seal Number(s): 41141 41142

## CHAIN OF CUSTODY RECORD

| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
|---|---|---|---|---|---|
| [signature] | 9/26/95 1020 | | | | |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| | | | | | |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) Kendra Scholle | Date / Time 9/26/95 1000 | Remarks Is custody seal intact? Y/N/none | |

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to SMO

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A21-012-4 REV. 3/93

000013

# EPA — Organic Traffic Report & Chain of Custody Record

United States Environmental Protection Agency
Contract Laboratory Program

(For Organic CLP Analysis)

SAS No. (If applicable):

Case No.: 24033

1. Matrix (Enter In Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify In Column A)

2. Preservative (Enter In Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify In Column D)
N. Not preserved

2. Region No.: V
Sampling Co.: VSACE
4. Date Shipped: 9/25/95
Carrier: FED EX
6. Date Received -- Received by: 9/26/95 - Kendra Schelle

Sampler (Name): J. RHINER, M. Berak
Airbill Number: 6074358153
Laboratory Contract Number: 68-D5-0024
Unit Price: $595

Sampler Signature: [signature]
5. Ship To: Ross Analytical Services, INC
16433 FOLTZ Industrial PKY
Strongville, OH 44136
ATTN: Carol Turner
7. Transfer to:
Date Received:

3. Purpose*
Lead: SF, PRP, ST, FED
Early Action: CLEM, PA, REM, RI, SI, ESI
Long-Term Action: FS, RD, RA, O&M, NPLD
Received by:
Contract Number:
Price:

| a. CLP Sample Numbers (from labels) | A. Matrix (from Box 1) / Other | B. Conc.: Low Med High | C. Sample Type: Comp./ Grab | D. Preservative (from Box 2) / Other | E. RAS Analysis: VOA | BNA | Pest/PCB | High only ARO/TOX | F. Regional Specific Tracking Number or Tag Numbers | G. Station Location Identifier | H. Mo/Day/ Year/Time Sample Collection | I. Corresponding CLP Inorganic Sample No. | J. Sampler Initials | K. High Phases: Solids | Water-Miscible Liq. | Water-Immis. Liq. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EARR3 | 2 | L | G | 5 | | X | | | 5-190788, 5-190789 | 95CE035259 | 9/25/95 1052 | MEAFH9 | RM | | | |
| EARR3 | 2 | L | G | 5 | | | X | | 5-190790, 5-190791 | 95CE035259 | 9/25/95 1052 | MEAFH9 | RM | | | |
| EARR3 | 2 | L | G | 5 | | | X | | 5-190811, 5-190812 | 95CE035302 | 9/25/95 1052 | | RM | | | |

Shipment for Case Complete? (Y/N): N
Page: 1 of 1
Sample(s) to be Used for Laboratory QC: 5-190811, 812
Additional Sampler Signatures: [signature]
Chain of Custody Seal Number(s): 41139 41140

## CHAIN OF CUSTODY RECORD

| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
|---|---|---|---|---|---|
| [signature] | 9/25/95 1630 | | | | |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| | | | | | |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) | Date / Time | Remarks | Is custody seal intact? Y/N/none |
| | | Kendra Schelle | 9/26/95 1000 | - | N |

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A21-0124 REV. 3/89

000014

262062

# EPA — Organic Traffic Report & Chain of Custody Record

United States Environmental Protection Agency
Contract Laboratory Program

(For Organic CLP Analysis)

SAS No. (If applicable):

Case No.: 24023

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

2. Region No.: V
Sampling Co.: USACE
4. Date Shipped: 9/25/95
Carrier: FED EX
6. Date Received -- Received by: 9/26/95 - Kendra Schoelle

Sampler (Name): J. RHINER, M. Berak
Airbill Number: 6874358153
Laboratory Contract Number: 68-D5-0024
Unit Price: $595

Sampler Signature: [signature]
5. Ship To: Ross Analytical Services, INC
16433 FOLTZ Industrial PKY
Strongville, OH 44136
ATTN: Carol Turner
7. Transfer to:
Date Received:

3. Purpose*
Lead: SF, PRP, ST, FED
Early Action: CLEM, PA, REM, RI, SI, ESI
Long-Term Action: FS, RD, RA, O&M, NPLD

Received by:
Contract Number:
Price:

| CLP Sample Numbers (from labels) | A Matrix (from Box 1) / Other | B Conc. Low Med High | C Sample Type: Comp./Grab | D Preservative (from Box 2) / Other | E RAS Analysis: VOA | BNA | Pest/PCB | High only: ARO/TOX | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K High Phases: Solids | Water-Miscible Liq. | Water-Immis. Liq. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EAAR3 | 2 | L | G | 5 | | X | | | 5-190788, 5-190789 | 95CE03525 | 9/25/95 1052 | MEAFH9 | RM | | | |
| EARR3 | 2 | L | G | 5 | | | X | | 5-190790, 5-190791 | 95CE03525 | 9/25/95 1052 | MEAFH9 | RM | | | |
| EARR3 | 2 | L | G | 5 | | | X | | 5-190811, 5-190812 | 95CE03502 | 9/25/95 1052 | | RM | | | |

Shipment for Case Complete? (Y/N): Y
Page: 1 of 1
Sample(s) to be Used for Laboratory QC: 5-190811, 812
Additional Sampler Signatures: [signature]
Chain of Custody Seal Number(s): 41139 41140

## CHAIN OF CUSTODY RECORD

| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
|---|---|---|---|---|---|
| [signature] | 9/25/95 1630 | | | | |
| | | | | | |
| | | | | | |

| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |

| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) | Date / Time | Remarks | Is custody seal intact? (Y/N/none) |
|---|---|---|---|---|---|
| | | Kendra Schoelle | 9/26/95 1000 | - | |

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363863

000014

# EPA — Organic Traffic Report & Chain of Custody Record

United States Environmental Protection Agency
Contract Laboratory Program

(For Organic CLP Analysis)

SAS No. (if applicable):

Case No.: 24033

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

2. Region No.: V
Sampling Co.: USACE
4. Date Shipped: 9/26/95
Carrier: FED EX
6. Date Received -- Received by: 9/27/95 ~ Kendra Schelle

Sampler (Name): JRHINER M. Benak K
Airbill Number: 6874358131
Laboratory Contract Number: 68-D5-0024
Unit Price: $595

Sampler Signature: JRhiner Michelle Benak
5. Ship To: Ross Analytical Services Inc
16433 Foltz Industrial Pky
Strongville, OH 44136
ATTN: Carol Turner
7. Transfer to:
Date Received:

3. Purpose*
Lead: SF, PRP, ST, FED
Early Action: CLEM, PA, REM, RI, SI, ESI
Long-Term Action: FS, RD, RA, O&M, NPLD

Received by:
Contract Number:
Price:

| CLP Sample Numbers (from labels) | A Matrix (from Box 1) / Other | B Conc.: Low Med High | C Sample Type: Comp / Grab | D Preservative (from Box 2) / Other | E RAS Analysis: VOA | BNA | Pest/PCB | High only: ARO/TOX | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K High Phases: Solids | Water-Miscible Liq. | Water-Immis. Liq. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EARR0 | 2 | L | G | 5 | | X | | | 5-190764, 5-190763 | 95CE03519 | 9/26/95 1020 | MEAFH6 | RM | | | |
| EARR0 | 2 | L | G | 5 | | | X | | 5-190765, 5-190766 | 95CE03519 | 9/26/95 1020 | MEAFH6 | RM | | | |
| EARR6 | 2 | L | G | 5 | | X | | | 5-190829, 5-190830 | 95CE03535 | 9/26/95 1303 | MEAFT2 | RM | | | |

Shipment for Case Complete? (Y/N): O
Page: 1 of 1
Sample(s) to be Used for Laboratory QC:
Additional Sampler Signatures: S. Ritz Lisa (Schmeyer) Steve Parson
Chain of Custody Seal Number(s): 41153, 41154

## CHAIN OF CUSTODY RECORD

| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
|---|---|---|---|---|---|
| Michelle Benak | 9/26/95 18:00 | | | | |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| | | | | | |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) | Date / Time | Remarks: Is custody seal intact? Y/N/none | |
| | | Kendra Schelle | 9/27/95 1000 | | |

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# Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (if applicable):
Case No.: 2403_

1. Matrix (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (Specify in Column A)

2. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. Other (Specify in Column D) N. Not preserved

2. Region No.: V
Sampling Co.: USACE
4. Date Shipped: 9/26/95
Carrier: FED EX
6. Date Received -- Received by: 9/27/95 ~ Kendra Scholle
Sampler (Name): JRHINER M. Benik
Airbill Number: 6874358131
Laboratory Contract Number: 68-D5-0024
Unit Price: $595
Sampler Signature: Rhiner Michelle Benik
5. Ship To: Ross Analytical Services, INC 16433 Foltz Industrial PKY Strongville, OH 44136 ATTN: Carol Turner
7. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

3. Purpose*: Lead: [X] SF [ ] PRP [ ] ST [ ] FED; Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [ ] SI [ ] ESI; Long-Term Action: [ ] FS [X] RD [ ] RA [ ] O&M [ ] NPLD

| CLP Sample Numbers (from labels) | A Matrix (from Box 1) Other: | B Conc.: Low Med High | C Sample Type: Comp./Grab | D Preservative (from Box 2) Other: | E RAS Analysis: VOA | BNA | Pest/PCB | High only ARO/TOX | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K High Phases: Solids | Water-Miscible Liq. | Water-Immis. Liq. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EARR9 | 2 | L | G | 1 | X | | | | 5-190907, 5-190908 | 95CE03R11 | 9/26/95 0800 | | RM | | | |
| EARR0 | 2 | L | G | 1 | X | | | | 5-190761, 5-190762 | 95CE03S19 | 9/26/95 1020 | MEAFH6 | RM | | | |
| EARR1 | 2 | L | G | 1 | X | | | | 5-190769, 5-190770 | 95CE03S21 | 9/26/95 1400 | MEAFH7 | RM | | | |
| EARR6 | 2 | L | G | 1 | X | | | | 5-190827, 5-190828 | 95CE03S35 | 9/26/95 1303 | MEAFJ2 | RM | | | |
| EARQ8 | 2 | L | G | 1 | X | | | | 5-190744, 5-190745 | 95CE03R01 | 9/26/95 1130 | MEAFH4 | RM | | | |
| EARR7 | 2 | L | G | 1 | X | | | | 5-190981, 5-190982 | 95CE03R03 | 9/26/95 1515 | MEAFJ3 | RM | | | |
| EARQ8 | 2 | L | G | 5 | | X | | | 5-190746, 5-190750 | 95CE03R01 | 9/26/95 1130 | MEAFH4 | RM | | | |

Shipment for Case Complete? (Y/N): Y
Page: 1 of 1
Sample(s) to be Used for Laboratory QC:
Additional Sampler Signatures: [signature] C Schnapf [signature]
Chain of Custody Seal Number(s): 41159, 41160

## CHAIN OF CUSTODY RECORD

| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
|---|---|---|---|---|---|
| Michelle Benik | 9/26/95 18:00 | | | | |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| | | | | | |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) | Date / Time | Remarks: Is custody seal intact? Y/N/none | |
| | | Kendra Scholle | 9/27/95 1000 | | |

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# EPA — United States Environmental Protection Agency, Contract Laboratory Program

## Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (if applicable):

Case No.: 24039

1. Matrix (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Field QC
   5. Soil/Sediment
   6. Oil (High only)
   7. Waste (High only)
   8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
   1. HCl
   2. $HNO_3$
   3. $NaHSO_4$
   4. $H_2SO_4$
   5. Ice only
   6. Other (Specify in Column D)
   N. Not preserved

2. Region No.: V — Sampling Co.: USACE

4. Date Shipped: 9/26/95 — Carrier: FED EX

6. Date Received – Received by: 9/27/95 ~ Kendra Schalle

Sampler (Name): JRHINER M.Benak

Airbill Number: 6874358131

Laboratory Contract Number: 68-D5-0024 — Unit Price: $595

Sampler Signature: Michelle Benak

5. Ship To: ROSS Analytical Services, INC. 16433 Foltz Industrial Pkwy Strongville, OH 44136 ATTN: Carol Turner

7. Transfer to: — Date Received:

Received by:

Contract Number: — Price:

3. Purpose*
   - Lead: RF, PRP, ST, FED
   - Early Action: CLEM, PA, REM, RI, SI, ESI
   - Long-Term Action: FS, RD, RA, O&M, NPLD

| CLP Sample Numbers (from labels) | A Matrix (from Box 1) | B Conc.: Low Med High | C Sample Type: Comp / Grab | D Preservative (from Box 2) | E RAS Analysis: VOA | BNA | Pest/PCB | High only ARO/TOX | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K High Phases: Solids | Water-Miscible Liq. | Water-Immis. Liq. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EARR1 | 2 | L | G | 5 | | X | | | 5-190771, 5-190772 | 95CE03521 | 9/26/95 1400 | MEAFH7 | RM | | | |
| EARR1 | 2 | L | G | 5 | | | X | | 5-190773, 5-190774 | 95CE03521 | 9/26/95 1400 | MEAFH7 | RM | | | |
| EARR6 | 2 | L | G | 5 | | | X | | 5-190831, 5-190832 | 95CE03535 | 9/26/95 1303 | MEAFJ2 | RM | | | |

Shipment for Case Complete? (Y/N): N

Page: 1 of 1

Sample(s) to be Used for Laboratory QC:

Additional Sampler Signatures: Jeffrey Rhiner (Signature)

Chain of Custody Seal Number(s): 41155, 41156

### CHAIN OF CUSTODY RECORD

| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
|---|---|---|---|---|---|
| Michelle Benak | 9/26/95 1800 | | | | |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| | | | | | |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) | Date / Time | Remarks: Is custody seal intact? Y/N/none | |
| | | Kendra Schalle | 9/27/95 1000 | | |

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Contract Laboratory Program

# Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (if applicable):
Case No.: 2403

1. Matrix (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (Specify in Column A)

2. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. Other (Specify in Column D) N. Not preserved

2. Region No.: V
Sampling Co.: USACE
4. Date Shipped: 9/26/95
Carrier: FED EX
6. Date Received -- Received by: 9/27/95 ~Kendra Scholle

Sampler (Name): J RHINER M. Penak
Airbill Number: 6874358131
Laboratory Contract Number: 68-D5-0024
Unit Price: $595

Sampler Signature: Rhiner Michelle Benak
5. Ship To: Ross Analytical Services, INC 16433 Foltz Industrial PKY Strongville, OH 44136
ATTN: Carol Turner
7. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

3. Purpose*: Load: [X] SF [ ] PRP [ ] ST [ ] FED; Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [ ] SI [ ] ESI; Long-Term Action: [ ] FS [X] RD [ ] RA [ ] O&M [ ] NPLD

| CLP Sample Numbers (from labels) | A Matrix (from Box 1) Other: | B Conc.: Low Med High | C Sample Type: Comp./Grab | D Preservative (from Box 2) Other: | E RAS Analysis: VOA | BNA | Pest/PCB | High only ARO/TOX | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K High Phases: Solids | Water-Miscible Liq. | Water-Immis. Liq. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EARR8 | 2 | L | G | 5 | | | X | | 5-190748, 5-190749 | 95CE03R01 | 9/26/95 1130 | MEAFH4 | RM | | | |
| EARR7 | 2 | L | G | 5 | | X | | | 5-190983, 5-190984 | 95CE03R03 | 9/26/95 1515 | MEAFJ3 | RM | | | |
| EARR7 | 2 | L | G | 5 | | | X | | 5-190985, 5-190986 | 95CE03R03 | 9/26/95 1515 | MEAFJ3 | RME | | | |

Shipment for Case Complete? (Y/N): Y
Page: 1 of 1
Sample(s) to be Used for Laboratory QC:
Additional Sampler Signatures: [signature] CSchwager [signature]
Chain of Custody Seal Number(s): 41199, 41200

## CHAIN OF CUSTODY RECORD

| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
|---|---|---|---|---|---|
| Michelle Benak | 9/26/95 18:00 | | | | |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| | | | | | |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) | Date / Time | Remarks | Is custody seal intact? Y/N/none |
| | | Kendra Scholle | 9/27/95 1000 | | |

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# Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (if applicable):
Case No.: 2405

1. Matrix (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (Specify in Column A)

2. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. Other (Specify in Column D) N. Not preserved

2. Region No.: V
Sampling Co.: USACE
4. Date Shipped: 9/27/95
Carrier: FED EX
6. Date Received -- Received by: 9/28/95 Carol L. Turner

Sampler (Name): JRHINER Michelle Benak
Airbill Number: 6874 358035
Laboratory Contract Number: 68-D5-0024
Unit Price: $595.

Sampler Signature: Rhiner Michelle Benak
3. Purpose*: Lead: [X] SF [ ] PRP [ ] ST [ ] FED; Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [ ] SI [ ] ESI; Long-Term Action: [ ] FS [X] RD [ ] RA [ ] O&M [ ] NPLD
5. Ship To: ROSS ANALYTICAL SERVICES INC 16433 FOLTZ Industrial PKY Strongville, OH 44136 ATTN: Carol Turner
7. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

| CLP Sample Numbers (from labels) | A Matrix (from Box 1) Other: | B Conc.: Low Med High | C Sample Type: Comp./Grab | D Preservative (from Box 2) Other: | E RAS Analysis: VOA | BNA | Pest/PCB | High only ARO/TOX | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K High Phases: Solids | Water-Miscible Liq. | Water-Immis. Liq. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EARS0 | 2 | L | G | 1 | X | | | | 5-190923, 5-190924 | 95CE03W01 | 9/27/95 0844 | MEAFJ4 | RIU | | | |
| EARS0 | 2 | L | G | 5 | | X | | | 5-190925, 5-190926 | 95CE03W01 | 9/27/95 0844 | MEAFJ4 | RIU | | | |
| EARS0 | 2 | L | G | 5 | | | X | | 5-190927, 5-190928 | 95CE03W01 | 9/27/95 0844 | MEAFJ4 | RIU | | | |
| EARS1 | 2 | L | G | 1 | X | | | | 5-190921, 5-190922 | 95CE03R12 | 9/27/95 0830 | | RIU | | | |

Shipment for Case Complete? (Y/N): YES!
Page: 1 of 1
Sample(s) to be Used for Laboratory QC:
Additional Sampler Signatures: [signature]
Chain of Custody Seal Number(s): 41163 41164

## CHAIN OF CUSTODY RECORD

| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
|---|---|---|---|---|---|
| Michelle Benak | 9/27/95 1500 | | | | |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| | | | | | |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) [signature] | Date / Time 9/28/95 1000 | Remarks Is custody seal intact? Y/N/none | |

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# Inorganic Traffic Report & Chain of Custody Record
(For Inorganic CLP Analyis)

SAS No. (If applicable):
Case No.: 240__

1. Matrix (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (specify in Column A)

2. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaOH 4. $H_2SO_4$ 5. $K_2CR_2O_7$ 6. Ice only 7. Other (specify in Column D) N. Not preserved

2. Region No.: V
Sampling Co.: USACE
Sampler (Name): JRHINER M. Parak
Sampler Signature: Johner Michelle Parak

3. Purpose*: Lead [X] SF [ ] PRP [ ] ST [ ] FED; Early Action [ ] CLEM [ ] PA [ ] REM [ ] RI [ ] SI [ ] ESI; Long-Term Action [ ] FS [X] RD [ ] RA [ ] O&M [ ] NPLD

4. Date Shipped: 9/27/95
Carrier: FED EX
Airbill Number: 6874358245

5. Ship To: American Analytical + Tech. Serv. 11950 Industriplex Blvd Baton Rouge, LA 70809
ATTN: Susan Stewart

6. Date Received – Received by: 9/29/95 – Susan Stewart
Laboratory Contract Number: 68 D3-0051
Unit Price: 116.50
7. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

| CLP Sample Numbers (from labels) | A Matrix (from Box 1) Other: | B Conc.: Low Med High | C Sample Type: Comp./Grab | D Preservative (from Box 2) Other: | E – RAS Analysis: Diss. Metals | Total Metals | Cyanide | Low only: $NO_2/NO_3$ | Fluoride | High only: pH | Conduct. | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Organic Sample No. | J Sampler Initials | K High Phases: Solids | Water-Miscible Liq. | Water-Immis. Liq. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAFJ4 | 2 | L | G | 2 | | X | | | | | | 5-190929 | 95CE03W02 | 9/27/95 0844 | EARSO | RM | | | |
| MEAFJ4 | 2 | L | G | 3 | | | X | | | | | 5-190930 | 95CE03W02 | 9/27/95 0844 | EARSO | RM | | | |

68-D3-0051
116.50

Shipment for Case Complete? (Y/N): YES! ✓
Page: 1 of 1
Sample(s) to be Used for Laboratory QC:
Additional Sampler Signatures: [signature]
Chain of Custody Seal Number(s): 41161 41162

## CHAIN OF CUSTODY RECORD

| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
|---|---|---|---|---|---|
| Michelle Parak | 9/27/95 1500 | | | | |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| | | | | | |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) Susan Stewart | Date / Time 9/29/95 09:35 | Remarks Is custody seal intact? Y/N/none | |

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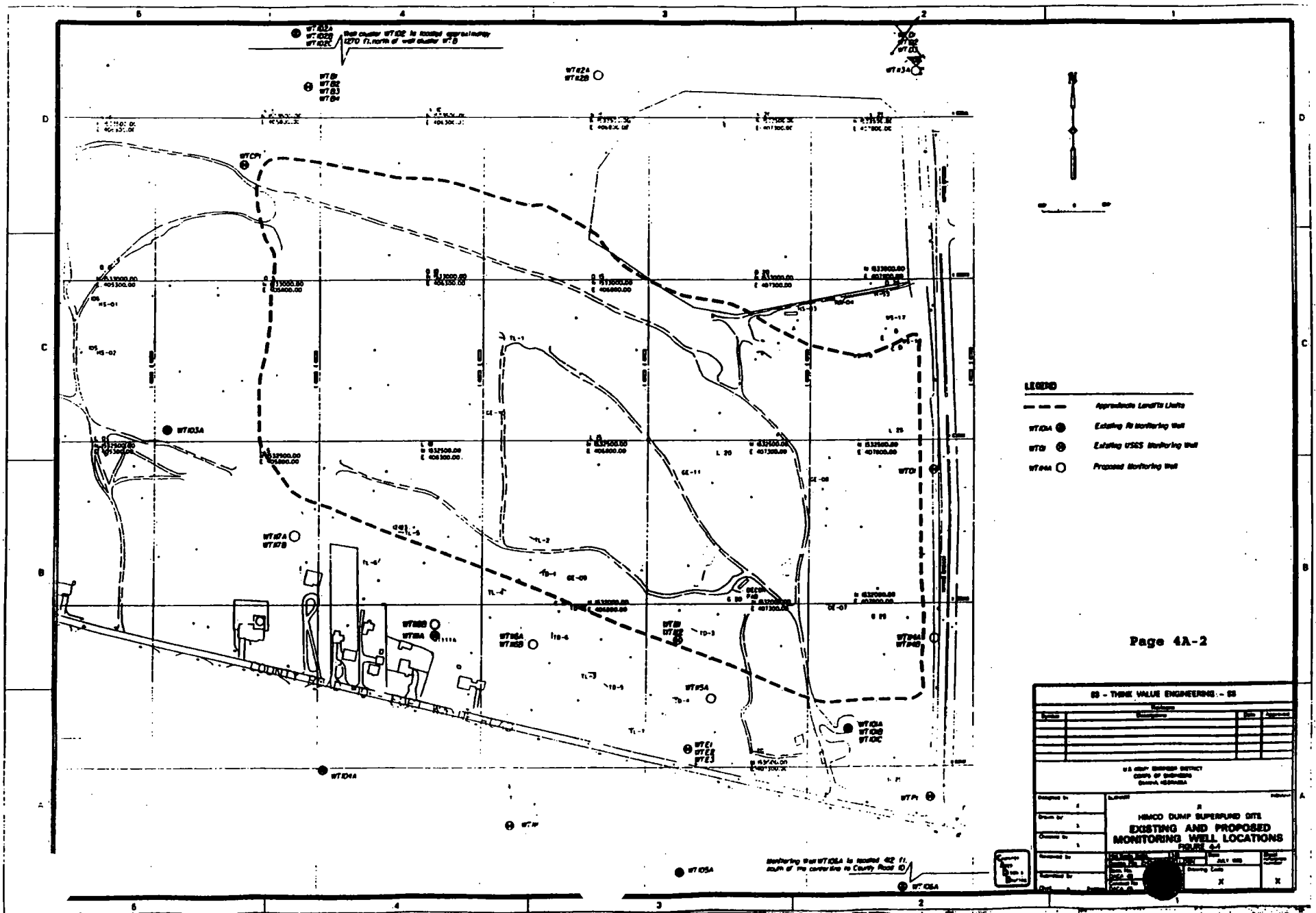
LEGEND
Approximate Landfill Limits
Existing RI monitoring well
Existing USES monitoring well
Proposed monitoring well
HIMCO DUMP SUPERFUND SITE
EXISTING AND PROPOSED
MONITORING WELL LOCATIONS
FIGURE 4-1
JULY 1988

# ATTACHMENT 1, APPENDIX A
# CASE NARRATIVE AND ANALYTICAL RESULTS
# FOR SAMPLE DELIVERY GROUP EARP0

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Region V CLP Data
Received for Review on Oct 31, 1995

FROM: Stephen L. Ostrodka, Chief (HSRL-5J)
Superfund Technical Support Section

TO: Data User: SF Patricia J Scott for Steve Ostrodka
11/12/95

We have reviewed the data for the following case:

SITE NAME: Hinco Dump (IN)

CASE NUMBER: 24033 SDG NUMBER: EARPQ

Number and Type of Samples: 20 (water)

Sample Numbers: EARPQ-9 EARQQ-7, 9 EARR2

Laboratory: ROSS Hrs. for Review: 19
2.5
21.5 wkr

Following are our findings:

The data are acceptable and usable with the qualifications described in the attached narrative.

Patricia J Scott

cc: Regional TPO
Brian Freeman
HSMC-5J

**NARRATIVE**

**CASE: 24033**
**SDG# EARP0**
**LABORATORY: Ross Analytical Services**
**SITE: Himco Dump (IN)**

**Below is a summary of the out-of-control audits and the possible effect on the data for this case:**

This review covers twenty water samples (EARP0 through EARP9, EARQ0 through EARQ7, EARQ9 and EARR2) for complete organic analysis at low levels except for samples EARP0, EARP3, EARP7, EARP9 and EARQ5, which were analyzed for volatiles only. The samples were collected on 9/18/95 through 9/25/95 and each was received by the lab one day after its respective collection.

The reviewer's narrative and data qualifiers follow.

Reviewed by: Al Venuto (Lockheed/ESAT)
Date: 7 November 1995

**NARRATIVE**

**CASE: 24033**
**SDG# EARP0**
**LABORATORY: Ross Analytical Services**
**SITE: Himco Dump (IN)**

**1. Holding Times:**

All samples were very promptly analyzed for volatiles and easily met the fourteen day holding time from date of sampling for preserved waters.

All samples analyzed for semi-volatiles and pesticides/PCBs were extracted well within the seven day holding times for these fractions; all extracts were promptly analyzed.

**2. GC/MS Tuning and GC Instrument Performance:**

The GC/MS tuning and mass calibration were all within the required Q.C. limits. All pesticide breakdown results were below the maximum permissible limits. All pesticide resolution checks were at or very near the ideal 100%.

**3. Calibration:**

The single semi-volatile calibration outlier is listed on the outliers form; there were no volatile or pesticide outliers, but the forms are included for reference. All RPDs in the pesticide calibration verification summaries (Pest-1) were well below the maximum permissible 25%.

**4. Method Blanks:**

The three volatile method blanks were completely clean.

The semi-volatile method blank SBLKM1 contained the common phthalate esters diethyl phthalate and *bis*(2-ethylhexyl) phthalate (both only a tiny fraction of CRQL) plus a single TIC identified as 1,2-cyclohexanediol; *bis*(2-ethylhexyl) phthalate was also found in all associated samples, but only five contained diethyl phthalate and only two contained the TIC. SBLKM5 contained no target compounds, but did contain three TICs; its associated sample EARQ6 also contained one of these TICs and EARQ7 contained two. SBLKM9 was completely clean.

None of the three pesticide method blanks contained any target analytes.

Reviewed by: Al Venuto (Lockheed/ESAT)
Date: 7 November 1995

**NARRATIVE**

**CASE: 24033**
**SDG# EARP0**
**LABORATORY: Ross Analytical Services**
**SITE: Himco Dump (IN)**

Target analytes and TICs found in both the sample and the associated method blank, and therefore flagged "B" by the lab, are further flagged "U" by the reviewer if the analytes are present in the sample at no more than five times (or ten times for common contaminants) the amount in the method blank. If the value is less than CRQL, it is deleted and raised to CRQL by the reviewer.

**5. Surrogate Recoveries:**

All volatile and semi-volatile surrogate recoveries were within the Q.C. limits.

For the pesticide fraction, all surrogate recoveries were within the Q.C. limits except those for decachlorobiphenyl (DCB) in EARQ0 (column 1 only) and EARQ1 (column 2 only), which were both slightly below the lower limit. Since the neither of the unspiked samples contained any target analytes, the pesticide/PCB results for EARQ0 and EARQ1 should be considered UJ, estimated quantitation limits.

**6. Matrix Spikes and Matrix Spike Duplicates:**

Sample EARP4 was chosen to be the matrix spike sample. All volatile MS and MSD recoveries and RPDs were well within the Q.C. limits.

For the semi-volatile fraction, all MS and MSD recoveries were within the Q.C. limits except for the recovery of 1,2,4 trichlorobenzene in EARP4MS, which was marginally below the lower limit; all RPDs were satisfactory. Since this compound was not present in the unspiked sample, the result for 1,2,4-trichlorobenzene in EARP4 should be considered UJ, estimated quantitation limits.

All pesticide MS and MSD recoveries and RPDs were well within the Q.C. limits.

Reviewed by: Al Venuto (Lockheed/ESAT)
Date: 7 November 1995

**NARRATIVE**

**CASE: 24033**
**SDG# EARP0**
**LABORATORY: Ross Analytical Services**
**SITE: Himco Dump (IN)**

**7. Field Duplicates and Field Blanks:**

No samples in this case were identified as duplicates.

Samples EARP0, EARP3, EARP7, EARP9 and EARQ5 were identified as trip blanks and analyzed for volatiles only; all contained only the target compound chloroform (less than 1/10th CRQL) except for EARQ5, which contained only the common contaminant methylene chloride.

**8. Internal Standards Performance:**

All volatile and IS areas were very well within the Q.C. limits and all semi-volatile IS areas were within the Q.C. limits.

**9. Compound Identification:**

The compound identifications for all fractions appear to be satisfactory.

**10. Compound Quantitation and Reported Detection Limits:**

The correct limits were used and no dilutions were made; therefore, no adjustments were necessary.

**11. System Performance:**

All aspects of the system performance appear to be satisfactory.

**12. Additional Case-Specific Problems:**

None noted.

**Reviewed by: Al Venuto (Lockheed/ESAT)**
**Date: 7 November 1995**

**CALIBRATION OUTLIER**
**Volatile TCL**
**(Page 1 of 1)**

CASE/SAS #: 24033
COLUMN: DB624
HEATED PURGE (Y/N): N

LABORATORY: ROSS ANALYT.
SITE NAME: Hinco Dump C1,

| Instrument ID: F500E.i | | Initial Cal. | | | Cont. Cal. | | | Cont. Cal. | | | Cont. Cal. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date: 9-21-95 | | | | | | | | | | | | | |
| Time: | | 9-21-95 8:55 | | | 9-21-95 13:09 | | | 9-22-95 13:59 | | | | | |
| | # | RF | %RSD | * | RF | %D | * | RF | %D | * | RF | %D | * |
| Chloromethane | 0.010 | | | | | | | | | | | | |
| Bromomethane | 0.100 | | | | | | | | | | | | |
| Vinyl Chloride | 0.100 | | | | | | | | | | | | |
| Chloroethane | 0.010 | | | | | | | | | | | | |
| Methylene Chloride | 0.010 | | | | | | | | | | | | |
| Acetone | 0.010 | | | | | | | | | | | | |
| Carbon Disulfide | 0.010 | | | | | | | | | | | | |
| 1,1-Dichloroethene | 0.100 | | | | | | | | | | | | |
| 1,1-Dichloroethane | 0.200 | | | | | | | | | | | | |
| 1,2-Dichloroethene (total) | 0.010 | | | | | | | | | | | | |
| Chloroform | 0.200 | | | | | | | | | | | | |
| 1,2-Dichloroethane | 0.100 | | | | | | | | | | | | |
| 2-Butanone | 0.010 | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 0.100 | | | | | | | | | | | | |
| Carbon Tetrachloride | 0.100 | | | | | | | | | | | | |
| Bromodichloromethane | 0.200 | | | | | | | | | | | | |
| 1,2-Dichloropropane | 0.010 | | | | | | | | | | | | |
| cis-1,3-Dichloropropene | 0.200 | | | | | | | | | | | | |
| Trichloroethene | 0.300 | | | | | | | | | | | | |
| Dibromochloromethane | 0.100 | | | | | | | | | | | | |
| 1,1,2-Trichloroethane | 0.100 | | | | | | | | | | | | |
| Benzene | 0.500 | | | | | | | | | | | | |
| trans-1,3-Dichloropropene | 0.100 | | | | | | | | | | | | |
| Bromoform | 0.100 | | | | | | | | | | | | |
| 4-Methyl-2-Pentanone | 0.010 | | | | | | | | | | | | |
| 2-Hexanone | 0.010 | | | | | | | | | | | | |
| Tetrachloroethene | 0.200 | | | | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | 0.300 | | | | | | | | | | | | |
| Toluene | 0.600 | | | | | | | | | | | | |
| Chlorobenzene | 0.500 | | | | | | | | | | | | |
| Ethylbenzene | 0.100 | | | | | | | | | | | | |
| Styrene | 0.300 | | | | | | | | | | | | |
| Xylene (total) | 0.300 | | | | | | | | | | | | |
| Toluene-$d_8$ | 0.010 | | | | | | | | | | | | |
| Bromofluorobenzene | 0.200 | | | | | | | | | | | | |
| 1,2-Dichloroethane-$d_4$ | 0.010 | | | | | | | | | | | | |

**Affected Samples:**

| | | |
|---|---|---|
| | VBLKT4 | VBLKT7 |
| | EARP0 | EARP6 |
| | through | through |
| | EARP5 | EARP9 |
| | EARP4MS | EARQ0 |
| | EARP4MSD | through |
| | | EARQ4 |

# Minimum Relative Response Factor.
* 1 flags should be applied to the analytes on the sample data sheets.
J/R = All itive ts are timated, "J" and detected ts are unusable "R".

**CALIBRATION OUTLIER**
**Volatile TCL**
**(Page 1 of 1)**

CASE/SAS #: 24033
C[illegible]IN: DB-624
H[illegible]D PURGE (Y/N) N

LABORATORY: ROSS ANALYT.
SITE NAME: Himco Dump (IN)

| Instrument ID: F500A.i | | Initial Cal. | | | Cont. Cal. | | | Cont. Cal. | | | Cont. Cal. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date: 9-25-95 | | | | | | | | | | | | | |
| Time: | | 9-25-95 20:41 | | | 9-27-95 8:48 | | | | | | | | |
| | # | RF | %RSD | * | RF | %D | * | RF | %D | * | RF | %D | * |
| Chloromethane | 0.010 | | | | | | | | | | | | |
| Bromomethane | 0.100 | | | | | | | | | | | | |
| Vinyl Chloride | 0.100 | | | | | | | | | | | | |
| Chloroethane | 0.010 | | | | | | | | | | | | |
| Methylene Chloride | 0.010 | | | | | | | | | | | | |
| Acetone | 0.010 | | | | | | | | | | | | |
| Carbon Disulfide | 0.010 | | | | | | | | | | | | |
| 1,1-Dichloroethene | 0.100 | | | | | | | | | | | | |
| 1,1-Dichloroethene | 0.200 | | | | | | | | | | | | |
| 1,2-Dichloroethene (total) | 0.010 | | | | | | | | | | | | |
| Chloroform | 0.200 | | | | | | | | | | | | |
| 1,2-Dichloroethane | 0.100 | | | | | | | | | | | | |
| 2-Butanone | 0.010 | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 0.100 | | | | | | | | | | | | |
| Carbon Tetrachloride | 0.100 | | | | | | | | | | | | |
| Bromodichloromethane | 0.200 | | | | | | | | | | | | |
| 1,2-Dichloropropane | 0.010 | | | | | | | | | | | | |
| cis-1,3-Dichloropropene | 0.200 | | | | | | | | | | | | |
| Trichloroethene | 0.300 | | | | | | | | | | | | |
| Dibromochloromethane | 0.100 | | | | | | | | | | | | |
| 1,1,2-Trichloroethene | 0.100 | | | | | | | | | | | | |
| Benzene | 0.500 | | | | | | | | | | | | |
| trans-1,3-Dichloropropene | 0.100 | | | | | | | | | | | | |
| Bromoform | 0.100 | | | | | | | | | | | | |
| 4-Methyl-2-Pentanone | 0.010 | | | | | | | | | | | | |
| 2-Hexanone | 0.010 | | | | | | | | | | | | |
| Tetrachloroethene | 0.200 | | | | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | 0.300 | | | | | | | | | | | | |
| Toluene | 0.400 | | | | | | | | | | | | |
| Chlorobenzene | 0.500 | | | | | | | | | | | | |
| Ethylbenzene | 0.100 | | | | | | | | | | | | |
| Styrene | 0.300 | | | | | | | | | | | | |
| Xylene (total) | 0.300 | | | | | | | | | | | | |
| Toluene-$d_8$ | 0.010 | | | | | | | | | | | | |
| Bromofluorobenzene | 0.200 | | | | | | | | | | | | |
| 1,2-Dichloroethane-$d_4$ | 0.010 | | | | | | | | | | | | |

**Affected Samples:**

| | | | |
|---|---|---|---|
| | VBLKV8 | | |
| | EARQ5 | | |
| | through | | |
| | EARQ7 | | |
| | EARQ9 | | |
| | EARR2 | | |

# Minimum Relative Response Factor.
* 1 flags [illegible] ld be applied to the analytes on the [illegible] e data [illegible] s.
J/R = All [illegible] itive [illegible] ts are estimated, "J" [illegible] non-detected [illegible] ts are u[illegible] le "R".

Revi[illegible] 's Init/Date: - 95

**CALIBRATION OUTLIER**
**Semivolatile TCL**
**(Page 1 of 2)**

CASE/SAS #: 24033
COLUMN: —

LABORATORY: ROSS ANALYT
SITE NAME: ~~Hinco Dump~~

| Instrument ID: hpms9.i | | Initial Cal. | | | Cont. Cal. | | | Cont. Cal. | | | Cont. Cal. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date: 10-23-95 | | | | | | | | | | | | | |
| Time: | | 10-23-95 12:33 | | | 10-25-95 1:03 | | | 10-25-95 15:47 | | | | | |
| | # | RF | %RSD | * | RF | %D | * | RF | %D | * | RF | %D | * |
| Phenol | 0.800 | | | | | | | | | | | | |
| bis(2-Chloroethyl)ether | 0.700 | | | | | | | | | | | | |
| 2-Chlorophenol | 0.800 | | | | | | | | | | | | |
| 1,3-Dichlorobenzene | 0.600 | | | | | | | | | | | | |
| 1,4-Dichlorobenzene | 0.500 | | | | | | | | | | | | |
| 1,2-Dichlorobenzene | 0.400 | | | | | | | | | | | | |
| 2-Methylphenol | 0.700 | | | | | | | | | | | | |
| 2,2-oxybis(1-Chloropropane) | 0.010 | | | | | | | | | | | | |
| 4-Methylphenol | 0.600 | | | | | | | | | | | | |
| N-Nitroso-di-n-propylamine | 0.500 | | | | | | | | | | | | |
| Hexachloroethane | 0.300 | | | | | | | | | | | | |
| Nitrobenzene | 0.200 | | | | | | | | | | | | |
| Isophorone | 0.400 | | | | | | | | | | | | |
| 2-Nitrophenol | 0.100 | | | | | | | | | | | | |
| 2,4-Dimethylphenol | 0.200 | | | | | | | | | | | | |
| bis(2-Chloroethoxy)methane | 0.300 | | | | | | | | | | | | |
| 2,4-Dichlorophenol | 0.200 | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 0.200 | | | | | | | | | | | | |
| Naphthalene | 0.700 | | | | | | | | | | | | |
| 4-Chloroaniline | 0.010 | | | | | | | | | | | | |
| Hexachlorobutadiene | 0.010 | | | | | | | | | | | | |
| 4-Chloro-3-methylphenol | 0.200 | | | | | | | | | | | | |
| 2-Methylnaphthalene | 0.400 | | | | | | | | | | | | |
| Hexachlorocyclopentadiene | 0.010 | | | | | | | | | | | | |
| 2,4,6-Trichlorophenol | 0.200 | | | | | | | | | | | | |
| 2,4,5-Trichlorophenol | 0.200 | | | | | | | | | | | | |
| 2-Chloronaphthalene | 0.800 | | | | | | | | | | | | |
| 2-Nitroaniline | 0.010 | | | | | | | | | | | | |
| Dimethylphthalate | 0.010 | | | | | | | | | | | | |
| Acenaphthylene | 0.900 | | | | | | | | | | | | |
| 2,6-Dinitrotoluene | 0.200 | | | | | | | | | | | | |
| 3-Nitroaniline | 0.010 | | | | | | | | | | | | |
| Acenaphthene | 0.900 | | | | | | | | | | | | |
| 2,4-Dinitrophenol | 0.010 | | | | | | | | | | | | |

SBLKM1 SBLKM5, SBLKM9

Affected Samples:

| | | | |
|---|---|---|---|
| | EARP1 | EARP6 | |
| | EARP2 | EARP8 | |
| | EARP4 | EARQ0 through EARQ4 | |
| | EARP4MS | EARQ6 | |
| | EARP4MSD | EARQ7 | |
| | EARP5 | EARQ9 | |
| | | EARR2 | |

# Minimum Relative Response Factor.
* These flags should be applied to the analytes on the sample data sheets.
J/R = All positive results are estimated "J" and non-detected results are unusable "R".

Reviewer's Init/Date: AV 11-6-95

**CALIBRATION OUTLIER**
**Semivolatile TCL**
**(Page 2 of 2)**

CASE/SAS #: 24033
COLUMN: —

LABORATORY: ROSS ANALYTICAL
SITE NAME: Himco Dump (IN)

| Instrument ID: hpms g.i | | Initial Cal. | | | Cont. Cal. | | | Cont. Cal. | | | Cont. Cal. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date: 10-23-95 | | | | | | | | | | | | | |
| Time: | | 10-23-95 12:33 | | | 10-25-95 1:03 | | | 10-25-95 15:47 | | | | | |
| | # | RF | %RSD | * | RF | %D | * | RF | %D | * | RF | %D | * |
| 4-Nitrophenol | 0.010 | | | | | | | | | | | | |
| Dibenzofuran | 0.800 | | | | | | | | | | | | |
| 2,4-Dinitrotoluene | 0.200 | | | | | | | | | | | | |
| Diethylphthalate | 0.010 | | | | | | | | | | | | |
| 4-Chlorophenyl-phenylether | 0.400 | | | | | | | | | | | | |
| Fluorene | 0.900 | | | | | | | | | | | | |
| 4-Nitroaniline | 0.010 | | | | | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | 0.010 | | | | | | | | | | | | |
| N-nitrosodiphenylamine | 0.010 | | | | | | | | | | | | |
| 4-Bromophenyl-phenylether | 0.100 | | | | | | | | | | | | |
| Hexachlorobenzene | 0.100 | | | | | | | | | | | | |
| Pentachlorophenol | 0.050 | | | | | | | | | | | | |
| Phenanthrene | 0.700 | | | | | | | | | | | | |
| Anthracene | 0.700 | | | | | | | | | | | | |
| Carbazole | 0.010 | | | | | | | | | | | | |
| Di-n-butylphthalate | 0.010 | | | | | | | | | | | | |
| Fluoranthene | 0.600 | | | | | | | | | | | | |
| Pyrene | 0.600 | | | | | | | | | | | | |
| Butylbenzylphthalate | 0.010 | | | | | | | | | | | | |
| 3-3'-Dichlorobenzidine | 0.010 | | | | | | | | | | | | |
| Benzo(a)anthracene | 0.800 | | | | | | | | | | | | |
| Chrysene | 0.700 | | | | | | | | | | | | |
| bis(2-Ethylhexyl)phthalate | 0.010 | | | | | | | | | | | | |
| Di-n-octylphthalate | 0.010 | | | | | | | | | | | | |
| Benzo(b)fluoranthene | 0.700 | | | | | | | | | | | | |
| Benzo(k)fluoranthene | 0.700 | | | | | | | | | | | | |
| Benzo(a)pyrene | 0.700 | | | | | | | | | | | | |
| Indeno(1,2,3-cd)pyrene | 0.500 | | | | | | | | | | | | |
| Dibenz(a,h)anthracene | 0.400 | | | | | | | | | | | | |
| Benzo(g,h,i)perylene | 0.500 | .837 | | | .612 | 26.9 | J | .689 | | | | | |
| Nitrobenzene-$d_5$ | 0.200 | | | | | | | | | | | | |
| 2-Flurobiphenyl | 0.700 | | | | | | | | | | | | |
| Terphenyl-$d_{14}$ | 0.500 | | | | | | | | | | | | |
| Phenol-$d_6$ | 0.800 | | | | | | | | | | | | |
| 2-Fluorophenol | 0.600 | | | | | | | | | | | | |
| 2,4,6-Tribromophenol | 0.010 | | | | | | | | | | | | |
| 2-Chlorophenol-$d_4$ | 0.800 | | | | | | | | | | | | |
| 1,2-Dichlorobenzene-$d_4$ | 0.400 | | | | | | | | | | | | |

# Minimum Relative Response Factor.
* These flags should be applied to the analytes on the sample data sheets.
J/R = All positive results are estimated "J" and non-detected results are unusable "R".

's Init/Date: AV 11-6-95

**CALIBRATION OUTLIER**
**Pesticide/PCB TCL**
**(Page 1 of 1)**

CASE/SAS #: 24033
COLUMN: RTX-1701

LABORATORY: ROSS ANALYT.
SITE NAME: Hinco Dump (FN)

| Instrument Number | Initial Cal. | | Cont. Cal. | | Cont. Cal. | | Cont. Cal. | | Cont. Cal. | |
|---|---|---|---|---|---|---|---|---|---|---|
| Date 9-28-95 | | | | | | | | | | |
| Time 9-29-95 | 9-29-95 4:13 | | 10-14-95 12:07 | | 10-18-95 6:30 | | | | | |
| | %RSD | * | %D | * | %D | * | %D | * | %D | * |
| alpha-BHC | | | | | | | | | | |
| beta-BHC | | | | | | | | | | |
| delta-BHC | | | | | | | | | | |
| gamma-BHC | | | | | | | | | | |
| Heptachlor | | | | | | | | | | |
| Aldrin | | | | | | | | | | |
| Heptachlor Epoxide | | | | | | | | | | |
| Endosulfan I | | | | | | | | | | |
| Dieldrin | | | | | | | | | | |
| 4,4'-DDE | | | | | | | | | | |
| Endrin | | | | | | | | | | |
| Endosulfan II | | | | | | | | | | |
| 4,4'-DDD | | | | | | | | | | |
| Endosulfan Sulfate | | | | | | | | | | |
| 4,4'-DDT | | | | | | | | | | |
| Methoxychlor | | | | | | | | | | |
| Endrin Ketone | | | | | | | | | | |
| Endrin Aldehyde | | | | | | | | | | |
| alpha-Chlordane | | | | | | | | | | |
| gamma-Chlordane | | | | | | | | | | |
| Aroclor 1016 | | | | | | | | | | |
| Aroclor 1221 | | | | | | | | | | |
| Aroclor 1232 | | | | | | | | | | |
| Aroclor 1242 | | | | | | | | | | |
| Aroclor 1248 | | | | | | | | | | |
| Aroclor 1254 | | | | | | | | | | |
| Aroclor 1260 | | | | | | | | | | |

Affected Samples:

| | | | | |
|---|---|---|---|---|
| | PBLKM2 | PBLKM4 | | |
| | EARP1 | EARQ9 | | |
| | EARP2 | EARR2 | | |
| | EARP4 | | | |
| | EARP4MS/MSD | | | |
| | EARP5 | | | |
| | EARP6 | | | |
| | EARP8 | | | |
| | EARQ0 | | | |
| | EARQ1 | | | |
| | EARQ2 | | | |
| | EARQ3 | | | |
| | EARQ4 | | | |
| | EARQ6 & -07 | | | |
| | PBLKM6 | | | |

* These flags should be applied to the analytes on the sample data sheets.
J/R = All positive results are estimated "J" and non-detected results are unuseable "R".

Reviewer's Init/Date: AV 11-6-95

**CALIBRATION OUTLIER**
**Pesticide/PCB TCL**
**(Page 1 of 1)**

CASE/SAS #: 24033
COLUMN: RTX-5

LABORATORY: ROSS ANALYTICAL
SITE NAME: Homer Dump (IN)

| Instrument Number | Initial Cal. | | Cont. Cal. | | Cont. Cal. | | Cont. Cal. | | Cont. Cal. | |
|---|---|---|---|---|---|---|---|---|---|---|
| Date 9-28-95 | | | | | | | | | | |
| Time 9-29-95 | 9-29-95 4:13 | | 10-14-95 12:07 | | 10-18-95 6:30 | | | | | |
| | %RSD | * | %D | * | %D | * | %D | * | %D | * |
| alpha-BHC | | | | | | | | | | |
| beta-BHC | | | | | | | | | | |
| delta-BHC | | | | | | | | | | |
| gamma-BHC | | | | | | | | | | |
| Heptachlor | | | | | | | | | | |
| Aldrin | | | | | | | | | | |
| Heptachlor Epoxide | | | | | | | | | | |
| Endosulfan I | | | | | | | | | | |
| Dieldrin | | | | | | | | | | |
| 4,4'-DDE | | | | | | | | | | |
| Endrin | | | | | | | | | | |
| Endosulfan II | | | | | | | | | | |
| 4,4'-DDD | | | | | | | | | | |
| Endosulfan Sulfate | | | | | | | | | | |
| 4,4'-DDT | | | | | | | | | | |
| Methoxychlor | | | | | | | | | | |
| Endrin Ketone | | | | | | | | | | |
| Endrin Aldehyde | | | | | | | | | | |
| alpha-Chlordane | | | | | | | | | | |
| gamma-Chlordane | | | | | | | | | | |
| Aroclor 1016 | | | | | | | | | | |
| Aroclor 1221 | | | | | | | | | | |
| Aroclor 1232 | | | | | | | | | | |
| Aroclor 1242 | | | | | | | | | | |
| Aroclor 1248 | | | | | | | | | | |
| Aroclor 1254 | | | | | | | | | | |
| Aroclor 1260 | | | | | | | | | | |

Affected Samples:

| | | | | |
|---|---|---|---|---|
| | PBLKM2 | PBLKM4 | | |
| | EARP1 | EAR09 | | |
| | EARP2 | EAR12 | | |
| | EARP4 | | | |
| | EARP4MS&MSD | | | |
| | EARP5 | | | |
| | EARP6 | | | |
| | EARP8 | | | |
| | EAR00 | | | |
| | EAR01 | | | |
| | EAR02 | | | |
| | EAR03 | | | |
| | EAR04 | | | |
| | EAR06-07 | | | |
| | PBLKM6 | | | |

* These flags should be applied to the analytes on the sample data sheets.
J/R = All positive results are estimated "J" and non-detected results are unusable "R".

's Initials/Date: AV 11-6-95

## ORGANIC DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature utinized in this document, the following code letters and associated definitions are provide:

VALUE-if the results is a value greater than or equal to the Contract Required Quantitation Limit (CRQL).

U Indicates that the compound was analyzed for, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.

J Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of a compound but the result is less than the sample quantitation limit, but greater than zero. The flag is also used to indicate a reported result having an associated QC problem.

R Indicates the data are unusable. (Note: The analyte may or may not be present.)

N Indicates presumptive evidence of a compound. This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search.

P Indicates a pesticide/Aroclor target analyte when there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two results is reported.

C Indicates pesticide results that have been confirmed by GC/MS.

B Indicates the analyte is detected in the associated blank as well as the sample.

E Indicates compounds whose concentrations exceed the calibration range of the instrument.

D Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.

A Indicates tentatively identified compounds that are suspected to be aldol condensation products.

G Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method.

L Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method.

T Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.

X, Y, Z are reserved for laboratory defined flags.

ROSS Ross Analytical Services, Inc.
16433 Foltz Industrial Parkway • Strongsville, Ohio 44136
(216) 572-3200 • Fax (216) 572-7620 • 1-800-325-7737

October 30, 1995

Charles T. Elly
USEPA Region V
536 S. Clark St. 10th Floor, 5SCRL
Chicago, IL 60605

RECEIVED
OCT 31 1995
US EPA CENTRAL REGIONAL LAB.
536 S. CLARK ST.
CHICAGO, ILLINOIS 60605

Re: SDG Narrative
Case 24033 SDG EARP0
ROSS Contract 68-D5-0024, Bid Lot A

Dear Charles,

This is the SDG Narrative for Case 24033 / SDG EARP0. The SDG contained twenty (20) waters with the following identifications and analysis request:

| | | | |
|---|---|---|---|
| EARP0 - VOA | EARP5 - FTCL | EARQ0 - FTCL | EARQ5 - VOA |
| EARP1 - FTCL | EARP6 - FTCL | EARQ1 - FTCL | EARQ6 - FTCL |
| EARP2 - FTCL | EARP7 - VOA | EARQ2 - FTCL | EARQ7 - FTCL |
| EARP3 - VOA | EARP8 - FTCL | EARQ3 - FTCL | EARQ9 - FTCL |
| EARP4 - FTCL | EARP9 - VOA | EARQ4 - FTCL | EARR2 - FTCL |

VOA = Volatile Organic Analytes
FTCL = Full Target Compound List

Shipments were received on September 19, 20, 21, 22, 23, and 26, 1995.

VOA Fraction

No comments.

SVOA Fraction

No comments.

Pesticide/Aroclor Fraction

Our chromatography software is not able to print out the ng on column information. This information is included on two tables located after the Form X's and before the raw data.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer- readable data submitted on diskette has been authorized by the laboratory manager or his designee, as verified by the following signature.

Respectfully,
Ross Analytical Services, Inc.

Dale L Mori 10/30/95

Dale L. Mori
Contract Laboratory Program Manager

Please send any CCS and other communication to me.

Respectfully,
Ross Analytical Services, Inc.

Dale L Mori 10/30/95

Dale L. Mori
Contract Laboratory Program Manager

2A

# WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

| | EPA SAMPLE NO. | SMC1 (TOL) # | SMC2 (BFB) # | SMC3 (DCE) # | OTHER | TOT OUT |
|---|---|---|---|---|---|---|
| 01 | VBLKT4 | 108 | 102 | 99 | | 0 |
| 02 | EARP0 | 108 | 102 | 99 | | 0 |
| 03 | EARP1 | 108 | 103 | 99 | | 0 |
| 04 | EARP2 | 108 | 101 | 100 | | 0 |
| 05 | EARP3 | 108 | 103 | 100 | | 0 |
| 06 | EARP4 | 108 | 103 | 100 | | 0 |
| 07 | EARP5 | 108 | 103 | 100 | | 0 |
| 08 | EARP4MS | 103 | 101 | 102 | | 0 |
| 09 | EARP4MSD | 103 | 100 | 103 | | 0 |
| 10 | VBLKT7 | 105 | 99 | 100 | | 0 |
| 11 | EARP6 | 107 | 99 | 100 | | 0 |
| 12 | EARP7 | 107 | 100 | 100 | | 0 |
| 13 | EARP8 | 108 | 100 | 101 | | 0 |
| 14 | EARP9 | 108 | 102 | 100 | | 0 |
| 15 | EARQ0 | 108 | 103 | 103 | | 0 |
| 16 | EARQ1 | 108 | 102 | 102 | | 0 |
| 17 | EARQ2 | 107 | 100 | 101 | | 0 |
| 18 | EARQ3 | 108 | 101 | 102 | | 0 |
| 19 | EARQ4 | 107 | 104 | 100 | | 0 |
| 20 | VBLKU8 | 104 | 93 | 95 | | 0 |
| 21 | EARQ5 | 107 | 96 | 98 | | 0 |
| 22 | EARQ6 | 107 | 95 | 98 | | 0 |
| 23 | EARQ7 | 107 | 95 | 98 | | 0 |
| 24 | EARQ9 | 103 | 98 | 97 | | 0 |
| 25 | EARR2 | 104 | 97 | 98 | | 0 |
| 26 | VHBLK33 | 106 | 96 | 99 | | 0 |
| 27 | | | | | | |
| 28 | | | | | | |
| 29 | | | | | | |
| 30 | | | | | | |

| | QC LIMITS |
|---|---|
| SMC1 (TOL) = Toluene-d8 | (88-110) |
| SMC2 (BFB) = Bromofluorobenzene | (86-115) |
| SMC3 (DCE) = 1,2-Dichloroethane-d4 | (76-114) |

# Column to be used to flag recovery values

* Values outside of contract required QC limits

3A

# WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix Spike - EPA Sample No.: EARP4

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC # | QC LIMITS REC. |
|---|---|---|---|---|---|
| 1,1-Dichloroethene | 50.0 | 0.000 | 66.0 | 132 | 61-145 |
| Trichloroethene | 50.0 | 0.000 | 54.7 | 109 | 71-120 |
| Benzene | 50.0 | 0.000 | 50.5 | 101 | 76-127 |
| Toluene | 50.0 | 0.000 | 51.8 | 104 | 76-125 |
| Chlorobenzene | 50.0 | 0.000 | 48.7 | 97 | 75-130 |

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 50.0 | 63.9 | 128 | 3 | 14 | 61-145 |
| Trichloroethene | 50.0 | 53.6 | 107 | 2 | 14 | 71-120 |
| Benzene | 50.0 | 49.9 | 100 | 1 | 11 | 76-127 |
| Toluene | 50.0 | 51.4 | 103 | 1 | 13 | 76-125 |
| Chlorobenzene | 50.0 | 48.2 | 96 | 1 | 13 | 75-130 |

# Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
000027

VBLKT4

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Lab File ID: VBLK0921E2 Lab Sample ID: VBLK0921E2

Date Analyzed: 09/21/95 Time Analyzed: 1405

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: F500E.i

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | EARP0 | 950917601A | EARP0 | 1849 |
| 02 | EARP1 | 950917602A | EARP1 | 1926 |
| 03 | EARP2 | 950917603A | EARP2 | 2004 |
| 04 | EARP3 | 950919101A | EARP3 | 2038 |
| 05 | EARP4 | 950919102A | EARP4 | 2114 |
| 06 | EARP5 | 950919103A | EARP5 | 2149 |
| 07 | EARP4MS | 950919102A/MS | EARP4MS | 2232 |
| 08 | EARP4MSD | 950919102A/MSD | EARP4MSD | 2307 |
| 09 | | | | |
| 10 | | | | |
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COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
000028

VBLKT7

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Lab File ID: VBLK0922E Lab Sample ID: VBLK0922E

Date Analyzed: 09/22/95 Time Analyzed: 1458

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: F500E.i

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | EARP6 | 950920701A | EARP6 | 1548 |
| 02 | EARP7 | 950920702A | EARP7 | 1637 |
| 03 | EARP8 | 950920703A | EARP8 | 1713 |
| 04 | EARP9 | 950922001A | EARP9 | 1753 |
| 05 | EARQ0 | 950922002A | EARQ0 | 1833 |
| 06 | EARQ1 | 950922003A | EARQ1 | 1908 |
| 07 | EARQ2 | 950922004A | EARQ2 | 1945 |
| 08 | EARQ3 | 950922005A | EARQ3 | 2021 |
| 09 | EARQ4 | 950922006A | EARQ4 | 2059 |
| 10 | | | | |
| 11 | | | | |
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COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

000029

VBLKU8

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Lab File ID: VBLK0927A Lab Sample ID: VBLK0927A

Date Analyzed: 09/27/95 Time Analyzed: 0938

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: F500A.i

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | EARQ5 | 950922701A | EARQ5 | 1541 |
| 02 | EARQ6 | 950922702A | EARQ6 | 1620 |
| 03 | EARQ7 | 950922703A | EARQ7 | 1658 |
| 04 | EARQ9 | 950926001A | EARQ9 | 1736 |
| 05 | EARR2 | 950926002A | EARR2 | 1813 |
| 06 | VHBLK33 | 950917604A | VHBLK33 | 1853 |
| 07 | | | | |
| 08 | | | | |
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COMMENTS:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000286

VBLKT4

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: VBLK0921E2

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: VBLK0921E2

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/21/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000287

VBLKT4

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: VBLK0921E2

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: VBLK0921E2

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/21/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000293

VBLKT7

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: VBLK0922E

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: VBLK0922E

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/22/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000294
VBLKT7

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: VBLK0922E

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: VBLK0922E

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/22/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
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| 30. | | | | | |

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000300
VBLKU8

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: VBLK0927A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: VBLK0927A

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/27/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
# TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000301

VBLKU8

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: VBLK0927A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: VBLK0927A

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/27/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000038

EARP0

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950917601A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARP0

Level: (low/med) LOW Date Received: 09/19/95

% Moisture: not dec. _____ Date Analyzed: 09/21/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 10 | U |
| 67-66-3 | Chloroform | 0.9 | J |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 000039

EARP0

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950917601A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARP0

Level: (low/med) LOW Date Received: 09/19/95

% Moisture: not dec. _____ Date Analyzed: 09/21/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000046
EARP1

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950917602A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARP1

Level: (low/med) LOW Date Received: 09/19/95

% Moisture: not dec. _____ Date Analyzed: 09/21/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 000047

EARP1

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950917602A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARP1

Level: (low/med) LOW Date Received: 09/19/95

% Moisture: not dec. _____ Date Analyzed: 09/21/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000053
EARP2

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950917603A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARP2

Level: (low/med) LOW Date Received: 09/19/95

% Moisture: not dec. _____ Date Analyzed: 09/21/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000054
EARP2

Lab Name: ROSS ANALYTICAL SERVICES  Contract: 68-D5-0024

Lab Code: ROSS  Case No.: 24033  SAS No.:  SDG No.: EARP0

Matrix: (soil/water) WATER  Lab Sample ID: 950917603A

Sample wt/vol: 5.000 (g/mL) ML  Lab File ID: EARP2

Level: (low/med) LOW  Date Received: 09/19/95

% Moisture: not dec. _____  Date Analyzed: 09/21/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

TRIP BLANK

EPA SAMPLE NO.
000060
EARP3

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950919101A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARP3

Level: (low/med) LOW Date Received: 09/20/95

% Moisture: not dec. _____ Date Analyzed: 09/21/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 10 | U |
| 67-66-3 | Chloroform | 0.9 | J |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000061
EARP3

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950919101A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARP3

Level: (low/med) LOW Date Received: 09/20/95

% Moisture: not dec. _____ Date Analyzed: 09/21/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0. CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000068
EARP4

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950919102A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARP4

Level: (low/med) LOW Date Received: 09/20/95

% Moisture: not dec. _____ Date Analyzed: 09/21/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000069
EARP4

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950919102A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARP4

Level: (low/med) LOW Date Received: 09/20/95

% Moisture: not dec. _____ Date Analyzed: 09/21/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000075

EARP5

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950919103A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARP5

Level: (low/med) LOW Date Received: 09/20/95

% Moisture: not dec. _____ Date Analyzed: 09/21/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000076
EARP5

Lab Name: ROSS ANALYTICAL SERVICES  Contract: 68-D5-0024

Lab Code: ROSS  Case No.: 24033  SAS No.:  SDG No.: EARP0

Matrix: (soil/water) WATER  Lab Sample ID: 950919103A

Sample wt/vol: 5.000 (g/mL) ML  Lab File ID: EARP5

Level: (low/med) LOW  Date Received: 09/20/95

% Moisture: not dec. _____  Date Analyzed: 09/21/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000082

EARP6

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950920701A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARP6

Level: (low/med) LOW Date Received: 09/21/95

% Moisture: not dec. _____ Date Analyzed: 09/22/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000083
EARP6

Lab Name: ROSS ANALYTICAL SERVICES  Contract: 68-D5-0024

Lab Code: ROSS  Case No.: 24033  SAS No.:  SDG No.: EARP0

Matrix: (soil/water) WATER  Lab Sample ID: 950920701A

Sample wt/vol: 5.000 (g/mL) ML  Lab File ID: EARP6

Level: (low/med) LOW  Date Received: 09/21/95

% Moisture: not dec. _____  Date Analyzed: 09/22/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
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TRIP BLNK

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000089
EARP7

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950920702A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARP7

Level: (low/med) LOW Date Received: 09/21/95

% Moisture: not dec. _____ Date Analyzed: 09/22/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 10 | U |
| 67-66-3 | Chloroform | 0.8 | J |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 000090

EARP7

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950920702A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARP7

Level: (low/med) LOW Date Received: 09/21/95

% Moisture: not dec. _____ Date Analyzed: 09/22/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000097
EARP8

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950920703A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARP8

Level: (low/med) LOW Date Received: 09/21/95

% Moisture: not dec. _____ Date Analyzed: 09/22/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 000098

EARP8

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950920703A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARP8

Level: (low/med) LOW Date Received: 09/21/95

% Moisture: not dec. _____ Date Analyzed: 09/22/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0. CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

TRIP BLNK

EPA SAMPLE NO.
000104

EARP9

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950922001A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARP9

Level: (low/med) LOW Date Received: 09/22/95

% Moisture: not dec. _____ Date Analyzed: 09/22/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 10 | U |
| 67-66-3 | Chloroform | 0.7 | J |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000105
EARP9

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950922001A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARP9

Level: (low/med) LOW Date Received: 09/22/95

% Moisture: not dec. _____ Date Analyzed: 09/22/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
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WT116A
DUP

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000112
EARQ0

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950922002A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARQ0

Level: (low/med) LOW Date Received: 09/22/95

% Moisture: not dec. _____ Date Analyzed: 09/22/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | [illegible] | [illegible] |
| 540-59-0 | 1,2-Dichloroethene (Total) | [illegible] | J |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 4 | J |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 0.8 | J |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 14 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 0.7 | J |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
# TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000113
EARQ0

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950922002A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARQ0

Level: (low/med) LOW Date Received: 09/22/95

% Moisture: not dec. _____ Date Analyzed: 09/22/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 593-70-4 | METHANE, CHLOROFLUORO- | 5.10 | 7 | NJ |
| 2. | 75-43-4 | METHANE, DICHLOROFLUORO- | 8.21 | 12 | NJ |
| 3. | 60-29-7 | ETHER | 9.22 | 38 | NJ |
| 4. | | | | | |
| 5. | | | | | |
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WT1164

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000128
EARQ1

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950922003A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARQ1

Level: (low/med) LOW Date Received: 09/22/95

% Moisture: not dec. _____ Date Analyzed: 09/22/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | [illegible] | [illegible] |
| 540-59-0 | 1,2-Dichloroethene (Total) | [illegible] | [illegible] |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | [illegible] | [illegible] |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | [illegible] | [illegible] |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | [illegible] | [illegible] |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | [illegible] | [illegible] |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000129

EARQ1

Lab Name: ROSS ANALYTICAL SERVICES  Contract: 68-D5-0024

Lab Code: ROSS  Case No.: 24033  SAS No.:  SDG No.: EARP0

Matrix: (soil/water) WATER  Lab Sample ID: 950922003A

Sample wt/vol: 5.000 (g/mL) ML  Lab File ID: EARQ1

Level: (low/med) LOW  Date Received: 09/22/95

% Moisture: not dec. _____  Date Analyzed: 09/22/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.0

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

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 593-70-4 | METHANE, CHLOROFLUORO- | 5.07 | 7 | NJ |
| 2. | 75-43-4 | METHANE, DICHLOROFLUORO- | 8.18 | 11 | NJ |
| 3. | 60-29-7 | ETHER | 9.20 | 39 | NJ |
| 4. | | | | | |
| 5. | | | | | |
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1A

# VOLATILE ORGANICS ANALYSIS DATA SHEET

WT1148

EPA SAMPLE NO.
000144

EARQ2

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950922004A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARQ2

Level: (low/med) LOW Date Received: 09/22/95

% Moisture: not dec. _____ Date Analyzed: 09/22/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | [illegible] | [illegible] |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 1 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 1 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000145
EARQ2

Lab Name: ROSS ANALYTICAL SERVICES  Contract: 68-D5-0024

Lab Code: ROSS  Case No.: 24033  SAS No.:  SDG No.: EARP0

Matrix: (soil/water) WATER  Lab Sample ID: 950922004A

Sample wt/vol: 5.000 (g/mL) ML  Lab File ID: EARQ2

Level: (low/med) LOW  Date Received: 09/22/95

% Moisture: not dec. _____  Date Analyzed: 09/22/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.0

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

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 593-70-4 | METHANE, CHLOROFLUORO- | 5.08 | 6 | NJ |
| 2. | 75-43-4 | METHANE, DICHLOROFLUORO- | 8.21 | 7 | NJ |
| 3. | 60-29-7 | ETHER | 9.22 | 15 | NJ |
| 4. | | | | | |
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# VOLATILE ORGANICS ANALYSIS DATA SHEET

WT1163

EPA SAMPLE NO.
000157
EARQ3

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950922005A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARQ3

Level: (low/med) LOW Date Received: 09/22/95

% Moisture: not dec. _____ Date Analyzed: 09/22/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | [redacted] | J |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000158
EARQ3

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950922005A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARQ3

Level: (low/med) LOW Date Received: 09/22/95

% Moisture: not dec. _____ Date Analyzed: 09/22/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 1. CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 60-29-7 | ETHER | 9.18 | 87 | N |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
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1A

# VOLATILE ORGANICS ANALYSIS DATA SHEET

WT1114A EPA SAMPLE NO. 000166

EARQ4

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950922006A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARQ4

Level: (low/med) LOW Date Received: 09/22/95

% Moisture: not dec. _____ Date Analyzed: 09/22/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | [illegible] | [illegible] |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | [illegible] | [illegible] |
| 540-59-0 | 1,2-Dichloroethene (Total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | [illegible] | [illegible] |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 000167

EARQ4

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950922006A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARQ4

Level: (low/med) LOW Date Received: 09/22/95

% Moisture: not dec. _____ Date Analyzed: 09/22/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 75-43-4 | METHANE, DICHLOROFLUORO- | 8.18 | 5 | NJ |
| 2. | 60-29-7 | ETHER | 9.20 | 12 | NJ |
| 3. | | | | | |
| 4. | | | | | |
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# VOLATILE ORGANICS ANALYSIS DATA SHEET

TRIP BLNK

EPA SAMPLE NO. 000178

EARQ5

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950922701A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARQ5

Level: (low/med) LOW Date Received: 09/23/95

% Moisture: not dec. _____ Date Analyzed: 09/27/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000179
EARQ5

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950922701A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARQ5

Level: (low/med) LOW Date Received: 09/23/95

% Moisture: not dec. _____ Date Analyzed: 09/27/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
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| 1. | | | | | |
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# VOLATILE ORGANICS ANALYSIS DATA SHEET

WTO1

EPA SAMPLE NO.

000186

EARQ6

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950922702A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARQ6

Level: (low/med) LOW Date Received: 09/23/95

% Moisture: not dec. _____ Date Analyzed: 09/27/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | [illegible] | [illegible] |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000187
EARQ6

Lab Name: ROSS ANALYTICAL SERVICES  Contract: 68-D5-0024

Lab Code: ROSS  Case No.: 24033  SAS No.:  SDG No.: EARP0

Matrix: (soil/water) WATER  Lab Sample ID: 950922702A

Sample wt/vol: 5.000 (g/mL) ML  Lab File ID: EARQ6

Level: (low/med) LOW  Date Received: 09/23/95

% Moisture: not dec. _____  Date Analyzed: 09/27/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
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# VOLATILE ORGANICS ANALYSIS DATA SHEET

WT11HA

EPA SAMPLE NO.
000194
EARQ7

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950922703A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARQ7

Level: (low/med) LOW Date Received: 09/23/95

% Moisture: not dec. _____ Date Analyzed: 09/27/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | [redacted] | [redacted] |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

included in U

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 000195

EARQ7

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950922703A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARQ7

Level: (low/med) LOW Date Received: 09/23/95

% Moisture: not dec. _____ Date Analyzed: 09/27/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
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WT115A

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000202
EARQ9

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950926001A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARQ9

Level: (low/med) LOW Date Received: 09/26/95

% Moisture: not dec. _____ Date Analyzed: 09/27/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | [illegible] | BJ |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | [illegible] | [illegible] | [illegible] |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

should be J

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000453
EARQ1

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-220-03B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARQ1

Level: (low/med) LOW Date Received: 09/22/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/22/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/25/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 12

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | UNKNOWN | 7.30 | 4 | J |
| 2. | | UNKNOWN ORGANIC ACID | 15.00 | 2 | J |
| 3. | 98-54-4 | PHENOL, P-TERT-BUTYL- | 15.12 | 4 | NJ |
| 4. | 85-44-9 | PHTHALIC ANHYDRIDE | 15.56 | 4 | NJ |
| 5. | | UNKNOWN AMIDE | 19.60 | 3 | J |
| 6. | | UNKNOWN ALCOHOL | 19.96 | 4 | J |
| 7. | | UNKNOWN AMIDE | 20.09 | 3 | J |
| 8. | 934-34-9 | 2(3H)-BENZOTHIAZOLONE | 20.23 | 24 | NJ |
| 9. | | UNKNOWN AMIDE | 20.66 | 2 | J |
| 10. | 50-06-6 | PHENOBARBITAL | 23.58 | 6 | NJ |
| 11. | | UNKNOWN | 26.08 | 17 | J |
| 12. | | UNKNOWN | 27.06 | 4 | J |
| 13. | | | | | |
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000484

EARQ2

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-220-04B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARQ2

Level: (low/med) LOW Date Received: 09/22/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/22/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/25/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000485

EARQ2

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-220-04B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARQ2

Level: (low/med) LOW Date Received: 09/22/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/22/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/25/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 0.2 | J |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(a)anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)phthalate | 0.6 JB | |
| 117-84-0 | Di-n-octylphthalate | 10 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

AV 11-6-95

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000486

EARQ2

Lab Name: ROSS ANALYTICAL SERVICES  Contract: 68-D5-0024

Lab Code: ROSS  Case No.: 24033  SAS No.:  SDG No.: EARP0

Matrix: (soil/water) WATER  Lab Sample ID: 95-09-220-04B

Sample wt/vol: 1000 (g/mL) ML  Lab File ID: EARQ2

Level: (low/med) LOW  Date Received: 09/22/95

% Moisture: _____ decanted: (Y/N)___  Date Extracted:09/22/95

Concentrated Extract Volume: 1000(uL)  Date Analyzed: 10/25/95

Injection Volume: 2.0(uL)  Dilution Factor: 1.0

GPC Cleanup: (Y/N) N  pH: 7.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | UNKNOWN ALKENE | 7.32 | 4 | J |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000498
EARQ3

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-220-05B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARQ3

Level: (low/med) LOW Date Received: 09/22/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/22/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/25/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N. pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000499

EARQ3

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-220-05B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARQ3

Level: (low/med) LOW Date Received: 09/22/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/22/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/25/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(a)anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)phthalate | 10 | JBU |
| 117-84-0 | Di-n-octylphthalate | 10 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

AV 11-6-95

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
# TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000500
EARQ3

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-220-05B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARQ3

Level: (low/med) LOW Date Received: 09/22/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/22/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/25/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | UNKNOWN | 7.31 | 4 | J |
| 2. | 78-40-0 | TRIETHYL PHOSPHATE | 12.36 | 6 | NJ |
| 3. | | UNKNOWN | 21.15 | 2 | J |
| 4. | 50-06-6 | PHENOBARBITAL | 23.56 | 4 | NJ |
| 5. | | | | | |
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000514

EARQ4

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-220-06B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARQ4

Level: (low/med) LOW Date Received: 09/22/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/22/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/25/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000515
EARQ4

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-220-06B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARQ4

Level: (low/med) LOW Date Received: 09/22/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/22/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/25/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U JB |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(a)anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)phthalate | 10 | U JB |
| 117-84-0 | Di-n-octylphthalate | 10 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

AV
11-6-95

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
# TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000516
EARQ4

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-220-06B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARQ4

Level: (low/med) LOW Date Received: 09/22/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/22/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/25/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | UNKNOWN ORGANIC ACID | 19.95 | 2 | J |
| 2. | | UNKNOWN ORGANIC ACID | 21.02 | 2 | J |
| 3. | 50-06-6 | PHENOBARBITAL | 23.56 | 2 | NJ |
| 4. | | UNKNOWN | 23.68 | 3 | J |
| 5. | | | | | |
| 6. | | | | | |
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000531

EARQ6

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-227-02B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARQ6

Level: (low/med) LOW Date Received: 09/23/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/27/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/26/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000532
EARQ6

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-227-02B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARQ6

Level: (low/med) LOW Date Received: 09/23/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/27/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/26/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(a)anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)phthalate | [redacted] | |
| 117-84-0 | Di-n-octylphthalate | 10 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 000533

EARQ6

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-227-02B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARQ6

Level: (low/med) LOW Date Received: 09/23/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/27/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/26/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | UNKNOWN TRICHLOROPROPENE ISO | 9.29 | 9 | JBV |
| 2. | | | | | |
| 3. | | | | | |
| 4. | This TIC should have been flagged "B" by the lab | | | | |
| 5. | since it was also found in the associated | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | method blank. | | | AV | |
| 9. | | | | | |
| 10. | | | | | |
| 11. | | | | 11-6-95 | |
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000545
EARQ7

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-227-03B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARQ7

Level: (low/med) LOW Date Received: 09/23/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/27/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/26/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000546

EARQ7

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-227-03B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARQ7

Level: (low/med) LOW Date Received: 09/23/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/27/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/26/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(a)anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)phthalate | 0.3 | J |
| 117-84-0 | Di-n-octylphthalate | 10 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000547
EARQ7

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-227-03B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARQ7

Level: (low/med) LOW Date Received: 09/23/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/27/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/26/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | UNKNOWN TRICHLOROPROPENE ISO | 9.30 | 3 | J BV |
| 2. | | UNKNOWN ALKENE | 13.03 | 4 | J BV |
| 3. | | | | | |
| 4. | | | | | |
| 5. | These TICs should have been flagged | | | | |
| 6. | | | | | |
| 7. | "B" by the lab since they were also found | | | | |
| 8. | | | | | |
| 9. | | | | | |
| 10. | in the associated method blank | | | | |
| 11. | | | | | |
| 12. | | | | BV | |
| 13. | | | | 11-6-95 | |
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# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000979
PBLKM2

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: PBLKM2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G951013-03R

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) CONT Date Extracted:09/22/95

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/14/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.
000717
PBLKMA

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Lab Sample ID: PBLKMA Lab File ID: G951017-03R

Matrix (soil/water) WATER Extraction:(SepF/Cont/Sonc) CONT

Sulfur Cleanup (Y/N) N Date Extracted: 09/29/95

Date Analyzed (1): 10/18/95 Date Analyzed (2): 10/18/95

Time Analyzed (1): 0022 Time Analyzed (2): 0022

Instrument ID (1): v3400g.i Instrument ID (2): v3400h.i

GC Column (1): RTX-1701 ID: 0.32(mm) GC Column (2): RTX-5 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

| | EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|---|---|---|---|---|
| 01 | EARQ9 | 950926001 | 10/18/95 | 10/18/95 |
| 02 | EARR2 | 950926002 | 10/18/95 | 10/18/95 |
| 03 | | | | |
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COMMENTS: _____

# PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.
000716
PBLKM6

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Lab Sample ID: PBLKM6 Lab File ID: G951013-21R

Matrix (soil/water) WATER Extraction: (SepF/Cont/Sonc) CONT

Sulfur Cleanup (Y/N) N Date Extracted: 09/27/95

Date Analyzed (1): 10/14/95 Date Analyzed (2): 10/14/95

Time Analyzed (1): 1511 Time Analyzed (2): 1511

Instrument ID (1): v3400g.i Instrument ID (2): v3400h.i

GC Column (1): RTX-1701 ID: 0.32(mm) GC Column (2): RTX-5 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

| | EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|---|---|---|---|---|
| 01 | EARQ6 | 950922702 | 10/14/95 | 10/14/95 |
| 02 | EARQ7 | 950922703 | 10/14/95 | 10/14/95 |
| 03 | | | | |
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COMMENTS: _____

4C

# PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.
000715
PBLKM2

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Lab Sample ID: PBLKM2 Lab File ID: G951013-03R

Matrix (soil/water) WATER Extraction: (SepF/Cont/Sonc) CONT

Sulfur Cleanup (Y/N) N Date Extracted: 09/22/95

Date Analyzed (1): 10/14/95 Date Analyzed (2): 10/14/95

Time Analyzed (1): 0124 Time Analyzed (2): 0124

Instrument ID (1): v3400g.i Instrument ID (2): v3400h.i

GC Column (1): RTX-1701 ID: 0.32(mm) GC Column (2): RTX-5 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

| | EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|---|---|---|---|---|
| 01 | EARP1 | 950917602 | 10/14/95 | 10/14/95 |
| 02 | EARP2 | 950917603 | 10/14/95 | 10/14/95 |
| 03 | EARP4 | 950919102 | 10/14/95 | 10/14/95 |
| 04 | EARP4MS | 950919102 MS | 10/14/95 | 10/14/95 |
| 05 | EARP4MSD | 950919102 MSD | 10/14/95 | 10/14/95 |
| 06 | EARP5 | 950919103 | 10/14/95 | 10/14/95 |
| 07 | EARP6 | 950920701 | 10/14/95 | 10/14/95 |
| 08 | EARP8 | 950920703 | 10/14/95 | 10/14/95 |
| 09 | EARQ0 | 950922002 | 10/14/95 | 10/14/95 |
| 10 | EARQ1 | 950922003 | 10/14/95 | 10/14/95 |
| 11 | EARQ2 | 950922004 | 10/14/95 | 10/14/95 |
| 12 | EARQ3 | 950922005 | 10/14/95 | 10/14/95 |
| 13 | EARQ4 | 950922006 | 10/14/95 | 10/14/95 |
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COMMENTS: _____

3E

# WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY 000714

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix Spike - EPA Sample No.: EARP4

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC # | QC. LIMITS REC. |
|---|---|---|---|---|---|
| gamma-BHC (Lindane) | 0.50 | 0.00 | 0.39 | 78 | 56-123 |
| Heptachlor | 0.50 | 0.00 | 0.40 | 80 | 40-131 |
| Aldrin | 0.50 | 0.00 | 0.40 | 80 | 40-120 |
| Dieldrin | 1.0 | 0.00 | 0.91 | 91 | 52-126 |
| Endrin | 1.0 | 0.00 | 0.91 | 91 | 56-121 |
| 4,4'-DDT | 1.0 | 0.00 | 0.82 | 82 | 38-127 |

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| gamma-BHC (Lindane) | 0.50 | 0.38 | 76 | 2 | 15 | 56-123 |
| Heptachlor | 0.50 | 0.39 | 78 | 2 | 20 | 40-131 |
| Aldrin | 0.50 | 0.40 | 80 | 0 | 22 | 40-120 |
| Dieldrin | 1.0 | 0.88 | 88 | 3 | 18 | 52-126 |
| Endrin | 1.0 | 0.87 | 87 | 4 | 21 | 56-121 |
| 4,4'-DDT | 1.0 | 0.78 | 78 | 5 | 27 | 38-127 |

# Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

COMMENTS: _____

# 2E
# WATER PESTICIDE SURROGATE RECOVERY

Lab Name: ROSS ANALYTICAL SERVICES  Contract: 68-D5-0024

Lab Code: ROSS  Case No.: 24033  SAS No.:  SDG No.: EARP0

GC Column(1): RTX-1701  ID: 0.32 (mm)  GC Column(2): RTX-5  ID: 0.32 (mm)

| | EPA SAMPLE NO. | TCX 1 %REC # | TCX 2 %REC # | DCB 1 %REC # | DCB 2 %REC # | OTHER (1) | OTHER (2) | TOT OUT |
|---|---|---|---|---|---|---|---|---|
| 01 | PBLKM2 | 92 | 79 | 62 | 59 | | | 0 |
| 02 | EARP1 | 144 | 102 | 95 | 88 | | | 0 |
| 03 | EARP2 | 101 | 89 | 95 | 74 | | | 0 |
| 04 | EARP4 | 81 | 79 | 71 | 84 | | | 0 |
| 05 | EARP4MS | 121 | 87 | 74 | 107 | | | 0 |
| 06 | EARP4MSD | 123 | 86 | 70 | 73 | | | 0 |
| 07 | EARP5 | 134 | 76 | 65 | 64 | | | 0 |
| 08 | EARP6 | 89 | 84 | 108 | 68 | | | 0 |
| 09 | EARP8 | 99 | 73 | 95 | 102 | | | 0 |
| 10 | EARQ0 | 69 | 62 | 28* | 47 | | | 1 |
| 11 | EARQ1 | 82 | 71 | 78 | 27* | | | 1 |
| 12 | EARQ2 | 101 | 78 | 41 | 92 | | | 0 |
| 13 | EARQ3 | 80 | 82 | 51 | 48 | | | 0 |
| 14 | EARQ4 | 99 | 106 | 37 | 35 | | | 0 |
| 15 | PBLKM6 | 126 | 70 | 137 | 64 | | | 0 |
| 16 | EARQ6 | 131 | 62 | 114 | 132 | | | 0 |
| 17 | EARQ7 | 95 | 80 | 137 | 99 | | | 0 |
| 18 | PBLKMA | 103 | 92 | 84 | 82 | | | 0 |
| 19 | EARQ9 | 88 | 90 | 76 | 70 | | | 0 |
| 20 | EARR2 | 86 | 88 | 48 | 130 | | | 0 |
| 21 | | | | | | | | |
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QC LIMITS

S1 (TCX) = Tetrachloro-m-xylene (30-150)
S2 (DCB) = Decachlorobiphenyl (30-150)

# Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000575
EARR2

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-260-02B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARR2

Level: (low/med) LOW Date Received: 09/26/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/29/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/26/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 7

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | UNKNOWN ALCOHOL | 8.95 | 6 | J |
| 2. | 78-40-0 | TRIETHYL PHOSPHATE | 12.36 | 33 | NJ |
| 3. | | UNKNOWN ALCOHOL | 17.86 | 2 | J |
| 4. | 88-19-7 | BENZENESULFONAMIDE, 2-METHYL | 19.59 | 4 | NJ |
| 5. | 0-00-0 | EPHEDRINE ACETATE | 21.16 | 3 | NJ |
| 6. | 50-06-6 | PHENOBARBITAL | 23.57 | 11 | NJ |
| 7. | | UNKNOWN | 26.03 | 6 | J |
| 8. | | | | | |
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000574

EARR2

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-260-02B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARR2

Level: (low/med) LOW Date Received: 09/26/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/29/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/26/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(a)anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)phthalate | 3 | U |
| 117-84-0 | Di-n-octylphthalate | 10 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000573

EARR2

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-260-02B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARR2

Level: (low/med) LOW Date Received: 09/26/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/29/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/26/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
# TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000563
EARQ9

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-260-01B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARQ9

Level: (low/med) LOW Date Received: 09/26/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/29/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/26/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |
| 10. | | | | | |
| 11. | | | | | |
| 12. | | | | | |
| 13. | | | | | |
| 14. | | | | | |
| 15. | | | | | |
| 16. | | | | | |
| 17. | | | | | |
| 18. | | | | | |
| 19. | | | | | |
| 20. | | | | | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000562
EARQ9

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-260-01B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARQ9

Level: (low/med) LOW Date Received: 09/26/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/29/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/26/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(a)anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)phthalate | 0.4 | J |
| 117-84-0 | Di-n-octylphthalate | 10 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000561

EARQ9

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-260-01B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARQ9

Level: (low/med) LOW Date Received: 09/26/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/29/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/26/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000984

PBLKM6

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: PBLKM6

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G951013-21R

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) CONT Date Extracted:09/27/95

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/14/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000990
PBLKMA

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: PBLKMA

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G951017-03R

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 09/29/95

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/18/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000718
EARP1

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950917602

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G951013-04R

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/19/95

Extraction: (SepF/Cont/Sonc) CONT Date Extracted:09/22/95

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/14/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000723
EARP2

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950917603

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G951013-05R

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/19/95

Extraction: (SepF/Cont/Sonc) CONT Date Extracted:09/22/95

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/14/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000728
EARP4

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950919102

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G951013-06R

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/20/95

Extraction: (SepF/Cont/Sonc) CONT Date Extracted:09/22/95

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/14/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

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# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000733

EARP5

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950919103

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G951013-09R

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/20/95

Extraction: (SepF/Cont/Sonc) CONT Date Extracted:09/22/95

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/14/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

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# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000738

EARP6

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950920701

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G951013-10R

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/21/95

Extraction: (SepF/Cont/Sonc) CONT Date Extracted:09/22/95

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/14/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000743
EARP8

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950920703

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G951013-11R

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/21/95

Extraction: (SepF/Cont/Sonc) CONT Date Extracted:09/22/95

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/14/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

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# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000749
EARQ0

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950922002

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G951013-12R

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/22/95

Extraction: (SepF/Cont/Sonc) CONT Date Extracted:09/22/95

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/14/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

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# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000755
EARQ1

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950922003

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G951013-13R

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/22/95

Extraction: (SepF/Cont/Sonc) CONT Date Extracted:09/22/95

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/14/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

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# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000761
EARQ2

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950922004

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G951013-14R

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/22/95

Extraction: (SepF/Cont/Sonc) CONT Date Extracted:09/22/95

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/14/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.012 | J |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

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# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000767
EARQ3

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950922005

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G951013-19R

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/22/95

Extraction: (SepF/Cont/Sonc) CONT Date Extracted:09/22/95

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/14/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

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# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000772

EARQ4

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950922006

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G951013-20R

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/22/95

Extraction: (SepF/Cont/Sonc) CONT Date Extracted:09/22/95

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/14/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

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# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000777

EARQ6

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950922702

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G951013-22R

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/23/95

Extraction: (SepF/Cont/Sonc) CONT Date Extracted:09/27/95

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/14/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000783
EARQ7

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950922703

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G951013-23R

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/23/95

Extraction: (SepF/Cont/Sonc) CONT Date Extracted:09/27/95

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/14/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.012 | JP |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000790
EARQ9

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950926001

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G951017-04R

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/26/95

Extraction: (SepF/Cont/Sonc) CONT Date Extracted:09/29/95

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/18/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000795

EARR2

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950926002

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G951017-05R

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/26/95

Extraction: (SepF/Cont/Sonc) CONT Date Extracted:09/29/95

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/18/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Data Set No: _____ CERCLIS No: IND980500292

Case No: 24033 Site Name Location: Hinco Dump

Contractor or EPA Lab: ROSS Data User: SF

No. of Samples: 20 Date Sampled or Data Received: 10-31-95

Have Chain-of-Custody records been received? Yes ✓ No ___
Have traffic reports or packing lists been received? Yes ✓ No ___
If no, are traffic report or packing list numbers written on the chain-of-custody record? Yes ✓ No ___
If no, which traffic report or packing list numbers are missing?

___ ___ ___ ___

___ ___ ___ ___

Are basic data forms in? Yes ✓ No ___
No of samples claimed: 20 No. of samples received: 20
Received by: Lynette Burnett Date: 10-31-95
Received by LSS: Lynette Burnett Date: 11-1-95
Review started: 2 Nov. 1995 Reviewer Signature: Al Venuto
Total time spent on review: 19 hrs. Date review completed: 11-7-95
Copied by: Lynette Burnett Date: 11-15-95
Mailed to user by: Lynette Burnett Date: 11-15-95

**DATA USER:**
Please fill in the blanks below and return this form to:
Sylvia Griffen, Data mgmt. Coordinator, Region V, 5SCRL

Data received by: _____ Date: _____

Data review received by: _____ Date: _____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

**PROBLEMS:** Please indicate reasons why data are not suitable for y uses.

_____

_____

Received by Data Mgmt. Coordinator for Files. Data: _____

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000203
EARQ9

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950926001A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARQ9

Level: (low/med) LOW Date Received: 09/26/95

% Moisture: not dec. _____ Date Analyzed: 09/27/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 75-43-4 | METHANE, DICHLOROFLUORO- | 9.52 | 81 | N |
| 2. | 60-29-7 | ETHER | 10.43 | 58 | N |
| 3. | | | | | |
| 4. | | | | | |
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1A

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000213
EARR2

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 950926002A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARR2

Level: (low/med) LOW Date Received: 09/26/95

% Moisture: not dec. _____ Date Analyzed: 09/27/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | [redacted] | 13 |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000214

EARR2

Lab Name: ROSS ANALYTICAL SERVICES  Contract: 68-D5-0024

Lab Code: ROSS  Case No.: 24033  SAS No.:  SDG No.: EARP0

Matrix: (soil/water) WATER  Lab Sample ID: 950926002A

Sample wt/vol: 5.000 (g/mL) ML  Lab File ID: EARR2

Level: (low/med) LOW  Date Received: 09/26/95

% Moisture: not dec. _____  Date Analyzed: 09/27/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.0

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

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 75-45-6 | METHANE, CHLORODIFLUORO- | 4.56 | 9 | NJ |
| 2. | 593-70-4 | METHANE, CHLOROFLUORO- | 6.43 | 17 | NJ |
| 3. | 75-43-4 | METHANE, DICHLOROFLUORO- | 9.52 | 19 | NJ |
| 4. | 60-29-7 | ETHER | 10.41 | 75 | NJ |
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# WATER SEMIVOLATILE SURROGATE RECOVERY



Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

| | EPA SAMPLE NO. | S1 (NBZ) # | S2 (FBP) # | S3 (TPH) # | S4 (PHL) # | S5 (2FP) # | S6 (TBP) # | S7 (2CP) # | S8 (DCB) # | TOT OUT |
|---|---|---|---|---|---|---|---|---|---|---|
| 01 | SBLKM1 | 57 | 52 | 77 | 55 | 50 | 65 | 53 | 42 | 0 |
| 02 | EARP1 | 64 | 59 | 86 | 59 | 46 | 65 | 57 | 49 | 0 |
| 03 | EARP2 | 51 | 45 | 80 | 46 | 46 | 62 | 47 | 39 | 0 |
| 04 | EARP4 | 74 | 65 | 84 | 70 | 67 | 78 | 67 | 52 | 0 |
| 05 | EARP4MS | 66 | 59 | 85 | 61 | 53 | 76 | 60 | 49 | 0 |
| 06 | EARP4MSD | 64 | 61 | 87 | 60 | 56 | 75 | 60 | 50 | 0 |
| 07 | EARP5 | 60 | 58 | 74 | 53 | 52 | 60 | 53 | 50 | 0 |
| 08 | SBLKM5 | 64 | 68 | 80 | 72 | 69 | 73 | 66 | 65 | 0 |
| 09 | SBLKM9 | 52 | 48 | 80 | 50 | 49 | 60 | 48 | 42 | 0 |
| 10 | EARP6 | 61 | 55 | 79 | 59 | 57 | 72 | 55 | 50 | 0 |
| 11 | EARP8 | 58 | 53 | 77 | 55 | 54 | 72 | 51 | 45 | 0 |
| 12 | EARQ0 | 60 | 57 | 69 | 72 | 56 | 101 | 61 | 39 | 0 |
| 13 | EARQ1 | 66 | 61 | 76 | 77 | 68 | 99 | 69 | 45 | 0 |
| 14 | EARQ2 | 64 | 55 | 81 | 66 | 64 | 57 | 62 | 49 | 0 |
| 15 | EARQ3 | 76 | 69 | 78 | 80 | 74 | 70 | 75 | 61 | 0 |
| 16 | EARQ4 | 61 | 52 | 80 | 62 | 59 | 78 | 58 | 46 | 0 |
| 17 | EARQ6 | 55 | 54 | 73 | 54 | 51 | 27 | 52 | 49 | 0 |
| 18 | EARQ7 | 60 | 57 | 80 | 56 | 52 | 44 | 54 | 50 | 0 |
| 19 | EARQ9 | 61 | 55 | 62 | 60 | 58 | 67 | 58 | 51 | 0 |
| 20 | EARR2 | 55 | 50 | 68 | 57 | 51 | 80 | 54 | 43 | |
| 21 | | | | | | | | | | |
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| 29 | | | | | | | | | | |
| 30 | | | | | | | | | | |

| | | QC LIMITS | |
|---|---|---|---|
| S1 (NBZ) | = Nitrobenzene-d5 | (35-114) | |
| S2 (FBP) | = 2-Fluorobiphenyl | (43-116) | |
| S3 (TPH) | = Terphenyl-d14 | (33-141) | |
| S4 (PHL) | = Phenol-d5 | (10-110) | |
| S5 (2FP) | = 2-Fluorophenol | (21-110) | |
| S6 (TBP) | = 2,4,6-Tribromophenol | (10-123) | |
| S7 (2CP) | = 2-Chlorophenol-d4 | (33-110) | (ADVISORY) |
| S8 (DCB) | = 1,2-Dichlorobenzene-d4 | (16-110) | (ADVISORY) |

# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

3C

# WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ROSS ANALYTICAL SERVICES  Contract: 68-D5-0024

Lab Code: ROSS  Case No.: 24033  SAS No.:  SDG No.: EARP0

Matrix Spike - EPA Sample No.: EARP4

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC # | QC. LIMITS REC. |
|---|---|---|---|---|---|
| Phenol | 75.0 | 0.000 | 40.3 | 54 | 12-110 |
| 2-Chlorophenol | 75.0 | 0.000 | 42.0 | 56 | 27-123 |
| 1,4-Dichlorobenzene | 50.0 | 0.000 | 19.1 | 38 | 36- 97 |
| N-Nitroso-di-n-prop.(1) | 50.0 | 0.000 | 27.8 | 56 | 41-116 |
| 1,2,4-Trichlorobenzene | 50.0 | 0.000 | 18.8 | 38* | 39- 98 |
| 4-Chloro-3-methylphenol | 75.0 | 0.000 | 40.9 | 54 | 23- 97 |
| Acenaphthene | 50.0 | 0.000 | 29.2 | 58 | 46-118 |
| 4-Nitrophenol | 75.0 | 0.000 | 55.5 | 74 | 10- 80 |
| 2,4-Dinitrotoluene | 50.0 | 0.000 | 33.7 | 67 | 24- 96 |
| Pentachlorophenol | 75.0 | 0.000 | 36.8 | 49 | 9-103 |
| Pyrene | 50.0 | 0.000 | 37.5 | 75 | 26-127 |

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| Phenol | 75.0 | 39.1 | 52 | 4 | 42 | 12-110 |
| 2-Chlorophenol | 75.0 | 41.8 | 56 | 0 | 40 | 27-123 |
| 1,4-Dichlorobenzene | 50.0 | 22.7 | 45 | 17 | 28 | 36- 97 |
| N-Nitroso-di-n-prop.(1) | 50.0 | 28.8 | 58 | 4 | 38 | 41-116 |
| 1,2,4-Trichlorobenzene | 50.0 | 21.4 | 43 | 12 | 28 | 39- 98 |
| 4-Chloro-3-methylphenol | 75.0 | 42.2 | 56 | 4 | 42 | 23- 97 |
| Acenaphthene | 50.0 | 30.3 | 61 | 5 | 31 | 46-118 |
| 4-Nitrophenol | 75.0 | 56.9 | 76 | 3 | 50 | 10- 80 |
| 2,4-Dinitrotoluene | 50.0 | 33.2 | 66 | 2 | 38 | 24- 96 |
| Pentachlorophenol | 75.0 | 49.9 | 66 | 30 | 50 | 9-103 |
| Pyrene | 50.0 | 38.4 | 77 | 3 | 31 | 26-127 |

(1) N-Nitroso-di-n-propylamine
# Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 1 out of 22 outside limits

COMMENTS: _____

4B

# SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
000327
SBLKM1

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Lab File ID: SBLKM1 Lab Sample ID: SBLKM1

Instrument ID: hpmsg.i Date Extracted: 09/22/95

Matrix: (soil/water) WATER Date Analyzed: 10/25/95

Level: (low/med) LOW Time Analyzed: 0716

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|---|
| 01 | EARP1 | 95-09-176-02B | EARP1 | 10/25/95 |
| 02 | EARP2 | 95-09-176-03B | EARP2 | 10/25/95 |
| 03 | EARP4 | 95-09-191-02B | EARP4 | 10/25/95 |
| 04 | EARP4MS | 95-09-191-02B | EARP4MS | 10/25/95 |
| 05 | EARP4MSD | 95-09-191-02B | EARP4MSD | 10/25/95 |
| 06 | EARP5 | 95-09-191-03B | EARP5 | 10/25/95 |
| 07 | EARP6 | 95-09-207-01B | EARP6 | 10/25/95 |
| 08 | EARP8 | 95-09-207-03B | EARP8 | 10/25/95 |
| 09 | EARQ0 | 95-09-220-02B | EARQ0 | 10/25/95 |
| 10 | EARQ1 | 95-09-220-03B | EARQ1 | 10/25/95 |
| 11 | EARQ2 | 95-09-220-04B | EARQ2 | 10/25/95 |
| 12 | EARQ3 | 95-09-220-05B | EARQ3 | 10/25/95 |
| 13 | EARQ4 | 95-09-220-06B | EARQ4 | 10/25/95 |
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COMMENTS:

4B

# SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO. 000328

SBLKM5

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Lab File ID: SBLKM5 Lab Sample ID: SBLKM5

Instrument ID: hpmsg.i Date Extracted: 09/27/95

Matrix: (soil/water) WATER Date Analyzed: 10/25/95

Level: (low/med) LOW Time Analyzed: 1633

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|---|
| 01 | EARQ6 | 95-09-227-02B | EARQ6 | 10/26/95 |
| 02 | EARQ7 | 95-09-227-03B | EARQ7 | 10/26/95 |
| 03 | | | | |
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COMMENTS:

4B

# SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
000329

SBLKM9

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Lab File ID: SBLKM9 Lab Sample ID: SBLKM9

Instrument ID: hpmsg.i Date Extracted: 09/29/95

Matrix: (soil/water) WATER Date Analyzed: 10/25/95

Level: (low/med) LOW Time Analyzed: 1720

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|---|
| 01 | EARQ9 | 95-09-260-01B | EARQ9 | 10/26/95 |
| 02 | EARR2 | 95-09-260-02B | EARR2 | 10/26/95 |
| 03 | | | | |
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COMMENTS:

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000657

SBLKM1

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: SBLKM1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SBLKM1

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/22/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/25/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLKM1

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: SBLKM1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SBLKM1

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/22/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/25/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 0.6 | J |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(a)anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)phthalate | 1 | J |
| 117-84-0 | Di-n-octylphthalate | 10 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000659
SBLKM1

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: SBLKM1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SBLKM1

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/22/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/25/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 931-17-9 | 1,2-CYCLOHEXANEDIOL | 11.55 | 5 | NJ |
| 2. | | | | | |
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000670
SBLKM5

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: SBLKM5

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SBLKM5

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/27/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/25/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

1C

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000671

SBLKM5

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: SBLKM5

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SBLKM5

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/27/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/25/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(a)anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)phthalate | 10 | U |
| 117-84-0 | Di-n-octylphthalate | 10 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
# TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000672
SBLKM5

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: SBLKM5

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SBLKM5

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/27/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/25/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | UNKNOWN ALKENE | 9.29 | 13 | J |
| 2. | | UNKNOWN ALCOHOL | 11.55 | 4 | J |
| 3. | | UNKNOWN | 13.02 | 10 | J |
| 4. | | | | | |
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000683
SBLKM9

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: SBLKM9

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SBLKM9

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/29/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/25/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000684

SBLKM9

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: SBLKM9

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SBLKM9

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/29/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/25/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(a)anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)phthalate | 10 | U |
| 117-84-0 | Di-n-octylphthalate | 10 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 000685

SBLKM9

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: SBLKM9

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SBLKM9

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/29/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/25/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000337
EARP1

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-176-02B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARP1

Level: (low/med) LOW Date Received: 09/19/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/22/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/25/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000338

EARP1

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-176-02B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARP1

Level: (low/med) LOW Date Received: 09/19/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/22/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/25/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | ~~10~~ 0.6 | ~~JBU~~ |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(a)anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)phthalate | ~~10~~ 0.3 | ~~JBU~~ |
| 117-84-0 | Di-n-octylphthalate | 10 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | UJ |

AV 11-6-95

(1) - Cannot be separated from Diphenylamine

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
# TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 000339

EARP1

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-176-02B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARP1

Level: (low/med) LOW Date Received: 09/19/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/22/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/25/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | UNKNOWN | 7.30 | 4 | J |
| 2. | | UNKNOWN | 13.01 | 2 | J |
| 3. | | | | | |
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000351

EARP2

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-176-03B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARP2

Level: (low/med) LOW Date Received: 09/19/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/22/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/25/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000352

EARP2

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-176-03B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARP2

Level: (low/med) LOW Date Received: 09/19/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/22/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/25/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | ~~10~~ 0.4 | JBU |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(a)anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)phthalate | ~~10~~ 0.2 | JBU |
| 117-84-0 | Di-n-octylphthalate | 10 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | UJ |

(1) - Cannot be separated from Diphenylamine

AV 11-6-95

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000353

EARP2

Lab Name: ROSS ANALYTICAL SERVICES  Contract: 68-D5-0024

Lab Code: ROSS  Case No.: 24033  SAS No.:  SDG No.: EARP0

Matrix: (soil/water) WATER  Lab Sample ID: 95-09-176-03B

Sample wt/vol: 1000 (g/mL) ML  Lab File ID: EARP2

Level: (low/med) LOW  Date Received: 09/19/95

% Moisture: _____ decanted: (Y/N)___  Date Extracted:09/22/95

Concentrated Extract Volume: 1000(uL)  Date Analyzed: 10/25/95

Injection Volume: 2.0(uL)  Dilution Factor: 1.0

GPC Cleanup: (Y/N) N  pH: 7.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000363
EARP4

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-191-02B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARP4

Level: (low/med) LOW Date Received: 09/20/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/22/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/25/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | UJ |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000364

EARP4

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-191-02B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARP4

Level: (low/med) LOW Date Received: 09/20/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/22/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/25/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | ~~0.4~~ 10 | JBU |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(a)anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)phthalate | ~~0.8~~ 10 | JBU |
| 117-84-0 | Di-n-octylphthalate | 10 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | UJ |

AV 11-6-95

(1) - Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000365
EARP4

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-191-02B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARP4

Level: (low/med) LOW Date Received: 09/20/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/22/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/25/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 1460-57-7 | 1,2-CYCLOHEXANEDIOL, TRANS- | 11.55 | 3 | NJBU |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
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| 20. | | | | | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | The lab should have flagged this TIC | | | | |
| 26. | | | | | |
| 27. | "B" since it was also found in the associ- | | | | |
| 28. | | | | | |
| 29. | ated method blank. | | AV | | |
| 30. | | | 11-6-95 | | |

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000377

EARP5

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-191-03B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARP5

Level: (low/med) LOW Date Received: 09/20/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/22/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/25/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000378

EARP5

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-191-03B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARP5

Level: (low/med) LOW Date Received: 09/20/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/22/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/25/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(a)anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)phthalate | 10 | JBV |
| 117-84-0 | Di-n-octylphthalate | 10 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | UJ |

AV 11-6-95

(1) - Cannot be separated from Diphenylamine

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 000379

EARP5

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-191-03B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARP5

Level: (low/med) LOW Date Received: 09/20/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/22/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/25/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 1

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 1460-57-7 | 1,2-CYCLOHEXANEDIOL, TRANS- | 11.53 | 3 | NJ BU |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | The lab should have flagged this TIC "B" | | | | |
| 6. | | | | | |
| 7. | since it was also found in the associated | | | | |
| 8. | | | | | |
| 9. | method blank. | | | AV | |
| 10. | | | | | |
| 11. | | | | 11-6-95 | |
| 12. | | | | | |
| 13. | | | | | |
| 14. | | | | | |
| 15. | | | | | |
| 16. | | | | | |
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| 30. | | | | | |

1B

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000388
EARP6

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-207-01B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARP6

Level: (low/med) LOW Date Received: 09/21/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/22/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/25/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000389

EARP6

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-207-01B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARP6

Level: (low/med) LOW Date Received: 09/21/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/22/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/25/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(a)anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)phthalate | ~~10~~ 0.4 | JBU |
| 117-84-0 | Di-n-octylphthalate | 10 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

AV 11-6-95

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
**000390**

EARP6

Lab Name: ROSS ANALYTICAL SERVICES  Contract: 68-D5-0024

Lab Code: ROSS  Case No.: 24033  SAS No.:  SDG No.: EARP0

Matrix: (soil/water) WATER  Lab Sample ID: 95-09-207-01B

Sample wt/vol: 1000 (g/mL) ML  Lab File ID: EARP6

Level: (low/med) LOW  Date Received: 09/21/95

% Moisture: _____ decanted: (Y/N)___  Date Extracted:09/22/95

Concentrated Extract Volume: 1000(uL)  Date Analyzed: 10/25/95

Injection Volume: 2.0(uL)  Dilution Factor: 1.0

GPC Cleanup: (Y/N) N  pH: 7.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
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| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000403

EARP8

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-207-03B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARP8

Level: (low/med) LOW Date Received: 09/21/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/22/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/25/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000404

EARP8

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-207-03B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARP8

Level: (low/med) LOW Date Received: 09/21/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/22/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/25/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(a)anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)phthalate | 10 ~~0.4~~ | JBV |
| 117-84-0 | Di-n-octylphthalate | 10 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | U |

AV 11-6-95

(1) - Cannot be separated from Diphenylamine

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000405
EARP8

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-207-03B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARP8

Level: (low/med) LOW Date Received: 09/21/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/22/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/25/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | UNKNOWN ALCOHOL | 7.32 | 3 | J |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000418

EARQ0

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-220-02B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARQ0

Level: (low/med) LOW Date Received: 09/22/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/22/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/25/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.5 | J |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 3 | J |

WT116 Dup?

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000419

EARQ0

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-220-02B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARQ0

Level: (low/med) LOW Date Received: 09/22/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/22/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/25/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 2 | J |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | ~~0.2~~ 10 | ~~JB~~ U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 3 | J |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 0.2 | J |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | .6 | J |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(a)anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)phthalate | 10 ~~4.0~~ | ~~JB~~ U |
| 117-84-0 | Di-n-octylphthalate | 10 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

AV 11-6-95

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000420
EARQ0

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-220-02B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARQ0

Level: (low/med) LOW Date Received: 09/22/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/22/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/25/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 12

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | UNKNOWN ALCOHOL | 12.93 | 2 | J |
| 2. | | UNKNOWN | 13.75 | 2 | J |
| 3. | 98-54-4 | PHENOL, P-TERT-BUTYL- | 15.12 | 4 | NJ |
| 4. | 10544-50-0 | SULFUR, MOL. (S8) | 18.62 | 3 | NJ |
| 5. | 88-19-7 | BENZENESULFONAMIDE, 2-METHYL | 19.60 | 2 | NJ |
| 6. | | UNKNOWN | 19.96 | 4 | J |
| 7. | 70-55-3 | BENZENESULFONAMIDE, 4-METHYL | 20.09 | 3 | NJ |
| 8. | 934-34-9 | 2(3H)-BENZOTHIAZOLONE | 20.23 | 24 | NJ |
| 9. | 50-06-6 | PHENOBARBITAL | 23.57 | 7 | NJ |
| 10. | | UNKNOWN | 24.87 | 6 | J |
| 11. | | UNKNOWN | 26.09 | 12 | J |
| 12. | | UNKNOWN | 27.05 | 3 | J |
| 13. | | | | | |
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000451
EARQ1

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-220-03B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARQ1

Level: (low/med) LOW Date Received: 09/22/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/22/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/25/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 0.4 | J |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | .25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 3 | J |

WT-16

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000452

EARQ1

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARP0

Matrix: (soil/water) WATER Lab Sample ID: 95-09-220-03B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARQ1

Level: (low/med) LOW Date Received: 09/22/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/22/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/25/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 2 | J |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 3 | J |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 0.3 | J |
| 86-74-8 | Carbazole | 6 | J |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(a)anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)phthalate | 15 | B |
| 117-84-0 | Di-n-octylphthalate | 10 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

# ATTACHMENT 2, APPENDIX A
# CASE NARRATIVE AND ANALYTICAL RESULTS
# FOR SAMPLE DELIVERY GROUP EARR3

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Region V CLP Data
Received for Review on NOV 8, 1995

FROM: Stephen L. Ostrodka, Chief (HSRL-5J)
Superfund Technical Support Section

TO: Data User: SF Patricia J Scott /JM
Steve Ostrodka 11/16/95

We have reviewed the data for the following case:

SITE NAME: Himco Dump (IN)

CASE NUMBER: 24033 SDG NUMBER: EARR3

Number and Type of Samples: 12 (water)

Sample Numbers: EARQ8, EARRQ-1, EARR3-9 EARS0-1

Laboratory: ROSS Hrs. for Review: 12+2=14 hrs

Following are our findings:

The data is acceptable and usable with the quantitation described in the attached narrative.

Patricia J Scott

cc: Regional TPO
Brian Freeman
HSMC-5J

**NARRATIVE**

**CASE: 24033**
**SDG# EARR3**
**LABORATORY: Ross Analytical Services**
**SITE: Himco Dump (IN)**

**Below is a summary of the out-of-control audits and the possible effect on the data for this case:**

This review covers twelve water samples (EARQ8, EARR0, EARR1, EARR3 through EARR9, EARS0 and EARS1) for complete organic analysis at low levels except for samples EARR8, EARR9 and EARS1, which were analyzed for volatiles only. The samples were collected on 9/25/95 through 9/27/95 and each was received by the lab one day after its respective collection. The semi-volatile fraction of sample EARRS0 is "R", unusable, because the holding time for extraction was grossly exceeded.

The reviewer's narrative and data qualifiers follow.

Reviewed by: Al Venuto (Lockheed/ESAT)
Date: 13 November 1995

**NARRATIVE**

**CASE: 24033**
**SDG# EARR3**
**LABORATORY: Ross Analytical Services**
**SITE: Himco Dump (IN)**

**1. Holding Times:**

All samples were promptly analyzed for volatiles and easily met the fourteen day holding time from date of sampling for preserved waters.

All samples analyzed for semi-volatiles were extracted well within the seven day holding time for this fraction except for EARS0, which was extracted far beyond even the extended fourteen day holding time; all extracts were promptly analyzed. The lab indicated in their narrative that this was actually a re-extraction since the original extract failed the Q.C. criteria. It is unfortunate that the lab did not include the results from the original analysis since the qualifications would most likely have been less severe. Because no target compounds were found in this sample, all semi-volatile target results must be considered "R", unusable and the values for the two TICs should be considered J, estimated.

All samples analyzed for pesticides/PCBs were extracted well within the seven day holding time for this fraction; all extracts were promptly analyzed.

**2. GC/MS Tuning and GC Instrument Performance:**

The GC/MS tuning and mass calibration were all within the required Q.C. limits. All pesticide breakdown results were below the maximum permissible limits. All pesticide resolution checks were at or very near the ideal 100%.

**3. Calibration:**

The few volatile and semi-volatile calibration outliers are listed on the outliers forms; there were no pesticide outliers, but the forms are included for reference. All RPDs in the pesticide calibration verification summaries (Pest-1) were well below the maximum permissible 25%.

**NARRATIVE**

**CASE: 24033**
**SDG# EARR3**
**LABORATORY: Ross Analytical Services**
**SITE: Himco Dump (IN)**

**4. Method Blanks:**

The three volatile method blanks were completely clean.

The semi-volatile method blank SBLKPZ2 contained the common phthalate esters ~~diethyl~~ di-n-butyl phthalate and *bis*(2-ethylhexyl) phthalate (both only a tiny fraction of CRQL) plus a single TIC identified as an unknown alcohol; *bis*(2-ethylhexyl) phthalate was also found in almost all of its associated samples, but none contained ~~diethyl~~ di-n-butyl phthalate and only EARR7 contained the TIC. SBLKPZ4 contained *bis*(2-ethylhexyl) phthalate (also found in its associated sample) plus two TICs (neither of which was found in the sample).

The pesticide method blank contained no target analytes.

Target analytes and TICs found in both the sample and the associated method blank, and therefore flagged "B" by the lab, are further flagged "U" by the reviewer if the analytes are present in the sample at no more than five times (or ten times for common contaminants) the amount in the method blank. If the value is less than CRQL, it is deleted and raised to CRQL by the reviewer.

**5. Surrogate Recoveries:**

All volatile and semi-volatile surrogate recoveries were within the Q.C. limits.

For the pesticide fraction, all surrogate recoveries were within the Q.C. limits except those for decachlorobiphenyl (DCB) in EARR0 (both columns) which were slightly below the lower limit. Since the sample contained no target analytes, the pesticide/PCB results for EARR0 should be considered UJ, estimated quantitation limits.

**6. Matrix Spikes and Matrix Spike Duplicates:**

Sample EARR3 was chosen to be the matrix spike sample. All volatile MS and MSD recoveries were well within the Q.C. limits, but the RPD for 1,1-dichloroethene was slightly above the limit. Since this compound was not found in the unspiked sample, no action is recommended.

Reviewed by: Al Venuto (Lockheed/ESAT)
Date: 13 November 1995

**NARRATIVE**

**CASE: 24033**
**SDG# EARR3**
**LABORATORY: Ross Analytical Services**
**SITE: Himco Dump (IN)**

All semi-volatile MS and MSD recoveries and RPDs were well within the Q.C. limits.

All pesticide MS and MSD recoveries and RPDs were within the Q.C. limits.

**7. Field Duplicates and Field Blanks:**

No samples in this case were identified as duplicates.

Samples EARR8, EARR9 and EARS1 were identified as trip blanks and analyzed for volatiles only. Both EARR8 and EARR9 contained the common contaminants methylene chloride and acetone; in addition, EARR9 contained the target compound 4-methyl-2-pentanone. All analytes were well below CRQL. Sample EARS1 contained only methylene chloride, but it was slightly above CRQL.

**8. Internal Standards Performance:**

All volatile and semi-volatile IS areas were very well within the Q.C. limits.

**9. Compound Identification:**

The compound identifications for all fractions appear to be satisfactory.

**10. Compound Quantitation and Reported Detection Limits:**

The correct limits were used and no dilutions were made; therefore, no adjustments were necessary.

**11. System Performance:**

All aspects of the system performance appear to be satisfactory.

**12. Additional Case-Specific Problems:**

None noted.

Reviewed by: Al Venuto (Lockheed/ESAT)
Date: 13 November 1995

**CALIBRATION OUTLIER**
**Volatile TCL**
(Page 1 of 1)

CASE/SAS #: 24033 SDG# EARR3
COLUMN: DB624
HEATED PURGE (Y/N) N

LABORATORY: ROSS ANALYT.
SITE NAME: Hunco Dump (IN)

| Instrument ID: F500A.i | | Initial Cal. | | | Cont. Cal. | | | Cont. Cal. | | | Cont. Cal. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date: 9-25-95 | | | | | | | | | | | | | |
| Time: | | 9-25-95 20:44 | | | 9-27-95 19:58 | | | 9-29-95 14:31 | | | 10-2-95 8:38 | | |
| | # | RF | %RSD | * | RF | %D | * | RF | %D | * | RF | %D | * |
| Chloromethane | 0.010 | | | | | | | | | | | | |
| Bromomethane | 0.100 | | | | | | | | | | | | |
| Vinyl Chloride | 0.100 | | | | | | | | | | | | |
| Chloroethane | 0.010 | | | | | | | | | | | | |
| Methylene Chloride | 0.010 | | | | | | | | | | | | |
| Acetone | 0.010 | .421 | | | .398 | | | .307 | 27.1 | J | .344 | | |
| Carbon Disulfide | 0.010 | | | | | | | | | | | | |
| 1,1-Dichloroethene | 0.100 | | | | | | | | | | | | |
| 1,1-Dichloroethane | 0.200 | | | | | | | | | | | | |
| 1,2-Dichloroethene (total) | 0.010 | | | | | | | | | | | | |
| Chloroform | 0.200 | | | | | | | | | | | | |
| 1,2-Dichloroethane | 0.100 | | | | | | | | | | | | |
| 2-Butanone | 0.010 | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 0.100 | | | | | | | | | | | | |
| Carbon Tetrachloride | 0.100 | .702 | | | .681 | | | .690 | | | .496 | 29.3 | J |
| Bromodichloromethane | 0.200 | | | | | | | | | | | | |
| 1,2-Dichloropropane | 0.010 | | | | | | | | | | | | |
| cis-1,3-Dichloropropene | 0.200 | | | | | | | | | | | | |
| Trichloroethene | 0.300 | | | | | | | | | | | | |
| Dibromochloromethane | 0.100 | | | | | | | | | | | | |
| 1,1,2-Trichloroethane | 0.100 | | | | | | | | | | | | |
| Benzene | 0.500 | | | | | | | | | | | | |
| trans-1,3-Dichloropropene | 0.100 | | | | | | | | | | | | |
| Bromoform | 0.100 | | | | | | | | | | | | |
| 4-Methyl-2-Pentanone | 0.010 | | | | | | | | | | | | |
| 2-Hexanone | 0.010 | | | | | | | | | | | | |
| Tetrachloroethene | 0.200 | .509 | | | .482 | | | .484 | | | .358 | 29.7 | J |
| 1,1,2,2-Tetrachloroethane | 0.300 | | | | | | | | | | | | |
| Toluene | 0.400 | | | | | | | | | | | | |
| Chlorobenzene | 0.500 | | | | | | | | | | | | |
| Ethylbenzene | 0.100 | | | | | | | | | | | | |
| Styrene | 0.300 | | | | | | | | | | | | |
| Xylene (total) | 0.300 | | | | | | | | | | | | |
| Toluene-$d_8$ | 0.010 | | | | | | | | | | | | |
| Bromofluorobenzene | 0.200 | | | | | | | | | | | | |
| 1,2-Dichloroethane-$d_4$ | 0.010 | | | | | | | | | | | | |

Affected Samples:

| VBLKU9 | VBLKV5 | VBLKV7 |
|---|---|---|
| EARR3 | EARQ8 | EARS0 |
| EARR3MS | EARQ9:-1 | EARS1 |
| | EARR3MSD | |
| | EARR4 through | |
| | EARR9 | |

# Minimum Relative Response Factor.
* The flags should be applied to the analytes on the [illegible] data sheets.
J/R = All positive results are estimated, "J" and non-detected results are [illegible] "R".

**CALIBRATION OUTLIER**
**Semivolatile TCL**
**(Page 1 of 2)**

CASE/SAS #: 24033 SDG# EARR3
COLUMN: HPMS Goi
LABORATORY: ROSS ANALYTICAL
SITE NAME: Himco Dump (IN)

| Instrument ID: | | Initial Cal. | | | Cont. Cal. | | | Cont. Cal. | | | Cont. Cal. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date: | | 10-30-95 | | | 11-1-95 | | | | | | | | |
| Time: | | 1042 | | | 1013 | | | | | | | | |
| | # | RF | %RSD | * | RF | %D | * | RF | %D | * | RF | %D | * |
| Phenol | 0.800 | | | | | | | | | | | | |
| bis(2-Chloroethyl)ether | 0.700 | | | | | | | | | | | | |
| 2-Chlorophenol | 0.800 | | | | | | | | | | | | |
| 1,3-Dichlorobenzene | 0.600 | | | | | | | | | | | | |
| 1,4-Dichlorobenzene | 0.500 | | | | | | | | | | | | |
| 1,2-Dichlorobenzene | 0.400 | | | | | | | | | | | | |
| 2-Methylphenol | 0.700 | | | | | | | | | | | | |
| 2,2-oxybis(1-Chloropropane) | 0.010 | 2.291 | | | 1.502 | 34.4 | J | | | | | | |
| 4-Methylphenol | 0.600 | | | | | | | | | | | | |
| N-Nitroso-di-n-propylamine | 0.500 | | | | | | | | | | | | |
| Hexachloroethane | 0.300 | | | | | | | | | | | | |
| Nitrobenzene | 0.200 | | | | | | | | | | | | |
| Isophorone | 0.400 | | | | | | | | | | | | |
| 2-Nitrophenol | 0.100 | | | | | | | | | | | | |
| 2,4-Dimethylphenol | 0.200 | | | | | | | | | | | | |
| bis(2-Chloroethoxy)methane | 0.300 | | | | | | | | | | | | |
| 2,4-Dichlorophenol | 0.200 | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 0.200 | | | | | | | | | | | | |
| Naphthalene | 0.700 | | | | | | | | | | | | |
| 4-Chloroaniline | 0.010 | | | | | | | | | | | | |
| Hexachlorobutadiene | 0.010 | | | | | | | | | | | | |
| 4-Chloro-3-methylphenol | 0.200 | | | | | | | | | | | | |
| 2-Methylnaphthalene | 0.400 | | | | | | | | | | | | |
| Hexachlorocyclopentadiene | 0.010 | | | | | | | | | | | | |
| 2,4,6-Trichlorophenol | 0.200 | | | | | | | | | | | | |
| 2,4,5-Trichlorophenol | 0.200 | | | | | | | | | | | | |
| 2-Chloronaphthalene | 0.800 | | | | | | | | | | | | |
| 2-Nitroaniline | 0.010 | | | | | | | | | | | | |
| Dimethylphthalate | 0.010 | | | | | | | | | | | | |
| Acenaphthylene | 0.900 | | | | | | | | | | | | |
| 2,6-Dinitrotoluene | 0.200 | | | | | | | | | | | | |
| 3-Nitroaniline | 0.010 | | | | | | | | | | | | |
| Acenaphthene | 0.900 | | | | | | | | | | | | |
| 2,4-Dinitrophenol | 0.010 | .134 | | | .198 | 47.8 | J | | | | | | |

SRLK PI

Affected Samples:

| | | | |
|---|---|---|---|
| | EARQ8 | | |
| | EARR0 | | |
| | EARR1 | | |
| | EARR3MS+MSD | | |
| | EARR3 through | | |
| | EARR7 | | |

# Minimum Relative Response Factor.
* This flags should be applied to the analytes on the [illegible] le data [illegible] ts.
J/R = All [illegible] itive results are estimated "J" and non-detected [illegible] lts are unusable "R".

**CALIBRATION OUTLIER**
**Semivolatile TCL**
**(Page 2 of 2)**

CASE/SAS #: 24033 SDG# EARR3
COLUMN: —

LABORATORY: ROSS ANALYTICAL
SITE NAME: Hinco Dump (FN)

| Instrument ID: HPMS 6-i | | Initial Cal. | | | Cont. Cal. | | | Cont. Cal. | | | Cont. Cal. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date: 10-30-95 | | | | | | | | | | | | | |
| Time: | | 10-30-95 10:12 | | | 11-1-95 10:13 | | | | | | | | |
| | # | RF | %RSD | * | RF | %D | * | RF | %D | * | RF | %D | * |
| 4-Nitrophenol | 0.010 | .173 | | | .234 | 353 | J | | | | | | |
| Dibenzofuran | 0.800 | | | | | | | | | | | | |
| 2,6-Dinitrotoluene | 0.200 | | | | | | | | | | | | |
| Diethylphthalate | 0.010 | | | | | | | | | | | | |
| 4-Chlorophenyl-phenylether | 0.400 | | | | | | | | | | | | |
| Fluorene | 0.900 | | | | | | | | | | | | |
| 4-Nitroaniline | 0.010 | | | | | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | 0.010 | | | | | | | | | | | | |
| N-nitrosodiphenylamine | 0.010 | | | | | | | | | | | | |
| 4-Bromophenyl-phenylether | 0.100 | | | | | | | | | | | | |
| Hexachlorobenzene | 0.100 | | | | | | | | | | | | |
| Pentachlorophenol | 0.050 | .090 | | | .113 | 256 | J | | | | | | |
| Phenanthrene | 0.700 | | | | | | | | | | | | |
| Anthracene | 0.700 | | | | | | | | | | | | |
| Carbazole | 0.010 | | | | | | | | | | | | |
| Di-n-butylphthalate | 0.010 | | | | | | | | | | | | |
| Fluoranthene | 0.600 | | | | | | | | | | | | |
| Pyrene | 0.600 | | | | | | | | | | | | |
| Butylbenzylphthalate | 0.010 | | | | | | | | | | | | |
| 3-3'-Dichlorobenzidine | 0.010 | | | | | | | | | | | | |
| Benzo(a)anthracene | 0.800 | | | | | | | | | | | | |
| Chrysene | 0.700 | | | | | | | | | | | | |
| bis(2-Ethylhexyl)phthalate | 0.010 | | | | | | | | | | | | |
| Di-n-octylphthalate | 0.010 | | | | | | | | | | | | |
| Benzo(b)fluoranthene | 0.700 | | | | | | | | | | | | |
| Benzo(k)fluoranthene | 0.700 | | | | | | | | | | | | |
| Benzo(a)pyrene | 0.700 | | | | | | | | | | | | |
| Indeno(1,2,3-cd)pyrene | 0.500 | | | | | | | | | | | | |
| Dibenz(a,h)anthracene | 0.400 | | | | | | | | | | | | |
| Benzo(g,h,i)perylene | 0.500 | | | | | | | | | | | | |
| Nitrobenzene-$d_5$ | 0.200 | | | | | | | | | | | | |
| 2-Flurobiphenyl | 0.700 | | | | | | | | | | | | |
| Terphenyl-$d_{14}$ | 0.500 | | | | | | | | | | | | |
| Phenol-$d_5$ | 0.800 | | | | | | | | | | | | |
| 2-Fluorophenol | 0.600 | | | | | | | | | | | | |
| 2,4,6-Tribromophenol | 0.010 | | | | | | | | | | | | |
| 2-Chlorophenol-$d_4$ | 0.800 | | | | | | | | | | | | |
| 1,2-Dichlorobenzene-$d_4$ | 0.400 | | | | | | | | | | | | |

# Minimum Relative Response Factor.
* These flags should be applied to the analytes on the sample data sheets.
J/R = All positive results are estimated "J" and non-detected results are unusable "R".

Reviewer's Init/Date: AV 11-9-95

**CALIBRATION OUTLIER**
**Semivolatile TCL**
**(Page 1 of 2)**

CASE/SAS #: 24033 SDG# EARR3
COLUMN: _____

LABORATORY: ROSS ANALYTICAL
SITE NAME: Hirco Dump (FN)

| Instrument ID: HPMS G.i | | Initial Cal. | | | Cont. Cal. | | | Cont. Cal. | | | Cont. Cal. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date: 11-3-95 | | | | | | | | | | | | | |
| Time: | | 11-3-95 13:22 | | | | | | | | | | | |
| | # | RF | %RSD | * | RF | %D | * | RF | %D | * | RF | %D | * |
| Phenol | 0.800 | | | | | | | | | | | | |
| bis(2-Chloroethyl)ether | 0.700 | | | | | | | | | | | | |
| 2-Chlorophenol | 0.800 | | | | | | | | | | | | |
| 1,3-Dichlorobenzene | 0.600 | | | | | | | | | | | | |
| 1,4-Dichlorobenzene | 0.500 | | | | | | | | | | | | |
| 1,2-Dichlorobenzene | 0.400 | | | | | | | | | | | | |
| 2-Methylphenol | 0.700 | | | | | | | | | | | | |
| 2,2-oxybis(1-Chloropropane) | 0.010 | | | | | | | | | | | | |
| 4-Methylphenol | 0.600 | | | | | | | | | | | | |
| N-Nitroso-di-n-propylamine | 0.500 | | | | | | | | | | | | |
| Hexachloroethane | 0.300 | | | | | | | | | | | | |
| Nitrobenzene | 0.200 | | | | | | | | | | | | |
| Isophorone | 0.400 | | | | | | | | | | | | |
| 2-Nitrophenol | 0.100 | | | | | | | | | | | | |
| 2,4-Dimethylphenol | 0.200 | | | | | | | | | | | | |
| bis(2-Chloroethoxy)methane | 0.300 | | | | | | | | | | | | |
| 2,4-Dichlorophenol | 0.200 | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 0.200 | | | | | | | | | | | | |
| Naphthalene | 0.700 | | | | | | | | | | | | |
| 4-Chloroaniline | 0.010 | | | | | | | | | | | | |
| Hexachlorobutadiene | 0.010 | | | | | | | | | | | | |
| 4-Chloro-3-methylphenol | 0.200 | | | | | | | | | | | | |
| 2-Methylnaphthalene | 0.400 | | | | | | | | | | | | |
| Hexachlorocyclopentadiene | 0.010 | | | | | | | | | | | | |
| 2,4,6-Trichlorophenol | 0.200 | | | | | | | | | | | | |
| 2,4,5-Trichlorophenol | 0.200 | | | | | | | | | | | | |
| 2-Chloronaphthalene | 0.800 | | | | | | | | | | | | |
| 2-Nitroaniline | 0.010 | | | | | | | | | | | | |
| Dimethylphthalate | 0.010 | | | | | | | | | | | | |
| Acenaphthylene | 0.900 | | | | | | | | | | | | |
| 2,6-Dinitrotoluene | 0.200 | | | | | | | | | | | | |
| 3-Nitroaniline | 0.010 | | | | | | | | | | | | |
| Acenaphthene | 0.900 | | | | | | | | | | | | |
| 2,4-Dinitrophenol | 0.010 | | | | | | | | | | | | |

Affected Samples:

| | | | |
|---|---|---|---|
| SBLKP4 | | | |
| EARSO | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

# Minimum Relative Response Factor.
* Th flags should be applied to the analytes on the le data sheets.
J/R = All itive r lts are estimated "J" and non- ected r lts are unusable "R".

Revi 's Init/Date:

**CALIBRATION OUTLIER**
**Semivolatile TCL**
**(Page 2 of 2)**

CASE/SAS #: 24033 SDG#EARR3
COLUMN:

LABORATORY: ROSS ANALYTICAL
SITE NAME: Himco Dump (I

| Instrument ID: HPMS G.i | | Initial Cal. | | | Cont. Cal. | | | Cont. Cal. | | | Cont. Cal. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date: 11-3-95 | | | | | | | | | | | | | |
| Time: | | 11-3-95 13:22 | | | | | | | | | | | |
| | # | RF | %RSD | * | RF | %D | * | RF | %D | * | RF | %D | * |
| 4-Nitrophenol | 0.010 | | | | | | | | | | | | |
| Dibenzofuran | 0.800 | | | | | | | | | | | | |
| 2,4-Dinitrotoluene | 0.200 | | | | | | | | | | | | |
| Diethylphthalate | 0.010 | | | | | | | | | | | | |
| 4-Chlorophenyl-phenylether | 0.400 | | | | | | | | | | | | |
| Fluorene | 0.900 | | | | | | | | | | | | |
| 4-Nitroaniline | 0.010 | | | | | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | 0.010 | | | | | | | | | | | | |
| N-nitrosodiphenylamine | 0.010 | | | | | | | | | | | | |
| 4-Bromophenyl-phenylether | 0.100 | | | | | | | | | | | | |
| Hexachlorobenzene | 0.100 | | | | | | | | | | | | |
| Pentachlorophenol | 0.050 | | | | | | | | | | | | |
| Phenanthrene | 0.700 | | | | | | | | | | | | |
| Anthracene | 0.700 | | | | | | | | | | | | |
| Carbazole | 0.010 | | | | | | | | | | | | |
| Di-n-butylphthalate | 0.010 | | | | | | | | | | | | |
| Fluoranthene | 0.600 | | | | | | | | | | | | |
| Pyrene | 0.600 | | | | | | | | | | | | |
| Butylbenzylphthalate | 0.010 | | | | | | | | | | | | |
| 3-3'-Dichlorobenzidine | 0.010 | | | | | | | | | | | | |
| Benzo(a)anthracene | 0.800 | | | | | | | | | | | | |
| Chrysene | 0.700 | | | | | | | | | | | | |
| bis(2-Ethylhexyl)phthalate | 0.010 | | | | | | | | | | | | |
| Di-n-octylphthalate | 0.010 | | | | | | | | | | | | |
| Benzo(b)fluoranthene | 0.700 | | | | | | | | | | | | |
| Benzo(k)fluoranthene | 0.700 | | | | | | | | | | | | |
| Benzo(a)pyrene | 0.700 | | | | | | | | | | | | |
| Indeno(1,2,3-cd)pyrene | 0.500 | | | | | | | | | | | | |
| Dibenz(a,h)anthracene | 0.400 | | | | | | | | | | | | |
| Benzo(g,h,i)perylene | 0.500 | | | | | | | | | | | | |
| Nitrobenzene-$d_5$ | 0.200 | | | | | | | | | | | | |
| 2-Flurobiphenyl | 0.700 | | | | | | | | | | | | |
| Terphenyl-$d_{14}$ | 0.500 | | | | | | | | | | | | |
| Phenol-$d_5$ | 0.800 | | | | | | | | | | | | |
| 2-Fluorophenol | 0.600 | | | | | | | | | | | | |
| 2,4,6-Tribromophenol | 0.010 | | | | | | | | | | | | |
| 2-Chlorophenol-$d_4$ | 0.800 | | | | | | | | | | | | |
| 1,2-Dichlorobenzene-$d_4$ | 0.400 | | | | | | | | | | | | |

# Minimum Relative Response Factor.
* These flags should be applied to the analytes on the sample data sheets.
J/R = All positive results are estimated "J" and non-detected results are unusable "R".

Reviewer's Init/Date: AV 11-9-95

**CALIBRATION OUTLIER**
**Pesticide/PCB TCL**
**(Page 1 of 1)**

CASE/SAS #: 24033
COLUMN: RTX-1701

LABORATORY: ROSS ANALYTICAL
SITE NAME: Himco Dump (FN)

| Instrument Number V3400g.i | Initial Cal. | | Cont. Cal. | | Cont. Cal. | | Cont. Cal. | | Cont. Cal. | |
|---|---|---|---|---|---|---|---|---|---|---|
| Date 9-28-95 | | | | | | | | | | |
| Time 9-29-95 | 9-29-93 4:13 | | 10-24-95 2:12 | | | | | | | |
| | %RSD | * | %D | * | %D | * | %D | * | %D | * |
| alpha-BHC | | | | | | | | | | |
| beta-BHC | | | | | | | | | | |
| delta-BHC | | | | | | | | | | |
| gamma-BHC | | | | | | | | | | |
| Heptachlor | | | | | | | | | | |
| Aldrin | | | | | | | | | | |
| Heptachlor Epoxide | | | | | | | | | | |
| Endosulfan I | | | | | | | | | | |
| Dieldrin | | | | | | | | | | |
| 4,4'-DDE | | | | | | | | | | |
| Endrin | | | | | | | | | | |
| Endosulfan II | | | | | | | | | | |
| 4,4'-DDD | | | | | | | | | | |
| Endosulfan Sulfate | | | | | | | | | | |
| 4,4'-DDT | | | | | | | | | | |
| Methoxychlor | | | | | | | | | | |
| Endrin Ketone | | | | | | | | | | |
| Endrin Aldehyde | | | | | | | | | | |
| alpha-Chlordane | | | | | | | | | | |
| gamma-Chlordane | | | | | | | | | | |
| Aroclor 1016 | | | | | | | | | | |
| Aroclor 1221 | | | | | | | | | | |
| Aroclor 1232 | | | | | | | | | | |
| Aroclor 1242 | | | | | | | | | | |
| Aroclor 1248 | | | | | | | | | | |
| Aroclor 1254 | | | | | | | | | | |
| Aroclor 1260 | | | | | | | | | | |

Affected Samples:

| | | | | |
|---|---|---|---|---|
| | PBLKP2 | | | |
| | EARQ8 | | | |
| | EARR0 | | | |
| | EARR1 | | | |
| | EARR3 | | | |
| | EARR3MS | | | |
| | EARR3MSD | | | |
| | EARR4 | | | |
| | through | | | |
| | EARR7 | | | |
| | EAR50 | | | |

* These flags should be applied to the analytes on the sample data sheets.
J/R = All positive results are estimated "J" and non-detected results are unusable "R".

Reviewer's Init/Date: AV 11-13-95

**CALIBRATION OUTLIER**
**Pesticide/PCB TCL**
**(Page 1 of 1)**

CASE/SAS #: 24033
COLUMN: RTX-5

LABORATORY: ROSS ANALYTICAL
SITE NAME: Himco Dump (FH)

| Instrument Number V3400 n.2 | Initial Cal. | | Cont. Cal. | | Cont. Cal. | | Cont. Cal. | | Cont. Cal. | |
|---|---|---|---|---|---|---|---|---|---|---|
| Date 9-28-95 | | | | | | | | | | |
| Time 9-29-95 | 9-29-95 4:13 | | 10-24-95 2:12 | | | | | | | |
| | %RSD | * | %D | * | %D | * | %D | * | %D | * |
| alpha-BHC | | | | | | | | | | |
| beta-BHC | | | | | | | | | | |
| delta-BHC | | | | | | | | | | |
| gamma-BHC | | | | | | | | | | |
| Heptachlor | | | | | | | | | | |
| Aldrin | | | | | | | | | | |
| Heptachlor Epoxide | | | | | | | | | | |
| Endosulfan I | | | | | | | | | | |
| Dieldrin | | | | | | | | | | |
| 4,4'-DDE | | | | | | | | | | |
| Endrin | | | | | | | | | | |
| Endosulfan II | | | | | | | | | | |
| 4,4'-DDD | | | | | | | | | | |
| Endosulfan Sulfate | | | | | | | | | | |
| 4,4'-DDT | | | | | | | | | | |
| Methoxychlor | | | | | | | | | | |
| Endrin Ketone | | | | | | | | | | |
| Endrin Aldehyde | | | | | | | | | | |
| alpha-Chlordane | | | | | | | | | | |
| gamma-Chlordane | | | | | | | | | | |
| Aroicor 1016 | | | | | | | | | | |
| Aroclor 1221 | | | | | | | | | | |
| Aroclor 1232 | | | | | | | | | | |
| Aroicor 1242 | | | | | | | | | | |
| Aroclor 1248 | | | | | | | | | | |
| Aroclor 1254 | | | | | | | | | | |
| Aroclor 1260 | | | | | | | | | | |

Affected Samples:

| | | | | |
|---|---|---|---|---|
| | PBLKP2 | | | |
| | EARQ8 | | | |
| | EARR0 | | | |
| | EARR1 | | | |
| | EARR3 | | | |
| | EARR3MS | | | |
| | EARR3MSD | | | |
| | EARR4 | | | |
| | through | | | |
| | EARR7 | | | |
| | EARS0 | | | |

* These flags should be applied to the analytes on the sample data sheets.
J/R = All positive results are estimated "J" and non-detected results are unusabl

Reviewer's Init/Date: AV 11-13-95

**Ross Analytical Services, Inc.**
16433 Foltz Industrial Parkway • Strongsville, Ohio 44136
(216) 572-3200 • Fax (216) 572-7620 • 1-800-325-7737

November 7, 1995

Charles T. Elly
USEPA Region V
536 S. Clark St. 10th Floor, 5SCRL
Chicago, IL 60605

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US EPA CENTRAL REGIONAL LAB.
536 S. CLARK ST.
CHICAGO, ILLINOIS 60605

Re: SDG Narrative
Case 24033 SDG EARR3
ROSS Contract 68-D5-0024, Bid Lot A

Dear Charles,

This is the SDG Narrative for Case 24033 / SDG EARR3. The SDG contained twelve (12) waters with the following identifications and analysis request:

| | | |
|---|---|---|
| EARQ8 - FTCL | EARR5 - FTCL | EARS0 - FTCL |
| EARR0 - FTCL | EARR6 - FTCL | EARS1 - VOA |
| EARR1 - FTCL | EARR7 - FTCL | |
| EARR3 - FTCL | EARR8 - VOA | |
| EARR4 - FTCL | EARR9 - VOA | |

VOA = Volatile Organic Analysis
FTCL = Full Target Compound List

Shipments were received on September 26, 27, and 28, 1995.

VOA Fraction

No comments.

SVOA Fraction

The original extract for sample EARS0 did not pass QC criteria. The re-extraction for this sample exceeded the required holding times. We expect to be assessed liquidated damages for non-compliance for this sample.

Pesticide/Aroclor Fraction

Our chromatography software is not able to print out the ng on column information. This information is included on two tables located after the Form X's and before the raw data.

This data package will arrive beyond the contract required due date. We expect to be assessed liquidated damages for lateness.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer- readable data submitted on diskette has been authorized by the laboratory manager or his designee, as verified by the following signature.

Respectfully,
Ross Analytical Services, Inc.

Dale L Mori 11/7/95

Dale L. Mori
Contract Laboratory Program Manager

Please send any CCS and other communication to me.

Respectfully,
Ross Analytical Services, Inc.

Dale L Mori 11/7/95

Dale L. Mori
Contract Laboratory Program Manager

2A

# WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

| | EPA SAMPLE NO. | SMC1 (TOL) # | SMC2 (BFB) # | SMC3 (DCE) # | OTHER | TOT OUT |
|---|---|---|---|---|---|---|
| 01 | VBLKU9 | 103 | 92 | 99 | | 0 |
| 02 | EARR3 | 100 | 91 | 102 | | 0 |
| 03 | EARR3MS | 95 | 86 | 99 | | 0 |
| 04 | VBLKV5 | 104 | 95 | 94 | | 0 |
| 05 | EARR4 | 100 | 96 | 94 | | 0 |
| 06 | EARR5 | 102 | 97 | 94 | | 0 |
| 07 | EARR8 | 101 | 98 | 94 | | 0 |
| 08 | EARQ8 | 101 | 98 | 96 | | 0 |
| 09 | EARR0 | 101 | 97 | 95 | | 0 |
| 10 | EARR1 | 100 | 96 | 94 | | 0 |
| 11 | EARR6 | 100 | 98 | 97 | | 0 |
| 12 | EARR7 | 99 | 99 | 97 | | 0 |
| 13 | EARR9 | 96 | 97 | 97 | | 0 |
| 14 | EARR3MSD | 98 | 96 | 98 | | 0 |
| 15 | VBLKV7 | 104 | 98 | 100 | | 0 |
| 16 | EARS0 | 105 | 97 | 99 | | 0 |
| 17 | EARS1 | 105 | 100 | 101 | | 0 |
| 18 | VHBLK37 | 101 | 97 | 99 | | 0 |
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| | QC LIMITS |
|---|---|
| SMC1 (TOL) = Toluene-d8 | (88-110) |
| SMC2 (BFB) = Bromofluorobenzene | (86-115) |
| SMC3 (DCE) = 1,2-Dichloroethane-d4 | (76-114) |

# Column to be used to flag recovery values

* Values outside of contract required QC limits

3A

# WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix Spike - EPA Sample No.: EARR3

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC # | QC. LIMITS REC. |
|---|---|---|---|---|---|
| 1,1-Dichloroethene | 50.0 | 0.000 | 56.2 | 112 | 61-145 |
| Trichloroethene | 50.0 | 0.000 | 53.0 | 106 | 71-120 |
| Benzene | 50.0 | 0.000 | 49.9 | 100 | 76-127 |
| Toluene | 50.0 | 0.000 | 48.8 | 98 | 76-125 |
| Chlorobenzene | 50.0 | 0.000 | 49.1 | 98 | 75-130 |

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 50.0 | 46.3 | 93 | 18* | 14 | 61-145 |
| Trichloroethene | 50.0 | 48.0 | 96 | 10 | 14 | 71-120 |
| Benzene | 50.0 | 49.6 | 99 | 1 | 11 | 76-127 |
| Toluene | 50.0 | 46.9 | 94 | 4 | 13 | 76-125 |
| Chlorobenzene | 50.0 | 47.8 | 96 | 2 | 13 | 75-130 |

# Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
000022

VBLKU9

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Lab File ID: VBLK0927A2 Lab Sample ID: VBLK0927A2

Date Analyzed: 09/27/95 Time Analyzed: 2105

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: F500A.i

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | EARR3 | 950926101A | EARR3 | 2202 |
| 02 | EARR3MS | 950926101A/MS | EARR3MS | 2300 |
| 03 | | | | |
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COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
000023

VBLKV5

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Lab File ID: VBLK0929A Lab Sample ID: VBLK0929A

Date Analyzed: 09/29/95 Time Analyzed: 1517

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: F500A.i

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | EARR4 | 950926102A | EARR4RE | 1649 |
| 02 | EARR5 | 950926103A | EARR5RE | 1728 |
| 03 | EARR8 | 950926104A | EARR8RE | 1807 |
| 04 | EARQ8 | 950928401A | EARQ8 | 1845 |
| 05 | EARR0 | 950928402A | EARR0 | 1923 |
| 06 | EARR1 | 950928403A | EARR1 | 2001 |
| 07 | EARR6 | 950928404A | EARR6 | 2040 |
| 08 | EARR7 | 950928405A | EARR7 | 2118 |
| 09 | EARR9 | 950928406A | EARR9 | 2157 |
| 10 | EARR3MSD | 950926101A/MSD | EARR3MSD | 0030 |
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COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
000024

VBLKV7

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Lab File ID: VBLK1002A2 Lab Sample ID: VBLK1002A2

Date Analyzed: 10/02/95 Time Analyzed: 1013

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: F500A.i

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | EARS0 | 950930501A | EARS0 | 1102 |
| 02 | EARS1 | 950930502A | EARS1 | 1147 |
| 03 | VHBLK37 | 950926105A | VHBLK37RE | 1317 |
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COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000191
VBLKU9

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: VBLK0927A2

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: VBLK0927A2

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/27/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000192
VBLKU9

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: VBLK0927A2

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: VBLK0927A2

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/27/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000198

VBLKV5

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: VBLK0929A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: VBLK0929A

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/29/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000199
VBLKV5

Lab Name: ROSS ANALYTICAL SERVICES  Contract: 68-D5-0024

Lab Code: ROSS  Case No.: 24033  SAS No.:  SDG No.: EARR3

Matrix: (soil/water) WATER  Lab Sample ID: VBLK0929A

Sample wt/vol: 5.000 (g/mL) ML  Lab File ID: VBLK0929A

Level: (low/med) LOW  Date Received: _____

% Moisture: not dec. _____  Date Analyzed: 09/29/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000205

VBLKV7

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: VBLK1002A2

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: VBLK1002A2

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/02/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
# TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000206
VBLKV7

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: VBLK1002A2

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: VBLK1002A2

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/02/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
00003

EARQ8

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 950928401A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARQ8

Level: (low/med) LOW Date Received: 09/27/95

% Moisture: not dec. _____ Date Analyzed: 09/29/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 2 | J |
| 67-64-1 | Acetone | 7 | J |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 10 | U |
| 67-66-3 | Chloroform | 16 | |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 2 | J |
| 78-87-5 | 1,2-Dichloropropane | 1 | J |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
**000033**

EARQ8

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 950928401A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARQ8

Level: (low/med) LOW Date Received: 09/27/95

% Moisture: not dec. _____ Date Analyzed: 09/29/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
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| 11. | | | | | |
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| 27. | | | | | |
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| 29. | | | | | |
| 30. | | | | | |

WT117A

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000044
EARR0

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 950928402A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARR0

Level: (low/med) LOW Date Received: 09/27/95

% Moisture: not dec. _____ Date Analyzed: 09/29/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 1 | UJ |
| 67-64-1 | Acetone | 10 | UJ |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

WT 117B

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000052
EARR1

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 950928403A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARR1

Level: (low/med) LOW Date Received: 09/27/95

% Moisture: not dec. _____ Date Analyzed: 09/29/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 1 | U |
| 67-64-1 | Acetone | 10 | UJ |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
**000045**
EARR0

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 950928402A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARR0

Level: (low/med) LOW Date Received: 09/27/95

% Moisture: not dec. _____ Date Analyzed: 09/29/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
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| 29. | | | | | |
| 30. | | | | | |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 000053

EARR1

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 950928403A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARR1

Level: (low/med) LOW Date Received: 09/27/95

% Moisture: not dec. _____ Date Analyzed: 09/29/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
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| 24. | | | | | |
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| 27. | | | | | |
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WT101A

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000060

EARR3

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 950926101A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARR3

Level: (low/med) LOW Date Received: 09/26/95

% Moisture: not dec. _____ Date Analyzed: 09/27/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 0.7 | J |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | J |
| 540-59-0 | 1,2-Dichloroethene (Total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
# TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 000061

EARR3

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 950926101A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARR3

Level: (low/med) LOW Date Received: 09/26/95

% Moisture: not dec. _____ Date Analyzed: 09/27/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 75-43-4 | METHANE, DICHLOROFLUORO- | 9.49 | 20 | NJ |
| 2. | 60-29-7 | ETHER | 10.39 | 30 | NJ |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
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| 30. | | | | | |

WT105B

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000071
EARR4

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 950926102A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARR4RE

Level: (low/med) LOW Date Received: 09/26/95

% Moisture: not dec. _____ Date Analyzed: 09/29/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 6 | J |
| 75-09-2 | Methylene Chloride | 1 | J |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000072
EARR4

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 950926102A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARR4RE

Level: (low/med) LOW Date Received: 09/26/95

% Moisture: not dec. _____ Date Analyzed: 09/29/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 593-70-4 | METHANE, CHLOROFLUORO- | 6.50 | 5 | NJ |
| 2. | 60-29-7 | ETHER | 10.49 | 15 | NJ |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
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WT101B-DUP

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000082

EARR5

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 950926103A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARR5RE

Level: (low/med) LOW Date Received: 09/26/95

% Moisture: not dec. _____ Date Analyzed: 09/29/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 7 | J |
| 75-09-2 | Methylene Chloride | 2 | J |
| 67-64-1 | Acetone | 10 | UJ |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 000083

EARR5

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 950926103A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARR5RE

Level: (low/med) LOW Date Received: 09/26/95

% Moisture: not dec. _____ Date Analyzed: 09/29/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 593-70-4 | METHANE, CHLOROFLUORO- | 6.51 | 6 | NJ |
| 2. | 60-29-7 | ETHER | 10.49 | 17 | NJ |
| 3. | | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000093
EARR6

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 950928404A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARR6

Level: (low/med) LOW Date Received: 09/27/95

% Moisture: not dec. _____ Date Analyzed: 09/29/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 2 | U |
| 67-64-1 | Acetone | 10 | UJ |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 000094

EARR6

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 950928404A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARR6

Level: (low/med) LOW Date Received: 09/27/95

% Moisture: not dec. _____ Date Analyzed: 09/29/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | UNKNOWN | 10.46 | 9 | J |
| 2. | | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000102
EARR7

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 950928405A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARR7

Level: (low/med) LOW Date Received: 09/27/95

% Moisture: not dec. _____ Date Analyzed: 09/29/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 2 | J |
| 67-64-1 | Acetone | 2 | J |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 10 | U |
| 67-66-3 | Chloroform | 47 | |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 7 | J |
| 78-87-5 | 1,2-Dichloropropane | 2 | J |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000103

EARR7

Lab Name: ROSS ANALYTICAL SERVICES  Contract: 68-D5-0024

Lab Code: ROSS  Case No.: 24033  SAS No.:  SDG No.: EARR3

Matrix: (soil/water) WATER  Lab Sample ID: 950928405A

Sample wt/vol: 5.000 (g/mL) ML  Lab File ID: EARR7

Level: (low/med) LOW  Date Received: 09/27/95

% Moisture: not dec. _____  Date Analyzed: 09/29/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
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| 1. | | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000114
EARR8

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 950926104A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARR8RE

Level: (low/med) LOW Date Received: 09/26/95

% Moisture: not dec. _____ Date Analyzed: 09/29/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 2 | J |
| 67-64-1 | Acetone | 4 | J |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000115
EARR8

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 950926104A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARR8RE

Level: (low/med) LOW Date Received: 09/26/95

% Moisture: not dec. _____ Date Analyzed: 09/29/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000123
EARR9

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 950928406A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARR9

Level: (low/med) LOW Date Received: 09/27/95

% Moisture: not dec. _____ Date Analyzed: 09/29/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 1 | U |
| 67-64-1 | Acetone | 4 | J |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1 | J |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000124
EARR9

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 950928406A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARR9

Level: (low/med) LOW Date Received: 09/27/95

% Moisture: not dec. _____ Date Analyzed: 09/29/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
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SOURCE WATER ?

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000132
EARS0

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 950930501A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARS0

Level: (low/med) LOW Date Received: 09/28/95

% Moisture: not dec. _____ Date Analyzed: 10/02/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 9 | J |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 10 | U |
| 67-66-3 | Chloroform | 6 | J |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 4 | J |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | UJ |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000133

EARS0

Lab Name: ROSS ANALYTICAL SERVICES  Contract: 68-D5-0024

Lab Code: ROSS  Case No.: 24033  SAS No.:  SDG No.: EARR3

Matrix: (soil/water) WATER  Lab Sample ID: 950930501A

Sample wt/vol: 5.000 (g/mL) ML  Lab File ID: EARS0

Level: (low/med) LOW  Date Received: 09/28/95

% Moisture: not dec. _____  Date Analyzed: 10/02/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

TR IP
EPA SAMPLE NO. BLAN
000142

EARS1

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 950930502A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EARS1

Level: (low/med) LOW Date Received: 09/28/95

% Moisture: not dec. _____ Date Analyzed: 10/02/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 12 | |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000143

EARS1

Lab Name: ROSS ANALYTICAL SERVICES  Contract: 68-D5-0024

Lab Code: ROSS  Case No.: 24033  SAS No.:  SDG No.: EARR3

Matrix: (soil/water) WATER  Lab Sample ID: 950930502A

Sample wt/vol: 5.000 (g/mL) ML  Lab File ID: EARS1

Level: (low/med) LOW  Date Received: 09/28/95

% Moisture: not dec. _____  Date Analyzed: 10/02/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
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2C

# WATER SEMIVOLATILE SURROGATE RECOVERY

000230

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

| | EPA SAMPLE NO. | S1 (NBZ) # | S2 (FBP) # | S3 (TPH) # | S4 (PHL) # | S5 (2FP) # | S6 (TBP) # | S7 (2CP) # | S8 (DCB) # | TOT OUT |
|---|---|---|---|---|---|---|---|---|---|---|
| 01 | SBLKP1 | 75 | 65 | 74 | 75 | 74 | 81 | 75 | 61 | 0 |
| 02 | EARR3 | 74 | 66 | 69 | 74 | 73 | 82 | 74 | 62 | 0 |
| 03 | EARR3MS | 77 | 67 | 66 | 75 | 76 | 80 | 75 | 65 | 0 |
| 04 | EARR3MSD | 76 | 64 | 65 | 75 | 76 | 79 | 75 | 63 | 0 |
| 05 | EARR4 | 73 | 62 | 72 | 74 | 73 | 71 | 74 | 61 | 0 |
| 06 | EARR5 | 76 | 66 | 79 | 74 | 74 | 72 | 75 | 64 | 0 |
| 07 | EARQ8 | 75 | 70 | 77 | 73 | 74 | 70 | 74 | 67 | 0 |
| 08 | EARR0 | 76 | 66 | 74 | 74 | 73 | 66 | 74 | 66 | 0 |
| 09 | EARR1 | 74 | 65 | 75 | 73 | 72 | 66 | 75 | 64 | 0 |
| 10 | EARR6 | 74 | 66 | 74 | 73 | 74 | 65 | 74 | 66 | 0 |
| 11 | EARR7 | 73 | 65 | 74 | 70 | 71 | 66 | 71 | 62 | 0 |
| 12 | SBLKP4 | 71 | 74 | 46 | 73 | 68 | 101 | 72 | 71 | 0 |
| 13 | EARS0 | 80 | 74 | 50 | 46 | 74 | 104 | 94 | 63 | 0 |
| 14 | | | | | | | | | | |
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| | | QC LIMITS | |
|---|---|---|---|
| S1 (NBZ) | = Nitrobenzene-d5 | (35-114) | |
| S2 (FBP) | = 2-Fluorobiphenyl | (43-116) | |
| S3 (TPH) | = Terphenyl-d14 | (33-141) | |
| S4 (PHL) | = Phenol-d5 | (10-110) | |
| S5 (2FP) | = 2-Fluorophenol | (21-110) | |
| S6 (TBP) | = 2,4,6-Tribromophenol | (10-123) | |
| S7 (2CP) | = 2-Chlorophenol-d4 | (33-110) | (ADVISORY) |
| S8 (DCB) | = 1,2-Dichlorobenzene-d4 | (16-110) | (ADVISORY) |

# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

# SEMIVOLATILE METHOD BLANK SUMMARY



SBLKP1

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Lab File ID: SBLKP1 Lab Sample ID: SBLKP1

Instrument ID: hpmsg.i Date Extracted: 09/29/95

Matrix: (soil/water) WATER Date Analyzed: 11/01/95

Level: (low/med) LOW Time Analyzed: 1308

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|---|
| 01 | EARR3 | 95-09-261-01B | EARR3 | 11/01/95 |
| 02 | EARR3MS | 95-09-261-01B | EARR3MS | 11/01/95 |
| 03 | EARR3MSD | 95-09-261-01B | EARR3MSD | 11/01/95 |
| 04 | EARR4 | 95-09-261-02B | EARR4 | 11/01/95 |
| 05 | EARR5 | 95-09-261-03B | EARR5 | 11/01/95 |
| 06 | EARQ8 | 95-09-284-01B | EARQ8 | 11/01/95 |
| 07 | EARR0 | 95-09-284-02B | EARR0 | 11/01/95 |
| 08 | EARR1 | 95-09-284-03B | EARR1 | 11/01/95 |
| 09 | EARR6 | 95-09-284-04B | EARR6 | 11/01/95 |
| 10 | EARR7 | 95-09-284-05B | EARR7 | 11/01/95 |
| 11 | | | | |
| 12 | | | | |
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COMMENTS:

# WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY



Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix Spike - EPA Sample No.: EARR3

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC # | QC. LIMITS REC. |
|---|---|---|---|---|---|
| Phenol | 75.0 | 0.000 | 50.3 | 67 | 12-110 |
| 2-Chlorophenol | 75.0 | 0.000 | 51.6 | 69 | 27-123 |
| 1,4-Dichlorobenzene | 50.0 | 0.000 | 27.5 | 55 | 36- 97 |
| N-Nitroso-di-n-prop.(1) | 50.0 | 0.000 | 40.0 | 80 | 41-116 |
| 1,2,4-Trichlorobenzene | 50.0 | 0.000 | 26.2 | 52 | 39- 98 |
| 4-Chloro-3-methylphenol | 75.0 | 0.000 | 58.0 | 77 | 23- 97 |
| Acenaphthene | 50.0 | 0.000 | 34.1 | 68 | 46-118 |
| 4-Nitrophenol | 75.0 | 0.000 | 60.3 | 80 | 10- 80 |
| 2,4-Dinitrotoluene | 50.0 | 0.000 | 35.0 | 70 | 24- 96 |
| Pentachlorophenol | 75.0 | 0.000 | 56.5 | 75 | 9-103 |
| Pyrene | 50.0 | 0.000 | 29.0 | 58 | 26-127 |

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| Phenol | 75.0 | 51.8 | 69 | 3 | 42 | 12-110 |
| 2-Chlorophenol | 75.0 | 52.6 | 70 | 1 | 40 | 27-123 |
| 1,4-Dichlorobenzene | 50.0 | 29.1 | 58 | 5 | 28 | 36- 97 |
| N-Nitroso-di-n-prop.(1) | 50.0 | 37.2 | 74 | 8 | 38 | 41-116 |
| 1,2,4-Trichlorobenzene | 50.0 | 27.0 | 54 | 4 | 28 | 39- 98 |
| 4-Chloro-3-methylphenol | 75.0 | 58.6 | 78 | 1 | 42 | 23- 97 |
| Acenaphthene | 50.0 | 34.3 | 69 | 1 | 31 | 46-118 |
| 4-Nitrophenol | 75.0 | 58.2 | 78 | 2 | 50 | 10- 80 |
| 2,4-Dinitrotoluene | 50.0 | 34.7 | 69 | 1 | 38 | 24- 96 |
| Pentachlorophenol | 75.0 | 45.9 | 61 | 20 | 50 | 9-103 |
| Pyrene | 50.0 | 29.1 | 58 | 0 | 31 | 26-127 |

(1) N-Nitroso-di-n-propylamine
# Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

COMMENTS: _____

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000497

SBLKP4

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: SBLKP4

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SBLKP4

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/02/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/03/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(a)anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)phthalate | 0.1 | J |
| 117-84-0 | Di-n-octylphthalate | 10 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000496
SBLKP4

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: SBLKP4

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SBLKP4

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/02/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/03/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

1C

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000483
SBLKP1

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: SBLKP1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SBLKP1

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/29/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/01/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 0.3 | J |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(a)anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)phthalate | 0.2 | J |
| 117-84-0 | Di-n-octylphthalate | 10 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 00048

SBLKP1

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: SBLKP1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SBLKP1

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/29/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/01/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | UNKNOWN ALCOHOL | 10.84 | 11 | |
| 2. | | | | | |
| 3. | | | | | |
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000482
SBLKP1

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: SBLKP1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SBLKP1

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/29/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/01/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

000233

SBLKP4

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Lab File ID: SBLKP4 Lab Sample ID: SBLKP4

Instrument ID: hpmsg.i Date Extracted: 11/02/95

Matrix: (soil/water) WATER Date Analyzed: 11/03/95

Level: (low/med) LOW Time Analyzed: 1701

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|---|
| 01 | EARS0 | 95-09-305-01B | EARS0RE | 11/03/95 |
| 02 | | | | |
| 03 | | | | |
| 04 | | | | |
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COMMENTS:

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000253

EARR0

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 95-09-284-02B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARR0

Level: (low/med) LOW Date Received: 09/27/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/29/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/01/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000243
EARQ8

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 95-09-284-01B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARQ8

Level: (low/med) LOW Date Received: 09/27/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/29/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/01/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
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1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000254

EARR0

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 95-09-284-02B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARR0

Level: (low/med) LOW Date Received: 09/27/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/29/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/01/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(a)anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)phthalate | 10 ~~6~~ 3 | JBV |
| 117-84-0 | Di-n-octylphthalate | 10 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | U |

AV 11-9-95

(1) - Cannot be separated from Diphenylamine

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000255
EARR0

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 95-09-284-02B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARR0

Level: (low/med) LOW Date Received: 09/27/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/29/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/01/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000266
EARR1

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 95-09-284-03B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARR1

Level: (low/med) LOW Date Received: 09/27/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/29/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/01/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000267

EARR1

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 95-09-284-03B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARR1

Level: (low/med) LOW Date Received: 09/27/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/29/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/01/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(a)anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)phthalate | 10 ~~8~~ | JB U |
| 117-84-0 | Di-n-octylphthalate | 10 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | U |

AV 11-9-95

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000279
EARR3

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 95-09-261-01B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARR3

Level: (low/med) LOW Date Received: 09/26/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/29/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/01/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000268

EARR1

Lab Name: ROSS ANALYTICAL SERVICES  Contract: 68-D5-0024

Lab Code: ROSS  Case No.: 24033  SAS No.:  SDG No.: EARR3

Matrix: (soil/water) WATER  Lab Sample ID: 95-09-284-03B

Sample wt/vol: 1000 (g/mL) ML  Lab File ID: EARR1

Level: (low/med) LOW  Date Received: 09/27/95

% Moisture: _____ decanted: (Y/N)___  Date Extracted:09/29/95

Concentrated Extract Volume: 1000(uL)  Date Analyzed: 11/01/95

Injection Volume: 2.0(uL)  Dilution Factor: 1.0

GPC Cleanup: (Y/N) N  pH: 7.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EARR3

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 95-09-261-01B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARR3

Level: (low/med) LOW Date Received: 09/26/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/29/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/01/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 7

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | TERT-BUTYL PHENOL ISOMER | 14.39 | 5 | |
| 2. | | UNKNOWN | 19.50 | 150 | |
| 3. | 50-06-6 | PHENOBARBITAL | 22.78 | 6 | N |
| 4. | | UNKNOWN CYCLIC ALKENE | 22.82 | 6 | |
| 5. | 620-92-8 | PHENOL, 4,4'-METHYLENEBIS- | 23.52 | 7 | N |
| 6. | | UNKNOWN ETHER | 24.12 | 12 | |
| 7. | | UNKNOWN ALDEHYDE | 25.19 | 7 | |
| 8. | | | | | |
| 9. | | | | | |
| 10. | | | | | |
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000280

EARR3

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 95-09-261-01B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARR3

Level: (low/med) LOW Date Received: 09/26/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/29/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/01/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 11 | |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(a)anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)phthalate | 5 | JB |
| 117-84-0 | Di-n-octylphthalate | 10 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

1B

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000298
EARR4

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 95-09-261-02B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARR4

Level: (low/med) LOW Date Received: 09/26/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/29/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/01/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000299

EARR4

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 95-09-261-02B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARR4

Level: (low/med) LOW Date Received: 09/26/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/29/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/01/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(a)anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)phthalate | ~~10~~ 8.6 | JBV |
| 117-84-0 | Di-n-octylphthalate | 10 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | U |

AV 11-9-95

(1) - Cannot be separated from Diphenylamine

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
**000300**
EARR4

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 95-09-261-02B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARR4

Level: (low/med) LOW Date Received: 09/26/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/29/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/01/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 50-06-6 | PHENOBARBITAL | 22.77 | 5 | N |
| 2. | | | | | |
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000312

EARR5

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 95-09-261-03B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARR5

Level: (low/med) LOW Date Received: 09/26/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/29/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/01/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000313

EARR5

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 95-09-261-03B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARR5

Level: (low/med) LOW Date Received: 09/26/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/29/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/01/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(a)anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)phthalate | 10 ~~9.6~~ | JBV |
| 117-84-0 | Di-n-octylphthalate | 10 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

AV 11-9-95

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 000314

EARR5

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 95-09-261-03B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARR5

Level: (low/med) LOW Date Received: 09/26/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/29/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/01/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 50-06-6 | PHENOBARBITAL | 22.77 | 4 | N |
| 2. | | UNKNOWN KETONE | 25.16 | 5 | |
| 3. | | | | | |
| 4. | | | | | |
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000327

EARR6

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 95-09-284-04B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARR6

Level: (low/med) LOW Date Received: 09/27/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/29/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/01/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000328

EARR6

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 95-09-284-04B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARR6

Level: (low/med) LOW Date Received: 09/27/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/29/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/01/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(a)anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)phthalate | 10 ~~0.2~~ | JBU |
| 117-84-0 | Di-n-octylphthalate | 10 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | U |

AV 11-9-95

(1) - Cannot be separated from Diphenylamine

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000329
EARR6

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 95-09-284-04B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARR6

Level: (low/med) LOW Date Received: 09/27/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/29/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/01/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | UNKNOWN | 6.52 | 9 | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000341

EARR7

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 95-09-284-05B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARR7

Level: (low/med) LOW Date Received: 09/27/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/29/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/01/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000342

EARR7

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 95-09-284-05B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARR7

Level: (low/med) LOW Date Received: 09/27/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/29/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/01/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(a)anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)phthalate | 10 | U |
| 117-84-0 | Di-n-octylphthalate | 10 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 000343

EARR7

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 95-09-284-05B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARR7

Level: (low/med) LOW Date Received: 09/27/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/29/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/01/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | UNKNOWN ALCOHOL | 10.85 | 11 | BJ |
| 2. | | | | | |
| 3. | | | | | |
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000241
EARQ8

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 95-09-284-01B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARQ8

Level: (low/med) LOW Date Received: 09/27/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/29/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/01/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
000498
SBLKP4

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: SBLKP4

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SBLKP4

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/02/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/03/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | UNKNOWN ALCOHOL | 10.29 | 9 | J |
| 2. | 1647-26-3 | CYCLOHEXANE, (2-BROMOETHYL)- | 11.70 | 4 | NJ |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
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1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000242

EARQ8

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 95-09-284-01B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARQ8

Level: (low/med) LOW Date Received: 09/27/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/29/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/01/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(a)anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)phthalate | ~~10~~ 0.2 | JBU |
| 117-84-0 | Di-n-octylphthalate | 10 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

AV 11-9-95

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000352

EARS0

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 95-09-305-01B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARS0RE

Level: (low/med) LOW Date Received: 09/28/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/02/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/03/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

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| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

EARS0

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 95-09-305-01B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARS0RE

Level: (low/med) LOW Date Received: 09/28/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/02/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/03/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(a)anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)phthalate | ~~10~~ 0.5 JB | U |
| 117-84-0 | Di-n-octylphthalate | 10 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | U |

AV 11-9-95

(1) - Cannot be separated from Diphenylamine

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 000354

EARS0

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 95-09-305-01B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EARS0RE

Level: (low/med) LOW Date Received: 09/28/95

% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/02/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/03/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | UNKNOWN | 12.38 | 10 | J |
| 2. | | UNKNOWN ALCOHOL | 23.54 | 5 | J |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
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| 30. | | | | | |

2E
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

GC Column(1): RTX-1701 ID: 0.32 (mm) GC Column(2): RTX-5 ID: 0.32 (mm)

| | EPA SAMPLE NO. | TCX 1 %REC # | TCX 2 %REC # | DCB 1 %REC # | DCB 2 %REC # | OTHER (1) | OTHER (2) | TOT OUT |
|---|---|---|---|---|---|---|---|---|
| 01 | PBLKP2 | 56 | 58 | 49 | 45 | | | 0 |
| 02 | EARR3 | 69 | 70 | 40 | 39 | | | 0 |
| 03 | EARR3MS | 64 | 64 | 36 | 33 | | | 0 |
| 04 | EARR3MSD | 66 | 65 | 38 | 41 | | | 0 |
| 05 | EARR4 | 82 | 69 | 50 | 50 | | | 0 |
| 06 | EARR5 | 95 | 74 | 55 | 51 | | | 0 |
| 07 | EARQ8 | 80 | 69 | 44 | 45 | | | 0 |
| 08 | EARR0 | 87 | 61 | 27* | 27* | | | 2 |
| 09 | EARR1 | 98 | 78 | 58 | 56 | | | 0 |
| 10 | EARR6 | 81 | 80 | 50 | 49 | | | 0 |
| 11 | EARR7 | 75 | 68 | 48 | 46 | | | 0 |
| 12 | EARS0 | 66 | 65 | 56 | 54 | | | 0 |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
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| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |

QC LIMITS
S1 (TCX) = Tetrachloro-m-xylene (30-150)
S2 (DCB) = Decachlorobiphenyl (30-150)

# Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

# WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY



Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3 ✓

Matrix Spike - EPA Sample No.: EARR3

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC # | QC. LIMITS REC. |
|---|---|---|---|---|---|
| gamma-BHC (Lindane) | 0.50 | 0.00 | 0.29 | 58 | 56-123 |
| Heptachlor | 0.50 | 0.00 | 0.30 | 60 | 40-131 |
| Aldrin | 0.50 | 0.00 | 0.30 | 60 | 40-120 |
| Dieldrin | 1.0 | 0.00 | 0.69 | 69 | 52-126 |
| Endrin | 1.0 | 0.00 | 0.70 | 70 | 56-121 |
| 4,4'-DDT | 1.0 | 0.00 | 0.64 | 64 | 38-127 |

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| gamma-BHC (Lindane) | 0.50 | 0.30 | 60 | 3 | 15 | 56-123 |
| Heptachlor | 0.50 | 0.32 | 64 | 6 | 20 | 40-131 |
| Aldrin | 0.50 | 0.32 | 64 | 6 | 22 | 40-120 |
| Dieldrin | 1.0 | 0.71 | 71 | 3 | 18 | 52-126 |
| Endrin | 1.0 | 0.71 | 71 | 1 | 21 | 56-121 |
| 4,4'-DDT | 1.0 | 0.65 | 65 | 2 | 27 | 38-127 |

# Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

COMMENTS: _____

4C

# PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO. 000533

PBLKP2

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Lab Sample ID: PBLKP2 Lab File ID: G951020-03R

Matrix (soil/water) WATER Extraction: (SepF/Cont/Sonc) CONT

Sulfur Cleanup (Y/N) N Date Extracted: 09/29/95

Date Analyzed (1): 10/23/95 Date Analyzed (2): 10/23/95

Time Analyzed (1): 1615 Time Analyzed (2): 1615

Instrument ID (1): v3400g.i Instrument ID (2): v3400h.i

GC Column (1): RTX-1701 ID: 0.32(mm) GC Column (2): RTX-5 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

| | EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|---|---|---|---|---|
| 01 | EARR3 | 950926101 | 10/23/95 | 10/23/95 |
| 02 | EARR3MS | 950926101MS | 10/23/95 | 10/23/95 |
| 03 | EARR3MSD | 950926101MSD | 10/23/95 | 10/23/95 |
| 04 | EARR4 | 950926102 | 10/23/95 | 10/23/95 |
| 05 | EARR5 | 950926103 | 10/23/95 | 10/23/95 |
| 06 | EARQ8 | 950928401 | 10/23/95 | 10/23/95 |
| 07 | EARR0 | 950928402 | 10/23/95 | 10/23/95 |
| 08 | EARR1 | 950928403 | 10/23/95 | 10/23/95 |
| 09 | EARR6 | 950928404 | 10/23/95 | 10/23/95 |
| 10 | EARR7 | 950928405 | 10/23/95 | 10/23/95 |
| 11 | EARS0 | 950930501 | 10/24/95 | 10/24/95 |
| 12 | | | | |
| 13 | | | | |
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| 26 | | | | |

COMMENTS: _____

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000740

PBLKP2

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: PBLKP2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G951020-03R

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) CONT Date Extracted:09/29/95

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/23/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000534

EARQ8

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 950928401

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G951020-09R

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/27/95 ✓

Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 09/29/95

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/23/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000539

EARR0

Lab Name: ROSS ANALYTICAL SERVICES  Contract: 68-D5-0024

Lab Code: ROSS  Case No.: 24033  SAS No.:  SDG No.: EARR3

Matrix: (soil/water) WATER  Lab Sample ID: 950928402

Sample wt/vol: 1000 (g/mL) ML  Lab File ID: G951020-10R

% Moisture: _____ decanted: (Y/N)___  Date Received: 09/27/95

Extraction: (SepF/Cont/Sonc) CONT  Date Extracted:09/29/95

Concentrated Extract Volume: 10000(uL)  Date Analyzed: 10/23/95

Injection Volume: 2.0(uL)  Dilution Factor: 1.0

GPC Cleanup: (Y/N) N  pH: 7.0  Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000545

EARR1

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 950928403 ✓

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G951020-11R

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/27/95

Extraction: (SepF/Cont/Sonc) CONT Date Extracted:09/29/95

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/23/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000553

EARR3

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 950926101

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G951020-04R

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/26/95

Extraction: (SepF/Cont/Sonc) CONT Date Extracted:09/29/95

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/23/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000558

EARR4

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 950926102

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G951020-07R

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/26/95

Extraction: (SepF/Cont/Sonc) CONT Date Extracted:09/29/95

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/23/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000566

EARR5

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 950926103

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G951020-08R

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/26/95

Extraction: (SepF/Cont/Sonc) CONT Date Extracted:09/29/95

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/23/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000574
EARR6

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 950928404

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G951020-12R

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/27/95 ✓

Extraction: (SepF/Cont/Sonc) CONT Date Extracted:09/29/95

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/23/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000579

EARR7

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 950928405

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G951020-13R

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/27/95 ✓

Extraction: (SepF/Cont/Sonc) CONT Date Extracted:09/29/95

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/23/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000584

EARS0

Lab Name: ROSS ANALYTICAL SERVICES Contract: 68-D5-0024

Lab Code: ROSS Case No.: 24033 SAS No.: SDG No.: EARR3

Matrix: (soil/water) WATER Lab Sample ID: 950930501

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G951020-14R

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/28/95

Extraction: (SepF/Cont/Sonc) CONT Date Extracted:09/29/95

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/24/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

EPA United States Environmental Protection Agency
Contract Laboratory Program

# Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (if applicable):
Case: 24033

1. Matrix (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (Specify in Column A)

2. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. Other (Specify in Column D) N. Not preserved

2. Region No.: V
Sampling Co.: Corps of Engineers - Omaha
Sampler (Name): J. RHINER, M BENAK
Sampler Signature: [signature]

3. Purpose*: Lead [X] SF [ ] PRP [ ] ST [ ] FED
Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [ ] SI [ ] ESI
Long-Term Action: [ ] FS [X] RD [ ] RA [ ] O&M [ ] NPLD

4. Date Shipped: 9-18-95
Carrier: AM EX
Airbill Number: 354 2881602

5. Ship To: Ross Analytical Services, 16433 Foltz Industrial Pky, Strongville, OH 44136
ATTN: Carol Turner

6. Date Received -- Received by: 9/19/95 Carol L. Turner
Laboratory Contract Number: 68-D5-0024
Unit Price: $595

7. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

| CLP Sample Numbers (from labels) | A Matrix (from Box 1) Other: | B Conc.: Low Med High | C Sample Type: Comp./Grab | D Preservative (from Box 2) Other: | E RAS Analysis: VOA | BNA | Pest/PCB | High only ARO/TOX | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K High Phases: Solids | Water-Miscible Liq. | Water-Immis. Liq. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EARP0 | 2 | L | G | 1 | X | | | | 5-190964 5-190965 | 95CE03R05 | 9/18/95 0700 | MEA R | R | | | |
| EARP1 | 2 | L | G | 1 | X | | | | 5-190956 5-190957 | 95CE03S05 | 9/18/95 1245 | MEAFG1 | R | | | |
| EARP1 | 2 | L | G | 5 | | X | | | 5-190958 5-190959 | 95CE03S05 | 9/18/95 1245 | MEAFG1 | R | | | |
| EARP1 | 2 | L | G | 5 | | | X | | 5-190960 5-190962 | 95CE03S05 | 9/18/95 1245 | MEAFG1 | R | | | |
| EARP2 | 2 | L | G | 1 | X | | | | 5-190678 5-190679 | 95CE03S07 | 9/18/95 1625 | MEAFG2 | R | | | |
| EARP2 | 2 | L | G | 5 | | X | | | 5-190683 + 5-190681 | 95CE03S07 | 9/18/95 1625 | MEAFG2 | R | | | |
| EARP2 | 2 | L | G | 5 | | | X | | 5-190682 + 5-190686 | 95CE03S07 | 9/18/95 1625 | MEAFG2 | R | | | |

Shipment for Case Complete? (Y/N): Y
Page: 1 of 1
Sample(s) to be Used for Laboratory QC:
Additional Sampler Signatures: [signature]
Chain of Custody Seal Number(s): 41101 + 41102

## CHAIN OF CUSTODY RECORD

| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
|---|---|---|---|---|---|
| [signature] | 9/19/95 [illegible] | | | | |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| | | | | | |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) [signature] | Date / Time 9/19/95 1000 | Remarks Is custody seal intact? Y/N/none | |

TION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-4 REV. 3/93

000011

363847

EPA United States Environmental Protection Agency Contract Laboratory Program

# Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (If applicable):

Case No.: 24033

1. Matrix (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (Specify in Column A)

2. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. Other (Specify in Column D) N. Not preserved

2. Region No.: V

Sampling Co.: Corps of Engineers - OMAHA

4. Date Shipped: 9-19-95

Carrier: FED EX

6. Date Received -- Received by: 9/20/95 ~ Kendra Scholle

Sampler (Name): J. RHINER, M. Benak

Airbill Number: 6874356296

Laboratory Contract Number: 6-B-D5-0024

Unit Price: $595

Sampler Signature: Rhiner [signature]

5. Ship To: Ross Analytical Services, INC, 16433 FOLTZ Industrial PKY, Strongville, OH 44136

ATTN: Carol Turner

7. Transfer to:

Date Received:

Received by:

Contract Number:

Price:

3. Purpose*: Lead: [X] SF [ ] PRP [ ] ST [ ] FED; Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [ ] SI [ ] ESI; Long-Term Action: [ ] FS [X] RD [ ] RA [ ] O&M [ ] NPLD

| CLP Sample Numbers (from labels) | A Matrix (from Box 1) Other: | B Conc.: Low Med High | C Sample Type: Comp./Grab | D Preservative (from Box 2) Other: | E RAS Analysis: VOA | BNA | Pest/PCB | High only ARO/TOX | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K High Phases: Solids | Water-Miscible Liq. | Water-Immis. Liq. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EARP3 | 2 | L | G | 1 | X | | | | 5-190672, 5-190673 | 95CE03R06 | 9/19/95 0750 | | RM | | | |
| EARP4 | 2 | L | G | 1 | X | | | | 5-190608, 5-190607 | 95CE03M01 | 9/19/95 0950 | | RM | | | |
| EARP4 | 2 | L | G | 1 | X | | | | 5-190606, 5-190605 | 95CE03M01 | 9/19/95 0950 | | RM | | | |
| EARP4 | 2 | L | G | 1 | X | | | | 5-190604, 5-190603 | 95CE03M01 | 9/19/95 0950 | | RM | | | |
| EARP4 | 2 | L | G | 5 | | X | | | 5-190610, 5-190609 | 95CE03S01 | 9/19/95 0950 | MEAFG3 | RM | | | |
| EARP4 | 2 | L | G | 1 | X | | | | 5-190602, 5-190601 | 95CE03S01 | 9/19/95 0950 | MEAFG3 | RM | | | |
| EARP4 | 2 | L | G | 1 | | | X | | 5-190615, 5-190616 | 95CE03S01 | 9/19/95 0950 | MEAFG3 | RM | | | |
| EARP5 | 2 | L | G | 1 | X | | | | 5-190624, 5-190625 | 95CE03S03 | 9/19/95 1610 | MEAFG4 | RM | | | |

Shipment for Case Complete? (Y/N): Y

Page: 1 of 1

Sample(s) to be Used for Laboratory QC: 5-190603-604-605-606-607-608

Additional Sampler Signatures: [signature] Carolyn Schaefer

Chain of Custody Seal Number(s): 41105 41106

## CHAIN OF CUSTODY RECORD

| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
|---|---|---|---|---|---|
| [signature] | [illegible] | | | | |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| | | | | | |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) | Date / Time | Remarks: Is custody seal intact? Y/N/none | |
| | | Kendra Scholle | 9/20/95 1000 | | |

DISTRIBUTION: Blue - Region; White - Lab Copy for Return to Region; Pink - [illegible] Copy; Yellow - Lab Copy for Return to SMO

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-4 REV. 3/93

000012

# EPA — Organic Traffic Report & Chain of Custody Record

United States Environmental Protection Agency
Contract Laboratory Program

(For Organic CLP Analysis)

SAS No. (if applicable):

Case: 24033

1. Matrix — (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Field QC
   5. Soil/Sediment
   6. [illegible] (High only)
   7. Waste (High only)
   8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
   1. HCl
   2. $HNO_3$
   3. $NaHSO_4$
   4. $H_2SO_4$
   5. Ice only
   6. Other (Specify in Column D)
   N. Not preserved

2. Region No.: V
Sampling Co: Corps of Engineers-Omaha
4. Date Shipped: 9-19-95
Carrier: FED EX
6. Date Received -- Received by: 9/20/95 - Kendra Schalle

Sampler (Name): J. RHINER, M. Bilak
Airbill Number: 687435627 4
Laboratory Contract Number: 68-D5-0024
Unit Price: $595

Sampler Signature:
5. Ship To: Ross Analytical Services, INC
16433 Foltz Industrial PKY
Strongville, OH 44136
ATTN: Carol Turner
7. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

3. Purpose*
Early Action: CLEM, PA, REM, RI, SI, ESI
Long-Term Action: FS, RD, RA, O&M, NPLD
Lead: SF, PRP, ST, FED

| CLP Sample Numbers (from labels) | A Matrix (from Box 1) / Other | B Conc.: Low Med High | C Sample Type: Comp./ Grab | D Preservative (from Box 2) / Other | E RAS Analysis: VOA | BNA | Pest/ PCB | High only ARO/ TOX | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/ Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K High Phases: Solids | Water-Miscible Liq. | Water-Immis. Liq. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EARPH | 2 | L | G | 5 | | X | | | 5-190614, 5-190613 | 95CE03M01 | 9/19/95 0950 | | RH | | | |
| EARPH | 2 | L | G | 5 | | X | | | 5-190612, 5-190611 | 95CE03M01 | 9/19/95 0950 | | RH | | | |
| EARPH | 2 | L | G | 5 | | | X | | 5-190617, 5-190618 | 95CE03M01 | 9/19/95 0950 | | RH | | | |
| EARPH | 2 | L | G | 5 | | | X | | 5-190619, 5-190620 | 95CE03M01 | 9/19/95 0950 | | RH | | | |

Shipment for Case Complete? (Y/N): Y
Page: 1 of 1
Sample(s) to be Used for Laboratory QC: ALL OF THE ABOVE
Additional Sampler Signatures: Kendra Schalle
Chain of Custody Seal Number(s): 41109 41110

## CHAIN OF CUSTODY RECORD

| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
|---|---|---|---|---|---|
| [illegible] | 9/11/95 1:00pm | | | | |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| | | | | | |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) | Date / Time | Remarks: Is custody seal intact? Y/N/none | |
| | | Kendra Schalle | 9/20/95 1000 | | |

DISTRIBUTION: Blue - Re[illegible] Copy; White - Lab Copy for Return to Region; Pink - Copy; Yellow - Lab Copy for Return to

EPA Form 9110-2

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*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-0124 REV. 3/93

000013

363849

Organic Traffic Report & Chain of Custody Form Instructions

# EPA — Organic Traffic Report & Chain of Custody Record

United States Environmental Protection Agency
Contract Laboratory Program

(For Organic CLP Analysis)

SAS No. (If applicable):

Case No.: 24033

1. Matrix (Enter in Column A): 1. Surface Water; 2. Ground Water; 3. Leachate; 4. Field QC; 5. Soil/Sediment; 6. Oil (High only); 7. Waste (High only); 8. Other (Specify in Column A)

2. Preservative (Enter in Column D): 1. HCl; 2. HNO3; 3. NaHSO4; 4. H2SO4; 5. Ice only; 6. Other (Specify in Column D); N. Not preserved

2. Region No.: I
Sampling Co.: Corps of Engineers-OHA
4. Date Shipped: 9/19/95
Carrier: FED EX
6. Date Received -- Received by: 9/20/95 ~ Kendra Scholle

Sampler (Name): J. RHINER M Benak
Airbill Number: 687435825 6
Laboratory Contract Number: 68-D5-0024
Unit Price: $595

Sampler Signature:
5. Ship To: Ross Analytical Services, INC 16433 Foltz Industrial PKY Strongville, OH 44136 ATTN: Carol Turner
7. Transfer to:
Date Received:

3. Purpose*: Lead: SF, PRP, ST, FED; Early Action: CLEM, PA, REM, RI, SI, ESI; Long-Term Action: FS, RD, RA, O&M, NPLD
Received by:
Contract Number:
Price:

| CLP Sample Numbers (from labels) | A Matrix (from Box 1) Other: | B Conc.: Low Med High | C Sample Type: Comp./ Grab | D Preservative (from Box 2) Other: | E RAS Analysis: VOA | BNA | Pest/ PCB | High only ARO/ TOX | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/ Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K High Phases: Solids | Water-Miscible Liq. | Water-Immis. Liq. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EARP5 | 2 | L | G | 5 | | X | | | 5-190626, 5-190627 | 95E03503 | 9/19/95 1610 | MEAF64 | RI | | | |
| EARP5 | 2 | L | G | 5 | | | X | | 5-190628, 5-190629 | 95E03503 | 9/19/95 1610 | MEAF64 | RI | | | |

Shipment for Case Complete? (Y/N): N
Page: 1 of 1
Sample(s) to be Used for Laboratory QC:
Additional Sampler Signatures:
Chain of Custody Seal Number(s): 41111 41112

## CHAIN OF CUSTODY RECORD

| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
|---|---|---|---|---|---|
| | 9/19/95 | | | | |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| | | | | | |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) | Date / Time | Remarks: Is custody seal intact? Y/N/none | |
| | | Kendra Scholle | 9/20/95 1000 | | |

DISTRIBUTION: White - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to

EPA Form 9110-2

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SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-4 REV. 3/93

363850

Organic Traffic Report & Chain of Custody Form Instructions ... \Chain of Custody Report

# EPA — Organic Traffic Report & Chain of Custody Record

United States Environmental Protection Agency
Contract Laboratory Program

(For Organic CLP Analysis)

SAS No. (if applicable):

No. 24033

| 1. Project Code | Account Code | 2. Region No. | Sampling Co. | 4. Date Shipped | Carrier |
|---|---|---|---|---|---|
| | | V | Corps of Engineers-6 | 9/20/95 | FED EX |

Regional Information:

Sampler (Name): J RHINER, Michelle Benak

Airbill Number: 687435816 4

Non-Superfund Program:

Sampler Signature: Michelle Benak

5. Ship To: Ross Analytical Services, INC
16433 FOLTZ Industrial PKY
Strongville, OH 44136
ATTN: Carol Turner

Site Name: HIMCO

City, State: Elkhart, IN

Site Split ID: 45

3. Purpose*

Lead: [X] SF [ ] PRP [ ] ST [ ] FED

Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [ ] SI [ ] ESI

Long-Term Action: [X] FS [X] RD [ ] RA [ ] O&M [ ] NPLD

6. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify in Column A)

7. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

| CLP Sample Numbers (from labels) | A Matrix (from Box 6) / Other: | B Conc.: Low Med High | C Sample Type: Comp./ Grab | D Preservative (from Box 7) / Other: | E RAS Analysis: VOA | BNA | Pest/PCB | High only ARO/TOX | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/ Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K Field QC Qualifier (B = Blank, S = Spike, D = Duplicate, R = Rinsate, PE = Perform. Eval., — = Not a QC Sample) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EARP7 | 2 | L | G | 1 | X | | | | 5-190651, 5-190638 | 95CE03R07 | 9/20/95 1050 | | RMB | B |
| EARP6 | 2 | L | G | 1 | X | | | | 5-190636, 5-190637 | 95CE03S31 | 9/20/95 1320 | MEAFG5 | RMB | |
| EARP6 | 2 | L | G | 5 | | X | | | 5-190633, 5-190635 | 95CE03S31 | 9/20/95 1320 | MEAFG5 | RMB | |
| EARP6 | 2 | L | G | 5 | | | X | | 5-190707, 5-190708 | 95CE03S31 | 9/20/95 1320 | MEAFG5 | JRMB | |
| EARP8 | 2 | L | G | 1 | X | | | | 5-190715, 5-190716 | 95CE03S29 | 9/20/95 1136 | MEAFG6 | RMB | |
| | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | |

Shipment for Case Complete? (Y/N): Y

Page: 1 of 1

Sample(s) to be Used for Laboratory QC:

Additional Sampler Signatures:

Chain of Custody Seal Number(s): 41117 41118

## CHAIN OF CUSTODY RECORD

| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
|---|---|---|---|---|---|
| Michelle Benak | 9/20/95 6:00pm | | | | |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| | | | | | |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) | Date / Time | Remarks: Is custody seal intact? (Y)N/none | |
| | | Kendra Scholle | 9/21/95 1030 | | |

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to

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ASI-013-3 REV. 3/89

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363851

# EPA — Organic Traffic Report & Chain of Custody Record

United States Environmental Protection Agency
Contract Laboratory Program

(For Organic CLP Analysis)

SAS No. (If applicable):

No. 24033

| 1. Project Code | Account Code | 2. Region No. | Sampling Co. | 4. Date Shipped | Carrier |
|---|---|---|---|---|---|
| | | V | Corps of Engineers | 9/20/95 | Fed Ex |

Regional Information:

Sampler (Name): Michelle Benek, JShiner

Airbill Number: 6874358164

Non-Superfund Program:

Sampler Signature: Michelle Benek, J Shiner

5. Ship To: Ross Analytical Services Inc.
16433 Foltz Industrial Pkwy
Strongsville OH 44136
ATTN: Carol Turner

Site Name: Himco

City, State: Elkhart IN

Site Spill ID: 4J

3. Purpose*

| Lead | Early Action | Long-Term Action |
|---|---|---|
| [X] SF | [ ] CLEM | [ ] FS |
| [ ] PRP | [ ] PA | [X] RD |
| [ ] ST | [ ] REM | [ ] RA |
| [ ] FED | [ ] RI | [ ] O&M |
| | [ ] SI | [ ] NPLD |
| | [ ] ESI | |

6. Matrix (Enter In Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify in Column A)

7. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

| CLP Sample Numbers (from labels) | A Matrix (from Box 6) / Other: | B Conc.: Low Med High | C Sample Type: Comp./ Grab | D Preservative (from Box 7) / Other: | E RAS Analysis: VOA | BNA | Pest/ PCB | High only ARO/ TOX | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/ Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K Field QC Qualifier (B = Blank, S = Spike, D = Duplicate, R = Rinsate, PE = Performance Eval., — = Not a QC) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EARP 8 | 2 | L | G | 5 | | X | | | 5-190717, 5-190718 | 95CE03529 | 9/20/95 1436 | MEA F66 | MBJR | |
| EARP 8 | 2 | L | G | 5 | | | X | | 5-190719, 5-190720 | 95CE03529 | 9/20/95 1436 | MEA F66 | MBJR | |
| | | | | | | | | | | | | | | |
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Shipment for Case Complete? (Y/N): Y

Page: 1 of 1

Sample(s) to be Used for Laboratory QC:

Additional Sampler Signatures: Carolyn Schwoll, Shawn Hanick

Chain of Custody Seal Number(s): 41115, 41116

## CHAIN OF CUSTODY RECORD

| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
|---|---|---|---|---|---|
| Michelle Benek | 9/20/95 6:00pm | | | | |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| | | | | | |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) | Date / Time | Remarks: Is custody seal intact? (Y)N/none | |
| | | Kendra Scholle | 9/21/95 1030 | | |

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AR-026-3 REV.

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363852

EPA United States Environmental Protection Agency Contract Laboratory Program

# Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (If applicable)

Case No. 24033

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

2. Region No.: V
Sampling Co.: Corps of Eng.
Sampler (Name): Rhiner Michelle Reinke
Sampler Signature: Rhiner Michelle Reinke

3. Purpose*: Lead: [X] SF [ ] PRP [ ] ST [ ] FED
Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [ ] SI [ ] ESI
Long-Term Action: [ ] FS [X] RD [ ] RA [ ] O&M [ ] NPLD

4. Date Shipped: 9/21/95
Carrier: FED EX
Airbill Number: 6874 358190

5. Ship To: Ross Analytical Services, 16433 Foltz Industrial Pky, Strongville, OH 44136
ATTN: Carol Turner

6. Date Received – Received by: 9/22/95 Carol L. Turner
Laboratory Contract Number: 68-D5-0024
Unit Price: $595.

7. Transfer to:
Date Received
Received by
Contract Number
Price

| CLP Sample Numbers (from labels) | A Matrix (from Box 1) Other: | B Conc.: Low Med High | C Sample Type: Comp./Grab | D Preservative (from Box 2) Other: | E RAS Analysis: VOA | BNA | Pest/PCB | High only ARO/TOX | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K High Phases: Solids | Water-Miscible Liq. | Water-Immis. Liq. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EARP9 | 2 | L | G | 1 | X | | | | 5-190703, 5-190704 | 95CE03R08 | 9/21/95 0811 | | RH | | | |
| EARQ0 | 2 | L | G | 1 | X | | | | 5-190571, 5-190572 | 95CE03D01 | 9/21/95 1200 | MEAFG7 | RH | | | |
| EARQ1 | 2 | L | G | 1 | X | | | | 5-190563, 5-190705 | 95CE03S15 | 9/21/95 1025 | MEAFG8 | RH | | | |
| EARQ0 | 2 | L | G | 5 | | | X | | 5-190575, 5-190576 | 95CE03D01 | 9/21/95 1200 | MEAFG7 | RH | | | |
| EARQ2 | 2 | L | G | 1 | X | | | | 5-190579, 5-190580 | 95CE03S11 | 9/21/95 1035 | MEAFG9 | RH | | | |
| EARQ4 | 2 | L | G | 1 | X | | | | 5-190731, 5-190732 | 95CE03S09 | 9/21/95 1410 | MEAFH1 | RH | | | |
| EARQ8 | 2 | L | G | 1 | X | | | | 5-190723, 5-190724 | 95CE03SM | 9/21/95 1500 | MEAFH0 | RH | | | |

Shipment for Case Complete? (Y/N): Y
Page 1 of 1
Sample(s) to be Used for Laboratory QC
Additional Sampler Signatures
Chain of Custody Seal Number(s): 41123 41124

## CHAIN OF CUSTODY RECORD

| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
|---|---|---|---|---|---|
| Michelle Reinke | 9/21/95 1800hrs | | | | |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| | | | | | |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) | Date / Time | Remarks | Is custody seal intact? Y/N/none |
| | | Carol Turner | 9/22/95 1000 | | |

DISTRIBUTION: 1 - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Copy for Return to S

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*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-4 REV. 3/93

000017

# EPA Organic Traffic Report & Chain of Custody Record

United States Environmental Protection Agency
Contract Laboratory Program
(For Organic CLP Analysis)

SAS No. (If applicable):
Case: 24033

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Solid (High only)
7. Waste (High only)
8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

2. Region No.: V
Sampling Co.: Corps of Eng.
4. Date Shipped: 9-21-95
Carrier: FED EX
6. Date Received -- Received by: 9/22/95 Carol L. Turner
Sampler (Name): Tehmer Michelle Bank
Airbill Number: 6874358190
Laboratory Contract Number: 68-05-0024
Unit Price: $595.
Sampler Signature: Michelle Bank
5. Ship To: Ross Analytical Services 16433 Foltz Industrial Pkwy Strongsville, OH 44136 ATTN: Carol Turner
7. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

3. Purpose*
Lead: SF, PRP, ST, FED
Early Action: CLEM, PA, REM, RI, SI, ESI
Long-Term Action: FS, RD, RA, O&M, NPLD

| CLP Sample Numbers (from labels) | A Matrix (from Box 1) / Other: | B Conc.: Low Med High | C Sample Type: Comp./Grab | D Preservative (from Box 2) / Other: | E RAS Analysis: VOA | BNA | Pest/PCB | High only: ARO/TOX | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K High Phases: Solids | Water-Miscible Liq. | Water-Immis. Liq. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EARQ2 | 2 | L | G | 5 | | | X | | 5-190583, 5-190584 | 95CE03S11 | 9/21/95 1035 | MEAF69 | JB | | | |
| EARQ2 | 2 | L | G | 5 | | X | | | 5-190582, 5-190581 | 95CE03S11 | 9/21/95 1035 | MEAF69 | JB | | | |
| EARQ0 | 2 | L | G | 5 | | X | | | 5-190573, 5-190574 | 95CE03D01 | 9/21/95 1200 | MEAF67 | JB | | | |

Shipment for Case Complete? (Y/N): Y
Page: 1 of 1
Sample(s) to be Used for Laboratory QC:
Additional Sampler Signatures:
Chain of Custody Seal Number(s): 41125 41126

## CHAIN OF CUSTODY RECORD

| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
|---|---|---|---|---|---|
| Michelle Bank | 9/21/95 1800 | | | | |
| | | | | | |
| | | | | | |

| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) | Date / Time | Remarks: Is custody seal intact? Y/N/none |
|---|---|---|---|---|
| | | | 9/22/95 1000 | |

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to

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A21-012-4 REV. 3/93

000078

363855

Organic Traffic Report & Chain of Custody Record

EPA United States Environmental Protection Agency Contract Laboratory Program

# Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (If applicable):

Case: 24033

1. Matrix (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (Specify in Column A)

2. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. Other (Specify in Column D) N. Not preserved

2. Region No.: V

Sampling Co.: Corps of Eng.

4. Date Shipped: 9/21/95

Carrier: FED EX

6. Date Received -- Received by: 9/22/95 Carol L. Turner

Sampler (Name): Rhiner Michelle Perrit

Airbill Number: 6874358190

Laboratory Contract Number: 68-D5-0024

Unit Price: $595.

Sampler Signature: Michelle Perrit

5. Ship To: Cross Analytical Services, 16433 Foltz Industrial, Strongville, OH 44136

ATTN: Carol Turner

7. Transfer to:

Date Received:

Received by:

Contract Number:

Price:

3. Purpose*: Load: [X] SF [ ] PRP [ ] ST [ ] FED; Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [ ] SI [ ] ESI; Long-Term Action: [ ] FS [X] RD [ ] RA [ ] O&M [ ] NPLD

| CLP Sample Numbers (from labels) | A Matrix (from Box 1) Other: | B Conc.: Low Med High | C Sample Type: Comp./Grab | D Preservative (from Box 2) Other: | E RAS Analysis: VOA | BNA | Pest/PCB | High only ARO/TOX | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K High Phases: Solids | Water-Miscible Liq. | Water-Immis. Liq. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EARQ1 | 2 | L | G | 5 | | | X | | 5-190568, 5-190567 | 95CE03S15 | 9/21/95 1025 | MEAFG8 | RJ | | | |
| EARQ1 | 2 | L | G | 5 | | X | | | 5-190565, 5-190566 | 95CE03S15 | 9/21/95 1025 | MEAFG8 | RJ | | | |
| EARQ4 | 2 | L | G | 5 | | | X | | 5-190735, 5-190736 | 95CE03S09 | 9/21/95 1410 | MEAFH1 | RJ | | | |

Shipment for Case Complete? (Y/N): Y

Page: 1 of 1

Sample(s) to be Used for Laboratory QC:

Additional Sampler Signatures:

Chain of Custody Seal Number(s): 41127 41128

## CHAIN OF CUSTODY RECORD

| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
|---|---|---|---|---|---|
| Michelle Perrit | 9/21/95 1800 | | | | |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| | | | | | |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) [signature] | Date / Time 9/22/95 1020 | Remarks: Is custody seal intact? Y/N/none | |

DISTRIBUTION: White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to

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000019

363856

EPA United States Environmental Protection Agency Contract Laboratory Program

# Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (If applicable):

Case: 24033

1. Matrix (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (Specify in Column A)

2. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. Other (Specify in Column D) N. Not preserved

2. Region No.: V

Sampling Co.: Corps. of Engineers

4. Date Shipped: 9/21/95

Carrier: Fed. Ex.

6. Date Received – Received by: 9/22/95 Carol L. Turner

Sampler (Name): Michelle Benak

Airbill Number: 6874558190

Laboratory Contract Number: 68-D5-0024

Unit Price: $595.

Sampler Signature: Michelle Benak

3. Purpose*: Lead [X] SF [ ] PRP [ ] ST [ ] FED; Early Action [ ] CLEM [ ] PA [ ] REM [ ] RI [ ] SI [ ] ESI; Long-Term Action [ ] FS [X] RD [ ] RA [ ] O&M [ ] NPLD

5. Ship To: Ross Analytical Services, INC 16433 Foltz Industrial Pky Strongville OH 44136 ATTN: Carol Turner

7. Transfer to:

Date Received:

Received by:

Contract Number:

Price:

| CLP Sample Numbers (from labels) | A Matrix (from Box 1) Other: | B Conc. Low Med High | C Sample Type: Comp./Grab | D Preservative (from Box 2) Other: | E RAS Analysis VOA | BNA | Pest/PCB | High only ARO/TOX | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K High Phases Solids | Water-Miscible Liq. | Water-Immis. Liq. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EARQ3 | 2 | L | G | 5 | | | X | | 5-190728, 5-190727 | 95CE03517 | 9/21/95 1500 | MEAFHO | NB | | | |
| EARQ3 | 2 | L | G | 5 | | X | | | 5-190726, 5-190725 | 95CE03517 | 9/21/95 1500 | MEAFHO | NE | | | |
| EARQ4 | 2 | L | G | 5 | | X | | | 5-190733, 5-190734 | 95CE03509 | 9/21/95 1410 | MEAFHI | NE | | | |

Shipment for Case Complete? (Y/N): Y

Page 1 of 1

Sample(s) to be Used for Laboratory QC:

Additional Sampler Signatures:

Chain of Custody Seal Number(s): 41119, 41120

## CHAIN OF CUSTODY RECORD

| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
|---|---|---|---|---|---|
| Michelle Benak | 9/21/95 1800 hrs | | | | |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| | | | | | |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) [signature] | Date / Time 9/22/95 1000 | Remarks Is custody seal intact? Y/N/none | |

TION: Blue - Region Copy White - Lab Copy for Return to Region Pink - Copy Yellow - Lab Copy for Return to

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-4

000020

363857

EPA United States Environmental Protection Agency
Contract Laboratory Program

# Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (If applicable):
Case: 24033

1. Matrix (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (Specify in Column A)

2. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. Other (Specify in Column D) N. Not preserved

2. Region No.: V
Sampling Co.: Corps of Eng.
Sampler (Name): J Rhiner, S. Pearson
Sampler Signature: Rhiner, S. Pearson

3. Purpose*: Lead: [X] SF [ ] PRP [ ] ST [ ] FED
Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [ ] SI [ ] ESI
Long-Term Action: [ ] FS [X] RD [ ] RA [ ] O&M [ ] NPLD

4. Date Shipped: 9/22/95
Carrier: FED EX
Airbill Number: 6874358175

5. Ship To: Ross Analytical Services, 16433 Foltz Industrial Pky, Strongville, OH 44136
ATTN: Carol Turner

6. Date Received -- Received by: 9/23/95 Carol L. Turner
Laboratory Contract Number: 68-D5-0024
Unit Price: $595.

7. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

| CLP Sample Numbers (from labels) | A Matrix (from Box 1) Other: | B Conc.: Low Med High | C Sample Type: Comp./Grab | D Preservative (from Box 2) Other: | E RAS Analysis: VOA | BNA | Pest/PCB | High only ARO/TOX | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K High Phases: Solids | Water-Miscible Liq. | Water-Immis. Liq. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EARQ5 | 2 | L | G | 1 | X | | | | 5-190564, 5-190588 | 95CE03R09 | 9/22/95 0820 | | R | | | |
| EARQ6 | 2 | L | G | 5 | | X | | | 5-190666, 5-190665 | 95CE03S37 | 9/22/95 1203 | MEAFH2 | R | | | |
| EARQ6 | 2 | L | G | 5 | | | X | | 5-190668, 5-190667 | 95CE03S37 | 9/22/95 1203 | MEAFH2 | R | | | |
| EARQ7 | 2 | L | G | 1 | X | | | | 5-190693, 5-190692 | 95CE03S33 | 9/22/95 1150 | MEAFH3 | R | | | |
| EARQ6 | 2 | L | G | 1 | X | | | | 5-190663, 5-190664 | 95CE03S37 | 9/22/95 1203 | MEAFH2 | R | | | |

Shipment for Case Complete? (Y/N): N
Page: 1 of 1
Sample(s) to be Used for Laboratory QC:
Additional Sampler Signatures:
Chain of Custody Seal Number(s): 41133 41134

## CHAIN OF CUSTODY RECORD

| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
|---|---|---|---|---|---|
| Steven H Pearson | 9/22/95 1730 | | | | |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| | | | | | |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) | Date / Time | Remarks: Is custody seal intact? Y/N/none | |
| | | [signature] | 9/23/95 1000 | | |

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to

EPA Form 9110-2

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*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-0124 REV. 3/93

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Organic Traffic Report/Chain of Custody Form Instructions

Organic Traffic Report/Chain of Custody Form Instruct

EPA United States Environmental Protection Agency
Contract Laboratory Program

# Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (If applicable):
Case: 24033

1. Matrix (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (Specify in Column A)

2. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. Other (Specify in Column D) N. Not preserved

2. Region No.: V
Sampling Co.: Corps of Eng
Sampler (Name): J Rhiner, S. Pearson
Sampler Signature: [signature]

3. Purpose*: Load: [X] SF [ ] PRP [ ] ST [ ] FED
Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [ ] SI [ ] ESI
Long-Term Action: [ ] FS [X] RD [ ] RA [ ] O&M [ ] NPLD

4. Date Shipped: 9/22/95
Carrier: Fed EX
Airbill Number: 6874358175

5. Ship To: Ross Analytical Services, 16433 Foltz Industrial Pky, Strongville, OH 44136
ATTN: Carol Turner

6. Date Received -- Received by: 9/23/95 Carol L. Turner
Laboratory Contract Number: 68-D5-0024
Unit Price: $595.

7. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

| CLP Sample Numbers (from labels) | A Matrix (from Box 1) Other: | B Conc.: Low Med High | C Sample Type: Comp./Grab | D Preservative (from Box 2) Other: | E RAS Analysis: VOA | BNA | Pest/PCB | High only ARO/TOX | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K High Phases: Solids | Water-Miscible Liq. | Water-Immis. Liq. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EARQ7 | 2 | L | G | 5 | | X | | | 5-190694, | 75CE03S33 | 9/22/95 1150 | MEAFH3 | R | | | |
| EARQ7 | 2 | L | G | 5 | | X | | | 5-190695 | 75CE03S33 | 9/22/95 1150 | MEAFH3 | R | | | |
| EARQ7 | 2 | L | G | 5 | | | X | | 5-190697, 5-190698 | 75CE03S33 | 9/22/95 1150 | MEAFH3 | R | | | |

Shipment for Case Complete? (Y/N):
Page 1 of 1
Sample(s) to be Used for Laboratory QC:
Additional Sampler Signatures:
Chain of Custody Seal Number(s): [illegible]

## CHAIN OF CUSTODY RECORD

| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
|---|---|---|---|---|---|
| [signature] | 9/22/95 1730 | | | | |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| | | | | | |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) [signature] | Date / Time 9/23/95 1000 | Remarks: Is custody seal intact? Y/N/none | |

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to S

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

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Contract Laboratory Program

# Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (If applicable):
Case No.: 24033

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

2. Region No.: V
Sampling Co.: USACE
4. Date Shipped: 9/25/95
Carrier: FED EX
6. Date Received -- Received by: 9/26/95 ~ Kendra Scholle

Sampler (Name): JRHINER M. Benal
Airbill Number: 6874358153
Laboratory Contract Number: 08-D5-0024
Unit Price: $595

Sampler Signature: [signature]
5. Ship To: Ross Analytical Services, INC
16433 Foltz Industrial PKY
Strongville, OH 44136
ATTN: Carol Turner
7. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

3. Purpose*
Lead: [X] SF [ ] PRP [ ] ST [ ] FED
Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [ ] SI [ ] ESI
Long-Term Action: [ ] FS [X] RD [ ] RA [ ] O&M [ ] NPLD

| CLP Sample Numbers (from labels) | A Matrix (from Box 1) Other: | B Conc.: Low Med High | C Sample Type: Comp./Grab | D Preservative (from Box 2) Other: | E RAS Analysis VOA | BNA | Pest/PCB | High only ARO/TOX | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K High Phases Solids | Water-Miscible Liq. | Water-Immiscible Liq. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EARR2 | 2 | L | G | 5 | | X | | | 5-190780, 5-190781 | 95CE03S23 | 9/25/95 1201 | MEAFH8 | RM | | | |
| EARR2 | 2 | L | G | 5 | | | X | | 5-190782, 5-190783 | 95CE03S23 | 9/25/95 1201 | MEAFH8 | RM | | | |
| EARR5 | 2 | L | G | 5 | | X | | | 5-190822, 5-190821 | 95CE03D03 | 9/25/95 1200 | MEAFJ1 | RM | | | |
| EARQ9 | 2 | L | G | 5 | | | X | | 5-190757 | 95CE03S13 | 9/25/95 1501 | MEAFH5 | RM | | | |

last sample in SDG EARPO

Shipment for Case Complete? (Y/N): Y
Page: 1 of 1
Sample(s) to be Used for Laboratory QC:
Additional Sampler Signatures: [signature]
Chain of Custody Seal Number(s): 41145 41146

## CHAIN OF CUSTODY RECORD

| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
|---|---|---|---|---|---|
| [signature] | 9/26/95 11:30 | | | | |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| | | | | | |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) Kendra Scholle | Date / Time 9/26/95 1000 | Remarks Is custody seal intact? Y/N/none | |

ORIGINAL DOCUMENTS ARE INCLUDED IN CSE
Case 24033 SDG EARPO
9/26/95
Date
Signature

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to SMO
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Contract Laboratory Program

# Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (if applicable):
Case No.: 24033

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

2. Region No.: V
Sampling Co.: USACE
4. Date Shipped: 9/25/95
Carrier: FED EX
6. Date Received -- Received by: 9/26/95 - Kendra Scholle

Sampler (Name): J. RHINER M. Penak
Airbill Number: 6874358153
Laboratory Contract Number: 68-D5-0024
Unit Price: $595.00

Sampler Signature: Rhiner Michelle
5. Ship To: Ross Analytical Services, INC
16433 Foltz Industrial PKY
Strongville, OH 44136
ATTN: Carol Turner
7. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

3. Purpose*: Lead: SF, PRP, ST, FED; Early Action: CLEM, PA, REM, RI, SI, ESI; Long-Term Action: FS, RD, RA, O&M, NPLD

| CLP Sample Numbers (from labels) | A Matrix (from Box 1) Other: | B Conc.: Low Med High | C Sample Type: Comp./Grab | D Preservative (from Box 2) Other: | E RAS Analysis VOA | BNA | Pest/PCB | High only ARO/TOX | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K High Phase Solids | Water/Organic Liq. | Water/Organic Liq. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EARR4 | 2 | L | G | 5 | | X | | | 5-190814, 5-190656 | 95CE03S27 | 9/25/95 1446 | MEAFJ0 | R.I. | | | |
| EARR4 | 2 | L | G | 5 | | | X | | 5-190815, 5-190816 | 95CE03S27 | 9/25/95 1446 | MEAFJ0 | R.I. | | | |
| EARQ9 | 2 | L | G | 5 | | X | | | 5-190755, 5-190756 | 95CE03S13 | 9/25/95 1501 | MEAFH5 | R.I. | | | |
| EARQ9 | 2 | L | G | 5 | | | X | | 5-190758 | 95CE03S13 | 9/25/95 1501 | MEAFH5 | R.I. | | | |

Shipment for Case Complete? (Y/N): Y
Page: 1 of 1
Sample(s) to be Used for Laboratory QC:
Additional Sampler Signatures: [signature] C. Schwefel [signature]
Chain of Custody Seal Number(s): 41149 41150

## CHAIN OF CUSTODY RECORD

| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
|---|---|---|---|---|---|
| | | | | | |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| | | | | | |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) Kendra Scholle | Date / Time 9/26/95 1000 | Remarks: Is custody seal intact? Y/N/none | |

ORIGINAL DOCUMENTS ARE INCLUDED IN CSF SDG Case 24033 Date 9/26/95
Signature

TION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - Copy; Yellow - Lab Copy for Return to
EPA Form 9110-2
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*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

000024

# ATTACHMENT 3, APPENDIX A
# CASE NARRATIVE AND ANALYTICAL RESULTS
# FOR SAMPLE DELIVERY GROUP MEAFG1

METALS

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**
**REGION V**

**DATE:** 10-17-95

**SUBJECT:** **Review of Region V CLP Data Received for Review on** Oct 10, 1995

**FROM:** **Stephen L. Ostrodka, Chief (HSRL-5J)** L. Finkelberg for S. Ostrodka
**Superfund Technical Support Section**

**TO:** **Data User:** Superfund

**We have reviewed the data for the following case:**

**SITE NAME:** Himco Dump (IN)

**CASE NUMBER:** 24033 **SDG NUMBER:** MEAFG1

**Number and Type of Samples:** 20 (water)

**Sample Numbers:** MEAFG1-9, MEAFH0-5, 8-9, MEAFJ0-1 MEAFJ3

**Laboratory:** AATSLA **Hrs. for Review:** 10 + 1.6 T.M.

**Following are our findings:**

The preparation blank and CCBs contain contamination. The serial dilution audit on Na is out of control. All data are usable with the qualifications described in the attached narrative

L. Finkelberg
10-17-95

**cc: Regional TPO**

**NARRATIVE**

SITE: HIMCO DUMP (IN) CASE: 24033
LABORATORY: AATSLA SDG: MEAEG1

The laboratory's portion of case 24033 contains 20 low level water samples {MEAEG1-MEAEG9, MEAFH0-5, MEAFH8-9, MEAFJ0-1 and MEAFJ3}, assayed for total metals and cyanide. The following narrative highlights any anomalies present concerning the contractual and technical aspects of the case and lists the out of control audits and their possible effects on the results.

**EVIDENTIAL AUDIT:** All forms are originals. All of the raw data sheets are originals. Logbook pages are photocopied. The original logbook pages can be found in bound logbooks at AATSLA. The sample tags are originals and can be found with this case. The original Federal Express airbills and the original chain of custody forms are present. Two samples were taken for all samples, one for the metals analyses and one for the analysis of CN. The CN sample taken for sample MEAFG9 lists the sample tag number as 5-190586 on the chain of custody. The actual sample tag number for this sample is 5-190587.

Chain of custody form numbers 359330 and 359332 have the same airbill number {6874358234} associated with them. The phone log indicates that one of the two coolers associated with this shipment was sent to the wrong location and had to be rerouted at a later date. Airbill number 6874358234 is associated with chain of custody form 359332. Airbill number 5935322072 is not present on any of the chain of custody forms, but is believed to be associated with the rerouted cooler {chain of custody form 359330}. Both chain of custody forms are signed and dated indicating receipt by Susan Stewart however, only chain of custody form 359330 has a signature and date indicating that it was relinquished by Michelle Benak.

All forms are present and in the order indicated on the Form DC-2 [inventory sheet].

Reviewed by: M.A. Knopp Matthew A. Knopp, Lockheed/ESAT
Date: 10-12-95

**ICP ANALYSES:**

The duplicate RPDs for Al (60.8%), Ca (200.0%), Fe (47.3%), Mg (200.0%), Mn (54.4%), Ni (200.0%), K (34.4%), Na (44.1%) and Zn (33.3 %) were not flagged by the laboratory because the duplicate differences did not exceed the technical criterion (±CRDL) for water samples. Data are not qualified on this basis, but are qualified in the second and third paragraph below.

The serial dilution audit on Na (16.5 %) is out of control. The CCB contains Na (226.8 µg/L). Na data on MEAFJ3 is estimated (J) due to interference and contamination. All remaining Na data are estimated (J) due to interference.

The preparation blank contains Al (104.031 µg/L). The CCBs contain Ba (4.4 µg/L), Be (0.7 µg/L), Ca (77.9 µg/L), Cr (8.9 µg/L), Cu (7.4 µg/L), Fe (12.8 µg/L), Rb (2.2 µg/L), Mg (41.1 µg/L), Mn (2.0 µg/L), Ni (10.5 µg/L), K (212.1 µg/L), Ag (8.4µg/L), Tl (6.3 µg/L), V (8.1 µg/L) and Zn (1.4 µg/L).
Al data on all samples, Ba data on MEAFJ3, Be data on MEAFG2, MEAFG6, MEAFH8 and MEAFJ0-1, Ca data on MEAFH4 and MEAFJ3, Cr data on MEAFG2, MEAFG6, MEAFG8, MEAFH8 and MEAFJ0-1, Cu data on MEAFG2, MEAFG6, MEAFH8, MEAFJ0-1 and MEAFJ3, Fe data on MEAFG1, MEAFG3, MEAFG6, MEAFH2, MEAFH4 and MEAFJ3, Mg data on MEAFH4 and MEAFJ3, Mn data on MEAFG1, MEAFG3, MEAFH4 and MEAFJ3, Ni data on MEAFG3, MEAFG6-7, MEAFG9, MEAFH1, MEAFH3-4, MEAFH8-9 and MEAFJ0-1, K data on MEAFH4 and MEAFJ3, Ag data on MEAFG2, MEAFG6, MEAFH8 and MEAFJ0-1, Tl data on MEAFG2, MEAFG5, MEAFG7, MEAFH1, MEAFH5, MEAFH8 and MEAFJ3, V data on MEAFG1, MEAFG3, MEAFG5-7, MEAFG9, MEAFH1-3, MEAFH8-9 and MEAFJ0-1 and Zn data on MEAFG1-2, MEAFG4-7, MEAFG9, MEAFH2, MEAFH4, MEAFH8-9, MEAFJ0-1 and MEAFJ3 are estimated (J) due to contamination.

**OTHER ANALYSES:**

No IDL was given for CN on the Instrument Detection Limits form 10. CN data are not qualified on this basis.

All CN and Hg data are acceptable.

No field quality control was associated with this case.

Reviewed by: M.A.K Matthew A. Knopp, Lockheed/ESAT
Date: 10-12-95

## DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature utinized in this document, the following code letters and associated definitions are provide:

U Indicates the material was analyzed, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

J Indicates the associated value is an estimated quantity.

R Indicates the data are unusable. (Note: The analyte may or may not be present.)

UJ Indicates the material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.

E Indicates the reported value is estimated because of the presence of interferences. An explanatory note shall be included under Comments on the Cover Page (if the problem applies to all samples) or on the specific FORM I-IN (if it is an isolated problem).

M Indicates duplicate injection precision is not met.

N Indictaes the spike sample recovery is not within control limits.

S Indicates the reported value was determined by the Method of Standard Addition (MSA).

W Indicates the post-digestion spike for furnace AA analysis is out of control limits (85%-115%), while sample absorbance is less than 50% of the spike absorbance.

+ Indicates the correlation coefficient for the MSA is less than 0.995.

* Indicates the duplicate analysis is not within control limits.

Note: Entering "S", "W" or "+" is mutually exclusive. No combination of these qualifiers can appear in the same field for an analyte.

U.S. EPA - CLP

000003

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Name: AMERICAN_ANALYTICAL_____ Contract: 68-D3-0051

Lab Code: AATSLA Case No.: 24033 SAS No.: _____ SDG No.:MEAFG1

SOW No.: ILM03.0

| EPA Sample No. | Lab Sample ID |
|---|---|
| MEAFG1 | 12994.01 |
| MEAFG2 | 12994.02 |
| MEAFG3 | 13011.01 |
| MEAFG4 | 13011.02 |
| MEAFG5 | 13030.01 |
| MEAFG6 | 13030.02 |
| MEAFG7 | 13062.04 |
| MEAFG8 | 13062.03 |
| MEAFG9 | 13062.05 |
| MEAFH0 | 13055.01 |
| MEAFH1 | 13055.02 |
| MEAFH2 | 13062.02 |
| MEAFH3 | 13062.01 |
| MEAFH4 | 13109.01 |
| MEAFH4D | 13109.03 |
| MEAFH4S | 13109.02 |
| MEAFH5 | 13087.03 |
| MEAFH8 | 13087.01 |
| MEAFH9 | 13087.02 |
| MEAFJ0 | 13087.04 |

rinsate

RECEIVED
OCT 10 1995
US EPA CENTRAL REGIONAL LAB.
536 S. CLARK ST.
CHICAGO, ILLINOIS 60605

Were ICP interelement corrections applied ? Yes/No YES

Were ICP background corrections applied ? Yes/No YES
If yes - were raw data generated before application of background corrections ? Yes/No NO_

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Terry M Thomas Name: Terry M Thomas

Date: Oct 6, 1995 Title: Inorganic Program Manager

U.S. EPA - CLP

# COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Name: AMERICAN_ANALYTICAL_____ Contract: 68-D3-0051

Lab Code: AATSLA Case No.: 24033 SAS No.: _____ SDG No.:MEAFG1

SOW No.: ILM03.0

| EPA Sample No. | Lab Sample ID |
|---|---|
| _MEAFJ1_____ | _13087.05_____ |
| _MEAFJ3_____ | _13109.04_____ |

RECEIVED
OCT 10 1995
US EPA CENTRAL REGIONAL LAB.
536 S. CLARK ST.
CHICAGO, ILLINOIS 60605

Were ICP interelement corrections applied ? Yes/No YES

Were ICP background corrections applied ? Yes/No YES
If yes - were raw data generated before application of background corrections ? Yes/No NO_

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: Terry M Thomas_____

Date: _____ Title: Inorganic Program Manager

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEAFG1

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D3-0051

Lab Code: AATSLA Case No.: 24033_ SAS No.: _____ SDG No.: MEAFG1

Matrix (soil/water): WATER Lab Sample ID: 12994.01

Level (low/med): LOW__ Date Received: 09/19/95

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 161 | B | J | P | 1618 |
| 7440-36-0 | Antimony | 12.8 | U | | P | 12.8 U |
| 7440-38-2 | Arsenic | 3.8 | U | | P | 3.8 U |
| 7440-39-3 | Barium | 14.3 | B | | P | |
| 7440-41-7 | Beryllium | 0.40 | U | | P | |
| 7440-43-9 | Cadmium | 1.1 | U | | P | |
| 7440-70-2 | Calcium | 45700 | | | P | |
| 7440-47-3 | Chromium | 4.0 | U | | P | |
| 7440-48-4 | Cobalt | 6.9 | B | | P | |
| 7440-50-8 | Copper | 1.7 | U | | P | |
| 7439-89-6 | Iron | 4.7 | B | J | P | |
| 7439-92-1 | Lead | 1.7 | U | | P | |
| 7439-95-4 | Magnesium | 11400 | | | P | |
| 7439-96-5 | Manganese | 2.3 | B | J | P | |
| 7439-97-6 | Mercury | 0.20 | U | | CV | |
| 7440-02-0 | Nickel | 9.5 | U | | P | |
| 7440-09-7 | Potassium | 1200 | B | | P | |
| 7782-49-2 | Selenium | 3.6 | U | | P | |
| 7440-22-4 | Silver | 2.5 | U | | P | |
| 7440-23-5 | Sodium | 6340 | | E | P | |
| 7440-28-0 | Thallium | 4.7 | U | | P | |
| 7440-62-2 | Vanadium | 11.1 | B | J | P | |
| 7440-66-6 | Zinc | 5.0 | B | J | P | |
| | Cyanide | 10.0 | U | | AS | |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSES DATA SHEET

MEAFG2

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D3-0051

Lab Code: AATSLA Case No.: 24033_ SAS No.: _____ SDG No.: MEAFG1

Matrix (soil/water): WATER Lab Sample ID: 12994.02

Level (low/med): LOW__ Date Received: 09/19/95

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 80.5 | B | J | P |
| 7440-36-0 | Antimony | 12.8 | U | | P |
| 7440-38-2 | Arsenic | 3.8 | U | | P |
| 7440-39-3 | Barium | 78.1 | B | | P |
| 7440-41-7 | Beryllium | 0.50 | B | J | P |
| 7440-43-9 | Cadmium | 1.1 | U | | P |
| 7440-70-2 | Calcium | 93300 | | | P |
| 7440-47-3 | Chromium | 5.6 | B | J | P |
| 7440-48-4 | Cobalt | 5.9 | U | | P |
| 7440-50-8 | Copper | 3.7 | B | J | P |
| 7439-89-6 | Iron | 703 | | | P |
| 7439-92-1 | Lead | 1.7 | U | | P |
| 7439-95-4 | Magnesium | 23000 | | | P |
| 7439-96-5 | Manganese | 148 | | | P |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | 9.5 | U | | P |
| 7440-09-7 | Potassium | 1900 | B | | P |
| 7782-49-2 | Selenium | 3.6 | U | | P |
| 7440-22-4 | Silver | 4.9 | B | J | P |
| 7440-23-5 | Sodium | 13300 | | E | P |
| 7440-28-0 | Thallium | 5.0 | B | J | P |
| 7440-62-2 | Vanadium | 4.5 | U | | P |
| 7440-66-6 | Zinc | 3.5 | B | J | P |
| | Cyanide | 10.0 | U | | AS |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEAFG3

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D3-0051

Lab Code: AATSLA Case No.: 24033_ SAS No.: _____ SDG No.: MEAFG1

Matrix (soil/water): WATER Lab Sample ID: 13011.01

Level (low/med): LOW__ Date Received: 09/20/95

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | 169 | B | J | P |
| 7440-36-0 | Antimony_ | 12.8 | U | | P |
| 7440-38-2 | Arsenic__ | 3.8 | U | | P |
| 7440-39-3 | Barium___ | 35.1 | B | | P |
| 7440-41-7 | Beryllium | 0.40 | U | | P |
| 7440-43-9 | Cadmium__ | 1.1 | U | | P |
| 7440-70-2 | Calcium__ | 179000 | | | P |
| 7440-47-3 | Chromium_ | 4.0 | U | | P |
| 7440-48-4 | Cobalt___ | 5.9 | U | | P |
| 7440-50-8 | Copper___ | 1.7 | U | | P |
| 7439-89-6 | Iron____ | 15.0 | B | J | P |
| 7439-92-1 | Lead____ | 1.7 | U | | P |
| 7439-95-4 | Magnesium | 15200 | | | P |
| 7439-96-5 | Manganese | 4.0 | B | J | P |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 10 | B | J | P |
| 7440-09-7 | Potassium | 2000 | B | | P |
| 7782-49-2 | Selenium_ | 3.6 | U | | P |
| 7440-22-4 | Silver___ | 2.5 | U | | P |
| 7440-23-5 | Sodium___ | 12300 | | E | P |
| 7440-28-0 | Thallium_ | 4.7 | U | | P |
| 7440-62-2 | Vanadium_ | 9.6 | B | J | P |
| 7440-66-6 | Zinc____ | 7.7 | B | | P |
| _____ | Cyanide__ | 10.0 | U | | AS |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSES DATA SHEET

MEAFG4

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D3-0051

Lab Code: AATSLA Case No.: 24033_ SAS No.: _____ SDG No.: MEAFG1

Matrix (soil/water): WATER Lab Sample ID: 13011.02

Level (low/med): LOW__ Date Received: 09/20/95

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | 65.2 | B | J | P_ |
| 7440-36-0 | Antimony_ | 12.8 | U | | P_ |
| 7440-38-2 | Arsenic__ | 3.8 | U | | P_ |
| 7440-39-3 | Barium___ | 92.5 | B | | P_ |
| 7440-41-7 | Beryllium | 0.40 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.1 | U | | P_ |
| 7440-70-2 | Calcium__ | 65800 | | | P_ |
| 7440-47-3 | Chromium_ | 4.0 | U | | P_ |
| 7440-48-4 | Cobalt___ | 5.9 | U | | P_ |
| 7440-50-8 | Copper___ | 1.7 | U | | P_ |
| 7439-89-6 | Iron____ | 774 | | | P_ |
| 7439-92-1 | Lead____ | 1.7 | U | | P_ |
| 7439-95-4 | Magnesium | 21100 | | | P_ |
| 7439-96-5 | Manganese | 119 | | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 9.5 | U | | P_ |
| 7440-09-7 | Potassium | 1330 | B | | P_ |
| 7782-49-2 | Selenium_ | 3.6 | U | | P_ |
| 7440-22-4 | Silver___ | 2.5 | U | | P_ |
| 7440-23-5 | Sodium___ | 21200 | | E | P_ |
| 7440-28-0 | Thallium_ | 4.7 | U | | P_ |
| 7440-62-2 | Vanadium_ | 4.5 | U | | P_ |
| 7440-66-6 | Zinc____ | 2.1 | B | J | P_ |
| _____ | Cyanide__ | 10.0 | U | | AS |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
MEAFG5

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D3-0051

Lab Code: AATSLA Case No.: 24033_ SAS No.: _____ SDG No.: MEAFG1

Matrix (soil/water): WATER Lab Sample ID: 13030.01

Level (low/med): LOW__ Date Received: 09/21/95

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 161 | B | J | P |
| 7440-36-0 | Antimony | 29.7 | B | | P |
| 7440-38-2 | Arsenic | 4.8 | B | | P |
| 7440-39-3 | Barium | 91.0 | B | | P |
| 7440-41-7 | Beryllium | 0.40 | U | | P |
| 7440-43-9 | Cadmium | 1.1 | U | | P |
| 7440-70-2 | Calcium | 61200 | | | P |
| 7440-47-3 | Chromium | 4.0 | U | | P |
| 7440-48-4 | Cobalt | 12.4 | B | | P |
| 7440-50-8 | Copper | 1.7 | U | | P |
| 7439-89-6 | Iron | 490 | | | P |
| 7439-92-1 | Lead | 1.7 | U | | P |
| 7439-95-4 | Magnesium | 20400 | | | P |
| 7439-96-5 | Manganese | 87.3 | | | P |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | 9.5 | U | | P |
| 7440-09-7 | Potassium | 1870 | B | | P |
| 7782-49-2 | Selenium | 3.6 | U | | P |
| 7440-22-4 | Silver | 2.5 | U | | P |
| 7440-23-5 | Sodium | 27800 | | E | P |
| 7440-28-0 | Thallium | 5.7 | B | J | P |
| 7440-62-2 | Vanadium | 13.2 | B | J | P |
| 7440-66-6 | Zinc | 3.5 | B | J | P |
| | Cyanide | 10.0 | U | | AS |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
MEAFG6

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D3-0051

Lab Code: AATSLA Case No.: 24033_ SAS No.: _____ SDG No.: MEAFG1

Matrix (soil/water): WATER Lab Sample ID: 13030.02

Level (low/med): LOW__ Date Received: 09/21/95

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 268 | | J | P |
| 7440-36-0 | Antimony | 21.7 | B | | P |
| 7440-38-2 | Arsenic | 3.8 | U | | P |
| 7440-39-3 | Barium | 53.3 | B | | P |
| 7440-41-7 | Beryllium | 1.3 | B | J | P |
| 7440-43-9 | Cadmium | 1.1 | U | | P |
| 7440-70-2 | Calcium | 157000 | | | P |
| 7440-47-3 | Chromium | 23.9 | | J | P |
| 7440-48-4 | Cobalt | 13.1 | B | | P |
| 7440-50-8 | Copper | 17.9 | B | J | P |
| 7439-89-6 | Iron | 39.0 | B | J | P |
| 7439-92-1 | Lead | 1.7 | U | | P |
| 7439-95-4 | Magnesium | 15900 | | | P |
| 7439-96-5 | Manganese | 30.2 | | | P |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | 40.6 | | J | P |
| 7440-09-7 | Potassium | 2070 | B | | P |
| 7782-49-2 | Selenium | 3.6 | U | | P |
| 7440-22-4 | Silver | 19.5 | | J | P |
| 7440-23-5 | Sodium | 52300 | | E | P |
| 7440-28-0 | Thallium | 4.7 | U | | P |
| 7440-62-2 | Vanadium | 26.5 | B | J | P |
| 7440-66-6 | Zinc | 4.1 | B | J | P |
| | Cyanide | 10.0 | U | | AS |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEAFG7

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D3-0051

Lab Code: AATSLA Case No.: 24033_ SAS No.: _____ SDG No.: MEAFG1

Matrix (soil/water): WATER Lab Sample ID: 13062.04

Level (low/med): LOW__ Date Received: 09/23/95

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 259 | | J | P |
| 7440-36-0 | Antimony | 20.4 | B | | P |
| 7440-38-2 | Arsenic | 3.8 | U | | P |
| 7440-39-3 | Barium | 148 | B | | P |
| 7440-41-7 | Beryllium | 0.40 | U | | P |
| 7440-43-9 | Cadmium | 1.1 | U | | P |
| 7440-70-2 | Calcium | 546000 | | | P |
| 7440-47-3 | Chromium | 4.0 | U | | P |
| 7440-48-4 | Cobalt | 5.9 | U | | P |
| 7440-50-8 | Copper | 1.7 | U | | P |
| 7439-89-6 | Iron | 6130 | | | P |
| 7439-92-1 | Lead | 1.7 | U | | P |
| 7439-95-4 | Magnesium | 55400 | | | P |
| 7439-96-5 | Manganese | 696 | | | P |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | 9.7 | B | J | P |
| 7440-09-7 | Potassium | 38000 | | | P |
| 7782-49-2 | Selenium | 3.6 | U | | P |
| 7440-22-4 | Silver | 2.5 | U | | P |
| 7440-23-5 | Sodium | 201000 | | E | P |
| 7440-28-0 | Thallium | 5.5 | B | J | P |
| 7440-62-2 | Vanadium | 11.5 | B | J | P |
| 7440-66-6 | Zinc | 4.3 | B | J | P |
| | Cyanide | 10.0 | U | | AS |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSES DATA SHEET

MEAFG8

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D3-0051

Lab Code: AATSLA Case No.: 24033_ SAS No.: _____ SDG No.: MEAFG1

Matrix (soil/water): WATER Lab Sample ID: 13062.03

Level (low/med): LOW__ Date Received: 09/23/95

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 393 | | J | P |
| 7440-36-0 | Antimony | 12.8 | U | | P |
| 7440-38-2 | Arsenic | 3.8 | U | | P |
| 7440-39-3 | Barium | 136 | B | | P |
| 7440-41-7 | Beryllium | 0.40 | U | J | P |
| 7440-43-9 | Cadmium | 1.1 | U | | P |
| 7440-70-2 | Calcium | 518000 | | | P |
| 7440-47-3 | Chromium | 7.1 | B | J | P |
| 7440-48-4 | Cobalt | 5.9 | U | | P |
| 7440-50-8 | Copper | 1.7 | U | | P |
| 7439-89-6 | Iron | 5710 | | | P |
| 7439-92-1 | Lead | 1.7 | U | | P |
| 7439-95-4 | Magnesium | 53500 | | | P |
| 7439-96-5 | Manganese | 670 | | | P |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | 9.5 | U | | P |
| 7440-09-7 | Potassium | 36000 | | | P |
| 7782-49-2 | Selenium | 3.6 | U | | P |
| 7440-22-4 | Silver | 2.5 | U | | P |
| 7440-23-5 | Sodium | 195000 | | E | P |
| 7440-28-0 | Thallium | 4.7 | U | | P |
| 7440-62-2 | Vanadium | 4.5 | U | | P |
| 7440-66-6 | Zinc | 45.4 | | | P |
| | Cyanide | 10.0 | U | | AS |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

WT114B

U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEAFG9

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D3-0051

Lab Code: AATSLA Case No.: 24033_ SAS No.: _____ SDG No.: MEAFG1

Matrix (soil/water): WATER Lab Sample ID: 13062.05

Level (low/med): LOW__ Date Received: 09/23/95

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 230 | | J | P |
| 7440-36-0 | Antimony | 12.8 | U | | P |
| 7440-38-2 | Arsenic | 18.5 | | | P |
| 7440-39-3 | Barium | 194 | B | | P |
| 7440-41-7 | Beryllium | 0.40 | U | | P |
| 7440-43-9 | Cadmium | 1.1 | U | | P |
| 7440-70-2 | Calcium | 219000 | | | P |
| 7440-47-3 | Chromium | 4.0 | U | | P |
| 7440-48-4 | Cobalt | 11.1 | B | | P |
| 7440-50-8 | Copper | 1.7 | U | | P |
| 7439-89-6 | Iron | 13300 | | | P |
| 7439-92-1 | Lead | 1.7 | U | | P |
| 7439-95-4 | Magnesium | 30500 | | | P |
| 7439-96-5 | Manganese | 182 | | | P |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | 19.7 | B | J | P |
| 7440-09-7 | Potassium | 5110 | | | P |
| 7782-49-2 | Selenium | 3.6 | U | | P |
| 7440-22-4 | Silver | 2.5 | U | | P |
| 7440-23-5 | Sodium | 30100 | | E | P |
| 7440-28-0 | Thallium | 4.7 | U | | P |
| 7440-62-2 | Vanadium | 23.2 | B | J | P |
| 7440-66-6 | Zinc | 4.5 | B | J | P |
| | Cyanide | 11.4 | | | AS |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

000014
EPA SAMPLE NO.

MEAFH0

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D3-0051

Lab Code: AATSLA Case No.: 24033_ SAS No.: _____ SDG No.: MEAFG1

Matrix (soil/water): WATER Lab Sample ID: 13055.01

Level (low/med): LOW__ Date Received: 09/22/95

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 40.4 | B | J | P |
| 7440-36-0 | Antimony | 12.8 | U | | P |
| 7440-38-2 | Arsenic | 3.8 | U | | P |
| 7440-39-3 | Barium | 174 | B | | P |
| 7440-41-7 | Beryllium | 0.40 | U | | P |
| 7440-43-9 | Cadmium | 1.1 | U | | P |
| 7440-70-2 | Calcium | 184000 | | | P |
| 7440-47-3 | Chromium | 4.0 | U | | P |
| 7440-48-4 | Cobalt | 5.9 | U | | P |
| 7440-50-8 | Copper | 1.7 | U | | P |
| 7439-89-6 | Iron | 2740 | | | P |
| 7439-92-1 | Lead | 1.7 | U | | P |
| 7439-95-4 | Magnesium | 35200 | | | P |
| 7439-96-5 | Manganese | 203 | | | P |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | 9.5 | U | | P |
| 7440-09-7 | Potassium | 7080 | | | P |
| 7782-49-2 | Selenium | 3.6 | U | | P |
| 7440-22-4 | Silver | 2.5 | U | | P |
| 7440-23-5 | Sodium | 43200 | | E | P |
| 7440-28-0 | Thallium | 4.7 | U | | P |
| 7440-62-2 | Vanadium | 4.5 | U | | P |
| 7440-66-6 | Zinc | 0.90 | U | | P |
| | Cyanide | 10.0 | U | | AS |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

WT114A

U.S. EPA - CLP

000015
EPA SAMPLE NO.

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INORGANIC ANALYSES DATA SHEET

MEAFH1

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D3-0051

Lab Code: AATSLA Case No.: 24033_ SAS No.: _____ SDG No.: MEAFG1

Matrix (soil/water): WATER Lab Sample ID: 13055.02

Level (low/med): LOW__ Date Received: 09/22/95

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 145 | B | J | P |
| 7440-36-0 | Antimony | 12.8 | U | | P |
| 7440-38-2 | Arsenic | 23.3 | | | P |
| 7440-39-3 | Barium | 237 | | | P |
| 7440-41-7 | Beryllium | 0.40 | U | | P |
| 7440-43-9 | Cadmium | 1.7 | B | | P |
| 7440-70-2 | Calcium | 243000 | | | P |
| 7440-47-3 | Chromium | 4.0 | U | | P |
| 7440-48-4 | Cobalt | 13.8 | B | | P |
| 7440-50-8 | Copper | 1.7 | U | | P |
| 7439-89-6 | Iron | 19000 | | | P |
| 7439-92-1 | Lead | 1.7 | U | | P |
| 7439-95-4 | Magnesium | 23400 | | | P |
| 7439-96-5 | Manganese | 393 | | | P |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | 19.0 | B | J | P |
| 7440-09-7 | Potassium | 5110 | | | P |
| 7782-49-2 | Selenium | 3.6 | U | | P |
| 7440-22-4 | Silver | 2.5 | U | | P |
| 7440-23-5 | Sodium | 122000 | | E | P |
| 7440-28-0 | Thallium | 6.7 | B | J | P |
| 7440-62-2 | Vanadium | 10.4 | B | J | P |
| 7440-66-6 | Zinc | 7.6 | B | | P |
| | Cyanide | 10.0 | U | | AS |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

000016
EPA SAMPLE NO.

MEAFH2

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D3-0051

Lab Code: AATSLA Case No.: 24033_ SAS No.: _____ SDG No.: MEAFG1

Matrix (soil/water): WATER Lab Sample ID: 13062.02

Level (low/med): LOW__ Date Received: 09/23/95

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | 115 | B | J | P |
| 7440-36-0 | Antimony_ | 12.8 | U | | P |
| 7440-38-2 | Arsenic__ | 3.8 | U | | P |
| 7440-39-3 | Barium___ | 74.3 | B | | P |
| 7440-41-7 | Beryllium | 0.40 | U | | P |
| 7440-43-9 | Cadmium__ | 1.1 | U | | P |
| 7440-70-2 | Calcium__ | 104000 | | | P |
| 7440-47-3 | Chromium_ | 4.0 | U | | P |
| 7440-48-4 | Cobalt___ | 5.9 | U | | P |
| 7440-50-8 | Copper___ | 1.7 | U | | P |
| 7439-89-6 | Iron_____ | 21.6 | B | J | P |
| 7439-92-1 | Lead_____ | 1.7 | U | | P |
| 7439-95-4 | Magnesium | 26100 | | | P |
| 7439-96-5 | Manganese | 205 | | | P |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 9.5 | U | | P |
| 7440-09-7 | Potassium | 1950 | B | | P |
| 7782-49-2 | Selenium_ | 3.6 | U | | P |
| 7440-22-4 | Silver___ | 2.5 | U | | P |
| 7440-23-5 | Sodium___ | 12500 | | E | P |
| 7440-28-0 | Thallium_ | 4.7 | U | | P |
| 7440-62-2 | Vanadium_ | 6.9 | B | J | P |
| 7440-66-6 | Zinc_____ | 2.1 | B | J | P |
| _____ | Cyanide__ | 10.0 | U | | AS |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

000017
EPA SAMPLE NO.

MEAFH3

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D3-0051

Lab Code: AATSLA Case No.: 24033_ SAS No.: _____ SDG No.: MEAFG1

Matrix (soil/water): WATER Lab Sample ID: 13062.01

Level (low/med): LOW__ Date Received: 09/23/95

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 450 | | J | P |
| 7440-36-0 | Antimony | 12.8 | U | | P |
| 7440-38-2 | Arsenic | 3.8 | U | | P |
| 7440-39-3 | Barium | 103 | B | | P |
| 7440-41-7 | Beryllium | 0.40 | U | | P |
| 7440-43-9 | Cadmium | 1.1 | U | | P |
| 7440-70-2 | Calcium | 6170 | | | P |
| 7440-47-3 | Chromium | 4.0 | U | | P |
| 7440-48-4 | Cobalt | 11.9 | B | | P |
| 7440-50-8 | Copper | 1.7 | U | | P |
| 7439-89-6 | Iron | 1760 | | | P |
| 7439-92-1 | Lead | 1.7 | U | | P |
| 7439-95-4 | Magnesium | 2520 | B | | P |
| 7439-96-5 | Manganese | 201 | | | P |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | 16.0 | B | J | P |
| 7440-09-7 | Potassium | 1690 | B | | P |
| 7782-49-2 | Selenium | 3.6 | U | | P |
| 7440-22-4 | Silver | 2.5 | U | | P |
| 7440-23-5 | Sodium | 2560 | B | E | P |
| 7440-28-0 | Thallium | 4.7 | U | | P |
| 7440-62-2 | Vanadium | 11.9 | B | J | P |
| 7440-66-6 | Zinc | 17.5 | B | | P |
| | Cyanide | 10.0 | U | | AS |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

000018
EPA SAMPLE NO.

MEAFH4
Rinsate

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D3-0051

Lab Code: AATSLA Case No.: 24033_ SAS No.: _____ SDG No.: MEAFG1

Matrix (soil/water): WATER Lab Sample ID: 13109.01

Level (low/med): LOW__ Date Received: 09/27/95

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 204 | | J | P |
| 7440-36-0 | Antimony | 12.8 | U | | P |
| 7440-38-2 | Arsenic | 3.8 | U | | P |
| 7440-39-3 | Barium | 1.4 | U | | P |
| 7440-41-7 | Beryllium | 0.40 | U | | P |
| 7440-43-9 | Cadmium | 1.1 | U | | P |
| 7440-70-2 | Calcium | 118 | B | J | P |
| 7440-47-3 | Chromium | 4.0 | U | | P |
| 7440-48-4 | Cobalt | 5.9 | U | | P |
| 7440-50-8 | Copper | 1.7 | U | | P |
| 7439-89-6 | Iron | 14.6 | B | J | P |
| 7439-92-1 | Lead | 1.7 | U | | P |
| 7439-95-4 | Magnesium | 25.8 | B | J | P |
| 7439-96-5 | Manganese | 1.2 | B | J | P |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | 11.2 | B | J | P |
| 7440-09-7 | Potassium | 197 | B | J | P |
| 7782-49-2 | Selenium | 3.6 | U | | P |
| 7440-22-4 | Silver | 2.5 | U | | P |
| 7440-23-5 | Sodium | 1290 | B | E | P |
| 7440-28-0 | Thallium | 4.7 | U | | P |
| 7440-62-2 | Vanadium | 4.5 | U | | P |
| 7440-66-6 | Zinc | 3.4 | B | J | P |
| | Cyanide | 10.0 | U | | AS |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

000019
EPA SAMPLE NO.

MEAFH5

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D3-0051

Lab Code: AATSLA Case No.: 24033_ SAS No.: _____ SDG No.: MEAFG1

Matrix (soil/water): WATER Lab Sample ID: 13087.03

Level (low/med): LOW__ Date Received: 09/26/95

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | 132 | B | J | P |
| 7440-36-0 | Antimony_ | 12.8 | U | | P |
| 7440-38-2 | Arsenic__ | 3.8 | U | | P |
| 7440-39-3 | Barium___ | 50.1 | B | | P |
| 7440-41-7 | Beryllium | 0.40 | U | | P |
| 7440-43-9 | Cadmium__ | 1.1 | U | | P |
| 7440-70-2 | Calcium__ | 197000 | | | P |
| 7440-47-3 | Chromium_ | 4.0 | U | | P |
| 7440-48-4 | Cobalt___ | 5.9 | U | | P |
| 7440-50-8 | Copper___ | 1.7 | U | | P |
| 7439-89-6 | Iron____ | 1360 | | | P |
| 7439-92-1 | Lead____ | 1.7 | U | | P |
| 7439-95-4 | Magnesium | 27200 | | | P |
| 7439-96-5 | Manganese | 413 | | | P |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 9.5 | U | | P |
| 7440-09-7 | Potassium | 5580 | | | P |
| 7782-49-2 | Selenium_ | 3.6 | U | | P |
| 7440-22-4 | Silver___ | 2.5 | U | | P |
| 7440-23-5 | Sodium___ | 43600 | | E | P |
| 7440-28-0 | Thallium_ | 5.3 | B | J | P |
| 7440-62-2 | Vanadium_ | 4.5 | U | | P |
| 7440-66-6 | Zinc____ | 31.1 | | | P |
| _____ | Cyanide__ | 10.0 | U | | AS |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

000020
EPA SAMPLE NO.

MEAFH8

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D3-0051

Lab Code: AATSLA Case No.: 24033_ SAS No.: _____ SDG No.: MEAFG1

Matrix (soil/water): WATER Lab Sample ID: 13087.01

Level (low/med): LOW__ Date Received: 09/26/95

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 229 | | J | P |
| 7440-36-0 | Antimony | 12.8 | U | | P |
| 7440-38-2 | Arsenic | 3.8 | U | | P |
| 7440-39-3 | Barium | 347 | | | P |
| 7440-41-7 | Beryllium | 0.92 | B | | P |
| 7440-43-9 | Cadmium | 1.1 | U | | P |
| 7440-70-2 | Calcium | 306000 | | | P |
| 7440-47-3 | Chromium | 14.4 | | J | P |
| 7440-48-4 | Cobalt | 12.9 | B | | P |
| 7440-50-8 | Copper | 7.9 | B | J | P |
| 7439-89-6 | Iron | 8680 | | | P |
| 7439-92-1 | Lead | 1.7 | U | | P |
| 7439-95-4 | Magnesium | 29600 | | | P |
| 7439-96-5 | Manganese | 76.9 | | | P |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | 20.2 | B | J | P |
| 7440-09-7 | Potassium | 16300 | | | P |
| 7782-49-2 | Selenium | 3.6 | U | | P |
| 7440-22-4 | Silver | 10.9 | | J | P |
| 7440-23-5 | Sodium | 69900 | | E | P |
| 7440-28-0 | Thallium | 8.0 | B | J | P |
| 7440-62-2 | Vanadium | 18.8 | B | J | P |
| 7440-66-6 | Zinc | 6.3 | B | J | P |
| _____ | Cyanide | 10.0 | U | | AS |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

000021
EPA SAMPLE NO.

MEAFH9

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D3-0051

Lab Code: AATSLA Case No.: 24033_ SAS No.: _____ SDG No.: MEAFG1

Matrix (soil/water): WATER Lab Sample ID: 13087.02

Level (low/med): LOW__ Date Received: 09/26/95

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 321 | | J | P |
| 7440-36-0 | Antimony | 12.8 | U | | P |
| 7440-38-2 | Arsenic | 7.8 | B | | P |
| 7440-39-3 | Barium | 116 | B | | P |
| 7440-41-7 | Beryllium | 0.40 | U | | P |
| 7440-43-9 | Cadmium | 1.1 | B | | P |
| 7440-70-2 | Calcium | 249000 | | | P |
| 7440-47-3 | Chromium | 4.0 | U | | P |
| 7440-48-4 | Cobalt | 10.9 | B | | P |
| 7440-50-8 | Copper | 1.7 | U | | P |
| 7439-89-6 | Iron | 12700 | | | P |
| 7439-92-1 | Lead | 1.7 | U | | P |
| 7439-95-4 | Magnesium | 25200 | | | P |
| 7439-96-5 | Manganese | 1060 | | | P |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | 23.8 | B | J | P |
| 7440-09-7 | Potassium | 8060 | | | P |
| 7782-49-2 | Selenium | 3.6 | U | | P |
| 7440-22-4 | Silver | 2.5 | U | | P |
| 7440-23-5 | Sodium | 44100 | | E | P |
| 7440-28-0 | Thallium | 4.7 | U | | P |
| 7440-62-2 | Vanadium | 20.9 | B | J | P |
| 7440-66-6 | Zinc | 1.8 | B | J | P |
| | Cyanide | 10.0 | U | | AS |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

000022

EPA SAMPLE NO.

MEAFJ0

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D3-0051

Lab Code: AATSLA Case No.: 24033_ SAS No.: _____ SDG No.: MEAFG1

Matrix (soil/water): WATER Lab Sample ID: 13087.04

Level (low/med): LOW__ Date Received: 09/26/95

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 206 | | J | P |
| 7440-36-0 | Antimony | 12.8 | U | | P |
| 7440-38-2 | Arsenic | 3.8 | U | | P |
| 7440-39-3 | Barium | 184 | B | | P |
| 7440-41-7 | Beryllium | 1.1 | B | J | P |
| 7440-43-9 | Cadmium | 1.1 | U | | P |
| 7440-70-2 | Calcium | 126000 | | | P |
| 7440-47-3 | Chromium | 20.6 | | J | P |
| 7440-48-4 | Cobalt | 9.6 | B | | P |
| 7440-50-8 | Copper | 16.0 | B | J | P |
| 7439-89-6 | Iron | 3080 | | | P |
| 7439-92-1 | Lead | 1.7 | U | | P |
| 7439-95-4 | Magnesium | 47300 | | | P |
| 7439-96-5 | Manganese | 49.3 | | | P |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | 14.4 | B | J | P |
| 7440-09-7 | Potassium | 5110 | | | P |
| 7782-49-2 | Selenium | 3.6 | U | | P |
| 7440-22-4 | Silver | 18.2 | | J | P |
| 7440-23-5 | Sodium | 47400 | | E | P |
| 7440-28-0 | Thallium | 4.7 | U | | P |
| 7440-62-2 | Vanadium | 17.8 | B | J | P |
| 7440-66-6 | Zinc | 2.6 | B | J | P |
| | Cyanide | 10.0 | U | | AS |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

000023
EPA SAMPLE NO.

MEAFJ1

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D3-0051

Lab Code: AATSLA Case No.: 24033_ SAS No.: _____ SDG No.: MEAFG1

Matrix (soil/water): WATER Lab Sample ID: 13087.05

Level (low/med): LOW__ Date Received: 09/26/95

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 236 | | J | P |
| 7440-36-0 | Antimony | 45.5 | B | | P |
| 7440-38-2 | Arsenic | 3.8 | U | | P |
| 7440-39-3 | Barium | 187 | B | | P |
| 7440-41-7 | Beryllium | 0.63 | B | J | P |
| 7440-43-9 | Cadmium | 1.1 | U | | P |
| 7440-70-2 | Calcium | 127000 | | | P |
| 7440-47-3 | Chromium | 8.9 | B | J | P |
| 7440-48-4 | Cobalt | 11.4 | B | | P |
| 7440-50-8 | Copper | 4.2 | B | J | P |
| 7439-89-6 | Iron | 3090 | | | P |
| 7439-92-1 | Lead | 1.7 | U | | P |
| 7439-95-4 | Magnesium | 47500 | | | P |
| 7439-96-5 | Manganese | 51.0 | | | P |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | 23.8 | B | J | P |
| 7440-09-7 | Potassium | 5220 | | | P |
| 7782-49-2 | Selenium | 3.6 | U | | P |
| 7440-22-4 | Silver | 7.2 | B | J | P |
| 7440-23-5 | Sodium | 47100 | | E | P |
| 7440-28-0 | Thallium | 4.7 | U | | P |
| 7440-62-2 | Vanadium | 22.3 | B | J | P |
| 7440-66-6 | Zinc | 5.7 | B | J | P |
| | Cyanide | 10.0 | U | | AS |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

000024
EPA SAMPLE NO.

MEAFJ3
Rinsate

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D3-0051

Lab Code: AATSLA Case No.: 24033_ SAS No.: _____ SDG No.: MEAFG1

Matrix (soil/water): WATER Lab Sample ID: 13109.04

Level (low/med): LOW__ Date Received: 09/27/95

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 116 | B | J | P |
| 7440-36-0 | Antimony | 12.8 | U | | P |
| 7440-38-2 | Arsenic | 3.8 | U | | P |
| 7440-39-3 | Barium | 1.6 | B | J | P |
| 7440-41-7 | Beryllium | 0.40 | U | | P |
| 7440-43-9 | Cadmium | 1.1 | U | | P |
| 7440-70-2 | Calcium | 138 | B | J | P |
| 7440-47-3 | Chromium | 4.0 | U | | P |
| 7440-48-4 | Cobalt | 5.9 | U | | P |
| 7440-50-8 | Copper | 10.0 | B | J | P |
| 7439-89-6 | Iron | 18.4 | B | J | P |
| 7439-92-1 | Lead | 1.7 | U | | P |
| 7439-95-4 | Magnesium | 49.3 | B | J | P |
| 7439-96-5 | Manganese | 1.2 | B | J | P |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | 9.5 | U | | P |
| 7440-09-7 | Potassium | 147 | B | J | P |
| 7782-49-2 | Selenium | 3.6 | U | | P |
| 7440-22-4 | Silver | 2.5 | U | | P |
| 7440-23-5 | Sodium | 307 | B | E J | P |
| 7440-28-0 | Thallium | 7.5 | B | J | P |
| 7440-62-2 | Vanadium | 4.5 | U | | P |
| 7440-66-6 | Zinc | 4.3 | B | J | P |
| | Cyanide | 10.0 | U | | AS |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

# ATTACHMENT 4, APPENDIX A
# CASE NARRATIVE AND ANALYTICAL RESULTS
# FOR SAMPLE DELIVERY GROUP MEAFH6

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 10-20-95

SUBJECT: Review of Region V CLP Data
Received for Review on 16 Oct 1995

FROM: Stephen L. Ostrodka, Chief (HSRL-5J) L. Finkelberg
Superfund Technical Support Section for S. Ostrodka

TO: Data User: USACE(SF)

We have reviewed the data for the following case:

SITE NAME: Himco Dump (IN)

CASE NUMBER: 24033 SDG NUMBER: MEAFH6

Number and Type of Samples: 4 water

Sample Numbers: MEAFH6, -7; MEAFJ2, -4

Laboratory: AATSLA Hrs. for Review: 3.0 T.B

Following are our findings:

All data are usable with the qualifications described in the attached narrative.

L. Finkelberg
10-20-95

cc: Regional TPO
Brian Freeman
HSMC-5J

# NARRATIVE

SITE: HIMCO DUMP CASE: 24033
LABORATORY: AATS LA SDG: MEAFH6

The laboratory's portion of case 24033 contains 4 low level water samples assayed for total metals and total cyanide. The following narrative lists the out of control audits and their possible effects on the results.

**EVIDENTIAL AUDIT:** All forms are originals. Most of the raw data sheets are originals, those photocopied are from bound laboratory notebooks. The originals that are present are sample tags, one of two Federal Express airbills (#6874358245), chain of custody forms and Forms DC-1 and DC-2. One of the two original Federal Express airbills (#6874358223) is with case 24033, SDG: MEAFG1. All forms are present and in the order indicated on the Form DC-2 [inventory sheet].

**ICP ANALYSES:** The duplicate RPD for Al (35.7%) was not flagged by the laboratory because the duplicate difference does not exceed the technical criterion (±CRDL) for water samples. The Al data are not qualified on this basis. The preparation blank contains Al (104.992 µg/L). The Al data on MEAFH7, MEAFJ2 and MEAFJ4 are estimated (J) due to contamination.

The duplicate RPD for Zn (23.1%) was not flagged by the laboratory because the duplicate difference does not exceed the technical criterion (±CRDL) for water samples. The Zn data are not qualified on this basis. The CCB contains Zn (5.0 µg/L). All Zn data are estimated (J) due to contamination.

The serial dilution audits on Ca (51.4%), Mg (51.8%) and Na (46.7%) are out of control. All the Ca, Mg and Na data are estimated (J) due to interference.

The CCB contains Sb (2.5 µg/L). The Sb result on MEAFH6 is estimated (J) due to contamination.

**OTHER ANALYSES:** All Hg and CN data are acceptable.

Reviewed by: James Redlin James Redlin
Lockheed ESAT
Date: 10/19/95

## DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature utinized in this document, the following code letters and associated definitions are provide:

U Indicates the material was analyzed, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

J Indicates the associated value is an estimated quantity.

R Indicates the data are unusable. (Note: The analyte may or may not be present.)

UJ Indicates the material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.

E Indicates the reported value is estimated because of the presence of interferences. An explanatory note shall be included under Comments on the Cover Page (if the problem applies to all samples) or on the specific FORM I-IN (if it is an isolated problem).

M Indicates duplicate injection precision is not met.

N Indictaes the spike sample recovery is not within control limits.

S Indicates the reported value was determined by the Method of Standard Addition (MSA).

W Indicates the post-digestion spike for furnace AA analysis is out of control limits (85%-115%), while sample absorbance is less than 50% of the spike absorbance.

+ Indicates the correlation coefficient for the MSA is less than 0.995.

* Indicates the duplicate analysis is not within control limits.

Note: Entering "S", "W" or "+" is mutually exclusive. No combination of these qualifiers can appear in the same field for an analyte.

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# COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Name: AMERICAN_ANALYTICAL_____ Contract: 68-D3-0051

Lab Code: AATSLA Case No.: 24033 SAS No.: _____ SDG No.:MEAFH6

SOW No.: ILM03.0

| EPA Sample No. | Lab Sample ID |
|---|---|
| MEAFH6 | 13110.01 |
| MEAFH7 | 13110.02 |
| MEAFJ2 | 13110.03 |
| MEAFJ4 | 13149.01 |
| MEAFJ4D | 13149.03D |
| MEAFJ4S | 13149.02S |

Were ICP interelement corrections applied ? Yes/No YES

Were ICP background corrections applied ? Yes/No YES

If yes - were raw data generated before application of background corrections ? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Terry M Thomas Name: Terry M Thomas

Date: Oct 13, 1995 Title: Inorganic Program Manager

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEAFH6

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D3-0051

Lab Code: AATSLA Case No.: 24033_ SAS No.: _____ SDG No.: MEAFH6

Matrix (soil/water): WATER Lab Sample ID: 13110.01

Level (low/med): LOW__ Date Received: 09/27/95

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 4330 | | | P |
| 7440-36-0 | Antimony | 2.9 | B | | P |
| 7440-38-2 | Arsenic | 3.8 | U | | P |
| 7440-39-3 | Barium | 59.1 | B | | P |
| 7440-41-7 | Beryllium | 0.40 | U | | P |
| 7440-43-9 | Cadmium | 1.1 | U | | P |
| 7440-70-2 | Calcium | 49000 | | E | P |
| 7440-47-3 | Chromium | 4.2 | B | | P |
| 7440-48-4 | Cobalt | 3.1 | U | | P |
| 7440-50-8 | Copper | 8.0 | B | | P |
| 7439-89-6 | Iron | 1690 | | | P |
| 7439-92-1 | Lead | 3.4 | | | P |
| 7439-95-4 | Magnesium | 9160 | | E | P |
| 7439-96-5 | Manganese | 230 | | | P |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | 7.0 | B | | P |
| 7440-09-7 | Potassium | 1860 | B | | P |
| 7782-49-2 | Selenium | 3.6 | U | | P |
| 7440-22-4 | Silver | 2.5 | U | | P |
| 7440-23-5 | Sodium | 2940 | B | E | P |
| 7440-28-0 | Thallium | 4.7 | U | | P |
| 7440-62-2 | Vanadium | 10.1 | B | | P |
| 7440-66-6 | Zinc | 20.6 | | | P |
| | Cyanide | 10.0 | U | | AS |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEAFH7

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D3-0051

Lab Code: AATSLA Case No.: 24033_ SAS No.: _____ SDG No.: MEAFH6

Matrix (soil/water): WATER Lab Sample ID: 13110.02

Level (low/med): LOW__ Date Received: 09/27/95

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | 133 | B | | P |
| 7440-36-0 | Antimony_ | 1.9 | U | | P |
| 7440-38-2 | Arsenic__ | 3.8 | U | | P |
| 7440-39-3 | Barium___ | 35.8 | B | | P |
| 7440-41-7 | Beryllium | 0.40 | U | | P |
| 7440-43-9 | Cadmium__ | 1.1 | U | | P |
| 7440-70-2 | Calcium__ | 108000 | | E | P |
| 7440-47-3 | Chromium_ | 4.0 | U | | P |
| 7440-48-4 | Cobalt___ | 3.1 | U | | P |
| 7440-50-8 | Copper___ | 1.7 | U | | P |
| 7439-89-6 | Iron_____ | 1700 | | | P |
| 7439-92-1 | Lead_____ | 1.7 | U | | P |
| 7439-95-4 | Magnesium | 21700 | | E | P |
| 7439-96-5 | Manganese | 61.2 | | | P |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 5.5 | U | | P |
| 7440-09-7 | Potassium | 1440 | B | | P |
| 7782-49-2 | Selenium_ | 3.6 | U | | P |
| 7440-22-4 | Silver___ | 2.5 | U | | P |
| 7440-23-5 | Sodium___ | 12200 | | E | P |
| 7440-28-0 | Thallium_ | 4.7 | U | | P |
| 7440-62-2 | Vanadium_ | 4.5 | U | | P |
| 7440-66-6 | Zinc_____ | 9.8 | B | | P |
| _____ | Cyanide__ | 10.0 | U | | AS |
| _____ | _____ | _____ | | | |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEAFJ2

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D3-0051

Lab Code: AATSLA Case No.: 24033_ SAS No.: _____ SDG No.: MEAFH6

Matrix (soil/water): WATER Lab Sample ID: 13110.03

Level (low/med): LOW__ Date Received: 09/27/95

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 86.0 | B | | P |
| 7440-36-0 | Antimony | 1.9 | U | | P |
| 7440-38-2 | Arsenic | 3.8 | U | | P |
| 7440-39-3 | Barium | 47.0 | B | | P |
| 7440-41-7 | Beryllium | 0.40 | U | | P |
| 7440-43-9 | Cadmium | 1.1 | U | | P |
| 7440-70-2 | Calcium | 158000 | | E | P |
| 7440-47-3 | Chromium | 4.0 | U | | P |
| 7440-48-4 | Cobalt | 3.1 | U | | P |
| 7440-50-8 | Copper | 1.7 | U | | P |
| 7439-89-6 | Iron | 3640 | | | P |
| 7439-92-1 | Lead | 1.7 | U | | P |
| 7439-95-4 | Magnesium | 39800 | | E | P |
| 7439-96-5 | Manganese | 156 | | | P |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | 5.5 | U | | P |
| 7440-09-7 | Potassium | 4470 | B | | P |
| 7782-49-2 | Selenium | 3.6 | U | | P |
| 7440-22-4 | Silver | 2.5 | U | | P |
| 7440-23-5 | Sodium | 18100 | | E | P |
| 7440-28-0 | Thallium | 4.7 | U | | P |
| 7440-62-2 | Vanadium | 4.5 | U | | P |
| 7440-66-6 | Zinc | 3.6 | B | | P |
| | Cyanide | 10.0 | U | | AS |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

INORGANIC ANALYSES DATA SHEET

MEAFJ4

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D3-0051

Lab Code: AATSLA Case No.: 24033_ SAS No.: _____ SDG No.: MEAFH6

Matrix (soil/water): WATER Lab Sample ID: 13149.01

Level (low/med): LOW__ Date Received: 09/29/95

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | 104 | B | | P |
| 7440-36-0 | Antimony_ | 1.9 | U | | P |
| 7440-38-2 | Arsenic__ | 3.8 | U | | P |
| 7440-39-3 | Barium___ | 27.2 | B | | P |
| 7440-41-7 | Beryllium | 0.40 | U | | P |
| 7440-43-9 | Cadmium__ | 1.1 | U | | P |
| 7440-70-2 | Calcium__ | 74500 | | E | P |
| 7440-47-3 | Chromium_ | 4.0 | U | | P |
| 7440-48-4 | Cobalt___ | 3.1 | U | | P |
| 7440-50-8 | Copper___ | 1.7 | U | | P |
| 7439-89-6 | Iron_____ | 48.0 | B | | P |
| 7439-92-1 | Lead_____ | 1.7 | U | | P |
| 7439-95-4 | Magnesium | 22500 | | E | P |
| 7439-96-5 | Manganese | 5.9 | B | | P |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 5.5 | U | | P |
| 7440-09-7 | Potassium | 1060 | B | | P |
| 7782-49-2 | Selenium_ | 3.6 | U | | P |
| 7440-22-4 | Silver___ | 2.5 | U | | P |
| 7440-23-5 | Sodium___ | 4800 | B | E | P |
| 7440-28-0 | Thallium_ | 4.7 | U | | P |
| 7440-62-2 | Vanadium_ | 4.5 | U | | P |
| 7440-66-6 | Zinc_____ | 14.5 | B | | P |
| _____ | Cyanide__ | 10.0 | U | | AS |
| _____ | _____ | _____ | _ | _____ | __ |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

3
BLANKS

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D3-0051

Lab Code: AATSLA Case No.: 24033_ SAS No.: _____ SDG No.: MEAFH6

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L_

| Analyte | Initial Calib. Blank (ug/L) | C | Continuing Calibration Blank (ug/L) 1 | C | 2 | C | 3 | C | Prepa-ration Blank | C | M |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 23.9 | B | 83.3 | B | 79.8 | B | 91.9 | B | 104.992 | B | P |
| Antimony | 1.9 | U | 1.9 | U | 2.1 | B | 2.5 | B | 1.900 | U | P |
| Arsenic | 3.8 | U | 3.8 | U | 3.8 | U | 3.8 | U | 3.800 | U | P |
| Barium | 1.4 | U | 1.8 | B | 1.9 | B | 2.1 | B | 1.400 | U | P |
| Beryllium | 0.4 | U | 0.4 | U | 0.4 | U | 0.4 | U | 0.400 | U | P |
| Cadmium | 1.1 | U | 1.1 | U | 1.1 | U | 1.1 | U | 1.100 | U | P |
| Calcium | 59.9 | U | 59.9 | U | 59.9 | U | 59.9 | U | 59.900 | U | P |
| Chromium | 4.0 | U | 4.0 | U | 4.0 | U | 4.0 | U | 4.000 | U | P |
| Cobalt | 3.1 | U | 3.1 | U | 3.1 | U | 3.1 | U | 3.100 | U | P |
| Copper | 1.7 | U | 1.7 | U | 1.7 | U | 1.7 | U | 1.700 | U | P |
| Iron | 4.0 | U | 4.0 | U | 4.0 | U | 6.1 | B | 4.000 | U | P |
| Lead | 1.7 | U | 1.7 | U | 1.7 | U | 1.7 | U | 1.700 | U | P |
| Magnesium | 16.2 | U | 16.2 | U | 16.2 | U | 16.2 | U | 16.200 | U | P |
| Manganese | 1.4 | U | 1.4 | U | 1.4 | U | 1.4 | U | 1.400 | U | P |
| Mercury | 0.2 | U | 0.2 | U | 0.2 | U | | | 0.200 | U | CV |
| Nickel | 5.5 | U | 5.5 | U | 5.5 | U | 5.5 | U | 5.500 | U | P |
| Potassium | 45.5 | U | 79.8 | B | 64.6 | B | 84.8 | B | 75.972 | B | P |
| Selenium | 3.6 | U | 3.6 | U | 3.6 | U | 3.6 | U | 3.600 | U | P |
| Silver | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 2.500 | U | P |
| Sodium | 65.6 | B | 406.8 | B | 257.2 | B | 312.1 | B | 435.883 | B | P |
| Thallium | 4.7 | U | 4.7 | U | 5.1 | B | 4.7 | U | 4.700 | U | P |
| Vanadium | 4.5 | U | 4.5 | U | 4.5 | U | 4.5 | U | 4.500 | U | P |
| Zinc | 0.9 | U | 1.2 | B | 0.9 | U | 5.0 | B | -1.604 | B | P |
| Cyanide | 10.0 | U | 10.0 | U | 10.0 | U | | | 10.000 | U | AS |

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5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MEAFJ4S

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D3-0051

Lab Code: AATSLA Case No.: 24033_ SAS No.: _____ SDG No.: MEAFH6

Matrix (soil/water): WATER_ Level (low/med): LOW___

% Solids for Sample: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| Analyte | Control Limit %R | Spiked Sample Result (SSR) | C | Sample Result (SR) | C | Spike Added (SA) | %R | Q | M |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 75-125 | 1990.7460 | | 104.0940 | B | 2000.00 | 94.3 | | P |
| Antimony | 75-125 | 487.2290 | | 1.9000 | U | 500.00 | 97.4 | | P |
| Arsenic | 75-125 | 2035.2170 | | 3.8000 | U | 2000.00 | 101.8 | | P |
| Barium | 75-125 | 1963.1420 | | 27.1790 | B | 2000.00 | 96.8 | | P |
| Beryllium | 75-125 | 49.8810 | | 0.4000 | U | 50.00 | 99.8 | | P |
| Cadmium | 75-125 | 51.2810 | | 1.1000 | U | 50.00 | 102.6 | | P |
| Calcium | | | | | | | | | NR |
| Chromium | 75-125 | 205.1240 | | 4.0000 | U | 200.00 | 102.6 | | P |
| balt | 75-125 | 480.8690 | | 3.1000 | U | 500.00 | 96.2 | | P |
| pper | 75-125 | 241.2460 | | 1.7000 | U | 250.00 | 96.5 | | P |
| Iron | 75-125 | 1044.1990 | | 48.0070 | B | 1000.00 | 99.6 | | P |
| Lead | 75-125 | 498.5640 | | 1.7000 | U | 500.00 | 99.7 | | P |
| Magnesium | | | | | | | | | NR |
| Manganese | 75-125 | 480.0250 | | 5.8870 | B | 500.00 | 94.8 | | P |
| Mercury | 75-125 | 0.9670 | | 0.2000 | U | 1.00 | 96.7 | | CV |
| Nickel | 75-125 | 473.8040 | | 5.5000 | U | 500.00 | 94.8 | | P |
| Potassium | | | | | | | | | NR |
| Selenium | 75-125 | 2006.2990 | | 3.6000 | U | 2000.00 | 100.3 | | P |
| Silver | 75-125 | 43.2550 | | 2.5000 | U | 50.00 | 86.5 | | P |
| Sodium | | | | | | | | | NR |
| Thallium | 75-125 | 1954.0350 | | 4.7000 | U | 2000.00 | 97.7 | | P |
| Vanadium | 75-125 | 491.1610 | | 4.5000 | U | 500.00 | 98.2 | | P |
| Zinc | 75-125 | 528.4030 | | 14.5090 | B | 500.00 | 102.8 | | P |
| Cyanide | 75-125 | 384.7620 | | 10.0000 | U | 500.00 | 77.0 | | AS |

Comments:

U.S. EPA - CLP

6
DUPLICATES

000016
EPA SAMPLE NO.

MEAFJ4D

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D3-0051

Lab Code: AATSLA Case No.: 24033_ SAS No.: _____ SDG No.: MEAFH6

Matrix (soil/water): WATER Level (low/med): _LOW__

% Solids for Sample: __0.0 % Solids for Duplicate: ___0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| Analyte | Control Limit | Sample (S) | C | Duplicate (D) | C | RPD | Q | M |
|---|---|---|---|---|---|---|---|---|
| Aluminum | | 104.0940 | B | 149.4020 | B | 35.7 | | P |
| Antimony | | 1.9000 | U | 1.9000 | U | | | P |
| Arsenic | | 3.8000 | U | 3.8000 | U | | | P |
| Barium | | 27.1790 | B | 27.5990 | B | 1.5 | | P |
| Beryllium | | 0.4000 | U | 0.4000 | U | | | P |
| Cadmium | | 1.1000 | U | 1.1000 | U | | | P |
| Calcium | | 74521.3740 | | 75120.0140 | | 0.8 | | P |
| Chromium | | 4.0000 | U | 4.0000 | U | | | P |
| Cobalt | | 3.1000 | U | 3.1000 | U | | | P |
| Copper | | 1.7000 | U | 1.7000 | U | | | P |
| Iron | | 48.0070 | B | 48.4920 | B | 1.0 | | P |
| Lead | | 1.7000 | U | 1.7000 | U | | | P |
| Magnesium | 5000.0 | 22539.2780 | | 22723.9650 | | 0.8 | | P |
| Manganese | | 5.8870 | B | 5.9740 | B | 1.5 | | P |
| Mercury | | 0.2000 | U | 0.2000 | U | | | CV |
| Nickel | | 5.5000 | U | 5.5000 | U | | | P |
| Potassium | | 1062.3480 | B | 1092.7370 | B | 2.8 | | P |
| Selenium | | 3.6000 | U | 3.6000 | U | | | P |
| Silver | | 2.5000 | U | 2.5000 | U | | | P |
| Sodium | 5000.0 | 4803.0220 | B | 5003.4170 | | 4.1 | | P |
| Thallium | | 4.7000 | U | 4.7000 | U | | | P |
| Vanadium | | 4.5000 | U | 4.5000 | U | | | P |
| Zinc | | 14.5090 | B | 18.2940 | B | 23.1 | | P |
| Cyanide | | 10.0000 | U | 10.0000 | U | | | AS |

10

Instrument Detection Limits (Quarterly)

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D3-0051

Lab Code: AATSLA Case No.: 24033_ SAS No.: _____ SDG No.: MEAFH6

ICP ID Number: ACC101_____ Date: 07/17/95

Flame AA ID Number : _____

Furnace AA ID Number : _____

| Analyte | Wave-length (nm) | Back-ground | CRDL (ug/L) | IDL (ug/L) | M |
|---|---|---|---|---|---|
| Aluminum | 308.22 | | 200 | 17.9 | P |
| Antimony | | | 60 | | NR |
| Arsenic | | | 10 | | NR |
| Barium | 455.40 | | 200 | 1.4 | P |
| Beryllium | 313.04 | | 5 | 0.4 | P |
| Cadmium | | | 5 | | NR |
| Calcium | 317.93 | | 5000 | 59.9 | P |
| Chromium | 267.72 | | 10 | 4.0 | P |
| Cobalt | | | 50 | | NR |
| Copper | 324.75 | | 25 | 1.7 | P |
| Iron | 259.94 | | 100 | 4.0 | P |
| Lead | | | 3 | | NR |
| Magnesium | 279.08 | | 5000 | 16.2 | P |
| Manganese | | | 15 | | NR |
| Mercury | | | 0.2 | | NR |
| Nickel | | | 40 | | NR |
| Potassium | 766.49 | | 5000 | 45.5 | P |
| Selenium | | | 5 | | NR |
| Silver | 328.07 | | 10 | 2.5 | P |
| Sodium | 588.99 | | 5000 | 24.0 | P |
| Thallium | | | 10 | | NR |
| Vanadium | 292.40 | | 50 | 4.5 | P |
| Zinc | 213.86 | | 20 | 0.9 | P |

Comments:

10

# Instrument Detection Limits (Quarterly)

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D3-0051

Lab Code: AATSLA Case No.: 24033_ SAS No.: _____ SDG No.: MEAFH6

ICP ID Number: _____ Date: 07/17/95

Flame AA ID Number : LEEMAN_____

Furnace AA ID Number : _____

| Analyte | Wave-length (nm) | Back-ground | CRDL (ug/L) | IDL (ug/L) | M |
|---|---|---|---|---|---|
| Aluminum | | | 200 | | NR |
| Antimony | | | 60 | | NR |
| Arsenic | | | 10 | | NR |
| Barium | | | 200 | | NR |
| Beryllium | | | 5 | | NR |
| Cadmium | | | 5 | | NR |
| Calcium | | | 5000 | | NR |
| Chromium | | | 10 | | NR |
| Cobalt | | | 50 | | NR |
| Copper | | | 25 | | NR |
| Iron | | | 100 | | NR |
| Lead | | | 3 | | NR |
| Magnesium | | | 5000 | | NR |
| Manganese | | | 15 | | NR |
| Mercury | 273.70 | | 0.2 | 0.2 | CV |
| Nickel | | | 40 | | NR |
| Potassium | | | 5000 | | NR |
| Selenium | | | 5 | | NR |
| Silver | | | 10 | | NR |
| Sodium | | | 5000 | | NR |
| Thallium | | | 10 | | NR |
| Vanadium | | | 50 | | NR |
| Zinc | | | 20 | | NR |

Comments:

U.S. EPA - CLP

10

Instrument Detection Limits (Quarterly)

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D3-0051

Lab Code: AATSLA Case No.: 24033_ SAS No.: _____ SDG No.: MEAFH6

ICP ID Number: _____ Date: 07/17/95

Flame AA ID Number : LACHAT_____

Furnace AA ID Number : _____

| Analyte | Wave-length (nm) | Back-ground | CRDL (ug/L) | IDL (ug/L) | M |
|---|---|---|---|---|---|
| Aluminum | | | 200 | | NR |
| Antimony | | | 60 | | NR |
| Arsenic | | | 10 | | NR |
| Barium | | | 200 | | NR |
| Beryllium | | | 5 | | NR |
| Cadmium | | | 5 | | NR |
| Calcium | | | 5000 | | NR |
| Chromium | | | 10 | | NR |
| Cobalt | | | 50 | | NR |
| Copper | | | 25 | | NR |
| Iron | | | 100 | | NR |
| Lead | | | 3 | | NR |
| Magnesium | | | 5000 | | NR |
| Manganese | | | 15 | | NR |
| Mercury | | | 0.2 | | NR |
| Nickel | | | 40 | | NR |
| Potassium | | | 5000 | | NR |
| Selenium | | | 5 | | NR |
| Silver | | | 10 | | NR |
| Sodium | | | 5000 | | NR |
| Thallium | | | 10 | | NR |
| Vanadium | | | 50 | | NR |
| Zinc | | | 20 | | NR |

Comments:

10
Instrument Detection Limits (Quarterly)

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D3-0051

Lab Code: AATSLA Case No.: 24033_ SAS No.: _____ SDG No.: MEAFH6

ICP ID Number: TRACE61E____ Date: 08/06/95

Flame AA ID Number : _____

Furnace AA ID Number : _____

| Analyte | Wave-length (nm) | Back-ground | CRDL (ug/L) | IDL (ug/L) | M |
|---|---|---|---|---|---|
| Aluminum | | | 200 | | NR |
| Antimony | 206.83 | | 60 | 1.9 | P |
| Arsenic | 189.04 | | 10 | 3.8 | P |
| Barium | | | 200 | | NR |
| Beryllium | | | 5 | | NR |
| Cadmium | 226.50 | | 5 | 1.1 | P |
| Calcium | | | 5000 | | NR |
| Chromium | | | 10 | | NR |
| Cobalt | 228.62 | | 50 | 3.1 | P |
| Copper | | | 25 | | NR |
| Iron | | | 100 | | NR |
| Lead | 220.35 | | 3 | 1.7 | P |
| Magnesium | | | 5000 | | NR |
| Manganese | 257.61 | | 15 | 1.4 | P |
| Mercury | | | 0.2 | | NR |
| Nickel | 231.60 | | 40 | 5.5 | P |
| Potassium | | | 5000 | | NR |
| Selenium | 196.02 | | 5 | 3.6 | P |
| Silver | | | 10 | | NR |
| Sodium | | | 5000 | | NR |
| Thallium | 190.86 | | 10 | 4.7 | P |
| Vanadium | | | 50 | | NR |
| Zinc | | | 20 | | NR |
| | | | | | |

Comments:

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D3-0051

Lab Code: AATSLA Case No.: 24033_ SAS No.: _____ SDG No.:MEAFH6

Instrument ID Number: ACC101_____ Method: P_

Start Date: 10/11/95 End Date: 10/11/95

| EPA Sample No. | D/F | Time | .% R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | AL | SB | AS | BA | BE | CD | CA | CR | CO | CU | FE | PB | MG | MN | HG | NI | K | SE | AG | NA | TL | V | ZN | CN |
| S0 | 1.00 | 0848 | | X | - | - | X | X | - | X | X | - | X | X | - | X | - | - | - | X | - | X | X | - | X | X | - |
| S | 1.00 | 0853 | | X | - | - | X | X | - | X | X | - | X | X | - | X | - | - | - | X | - | X | X | - | X | X | - |
| ICV | 1.00 | 0918 | | X | - | - | X | X | - | X | X | - | X | X | - | X | - | - | - | X | - | X | X | - | X | X | - |
| ICB | 1.00 | 0922 | | X | - | - | X | X | - | X | X | - | X | X | - | X | - | - | - | X | - | X | X | - | X | X | - |
| ICSA | 1.00 | 0926 | | X | - | - | X | X | - | X | X | - | X | X | - | X | - | - | - | X | - | X | X | - | X | X | - |
| ICSAB | 1.00 | 0930 | | X | - | - | X | X | - | X | X | - | X | X | - | X | - | - | - | X | - | X | X | - | X | X | - |
| CRI | 1.00 | 0934 | | | - | - | | X | - | | X | - | X | | - | | - | - | - | | - | X | | - | X | | |
| CCV | 1.00 | 0938 | | X | - | - | X | X | - | X | X | - | X | X | - | X | - | - | - | X | - | X | X | - | X | | |
| CCB | 1.00 | 0942 | | X | - | - | X | X | - | X | X | - | X | X | - | X | - | - | - | X | - | X | X | - | X | | |
| SW | 1.00 | 0947 | | X | - | - | X | X | - | X | X | - | X | X | - | X | - | - | - | X | - | X | X | - | X | X | - |
| SW | 1.00 | 0951 | | X | - | - | X | X | - | X | X | - | X | X | - | X | - | - | - | X | - | X | X | - | X | X | - |
| MEAFH6 | 1.00 | 0955 | | X | - | - | X | X | - | X | X | - | X | X | - | X | - | - | - | X | - | X | X | - | X | X | - |
| MEAFH7 | 1.00 | 0959 | | X | - | - | X | X | - | X | X | - | X | X | - | X | - | - | - | X | - | X | X | - | X | X | - |
| MEAFJ2 | 1.00 | 1003 | | X | - | - | X | X | - | X | X | - | X | X | - | X | - | - | - | X | - | X | X | - | X | X | - |
| MEAFJ4 | 1.00 | 1007 | | X | - | - | X | X | - | X | X | - | X | X | - | X | - | - | - | X | - | X | X | - | X | X | - |
| MEAFJ4L | 5.00 | 1011 | | X | - | - | X | X | - | X | X | - | X | X | - | X | - | - | - | X | - | X | X | - | X | X | - |
| MEAFJ4D | 1.00 | 1015 | | X | - | - | X | X | - | X | X | - | X | X | - | X | - | - | - | X | - | X | X | - | X | X | - |
| MEAFJ4S | 1.00 | 1019 | | X | - | - | X | X | - | | X | - | X | X | - | | - | - | - | | - | X | | - | X | X | - |
| CCV | 1.00 | 1023 | | X | - | - | X | X | - | X | X | - | X | X | - | X | - | - | - | X | - | X | X | - | X | X | - |
| CCB | 1.00 | 1027 | | X | - | - | X | X | - | X | X | - | X | X | - | X | - | - | - | X | - | X | X | - | X | X | - |
| ICSA | 1.00 | 1031 | | X | - | - | X | X | - | X | X | - | X | X | - | X | - | - | - | X | - | X | X | - | X | X | - |
| ICSAB | 1.00 | 1035 | | X | - | - | X | X | - | X | X | - | X | X | - | X | - | - | - | X | - | X | X | - | X | X | - |
| CRI | 1.00 | 1039 | | | - | - | | X | - | | X | - | X | | - | | - | - | - | | - | X | | - | X | X | - |
| CCV | 1.00 | 1043 | | X | - | - | X | X | - | X | X | - | X | X | - | X | - | - | - | X | - | X | X | - | X | X | - |
| CCB | 1.00 | 1047 | | X | - | - | X | X | - | X | X | - | X | X | - | X | - | - | - | X | - | X | X | - | X | X | - |
| | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

14

# ANALYSIS RUN LOG

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D3-0051

Lab Code: AATSLA Case No.: 24033_ SAS No.: _____ SDG No.:MEAFH6

Instrument ID Number: LEEMAN_____ Method: CV

Start Date: 10/10/95 End Date: 10/10/95

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | AL | SB | AS | BA | BE | CD | CA | CR | CO | CU | FE | PB | MG | MN | HG | NI | K | SE | AG | NA | TL | V | ZN | CN |
| S0 | 1.00 | 1405 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | X | - | - | - | - | - | - | - | - | - |
| S0.2 | 1.00 | 1407 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | X | - | - | - | - | - | - | - | - | - |
| S1 | 1.00 | 1410 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | X | - | - | - | - | - | - | - | - | - |
| S5 | 1.00 | 1412 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | X | - | - | - | - | - | - | - | - | - |
| S10 | 1.00 | 1415 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | X | - | - | - | - | - | - | - | - | - |
| ICV | 1.00 | 1417 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | X | - | - | - | - | - | - | - | - | - |
| [illegible] | 1.00 | 1420 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | X | - | - | - | - | - | - | - | - | - |
| | 1.00 | 1422 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | X | - | - | - | - | - | - | - | - | - |
| | 1.00 | 1425 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | X | - | - | - | - | - | - | - | - | - |
| B | 1.00 | 1427 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | X | - | - | - | - | - | - | - | - | - |
| W | 1.00 | 1430 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | X | - | - | - | - | - | - | - | - | - |
| LCSW | 1.00 | 1432 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | X | - | - | - | - | - | - | - | - | - |
| MEAFH6 | 1.00 | 1435 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | X | - | - | - | - | - | - | - | - | - |
| MEAFH7 | 1.00 | 1437 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | X | - | - | - | - | - | - | - | - | - |
| MEAFJ2 | 1.00 | 1439 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | X | - | - | - | - | - | - | - | - | - |
| MEAFJ4 | 1.00 | 1442 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | X | - | - | - | - | - | - | - | - | - |
| MEAFJ4D | 1.00 | 1444 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | X | - | - | - | - | - | - | - | - | - |
| MEAFJ4S | 1.00 | 1447 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | X | - | - | - | - | - | - | - | - | - |
| ZZZZZZ | 1.00 | 1449 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ZZZZZZ | 1.00 | 1451 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| CCV | 1.00 | 1454 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | X | - | - | - | - | - | - | - | - | - |
| CCB | 1.00 | 1456 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | X | - | - | - | - | - | - | - | - | - |
| | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

U.S. EPA - CLP

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14

ANALYSIS RUN LOG

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D3-0051

Lab Code: AATSLA Case No.: 24033_ SAS No.: _____ SDG No.:MEAFH6

Instrument ID Number: LACHAT_____ Method: AS

Start Date: 10/06/95 End Date: 10/06/95

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | AL | SB | AS | BA | BE | CD | CA | CR | CO | CU | FE | PB | MG | MN | HG | NI | K | SE | AG | NA | TL | V | ZN | CN |
| S500 | 1.00 | 1414 | | | | | | | | | | | | | | | | | | | | | | | | X |
| S250 | 1.00 | 1414 | | | | | | | | | | | | | | | | | | | | | | | | X |
| S100 | 1.00 | 1415 | | | | | | | | | | | | | | | | | | | | | | | | X |
| S50 | 1.00 | 1416 | | | | | | | | | | | | | | | | | | | | | | | | X |
| S10 | 1.00 | 1417 | | | | | | | | | | | | | | | | | | | | | | | | X |
| S0 | 1.00 | 1417 | | | | | | | | | | | | | | | | | | | | | | | | X |
| ICV | 1.00 | 1421 | | | | | | | | | | | | | | | | | | | | | | | | |
| ICB | 1.00 | 1422 | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1.00 | 1423 | | | | | | | | | | | | | | | | | | | | | | | | |
| [illegible]B | 1.00 | 1424 | | | | | | | | | | | | | | | | | | | | | | | | X |
| [illegible]W | 1.00 | 1424 | | | | | | | | | | | | | | | | | | | | | | | | X |
| MEAFH6 | 1.00 | 1425 | | | | | | | | | | | | | | | | | | | | | | | | X |
| MEAFH7 | 1.00 | 1426 | | | | | | | | | | | | | | | | | | | | | | | | X |
| MEAFJ2 | 1.00 | 1427 | | | | | | | | | | | | | | | | | | | | | | | | X |
| MEAFJ4 | 1.00 | 1427 | | | | | | | | | | | | | | | | | | | | | | | | X |
| MEAFJ4S | 2.00 | 1428 | | | | | | | | | | | | | | | | | | | | | | | | X |
| MEAFJ4D | 1.00 | 1429 | | | | | | | | | | | | | | | | | | | | | | | | X |
| CCV | 1.00 | 1429 | | | | | | | | | | | | | | | | | | | | | | | | X |
| CCB | 1.00 | 1430 | | | | | | | | | | | | | | | | | | | | | | | | X |

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14

ANALYSIS RUN LOG

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D3-0051

Lab Code: AATSLA Case No.: 24033_ SAS No.: _____ SDG No.:MEAFH6

Instrument ID Number: TRACE61E_____ Method: P_

Start Date: 10/11/95 End Date: 10/11/95

| EPA Sample No. | D/F | Time | % R | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | AL | SB | AS | BA | BE | CD | CA | CR | CO | CU | FE | PB | MG | MN | HG | NI | K | SE | AG | NA | TL | V | ZN | CN |
| S0 | 1.00 | 1354 | | - | X | X | - | - | X | - | - | X | - | - | X | - | X | - | X | - | X | - | - | X | - | - | - |
| S | 1.00 | 1359 | | - | X | X | - | - | X | - | - | X | - | - | X | - | X | - | X | - | X | - | - | X | - | - | - |
| ICV | 1.00 | 1403 | | - | X | X | - | - | X | - | - | X | - | - | X | - | X | - | X | - | X | - | - | X | - | - | - |
| ICB | 1.00 | 1408 | | - | X | X | - | - | X | - | - | X | - | - | X | - | X | - | X | - | X | - | - | X | - | - | - |
| ICSA | 1.00 | 1412 | | - | X | X | - | - | X | - | - | X | - | - | X | - | X | - | X | - | X | - | - | X | - | - | - |
| ICSAB | 1.00 | 1417 | | - | X | X | - | - | X | - | - | X | - | - | X | - | X | - | X | - | X | - | - | X | - | - | - |
| CRI | 1.00 | 1422 | | - | X | X | - | - | X | - | - | X | - | - | X | - | X | - | X | - | X | - | - | X | - | - | - |
| [illegible]V | 1.00 | 1426 | | - | X | X | - | - | X | - | - | X | - | - | X | - | X | - | X | - | X | - | - | X | - | - | - |
| [illegible]B | 1.00 | 1431 | | - | X | X | - | - | X | - | - | X | - | - | X | - | X | - | X | - | X | - | - | X | - | - | - |
| [illegible]RW | 1.00 | 1435 | | - | X | X | - | - | X | - | - | X | - | - | X | - | X | - | X | - | X | - | - | X | - | - | - |
| SW | 1.00 | 1440 | | - | X | X | - | - | X | - | - | X | - | - | X | - | X | - | X | - | X | - | - | X | - | - | - |
| MEAFH6 | 1.00 | 1445 | | - | X | X | - | - | X | - | - | X | - | - | X | - | X | - | X | - | X | - | - | X | - | - | - |
| MEAFH7 | 1.00 | 1449 | | - | X | X | - | - | X | - | - | X | - | - | X | - | X | - | X | - | X | - | - | X | - | - | - |
| MEAFJ2 | 1.00 | 1454 | | - | X | X | - | - | X | - | - | X | - | - | X | - | X | - | X | - | X | - | - | X | - | - | - |
| MEAFJ4 | 1.00 | 1458 | | - | X | X | - | - | X | - | - | X | - | - | X | - | X | - | X | - | X | - | - | X | - | - | - |
| MEAFJ4L | 5.00 | 1503 | | - | X | X | - | - | X | - | - | X | - | - | X | - | X | - | X | - | X | - | - | X | - | - | - |
| MEAFJ4D | 1.00 | 1508 | | - | X | X | - | - | X | - | - | X | - | - | X | - | X | - | X | - | X | - | - | X | - | - | - |
| MEAFJ4S | 1.00 | 1512 | | - | X | X | - | - | X | - | - | X | - | - | X | - | X | - | X | - | X | - | - | X | - | - | - |
| CCV | 1.00 | 1517 | | - | X | X | - | - | X | - | - | X | - | - | X | - | X | - | X | - | X | - | - | X | - | - | - |
| CCB | 1.00 | 1522 | | - | X | X | - | - | X | - | - | X | - | - | X | - | X | - | X | - | X | - | - | X | - | - | - |
| ICSA | 1.00 | 1526 | | - | X | X | - | - | X | - | - | X | - | - | X | - | X | - | X | - | X | - | - | X | - | - | - |
| ICSAB | 1.00 | 1531 | | - | X | X | - | - | X | - | - | X | - | - | X | - | X | - | X | - | X | - | - | X | - | - | - |
| CRI | 1.00 | 1535 | | - | X | X | - | - | X | - | - | X | - | - | X | - | X | - | X | - | X | - | - | X | - | - | - |
| CCV | 1.00 | 1540 | | - | X | X | - | - | X | - | - | X | - | - | X | - | X | - | X | - | X | - | - | X | - | - | - |
| CCB | 1.00 | 1545 | | - | X | X | - | - | X | - | - | X | - | - | X | - | X | - | X | - | X | - | - | X | - | - | - |
| | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

# EPA — Inorganic Traffic Report & Chain of Custody Record

United States Environmental Protection Agency
Contract Laboratory Program

(For Inorganic CLP Analysis)

SAS No. (if applicable):

Case No.: 24033

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaOH
4. $H_2SO_4$
5. $K_2CR_2O_7$
6. Ice only
7. Other (specify in Column D)
N. Not preserved

2. Region No.: V
Sampling Co.: USACE
4. Date Shipped: 9/26/95
Carrier: FED EX
6. Date Received -- Received by: 9/27/95 Susan Stewart
Sampler (Name): SKINNER
Airbill Number: 6874358223
Laboratory Contract Number: 68-D3-0051
Unit Price: 116.50
Sampler Signature:
7. Transfer to:
Date Received
3. Purpose*
Lead: SF, PRP, ST, FED
Early Action: CLEM, PA, REM, RI, SI, ESI
Long-Term Action: FS, RD, RA, O&M, NPLD
5. Ship To: American Analytical & Tech Serv.
11950 Industriplex Blvd.
Baton Rouge, LA 70809
ATTN: Susan Stewart
Received by
Contract Number
Price

| CLP Sample Numbers (from labels) | A Matrix (from Box 1) / Other | B Conc.: Low Med High | C Sample Type: Comp./ Grab | D Preservative (from Box 2) / Other | E – RAS Analysis: Diss. Metals | Total Metals | Cyanide | $NO_2/NO_3$ (Low only) | Fluoride (Low only) | pH (High only) | Conduct. (High only) | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/ Year/Time Sample Collection | I Corresponding CLP Organic Sample No. | J Sampler Initials | K High Phases: Solids | Water-Miscible Liq. | Water-Immis. Liq. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAFH6 | 2 | L | G | 2 | | X | | | | | | 5-190767 | 95CE03520 | 9/26/95 1020 | EARR0 | RH | | | |
| MEAFH6 | 2 | L | G | 3 | | | X | | | | | 5-190768 | 95CE03520 | 9/26/95 1020 | EARR0 | RH | | | |
| MEAFH7 | 2 | L | G | 2 | | X | | | | | | 5-190775 | 95CE03522 | 9/26/95 1400 | EARR1 | RH | | | |
| MEAFH7 | 2 | L | G | 3 | | | X | | | | | 5-190777 | 95CE03522 | 9/26/95 1400 | EARR1 | RH | | | |
| MEAFJ2 | 2 | L | G | 2 | | X | | | | | | 5-190700 | 95CE03536 | 9/26/95 1303 | EARR6 | RH | | | |
| MEAFJ2 | 2 | L | G | 3 | | | X | | | | | 5-190657 | 95CE03536 | 9/26/95 1303 | EARR6 | RH | | | |

Shipment for Case Complete? (Y/N): Y
Page: 1 of 1
Sample(s) to be Used for Laboratory QC:
Additional Sampler Signatures:
Chain of Custody Seal Number(s): 41151, 41152

## CHAIN OF CUSTODY RECORD

| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
|---|---|---|---|---|---|
| | 9/26/95 15:00 | | | | |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| | | | | | |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) Susan Stewart | Date / Time 9/26/95 2009:15 | Remarks: Is custody seal intact? Y/N/none | |

DISTRIBUTION: Green - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to

EPA Form 9110-1

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A31-012-6 REV. 3/93

COPY 9/26/95

000105

359338

# QC EXCEPT[illegible] SUMMARY REPORT

CASE\SAS#: 24033 SITE: Himco Dump MATRIX: water WATER SAMPLE SPK: MEAFJ4

DATA SET: MEAFH6 LAB: AATS-LA CONC: Low WATER SAMPLE DUP: MEAFJ4

LAB QC # _____ REVIEWED BY: J. Rodlin SOIL SAMPLE SPK: _____

DATE: 10/17/95 SOIL SAMPLE DUP: _____

ug/L

| FORM # | | FORM 2 | FORM 3 | FORM 5 | FORM 3 | FORM 3 | FORM 4 | FORM 5 | FORM 6 | FORM 7 | FORM 7 | FORM 9 | FORM 9 | FORM 4 | FORM 5 | FIELD | FIELD | FIELD | FIELD | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ELEMENT | HOLD TIME 9/26-27 | INITIAL CALIB | CONTI N CALIB | CALIB BLANK | PREP WATER BLANK | PREP SOIL BLANK | ICS %R | AQ ~~SOIL~~ SPIKE %R | AQ ~~SOIL~~ DUP RPD | LCS AQ | LCS SOIL | SERIAL DILUTION AQUEOUS | SERIAL DILUTION SOIL | AQ DUP RPD | AQ SPIKE %R | BLANK | DUP RPD | BLANK | DUP RPD | GFAA DUP | GFAA ANALYT SPIKE |
| ALUMINUM | ok | ok | SR | ~~91.9~~ | 104.992 | ~~104~~ | ok | ok | (35.7) | ok | | | | | | | | | | | |
| ANTIMONY | | | | 2.5 | | | | | | | | | | | | | | | | | |
| ARSENIC | | | | | | | | | | | | | | | | | | | | | |
| BARIUM | | | | ~~2.1~~ | | | | | | | | | | | | | | | | | |
| BERYLLIUM | | | | | | | | | | | | | | | | | | | | | |
| CADMIUM | | | | | | | | | | | | | | | | | | | | | |
| CALCIUM | | | | | | | | | | | | 51.4 | | | | | | | | | |
| CHROMIUM | | | | | | | | | | | | | | | | | | | | | |
| COBALT | | | | | | | | | | | | | | | | | | | | | |
| COPPER | | | | | | | | | | | | | | | | | | | | | |
| IRON | | | | ~~6.1~~ | | | | | | | | | | | | | | | | | |
| LEAD | | | | | | | | | | | | | | | | | | | | | |
| MAGNESIUM | | | | | | | | | | | | 51.8 | | | | | | | | | |
| MANGANESE | | | | | | | | | | | | | | | | | | | | | |
| MERCURY | | | | | | | | | | | | | | | | | | | | | |
| NICKEL | | | | | | | | | | | | | | | | | | | | | |
| POTASSIUM | | | | ~~84.8~~ | ~~75.97~~ | | | | | | | | | | | | | | | | |
| SELENIUM | | | | | | | | | | | | | | | | | | | | | |
| SILVER | | | | | | | | | | | | | | | | | | | | | |
| SODIUM | | | | ~~406.8~~ | ~~435.885~~ | | | | | | | 46.7 | | | | | | | | | |
| THALLIUM | | | | ~~5.1~~ | | | | | | | | | | | | | | | | | |
| TIN | | | | | | | | | | | | | | | | | | | | | |
| VANADIUM | | | | | | | | | | | | | | | | | | | | | |
| ZINC | | | | 5.0 ~~11.2~~ | | | | | (23.1) | | | | | | | | | | | | |
| CYANIDE | | | | | | | | | | | | | | | | | | | | | |

PBW
Al (104.992 ug/L) MEAFH7, MEAFJ2, MEAFJ4

CCB
Sb (2.5 ug/L) MEAFH6
Zn (5.0 ug/L) MEAFH7, MEAFJ2, MEAFJ4
MEAFJ4

AMERICAN ANALYTICAL & TECHNICAL SERVICES, INC.
11950 Industriplex Blvd. • Baton Rouge, LA 70809 • Office (504) 753-8650 • Fax (504) 751-1405

**SDG NARRATIVE**

October 13, 1995

Laboratory Name: AATSLA
Case Number: 24033
SDG Number: MEAFH6

Four (4) water samples were received on September 27 and 29, 1995 for TAL Metals analysis. USEPA's CLP SOW ILM03.0 protocol was to be utilized. The samples are listed below.

Sample No.

MEAFH6
MEAFH7
MEAFJ2
MEAFJ4
MEAFJ4D (Duplicate)
MEAFJ4S (Spike)

Please note that for runs produced on the instrument identified as "ACC101", some of the analysis times have been written in by hand on the raw data. This is because the instrument does not print the analysis time on the raw data. It prints the actual time of printing and the time the file was sent to the spooler. The correct analysis time is stored on the computer disk. This spooler time is usually 30 to 60 seconds later than the analysis time stored on the disk. Therefore, in accordance with SOW ILM03.0, Page B-9, Section II. C. 2. d. 9:

"If the instrument does not automatically provide times of analysis, these shall be manually entered on all raw data for initial and continuing calibration verification and blanks, as well as interference check samples and the CRDL standard for the ICP".

Case Number: 24033
SDG Number: MEAFH6

For the instrument identified as "Trace" the print and analysis times are printed on the output except for the calibration standards. Here, only the print times are printed even though the analysis times are stored on the computer disk. As a result, we are writing the analyses times on the calibration standards.

**Discussion/Issue:** The first SDG was closed on September 27, 1995 and a QC was not designated. Is it OK for the lab to chose one?

**Resolution:** As per Roger Nowakowski a QC should be chosen by the laboratory (MEAFJ4) and noted in this narrative.

Terry M. Thomas
Inorganic Program Manager

TMT/mbm

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Data Set No: _____ CERCLIS No: _____

Case No: 24033 Site Name Location: Hinco Dump (IN)

Contractor or EPA Lab: AATSLA Data User: USACE

No. of Samples: 4 Date Sampled or Data Received: 10-16-95

Have Chain-of-Custody records been received? Yes ✓ No _____
Have traffic reports or packing lists been received? Yes ✓ No _____
If no, are traffic report or packing list numbers written on the chain-of-custody record? Yes _____ No _____
If no, which traffic report or packing list numbers are missing?

_____ _____ _____ _____

_____ _____ _____ _____

Are basic data forms in? Yes ✓ No _____
No of samples claimed: 4 No. of samples received: 4

Received by: Al Venuto Date: 10-16-95

Received by LSSS: _____ Date: _____

Review started: 10/17/95 Reviewer Signature: J. Rollin

Total time spent on review: 3.0 + 1.8 hrs 10/19/95 Date review completed: 10/17/95

Copied by: Lynette Burnett Date: 10-24-95

Mailed to user by: Lynette Burnett Date: 10-24-95

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffen, Data mgmt. Coordinator, Region V, 5SCRL

Data received by: _____ Date: _____

Data review received by: _____ Date: _____

| | | |
|---|---|---|
| Inorganic Data Complete | [ ] Suitable for Intended Purpose | [ ] ✓ if OK |
| Organic Data Complete | [ ] Suitable for Intended Purpose | [ ] ✓ if OK |
| Dioxin Data Complete | [ ] Suitable for Intended Purpose | [ ] ✓ if OK |
| SAS Data Complete | [ ] Suitable for Intended Purpose | [ ] ✓ if OK |

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

_____

_____

Received by Data Mgmt. Coordinator for Files. Data: _____

# ATTACHMENT 5, APPENDIX A
# SUPPLEMENTAL INFORMATION

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

RECEIVED
MAR 4 1996
R. LENNIE SCOTT

REPLY TO THE ATTENTION OF:

SR-6J

FEB 29 1996

Lennie Scott, P.E., Director
Health, Environment, and Safety
Bayer Corporation
1884 Miles Avenue
Elkhart, Indiana 46515-0040

Dear Mr. Scott:

The United States Environmental Protection Agency (U.S. EPA) has reviewed your letter of January 25, 1996, in which you raised a number of questions relating to quality assurance. Please find below U.S. EPA's responses to your questions.

1 **Comment:** Analytical results appear to be presented for four samples (EARQ8, MEAFH4, MEAFJ4, and MEAFJ4D) that are not identified (as to purpose or well number) on the "sample correlation table" you provided (relating the sample numbers to their locations or purposes). Please provide well identification and/or descriptions for these samples (e.g., are they duplicates?).

1.1 **U.S. EPA Response:** Samples EARQ8 and MEAFH4 are rinsate blanks obtained from Grundfos pump #110 at Monitoring Well WT117A. Sample EARQ8 was analyzed for VOAs, BNAs, and PCBs. Sample MEAFH4 was analyzed for Metals and Cyanide. Samples EARS0 and MEAFJ4 are "source" water samples analyzed respectively for VOAs, BNAs, and PCBs ( EARS0) and for Metals and Cyanide (MEAFJ4). In the context of the "sample correlation table", the term "source water" refers to the water used for decontaminating equipment by steam cleaning or for decontaminating equipment by hand-scrubbing. For this project the "source water" was a water-main. In accordance with Project SOPs the "source-water" is required to be analyzed. Sample MEAFJ4D was not collected in the field. This sample, and MEAFJ4S,.were included by the Contract Laboratory Program (CLP) laboratory American Analytical and Technical Services, Inc. as part of SDG MEAFH6. This laboratory used aliquots of sample MEAFJ4 for matrix spike (MEAFJ4S) and for matrix spike duplicate (MEAFJ4D) samples. The purpose of sample MEAFJ4D is to satisfy the laboratory's internal QC requirements. As mentioned above, samples EARS0 and MEAFJ4 are taken from the "source water". No field duplicates were obtained for any of the samples described above.

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2 **Comment**: The sample correlation table includes a sample ID, MEAHG2, that appears to be misspelled. No analytical results are presented for the sample and its name is inconsistent with other sample names. In contrast, analytical results are presented for sample MEAFH2W, which is not listed in the correlation table. Please either verify that the sample MEAHG2 is in fact sample MEAFH2, or provide a correct identification.

2.1 **U.S. EPA Response**: Sample MEAHG2 is not a correct sample identifier. Sample MEAHG2 should be correctly labeled MEAFH2. Sample MEAFH2 is for metals/cyanide from Monitoring well WTO1.

3 **Comment**: Analytical results were illegible for several samples, including the following:

| Sample Name | Chemical |
|---|---|
| EARQ3 | Carbon Disulfide |
| EARQ6 | Bis(2-Ethylhexyl)phthalate |
| EARQ7 | Methylene Chloride |
| EARQ9 | Methylene Chloride |
| EARR2 | Methylene Chloride |
| MEAFG1 | Aluminum |
| MEAFG1 | Antimony |
| MEAFG1 | Arsenic |

Please provide me with these sample concentrations.

3.1 **U.S. EPA Response:** The requested sample concentrations are provided below:

| Sample Name | Chemical | Concentration (µg/L) |
|---|---|---|
| EARQ3 | Carbon Disulfide | 2 J |
| EARQ6 | Bis(2-Ethylhexyl)phthalate | 13 |
| EARQ7 | Methylene Chloride | 8 J |
| EARQ9 | Methylene Chloride | 5 J |
| EARR2 | Methylene Chloride | 1 J |
| MEAFG1 | Aluminum | 161 B |
| MEAFG1 | Antimony | 12.8 U |
| MEAFG1 | Arsenic | 3.8 U |

4 **Comment:** Two samples (EARR7 and MEAFJ3) are identified as "rinsate" samples in the sample correlation table. I assume these represent "field blanks" samples that apply to the entire data set. Please confirm this interpretation. Please also provide a brief description of how these samples were generated and indicate how well "WTE1" relates to this sample.

4.1 **U.S. EPA Response:** The "rinsate samples" are rinsate blanks, also called field blanks. Rinsate blanks are samples of de-ionized water that are rinsed over decontaminated pieces of equipment (such as non-dedicated pumps), collected, and submitted to the laboratory for analysis. The purpose of rinsate blanks is to assess the effectiveness of equipment decontamination, and to determine if non-dedicated decontaminated equipment is potentially cross-contaminating samples. Metals, cyanide, VOCs, and BNAs were the categories of compounds tested for at the Himco Superfund site, so rinsate blank samples, (EARR7, EARQ8, MEAFH4, and MEAFJ3), which cover the same list of analytes, were collected to access the effectiveness of equipment decontamination (Grundfos pump #220) and to access the potential for cross-contamination from sampling equipment. The monitoring well designation "WTE1" or any other location does not have any relevance to the collection of rinsate blanks. A rinsate blank may be obtained at any well or at any location, because a particular piece of decontaminated sampling equipment and not a monitoring well is being sampled. Because the sampling equipment (Grundfos pump #220) was in the vicinity of monitoring well WTE1, that is where the rinsate blank was collected. The extent to which sample results are qualified based on the rinsate blanks is discussed in response 6b below.

5 **Comment:** One sample (EARS0) is identified as "source water" in the sample correlation table. I assume this represents water used to prepare either the "field blank" or "trip blank" samples. Please provide a brief description of how this sample was generated, identify the source of the water, and indicate whether it relates to the field or trip blanks.

5.1 **U.S. EPA Response:** As mentioned in U.S. EPA response 1.1, the term "source water" refers to the water used for decontaminating equipment by steam cleaning or for decontaminating equipment by hand-scrubbing. For this project the "source water" was a water-main. A source water sample is collected from the water-main by the same sampling SOPs used to sample a monitoring well. The source water sample does not relate to a field or trip blank in any manner. The trip-blanks used for U.S. EPA projects are prepared at the Missouri River Laboratory from analyte-free (de-ionized) water.

6 **Comment:** The information package I received suggests than an initial quality assurance (QA) review was conducted, consisting of an evaluation of laboratory blanks, initial and continuing calibrations, and matrix spike recoveries. Certain sample data appear to have been qualified on the basis of these reviews (e.g., bis(2-Ethylhexyl)phthalate). In other cases, it is not apparent that any data were qualified as a result of the review. For example:

a. There is no indication that any samples in SDG#EARPO were qualified as a result of the "one SVOC calibration outlier." Please confirm whether or not any samples were qualified on this basis and, if so, which samples. Please also indicate whether the "outlier" was an initial or continuing calibration.

b. There is no indication that any data were qualified as a result of contamination in certain trip blank samples. Please confirm whether or not any samples were qualified on this basis and, if so, which samples.

In general, the QA reports do not indicate which samples are potentially affected by a given conclusion. In addition to the preceding two examples, the report for SDG #MEAFG1 indicates that contamination was discovered in the continuing calibration blanks. In this case, I assume that all samples in the SDG are affected, because there is no indication to the contrary. Please confirm this interpretation or provide additional explanation, as appropriate.

6.1 **U.S. EPA Response:** As indicated on the cover sheets of the data packages , the data packages provided were reviewed by U.S. EPA Region V data reviewers. This review focused on analytical quality control acceptance criteria, and applied appropriate qualifiers. Each data package pertains to a particular SDG, and a laboratory narrative is included with the data for each SDG. In the laboratory narrative, the QC parameters out of control are explained, and if any samples are affected those are also listed in the narrative portion as well as on the respective Form I's.

a. The continuing calibration run on 10/25/95 01:03 had benzo(g,h,i)perylene outside of the calibration criteria. The results for benzo(g,h,i)perylene in the following samples are considered estimated (J) for positive results or estimated (UJ) for non-positive quantitation limits: EARP1, EARP2, EARP4 and EARP5. For SDG EARR3, the continuing calibration run on 09/29/95 14:31 had acetone outside of the calibration criteria. The results for acetone in the following samples are considered estimated (J) for positive results or estimated (UJ) for non-positive quantitation limits: EARQ8, EARR0, EARR1, EARR4, EARR5, EARR6, EARR7, EARR8 and EARR9. The continuing calibration run on 10/02/95 08:38 had carbon tetrachloride and tetrachloroethene outside of the calibration criteria. The results for carbon tetrachloride and tetrachloroethene in the following samples are considered estimated (J) for positive results or estimated (UJ) for non-positive quantitation limits: EARS0 and EARS1. The continuing calibration run on 11/01/95 10:13 had 2,2-oxybis(1-chloropropane), 2,4-dinitrophenol and pentachlorophenol outside of the calibration criteria. The results for 2,2-oxybis(1-chloropropane), 2,4-dinitrophenol and pentachlorophenol in the following samples are considered estimated (J) for positive results or estimated (UJ) for non-positive quantitation limits: EARQ8, EARR0, EARR1, EARR3, EARR4, EARR5, EARR6 and EARR7.

b. The ESAT data review does not qualify samples for field blank contamination. This is generally done by the contractor (in this case the Corps of Engineers) in the course of interpreting the results in the investigation report. As explained in response 4 above, the term "rinsate blank" usually refers to the a sample taken of distilled water rinsed through the sampling device (pump or trowel) after it has been decontaminated.

Contamination in a rinsate blank indicates that the sampling device was not properly decontaminated, and that samples taken using the same sampling device may have been contaminated by previous samples. However, before making the assumption that contamination was caused from poor sampling techniques, one must first look at the trip blank to determine if the samples were contaminated during transportation. Attachment A summarizes the field blank contamination present at the Himco Site. The field blanks were analyzed for the volatiles only and the rinsate blanks (EARQ8 and EARR7) were non-detects in both the semivolatile and pesticide/pcb fractions, therefore contamination is limited to the volatile fraction. The following samples were affected by methylene chloride contamination in the trip and rinsate blanks, and should be considered non-detected, "U" for methylene chloride with a detection limit of 10$\mu$g/L: EARQ7, EARQ6, EARR3, EARR5, EARR4, EARQ9, EARR0, EARR6, EARR1 AND EARS0. Since acetone was only found in the rinsate and trip blanks, and not in any of the associated samples, no qualification of the samples is needed. Sample EARS0 was affected by chloroform contamination in the rinsate blanks, therefore in sample EARS0, chloroform should be considered non-detected, "U" with a detection limit of 10$\mu$g/L. Sample EARS0 was affected by bromodichloromethane contamination in the rinsate blanks, therefore in sample EARS0, bromodichloromethane should be considered non-detected, "U" with a detection limit of 10$\mu$g/L. Samples EARQ1 and EARQ0 were affected by 1,2-dichloropropane contamination in the rinsate blanks, therefore in samples EARQ1 and EARQ0, 1,2-dichloropropane should be considered non-detected, "U" with a detection limit of 10$\mu$g/L. Since 4-methyl-2-pentanone was only found in the trip blank EARR9, and not in any of the associated samples, no qualification of the samples is needed.

Two field blanks ( MEAFJ3 and MEAFH4) are associated with SDG# MEAFG1, inorganic samples. The following analytes were detected in these blanks and affected some of the investigative samples as indicated below. However, data are not qualified on this basis because all of those results are qualified (J) based on preparation and continuing blank contamination (see reviewer narrative).

| MEAFJ3 | MEAFH4 |
|---|---|
| Al- 116 ug/l | Al- 204 ug/l |
| Cu- 10 ug/l | Fe- 14.6 ug/l |
| Fe- 18.4 ug/l | Mn- 1.2 ug/l |
| Mn- 1.2 ug/l | Ni- 11.2 ug/l |
| Na- 307 ug/l | K - 190 ug/l |
| Tl- 7.5 ug/l | Na- 1290 ug/l |
| Zn- 4.3 ug/l | Zn- 3.4 ug/l |

All Al data; Cu results on MEAFG2, G6, H8, J0-1; Fe results on MEAFG1, G3, G6 and H2; Mn results on MEAFG1 and G3; Ni results on MEAFG3, G6, G7, G9, H1, H3, H8-H9, J0, and J01; Na results on MEAFG1, H3; Tl results on MEAFG2, G5, G7; all Zn data are affected except on MEAFG8, H0, and H5.

7 **Comment:** There is no indication that analytical data regarding field blanks were reviewed and that any data were qualified as a result. Please confirm whether or not any samples were qualified on this basis and, if so, which samples.

7.1 **U.S. EPA Response:** Please see response 6.1b above, and Attachment A.

I trust these responses clarify the data reports for you. I expect this pre-design investigation to be final by the end of March, and will forward copies to you and the other major potentially responsible parties (PRP).

Sincerely yours,

Wm. Turpin Ballard, CHMM
Remedial Project Manager

Attachment

cc: Greg Herring, USACE

Attachment A
Summary of B Contamination
Himco Dump Site
September, 1995 Sampling

| Sample | Type | Sampling Date | Sampling Time | Methylene Chloride | Acetone | Chloroform | Bromodichloro Methane | 1,2-dichloro Propane | 4-Methyl-2-Pentanone |
|---|---|---|---|---|---|---|---|---|---|
| EARP0 | TRIP BL | 09/18 | 09:00 | | | 0.9µg/L | | | |
| EARP1 | SAMPLE | 09/18 | 12:45 | | | | | | |
| EARP2 | SAMPLE | 09/18 | 16:25 | | | | | | |
| EARP3 | TRIP BL | 09/19 | 07:50 | | | 0.9µg/L | | | |
| EARP4 | SAMPLE | 09/19 | 09:50 | | | | | | |
| EARP5 | SAMPLE | 09/19 | 16:10 | | | | | | |
| EARP7 | TRIP BL | 09/20 | 10:50 | | | 0.8µg/L | | | |
| EARP6 | SAMPLE | 09/20 | 13:20 | | | | | | |
| EARP8 | SAMPLE | 09/20 | 14:36 | | | | | | |
| EARP9 | TRIP BL | 09/21 | 08:11 | | | 0.7µg/L | | | |
| EARQ1 | SAMPLE | 09/21 | 10:25 | | | | | 4µg/L | |
| EARQ2 | SAMPLE | 09/21 | 10:35 | | | | | | |
| EARQ0 | DUPL | 09/21 | 12:00 | | | | | 4µg/L | |
| EARQ4 | SAMPLE | 09/21 | 14:10 | | | | | | |
| EARQ3 | SAMPLE | 09/21 | 15:00 | | | | | | |
| EARQ5 | TRIP BL | 09/22 | 08:20 | 10µg/L | | | | | |
| EARQ7 | SAMPLE | 09/22 | 11:50 | 5µg/L | | | | | |
| EARQ6 | SAMPLE | 09/22 | 12:03 | 8µg/L | | | | | |
| EARR8 | TRIP BL | 09/25 | 07:40 | 2µg/L | 4µg/L | | | | |
| EARR3 | SAMPLE | 09/25 | 10:52 | 0.7µg/L | | | | | |
| EARR5 | DUPL | 09/25 | 12:00 | 2µg/L | | | | | |
| EARR2 | SAMPLE | 09/25 | 12:01 | 0.9µg/L | | | | | |
| EARR4 | SAMPLE | 09/25 | 14:46 | 1µg/L | | | | | |
| EARQ9 | SAMPLE | 09/25 | 15:01 | 1µg/L | | | | | |
| EARR9 | TRIP BL | 09/26 | 08:00 | 1µg/L | 4µg/L | | | | 1µg/L |

Attachment A
Summary of B. Contamination
Himco Dump Site
September, 1995 Sampling

| Sample | Type | Sampling Date | Time | Methylene Chloride | Acetone | Chloroform | Bromodichloro Methane | 1,2-dichloro Propane | 4-Methyl-2-Pentanone |
|---|---|---|---|---|---|---|---|---|---|
| EARP0 | TRIP BL | 09/18 | 09:00 | | | 0.9µg/L | | | |
| EARP1 | SAMPLE | 09/18 | 12:45 | | | | | | |
| EARP2 | SAMPLE | 09/18 | 16:25 | | | | | | |
| EARP3 | TRIP BL | 09/19 | 07:50 | | | 0.9µg/L | | | |
| EARP4 | SAMPLE | 09/19 | 09:50 | | | | | | |
| EARP5 | SAMPLE | 09/19 | 16:10 | | | | | | |
| EARP7 | TRIP BL | 09/20 | 10:50 | | | 0.8µg/L | | | |
| EARP6 | SAMPLE | 09/20 | 13:20 | | | | | | |
| EARP8 | SAMPLE | 09/20 | 14:36 | | | | | | |
| EARP9 | TRIP BL | 09/21 | 08:11 | | | 0.7µg/L | | | |
| EARQ1 | SAMPLE | 09/21 | 10:25 | | | | | 4µg/L | |
| EARQ2 | SAMPLE | 09/21 | 10:35 | | | | | | |
| EARQ0 | DUPL | 09/21 | 12:00 | | | | | 4µg/L | |
| EARQ4 | SAMPLE | 09/21 | 14:10 | | | | | | |
| EARQ3 | SAMPLE | 09/21 | 15:00 | | | | | | |
| EARQ5 | TRIP BL | 09/22 | 08:20 | 10µg/L | | | | | |
| EARQ7 | SAMPLE | 09/22 | 11:50 | 5µg/L | | | | | |
| EARQ6 | SAMPLE | 09/22 | 12:03 | 8µg/L | | | | | |
| EARR8 | TRIP BL | 09/25 | 07:40 | 2µg/L | 4µg/L | | | | |
| EARR3 | SAMPLE | 09/25 | 10:52 | 0.7µg/L | | | | | |
| EARR5 | DUPL | 09/25 | 12:00 | 2µg/L | | | | | |
| EARR2 | SAMPLE | 09/25 | 12:01 | 0.9µg/L | | | | | |
| EARR4 | SAMPLE | 09/25 | 14:46 | 1µg/L | | | | | |
| EARQ9 | SAMPLE | 09/25 | 15:01 | 1µg/L | | | | | |
| EARR9 | TRIP BL | 09/26 | 08:00 | 1µg/L | 4µg/L | | | | 1µg/L |

**APPENDIX B**
**Ground Water Monitoring Report by**
**EIS Environmental Engineers, Inc.**

# FIELD OBSERVATIONS
# SPLIT-SAMPLING & ANALYSES
# U.S. ARMY CORPS OF ENGINEERS
# HIMCO DUMP SITE
# ELKHART, INDIANA

**OCTOBER 19, 1995**

**PREPARED FOR**
**BAYER CORPORATION**

**PREPARED BY**
**EIS ENVIRONMENTAL ENGINEERS, INC.**
**1701 NORTH IRONWOOD DRIVE**
**SOUTH BEND, INDIANA 46635**

J. C. Sporleder, C.P.G.
Project Geologist

Andris Rozite, Vice President
Laboratory Director

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## APPENDICES

**APPENDIX**

A LABORATORY ANALYSIS REPORTS AND MATRIX SPIKE RESULTS

B CHAIN-OF-CUSTODY RECORDS

C SAMPLE LOGS

D FIELD OBSERVATION/SPLIT-SAMPLING REPORTS

## 1.0 INTRODUCTION

EIS Environmental Engineers, Inc. (EIS) was retained by Bayer Corporation to provide Bayer specified environmental services at the Himco Dump Site, Elkhart Indiana. These services were to be performed in conjunction with a monitoring well sampling program conducted by the Omaha District of the United States Army Corps of Engineers (USACE), acting as contractors for Region V EPA.

The services provided by EIS consisted of the following:

- Observe and record USACE field sampling activities. Evaluate whether these complied with the Final Work Plan, Himco Dump Super Fund Site, July 1995 as prepared for USEPA Region V.
- Provide containers for the collection (by USACE) of split samples and transport these samples to the EIS laboratory.
- Analyze the split samples for Work Plan specified tests using procedures (methods) adhering to those specified in the Plan.
- Provide a written report documenting field observations and laboratory analysis results.

The sampling activities at the Himco Dump Site occurred during September 18 through September 26, 1995. Depending upon sampling progress by USACE, either one or two EIS geologists were on-site during this time period. The following schedule lists the dates and monitoring wells sampled by USACE:

| Date | # Wells | Well/Sample Descriptions (WT) |
|---|---|---|
| 9-18-95 | 2 | 113A, 113B |
| 9-19-95 | 2 | 112A, 112B |
| 9-20-95 | 2 | 102A, 102B |
| 9-21-95 | 4 | 114A, 114B, 116A, Field Duplicate, 116B |
| 9-22-95 | 2 | 01, 111A |
| 9-25-95 | 4 | 118B, 115A, 101A, 101B, Field Duplicate, |
| 9-26-95 | 3 | E1, 117A, 117B |

Field Equipment Rinse Blanks, Trip Blanks and extra sample volumes for two (2) sets of Matrix Spike/Duplicate Matrix Spike were also obtained during the project.

## 2.0 FIELD OBSERVATIONS

### 2.1 General Description of Procedures

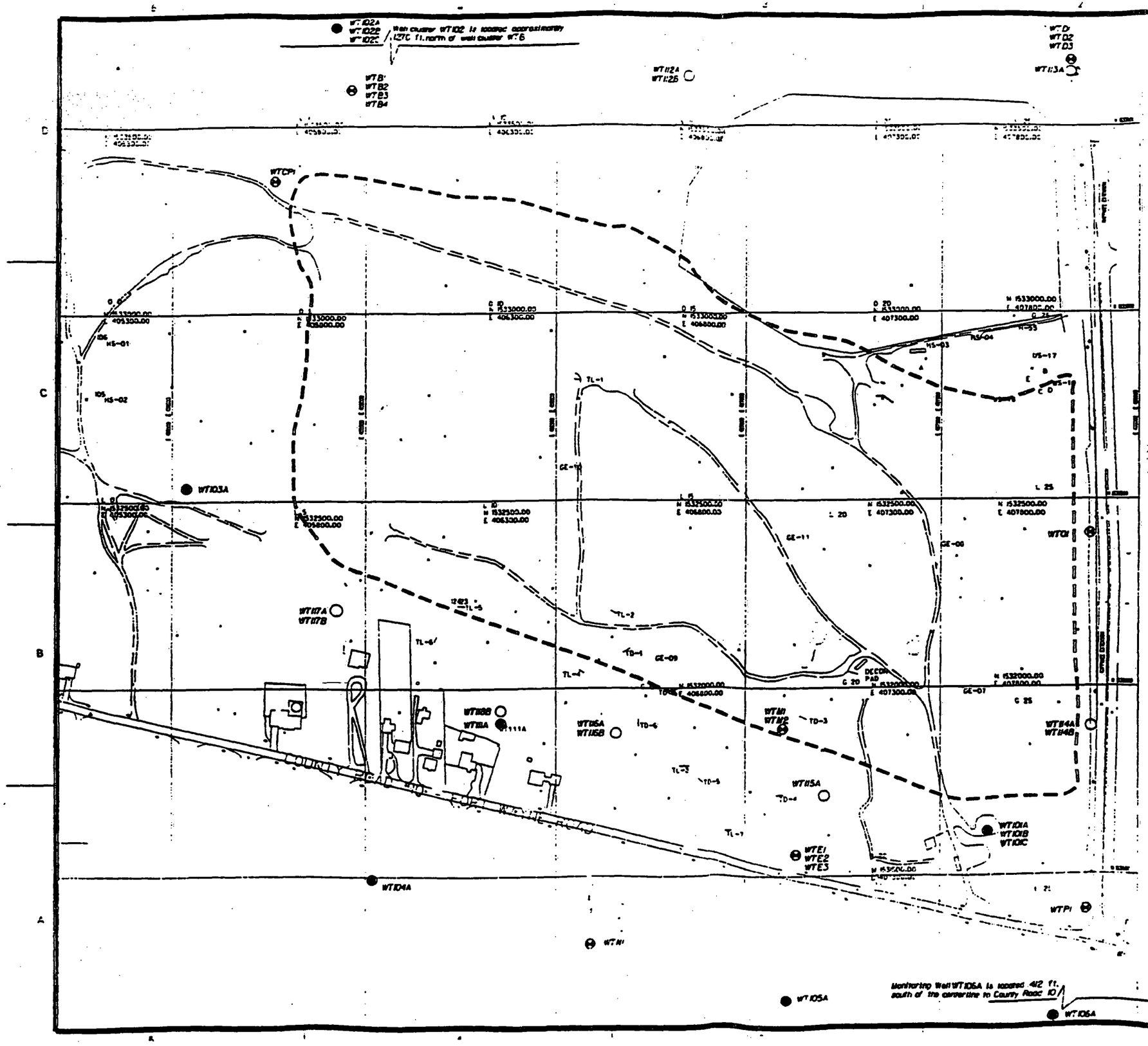
The USACE sampling activities were observed by at least one of the following EIS geologists: J.C. Sporleder, C.P.G., and Mike Martorano. Field observations regarding sampling procedures were recorded in the field by the EIS observers. Reports documenting these observations on a well-by-well basis are provided in Appendix D. Monitoring well locations are shown in Figure 2.1, a site map provided by USACE.

The sampling team consisted of the following five USACE employees from the Omaha, Nebraska office:

Michelle Benak (Team Leader)
Steve Pearson
Joni Rhiner
Scott Schneider
Carolyn Schwafel

The following USACE procedures were observed to generally occur at each well:

- The sampling team, which varied in number from two to five at each well, delineated a work zone with caution tape around the well area. Sampling equipment was placed on plastic sheeting. The samplers donned Tyvek coveralls and a double layer of disposable nitrile gloves. The well cap was opened, and the air near the well was scanned with a HNU photoionization detector (PID) and an explosion meter.




N

LEGEND

- Approximate Landfill Limits
- WT101A — Existing RI Monitoring Well
- WT01 — Existing USGS Monitoring Well
- WT84A — Proposed Monitoring Well

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**Figure 2.1**
Site Map Showing Monitoring Well Locations.
(Map provided by US Army Corps of Engineers)

SS - THINK VALUE ENGINEERING - SS

US ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
OMAHA, NEBRASKA

HIMCO DUMP SUPERFUND SITE
EXISTING AND PROPOSED MONITORING WELL LOCATIONS
FIGURE 4-1

Date: JULY 1995

- The static water level was checked and a minimum of five (5) well volumes were purged using a Grundfos submersible pump fitted with Teflon-lined PVC tubing and plastic coated wiring and support cable. The pump for purging and sampling was powered by a gasoline generator placed outside of the work zone. The purge water was tested for stabilization with a QED "Purge Saver" in-line field meter for pH, conductivity, DO and temperature and with either a HF scientific or a LaMotte turbidity meter at discharge.

- After purging, the samplers donned new gloves and reduced the flow rate of the groundwater pumped from the well. The USACE samplers collected, in this order, vials, quart amber and plastic containers. Like types of EIS sample containers were filled at the same time as the USACE containers by the sampling crew. The EIS split samples were handed out of the work zone to the EIS observer and chain-of-custody records were signed by both the USACE sampler and EIS observer. The USACE vials and plastic containers were pre-preserved at some wells and preserved before packing in coolers at other wells. The EIS vials and plastic containers had been pre-preserved by the EIS laboratory.

- The metal samples were not filtered in the field. The samplers routinely used vial caps as cups to "top off" the USACE vial samples. At EIS' request, the vial caps for the EIS split samples were not used as cups. Both the USACE and the EIS vials were checked to be sure they did not contain bubbles. Sample containers were placed into plastic bags and then into an iced cooler.

- Equipment decontamination procedures consisted of a liquinox detergent wash in a plastic tray, a distilled water rinse in a plastic tray and a deionized water spray from a plastic sprayer with a metal wand. The water level indicator was cleaned as it was pulled from the well with a detergent soaked

paper towel followed by a rinse with a distilled water soaked paper towel. The pump was taken apart during decontamination. Equipment was placed into plastic bags after decontamination.

- All decontamination and purge liquids were contained in plastic totes on the USACE trucks for later pumping into a 4,000-gallon holding tank on site.

Extra sample volumes for matrix/duplicate matrix spiking were collected from wells WT101A and WT112A. Field Duplicates were collected at wells WT101B and WT116A. Field equipment rinse blanks were collected from decontaminated sampling equipment after use at WTE1 and WT117A.

In addition to the routine procedures documented in the Field Observation/Split Sampling Reports (see Appendix D), certain activities, procedures or incidents were occasionally noted that might have the potential for possible impact on the subsequent laboratory results. These items are summarized in Table 2.1.

**TABLE 2.1**
**SUMMARY TABLE**
**FIELD OBSERVATIONS**

| Well/Sample I.D. | Observed Item |
|---|---|
| All Samples | • The purge and sampling equipment used a gasoline powered generator. The USACE sampling team generally took care to prevent cross contamination; however, the presence of gasoline at the sampling site and exhaust from the generator, generally placed 15 to 30 feet from the well, could be a possible contaminant source. Specific items of concern regarding the use of generators are provided elsewhere in this table. |
| All USACE Samples | • USACE vial caps were routinely used as caps to "top off" USACE sample vials. Although the samplers wore new gloves during sampling activities, the use of the caps as cups might allow the sample water to contact the plastic gloves prior to entry into the vial. The possibility for contamination exists if the sampler touches any other object prior to sample collection or if the gloves themselves are contaminated. However, the caps used for the EIS split samples were not used as cups. Therefore, the EIS split sample results might serve as a check for this item of concern. |
| FERB1 | • The flow rate for the field equipment rinse blank was higher than that used for well samples. This higher flow rate agitated the sample water which might have volatilized VOCs, if present.<br>• Two caps for USACE vials were dropped on the ground during the collection of FERB1. The first cap dropped was discarded and replaced with a new vial and cap. However, the second cap dropped was used on the sample vial. |
| FERB2 | • The flow rate for the field equipment rinse blank was higher than that used for well samples. This higher flow rate agitated the sample water which might have volatilized VOCs, if present. |
| WT01 | • Well was flush mounted and tubing contacted weeds and tall grass near well during pump placement. |
| WT102A | • Knife used to cut end of sample tubing was not decontaminated, but pulled directly from the sampler's pocket.<br>• Sample tubing at times contacted metal well cover. |

TABLE 2.1 (Continued)
SUMMARY TABLE
FIELD OBSERVATIONS

| Well/Sample I.D. | Observed Item |
|---|---|
| WT102B | • Pump encountered obstructions at various depths and had to be "bounced" to allow passage to greater depths. |
| WT112B | • Pump tubing touched bollards, procover and ground during pump placement. |
| W113A | • End of sampling tube touched ground, but was sprayed with deionized water prior to sample collection.<br>• A black liquid flowed from the pump chamber during decon after sampling this well. A USACE sampler indicated the chamber was supposed to contain deionized water and suggested that the black liquid resulted from degradation of internal pump parts. Note that well WT113A was the first well sampled during the September sampling event and that liquid observed from pump chambers during later decon at other wells appeared light gray to clear. |
| W113B | • The sample tubing occasionally touched the sampler's boots and the edge of the containment bucket.<br>• Samplers walked on same plastic sheeting later used to lay sample tubing coil on prior to installation in well. Note that well WT113B was the second well sampled during the September sampling event and that the samplers were generally careful to not step on plastic sheeting during the later sampling of other wells.<br>• The well was found uncapped (but locked) at the start of activities at this well.<br>• Wind direction was variable and, at times, the generator, located at a distance of about 25 feet, was upwind of the well. |
| WT114A | • This well is close to a busy road and, at times, exhaust fumes from passing traffic were strong. |
| WT114B | • This well is close to a busy road and, at times, exhaust fumes from passing traffic were strong.<br>• Pump tubing contacted well bollards during pump placement. |
| WT116A | • Wind direction was variable, and a USACE sampler indicated higher PID results in air about 10 to 15 feet northeast of well. The generator was about 20 feet northeast of well. |

**TABLE 2.1 (Continued)**
**SUMMARY TABLE**
**FIELD OBSERVATIONS**

| Well/Sample I.D. | Observed Item |
|---|---|
| WT116B | • Wind direction was variable and, at times, the generator, located about 20 feet northwest of well, was upwind of well. However, strings hung in trees indicated still air during the collection of the vial samples.<br>• Sample tubing touched bollards during pump placement.<br>• Samples were collected during a steady drizzle to light rain. |
| WT118B | • USACE sampler reported smelling exhaust at the well during purge when the generator was 20 feet northwest of well. The position of the generator was shifted to about 20 feet north of well prior to and during sample collection. The general wind direction appeared to be from the south/southwest. |

## 2.2 Summary and Conclusions of Field Sampling Procedures

No major departures from the sampling and analysis plan were noted. Minor sampling digressions from procedures normally employed by EIS were noted but may not be of concern except at WT116A (see discussion in Section 3.2 for VOC).

## 3.0 LABORATORY ANALYSES

### 3.1 Narrative

Samples were delivered to the EIS laboratory each day that they were collected. Log-in occurred on the day of collection unless delivery was past normal work hours.

The samples were logged into the laboratory for those tests specified in Table 9.1 of the Final Quality Assurance Project Plan, July 1995. Specifically, these tests were as follows:

| Analysis* | Required Method* |
|---|---|
| TCL Volatile Organic Compounds | CLP SOW OLM03.1 |
| TCL Semi-Volatile Organic Compounds | CLP SOW OLM03.1 |
| TCL Pesticides/Arochlors | CLP SOW OLM03.1 |
| TAL Metals/Cyanide (Total) | CLP SOW ILM03.0 |
| * TCL = Target Compound List | |
| TAL = Target Analyte List | |
| CLP = Contract Laboratory Program | |
| SOW = Statement of Work | |

Samples were stored at 4°C in a walk-in cooler, either while awaiting log-in or while awaiting testing. All testing requirements were performed within legal holding times. Table 3.1 summarizes various information including EIS lab numbers, dates received, extracted and analyzed.

No difficulties were experienced in the analysis of these samples.

Analysis procedures adhered to the CLP requirements as much as possible. Deviations from CLP protocols were as follows:

- Initial and Continuing Calibration Levels for Organics

CLP specified concentration levels were not used. The CLP levels are much higher than those normally employed by EIS, and would result in system contamination and carryover (memory) affecting the next sample. Calibration levels used are as follows for TCL Volatile Organics and TCL Semi-Volatile Organics for initial and daily requirements.

| | VOC (µg/l) | | SVOC (ng) | |
|---|---|---|---|---|
| Level | CLP | EIS | CLP | EIS |
| 1 | 10 | 2 | 20 | 0.2 |
| 2 | 20 | 10 | 50 | 0.5 |
| 3 | 50 | 25 | 80 | 1.0 |
| 4 | 100 | 50 | 120 | 2.0 |
| 5 | 200 | 100 | 160 | 5.0 |
| 6 | --- | --- | --- | 10 |
| 7 | --- | --- | --- | 20 |
| 8 | --- | --- | --- | 50 |
| 9 | --- | --- | --- | 100 |
| Daily | 50 | 20 | 50 | 5 |

- ICP Standard Levels and Mixtures

CLP recommends various mixes containing specified metals.

EIS employs commercially available ICP metals mixes which are different from those specified in CLP.

| | |
|---|---|
| ♦ Pesticide/Arochlor Analysis | CLP specifies use of dual-column capillary Gas Chromatography/Electron Capture (GC/EC) techniques.<br><br>EIS procedure is dual-column capillary Gas Chromatography using Electron Capture and Hall Electrolytic Conductivity Detectors. We employ the Hall Detector to ensure that the Electron Capture response is in fact due to Chlorinated Compounds (Hall is specific to chlorinateds while EC is not.)<br><br>The GC columns used by EIS are:<br>*EC* - DB-5, 30m x 0.45mm, 0.42 µm film (J & W)<br>***Hall*** - DB-1701, 30m X 0.53mm ID, 0.5µm film (J & W) |
| ♦ TCL Semi-Volatile Extractions | CLP specifies continuous liquid-liquid extraction.<br><br>EIS uses separatory funnel liquid-liquid extraction. |

## 3.2 Analytical Result Summary Tables

Analytical data for all 19 samples, as well as some supporting data, is summarized in various tables in this section. Actual Laboratory Analysis Reports are enclosed as Appendix A. Matrix Spike/Duplicate Spike results are also in this Appendix.

A brief discussion of the laboratory data is as follows:

*Metals/Cyanide*

Results at or above Contract Required Detection Limits (CRDL) were noted in various samples for the following:

| Metal | # Above CRDL | Highest Value (µg/l) |
|---|---|---|
| Aluminum | 2 | 5,340 |
| Arsenic | 1 | 11 |
| Barium | 2 | 304 |
| Calcium | 19 | 580,000 |
| Iron | 15 | 20,000 |
| Lead | 12 | 13 |
| Magnesium | 19 | 57,400 |
| Manganese | 17 | 818 |
| Potassium | 8 | 38,000 |
| Selenium | 17 | 18 |
| Sodium | 9 | 210,000 |
| Thallium | 1 | 30 |
| Zinc | 1 | 38 |

*Volatile Organic Compounds (VOC)*

One sample (WT116A), and its Field Duplicate, exhibited the presence of VOC above Contract Required Quantitation Limits (CRQL). This sample showed the presence of Benzene at 16µg/l. This sample is also the one where USACE monitored higher background PID readings (see Table 2.1, page 8).

Various wells exhibited VOC response at levels below CRQL. Both Target Compounds and Non-Target Compounds appear to be present.

Sample pH was checked (after analysis) to verify effectiveness of the Hydrochloric Acid preservative (added by EIS prior to field departure). All samples were less than pH = 2 except the following:

| Sample | pH |
|---|---|
| WT102A | 6 |
| WT102B | 6 |
| WT116A | 6 |
| Field Duplicate | 6 |
| WT118B | 3 |

*Semi-Volatile Organic Compounds (SVOC)*

No TCL Semi-Volatile Organics were present at or above CRQL. Sample WT116A and its Field Duplicate indicated the possible presence of low level (below 10 µg/l) SVOC.

*Pesticides/Arochlors*

One sample (WT111A) exhibited a response on both detectors for a TCL Pesticide. The compound BHC-Gamma (Lindane) was found at 0.052 µg/l.

No confirmation by GC/MS was possible due to the low level of response.

*Trip Blanks (TB)*

These samples were analyzed for TCL VOC. No VOC was present in any trip blank at or above CRQL. These trip blanks were supplied by EIS.

*Field Equipment Rinse Blanks (FERB)*

Trihalomethanes (THM) were detected in both field blanks collected by USACE. THM are associated with a treated (Chlorinated) water supply.

# TABLE 3.1
# QUALITY CONTROL DATA

| | | 1995 | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | EIS | Date | | Date Extracted | | Date Analyzed | | |
| Sample | Number | Sampled | Received | SVOC | PEST/PCB | VOC | SVOC | PEST/PCB |
| WT 113 A | 29113 | 9-18 | 9-19 | 9-20 | 9-21 | 9-21 | 9-27 | 10-03 |
| WT 113 B | 29114 | 9-18 | 9-19 | 9-20 | 9-21 | 9-21 | 9-27 | 10-03 |
| WT 112 A | 29148 | 9-19 | 9-20 | 9-22 | 9-21 | 9-21 | 9-27 | 10-03 |
| WT 112 B | 29149 | 9-19 | 9-20 | 9-22 | 9-21 | 9-21 | 9-27 | 10-06 |
| WT 102 A | 29158 | 9-20 | 9-20 | 9-25 | 9-21 | 9-21 | 9-28 | 10-06 |
| WT 102 B | 29159 | 9-20 | 9-20 | 9-25 | 9-21 | 9-22 | 9-28 | 10-03 |
| WR 114 A | 29207 | 9-21 | 9-21 | 9-25 | 9-26 | 9-22 | 9-28 | 10-06 |
| WT 114 B | 29208 | 9-21 | 9-21 | 9-25 | 9-26 | 9-22 | 9-28 | 10-06 |
| WT 116 A | 29210 | 9-21 | 9-21 | 9-25 | 9-26 | 9-22 | 9-28 | 10-06 |
| WT 116 B | 29212 | 9-21 | 9-21 | 9-25 | 9-26 | 9-22 | 9-28 | 10-06 |
| WT 01 | 29250 | 9-22 | 9-22 | 9-27 | 9-26 | 9-27 | 10-05 | 10-06 |
| WT 111 A | 29265 | 9-22 | 9-22 | 9-27 | 9-26 | 9-27 | 10-05 | 10-10 |
| WT 115 A | 29287 | 9-25 | 9-25 | 9-27 | 9-28 | 9-27 | 10-05 | 10-10 |
| WT 118 B | 29288 | 9-25 | 9-25 | 9-27 | 9-28 | 9-27 | 10-05 | 10-10 |
| WT 101 A | 29290 | 9-25 | 9-25 | 9-27 | 9-28 | 9-27 | 10-05 | 10-10 |
| WT 101 B | 29291 | 9-25 | 9-25 | 9-27 | 9-28 | 9-27 | 10-05 | 10-10 |
| WT E1 | 29326 | 9-26 | 9-26 | 9-29 | 9-28 | 9-28 | 10-06 | 10-10 |
| WT 117 A | 29329 | 9-26 | 9-27 | 9-29 | 9-28 | 9-28 | 10-06 | 10-10 |
| WT 117 B | 29330 | 9-26 | 9-27 | 9-29 | 9-28 | 9-28 | 10-06 | 10-10 |
| FD-1 | 29211 | 9-21 | 9-21 | 9-25 | 9-26 | 9-22 | 9-28 | 10-06 |
| FD-2 | 29292 | 9-25 | 9-25 | 9-27 | 9-28 | 9-27 | 10-05 | 10-10 |
| FERB-1 | 29331 | 9-26 | 9-27 | 9-29 | 9-28 | 9-28 | 10-06 | 10-10 |
| FERB-2 | 29327 | 9-26 | 9-26 | 9-29 | 9-28 | 9-28 | 10-06 | 10-10 |
| TB-1A | 29115 | 9-15 | 9-19 | | | 9-21 | | |
| TB-2A | 29150 | 9-15 | 9-20 | | | 9-22 | | |
| TB-3A | 29160 | 9-15 | 9-20 | | | 9-22 | | |
| TB-4A | 29213 | 9-15 | 9-21 | | | 9-22 | | |
| TB-5A | 29266 | 9-22 | 9-22 | | | 9-27 | | |
| TB-6A | 29289 | 9-22 | 9-25 | | | 9-27 | | |
| TB-7A | 29332 | 9-22 | 9-27 | | | 9-28 | | |
| TB-4B | 29209 | 9-15 | 9-21 | | | 9-22 | | |
| TB-5B | 29251 | 9-22 | 9-22 | | | 9-27 | | |
| TB-6B | 29293 | 9-25 | 9-25 | | | 9-28 | | |
| TB-7B | 29328 | 9-22 | 9-26 | | | 9-28 | | |
| SDG #1 | Blank | 9-19 | 9-19 | | | 9-28 | | |
| SDG #2 | Blank | 9-27 | 9-27 | | | 9-28 | | |

Notes

FD-1 and FD-2 are Field Duplicates of Sample ID: WT 116 A and WT 101 B respectively.
FERB-1 and FERB-2 are Field Equipment Rinse Blanks.
TB stands for Trip Blank, # is the sampling day #, and A is for Team A.
SDG #1 and SDG #2 are Storage Blanks.

## TABLE 3.1 (Continued)
## QUALITY CONTROL DATA

| | | Surrogate Recoveries * | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | EIS | VOC | | | SVOC | | | | | | PEST/PCB | |
| Sample | Number | #1 | #2 | #3 | #1 | #2 | #3 | #4 | #5 | #6 | #1 | #2 |
| WT 113 A | 29113 | 99 | 102 | 99 | 54 | 36 | 88 | 84 | 151 | 74 | 62 | 92 |
| WT 113 B | 29114 | 104 | 104 | 99 | 39 | 25 | 93 | 92 | 130 | 77 | 92 | 31 |
| WT 112 A | 29148 | 99 | 102 | 96 | 53 | 34 | 85 | 78 | 122 | 74 | 72 | 99 |
| WT 112 B | 29149 | 103 | 100 | 99 | 43 | 27 | 80 | 78 | 144 | 73 | 80 | 56 |
| WT 102 A | 29158 | 100 | 104 | 99 | 51 | 32 | 85 | 80 | 120 | 76 | 85 | 96 |
| WT 102 B | 29159 | 103 | 104 | 99 | 46 | 28 | 90 | 81 | 117 | 76 | 92 | 61 |
| WR 114 A | 29207 | 98 | 99 | 92 | 49 | 31 | 91 | 81 | 138 | 76 | 93 | 43 |
| WT 114 B | 29208 | 98 | 98 | 95 | 54 | 34 | 88 | 85 | 127 | 82 | 85 | 15 |
| WT 116 A | 29210 | 101 | 103 | 97 | 56 | 38 | 89 | 79 | 165 | 72 | 90 | 46 |
| WT 116 B | 29212 | 102 | 102 | 96 | 56 | 37 | 96 | 86 | 148 | 76 | 98 | 88 |
| WT 01 | 29250 | 98 | 101 | 93 | 38 | 24 | 88 | 88 | 123 | 74 | 97 | 110 |
| WT 111 A | 29265 | 98 | 100 | 96 | 53 | 33 | 82 | 82 | 127 | 71 | 90 | 81 |
| WT 115 A | 29287 | 92 | 101 | 97 | 51 | 33 | 79 | 82 | 123 | 63 | 90 | 104 |
| WT 118 B | 29288 | 102 | 104 | 100 | 55 | 36 | 81 | 86 | 162 | 81 | 95 | 96 |
| WT 101 A | 29290 | 101 | 102 | 99 | 27 | 18 | 77 | 78 | 93 | 62 | 85 | 81 |
| WT 101 B | 29291 | 99 | 102 | 99 | 53 | 34 | 81 | 84 | 151 | 70 | 94 | 92 |
| WT E1 | 29326 | 102 | 102 | 93 | 56 | 36 | 106 | 103 | 165 | 89 | 91 | 87 |
| WT 117 A | 29329 | 97 | 101 | 95 | 60 | 37 | 104 | 106 | 153 | 87 | 69 | 78 |
| WT 117 B | 29330 | 99 | 98 | 96 | 66 | 42 | 105 | 106 | 184 | 87 | 86 | 89 |
| FD-1 | 29211 | 98 | 102 | 97 | 53 | 36 | 92 | 82 | 158 | 77 | 97 | 57 |
| FD-2 | 29292 | 100 | 103 | 97 | 57 | 36 | 83 | 85 | 141 | 72 | 93 | 95 |
| FERB-1 | 29331 | 102 | 102 | 95 | 64 | 41 | 100 | 100 | 177 | 79 | 86 | 112 |
| FERB-2 | 29327 | 104 | 100 | 94 | 67 | 43 | 107 | 106 | 201 | 93 | 74 | 107 |
| TB-1A | 29115 | 101 | 103 | 95 | | | | | | | | |
| TB-2A | 29150 | 100 | 102 | 95 | | | | | | | | |
| TB-3A | 29160 | 102 | 102 | 100 | | | | | | | | |
| TB-4A | 29213 | 100 | 102 | 94 | | | | | | | | |
| TB-5A | 29266 | 95 | 102 | 95 | | | | | | | | |
| TB-6A | 29289 | 103 | 103 | 96 | | | | | | | | |
| TB-7A | 29332 | 98 | 102 | 100 | | | | | | | | |
| TB-4B | 29209 | 102 | 100 | 95 | | | | | | | | |
| TB-5B | 29251 | 96 | 102 | 100 | | | | | | | | |
| TB-6B | 29293 | 98 | 103 | 96 | | | | | | | | |
| TB-7B | 29328 | 101 | 102 | 95 | | | | | | | | |
| SDG #1 | Blank | 97 | 103 | 99 | | | | | | | | |
| SDG #2 | Blank | 100 | 102 | 93 | | | | | | | | |

Notes

* Surrogate compound identities can be found in the Laboratory Analysis Reports in Appendix A.

# TABLE 3.2
# LABORATORY ANALYSIS SUMMARY
# METALS/CYANIDE

| Analyte | CRDL[2] (µg/l) | Monitoring Wells (WT) (µg/l)[1] | | | | | |
|---|---|---|---|---|---|---|---|
| | | 113 A | 113 B | 112 A | 112 B | 102 A | 102 B |
| Aluminum | 200 | <200 | <200 | <200 | <200 | <200 | <200 |
| Antimony | 60 | <60 | <60 | <60 | <60 | <60 | <60 |
| Arsenic | 10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Barium | 200 | <200 | <200 | <200 | <200 | <200 | <200 |
| Beryllium | 5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Cadmium | 5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Calcium | 5000 | 45,300 | 97,000 | 190,000 | 71,400 | 170,000 | 67,100 |
| Chromium | 10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Cobalt | 50 | <50 | <50 | <50 | <50 | <50 | <50 |
| Copper | 25 | <25 | <25 | <25 | <25 | <25 | <25 |
| Iron | 100 | <100 | 622 | <100 | 2750 | <100 | 493 |
| ad | 3 | <3 | <3 | 9 | 4 | <3 | <3 |
| agnesium | 5000 | 11,200 | 22,900 | 14,200 | 21,800 | 16,200 | 21,900 |
| Manganese | 15 | <15 | 127 | <15 | 115 | 21 | 79 |
| Mercury | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Nickel | 40 | <40 | <40 | <40 | <40 | <40 | <40 |
| Potassium | 5000 | <5000 | <5000 | <5000 | <5000 | <5000 | <5000 |
| Selenium | 5 | 8 | 7 | 18 | 6 | <5 | <5 |
| Silver | 10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Sodium | 5000 | 6,100 | 12,500 | 10,800 | 20,200 | 50,000 | 27,700 |
| Thallium | 10 | 30 | 29 | 14 | 21 | 20 | 14 |
| Vanadium | 50 | <50 | <50 | <50 | <50 | <50 | <50 |
| Zinc | 20 | <20 | <20 | <20 | 38 | <20 | <20 |
| Cyanide | 10 | <10 | <10 | <10 | <10 | <10 | <10 |

Notes

1. A less than (<) sign means below CRDL.
2. CRDL = Contract Required Detection Limit.

## TABLE 3.2 (Continued)
## LABORATORY ANALYSIS SUMMARY
## METALS/CYANIDE

| | | Monitoring Wells (WT) (µg/l)[1] | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Compound | CRDL[2] (µg/l) | 114 A | 114 B | 116 A | 116 B | 01 | 111 A | 118 B |
| Aluminum | 200 | <200 | <200 | <200 | <200 | <200 | 336 | <200 |
| Antimony | 60 | <60 | <60 | <60 | <60 | <60 | <60 | <60 |
| Arsenic | 10 | 11 | <10 | <10 | <10 | <10 | <10 | <10 |
| Barium | 200 | 216 | <200 | <200 | <200 | <200 | <200 | 304 |
| Beryllium | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Cadmium | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Calcium | 5000 | 280,000 | 230,000 | 580,000 | 200,000 | 110,000 | 6,740 | 360,000 |
| Chromium | 10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Cobalt | 50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 |
| Copper | 25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 |
| n | 100 | 20,000 | 13,200 | 6,670 | 2,230 | <100 | 1,590 | 9,200 |
| ad | 3 | 7 | 5 | <3 | 3 | <3 | 3 | 4 |
| Magnesium | 5000 | 23,900 | 29,600 | 57,400 | 34,300 | 25,900 | <5000 | 30,600 |
| Manganese | 15 | 312 | 144 | 469 | 167 | 177 | 175 | 57 |
| Mercury | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Nickel | 40 | <40 | <40 | <40 | <40 | <40 | <40 | <40 |
| Potassium | 5000 | 5,700 | 5,000 | 38,000 | 7,800 | <5000 | <5000 | 18,000 |
| Selenium | 5 | 10 | 7 | 9 | <5 | <5 | <5 | <5 |
| Silver | 10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Sodium | 5000 | 140,000 | 26,900 | 210,000 | 40,900 | 11,700 | <5000 | 81,800 |
| Thallium | 10 | <10 | <10 | 14 | 12 | 13 | <10 | <10 |
| Vanadium | 50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 |
| Zinc | 20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 |
| Cyanide | 10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |

Notes

1. A less than (<) sign means below CRDL.
2. CRDL = Contract Required Detection

## TABLE 3.2 (Continued)
## LABORATORY ANALYSIS SUMMARY
## METALS/CYANIDE

| Analyte | CRDL[2] (µg/l) | Monitoring Wells (WT) (µg/l)[1] | | | | | |
|---|---|---|---|---|---|---|---|
| | | 101 A | 101 B | E1 | 117 A | 117 B | 115 A |
| Aluminum | 200 | <200 | <200 | <200 | 5,340 | <200 | <200 |
| Antimony | 60 | <60 | <60 | <60 | <60 | <60 | <60 |
| Arsenic | 10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Barium | 200 | <200 | <200 | <200 | <200 | <200 | <200 |
| Beryllium | 5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Cadmium | 5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Calcium | 5000 | 260,000 | 140,000 | 150,000 | 51,100 | 110,000 | 210,000 |
| Chromium | 10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Cobalt | 50 | <50 | <50 | <50 | <50 | <50 | <50 |
| Copper | 25 | <25 | <25 | <25 | <25 | <25 | <25 |
| Iron | 100 | 12,300 | 3,100 | 3,470 | 1,460 | 1,280 | 1,050 |
| Lead | 3 | 6 | 7 | 4 | 10 | 13 | <3 |
| Magnesium | 5000 | 24,000 | 46,300 | 38,400 | 9,550 | 21,100 | 26,400 |
| Manganese | 15 | 818 | 36 | 127 | 193 | 50 | 306 |
| Mercury | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Nickel | 40 | <40 | <40 | <40 | <40 | <40 | <40 |
| Potassium | 5000 | 8,200 | <5000 | 5,200 | <5000 | <5000 | 6,300 |
| Selenium | 5 | 16 | <5 | <5 | <5 | <5 | <5 |
| Silver | 10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Sodium | 5000 | 41,600 | 44,300 | 17,600 | <5000 | 12,100 | 41,200 |
| Thallium | 10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Vanadium | 50 | <50 | <50 | <50 | <50 | <50 | <50 |
| Zinc | 20 | <20 | <20 | <20 | <20 | <20 | <20 |
| Cyanide | 10 | <10 | <10 | <10 | <10 | <10 | <10 |

Notes

1. A less than (<) sign means below CRDL.
2. CRDL = Contract Required Detection Limit.

# TABLE 3.3
# LABORATORY ANALYSIS SUMMARY
# VOLATILE ORGANIC COMPOUNDS

| Compound | CRQL[2] (µg/l) | Monitoring Wells (WT) (µg/l)[1] | | | | | |
|---|---|---|---|---|---|---|---|
| | | 113 A | 113 B | 112 A | 112 B | 102 A | 102 B |
| Chloromethane | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Bromomethane | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Vinyl Chloride | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Chloroethane | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Methylene Chloride | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Acetone | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Carbon Disulfide | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,1-Dichloroethene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,1-Dichloroethane | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,2-Dichloroethene (total) | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Chloroform | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,2-Dichloroethane | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Butanone | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| ,1-Trichloroethane | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Carbon Tetrachloride | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Bromodichloromethane | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,2-Dichloropropane | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| c-1,3-Dichloropropene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Trichloroethene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Dibromochloromethane | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,1,2-Trichloroethane | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Benzene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| t-1,3-Dichloropropene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Bromoform | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 4-Methyl-2-pentanone | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 2-Hexanone | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Tetrachloroethene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,1,2,2-Tetrachloroethane | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Toluene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Chlorobenzene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Ethylbenzene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Styrene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Xylenes (total) | 10 | BDL | BDL | BDL | BDL | BDL | BDL |

Notes

1. BDL = Below Detection Limit (if present, it is less than the CRQL)
2. CRQL = Contract Required Quantitation Limit.

## TABLE 3.3 (Continued)
## LABORATORY ANALYSIS SUMMARY
## VOLATILE ORGANIC COMPOUNDS

| Compound | CRQL[2] (µg/l) | Monitoring Wells (WT) (µg/l)[1] | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 114 A | 114 B | 116 A | 116 B | 01 | 111 A | 118 B |
| Chloromethane | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Bromomethane | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Vinyl Chloride | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Chloroethane | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Methylene Chloride | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Acetone | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Carbon Disulfide | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,1-Dichloroethene | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,1-Dichloroethane | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,2-Dichloroethene (total) | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Chloroform | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,2-Dichloroethane | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| `-Butanone | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| ,1,1-Trichloroethane | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Carbon Tetrachloride | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Bromodichloromethane | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,2-Dichloropropane | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| c-1,3-Dichloropropene | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Trichloroethene | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Dibromochloromethane | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,1,2-Trichloroethane | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Benzene | 10 | BDL | BDL | 16 | BDL | BDL | BDL | BDL |
| t-1,3-Dichloropropene | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Bromoform | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 4-Methyl-2-pentanone | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 2-Hexanone | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Tetrachloroethene | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,1,2,2-Tetrachloroethane | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Toluene | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Chlorobenzene | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Ethylbenzene | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Styrene | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Xylenes (total) | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |

Notes

1. BDL = Below Detection Limit (if present, it is less than the CRQL)
2. CRQL = Contract Required Quantitation Limit.

## TABLE 3.3 (Continued)
## LABORATORY ANALYSIS SUMMARY
## VOLATILE ORGANIC COMPOUNDS

| | | Monitoring Wells (WT) (µg/l)[1] | | | | | |
|---|---|---|---|---|---|---|---|
| Compound | CRQL[2] (µg/l) | 101 A | 101 B | E1 | 117 A | 117 B | 115 A |
| Chloromethane | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Bromomethane | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Vinyl Chloride | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Chloroethane | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Methylene Chloride | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Acetone | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Carbon Disulfide | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,1-Dichloroethene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,1-Dichloroethane | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,2-Dichloroethene (total) | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Chloroform | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,2-Dichloroethane | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 2-Butanone | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,1,1-Trichloroethane | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Carbon Tetrachloride | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Bromodichloromethane | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,2-Dichloropropane | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| c-1,3-Dichloropropene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Trichloroethene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Dibromochloromethane | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,1,2-Trichloroethane | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Benzene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| t-1,3-Dichloropropene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Bromoform | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 4-Methyl-2-pentanone | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 2-Hexanone | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Tetrachloroethene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,1,2,2-Tetrachloroethane | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Toluene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Chlorobenzene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Ethylbenzene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Styrene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Xylenes (total) | 10 | BDL | BDL | BDL | BDL | BDL | BDL |

Notes

1. BDL = Below Detection Limit (if present, it is less than the CRQL)
2. CRQL = Contract Required Quantitation Limit.

# TABLE 3.4
# LABORATORY ANALYSIS SUMMARY
# SEMI-VOLATILE ORGANIC COMPOUNDS

| Compound | CRQL[2] (µg/l) | Monitoring Wells (WT) (µg/l)[1] | | | | | |
|---|---|---|---|---|---|---|---|
| | | 113 A | 113 B | 112 A | 112 B | 102 A | 102 B |
| Phenol | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| bis-(2-Chloroethyl) ether | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 2-Chlorophenol | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,3-Dichlorobenzene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,4-Dichlorobenzene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,2-Dichlorobenzene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 2-Methylphenol | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 2,2'-oxybis (1-Chloropropane)[3] | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 4-Methylphenol | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| N-Nitroso-di-n-propylamine | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Hexachloroethane | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Nitrobenzene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Isophorone | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 2-Nitrophenol | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 2,4-Dimethylphenol | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| s-(2-Chloroethoxy) methane | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 2,4-Dichlorophenol | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,2,4-Trichlorobenzene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Naphthalene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 4-Chloroaniline | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Hexachlorobutadiene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 4-Chloro-3-methylphenol | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 2-Methylnaphthalene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Hexachlorocyclopentadiene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 2,4,6-Trichlorophenol | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 2,4,5-Trichlorophenol | 25 | BDL | BDL | BDL | BDL | BDL | BDL |
| 2-Chloronaphthalene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 2-Nitroaniline | 25 | BDL | BDL | BDL | BDL | BDL | BDL |
| Dimethylphthalate | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Acenaphthylene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 2,6-Dinitrotoluene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 3-Nitroaniline | 25 | BDL | BDL | BDL | BDL | BDL | BDL |
| Acenaphthene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 2,4-Dinitrophenol | 25 | BDL | BDL | BDL | BDL | BDL | BDL |
| 4-Nitrophenol | 25 | BDL | BDL | BDL | BDL | BDL | BDL |

Notes

1. BDL = Below Detection Limit (if present, it is less than the CRQL)
2. CRQL = Contract Required Quantitation Limit.
3. Previous known by the name bis(2-Chloroisopropyl)ether.

## TABLE 3.4 (Continued)
## LABORATORY ANALYSIS SUMMARY
## SEMI-VOLATILE ORGANIC COMPOUNDS

| | | Monitoring Wells (WT) (µg/l)[1] | | | | | |
|---|---|---|---|---|---|---|---|
| Compound | CRQL[2] (µg/l) | 113 A | 113 B | 112 A | 112 B | 102 A | 102B |
| Dibenzofuran | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 2,4-Dinitrotoluene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Diethylphthalate | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 4-Chlorophenylphenyl ether | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Fluorene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 4-Nitroaniline | 25 | BDL | BDL | BDL | BDL | BDL | BDL |
| 4,6-Dinitro-2 methylphenol | 25 | BDL | BDL | BDL | BDL | BDL | BDL |
| N-Nitroso-diphenylamine | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 4-Bromophenylphenylether | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Hexachlorobenzene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Pentachlorophenol | 25 | BDL | BDL | BDL | BDL | BDL | BDL |
| Phenanthrene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Anthracene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Carbazole | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Di-n-butylphthalate | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| ıoranthene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| yrene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Butylbenzylphthalate | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 3,3'-Dichlorobenzidine | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Benzo(a)anthracene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Chrysene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| bis(2-Ethylhexyl) phthalate | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Di-n-octylphthalate | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Benzo(b)fluoranthene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Benzo(k)fluoranthene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Benzo(a)pyrene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Indeno (1,2,3-cd)pyrene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Dibenzo(a,h)anthracene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Benzo(g,h,i)perylene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |

Notes

1. BDL = Below Detection Limit (if present, it is less than the CRQL)
2. CRQL = Contract Required Quantitation Limit.

## TABLE 3.4 (Continued)
## LABORATORY ANALYSIS SUMMARY
## SEMI-VOLATILE ORGANIC COMPOUNDS

| Compound | CRQL[2] (µg/l) | Monitoring Wells (WT) (µg/l)[1] | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 114 A | 114 B | 116 A | 116 B | 01 | 111 A | 118 B |
| Phenol | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| bis-(2-Chloroethyl) ether | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 2-Chlorophenol | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,3-Dichlorobenzene | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,4-Dichlorobenzene | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,2-Dichlorobenzene | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 2-Methylphenol | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 2,2'-oxybis (1-Chloropropane)[3] | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 4-Methylphenol | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| N-Nitroso-di-n-propylamine | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Hexachloroethane | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Nitrobenzene | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Isophorone | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 2-Nitrophenol | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 4-Dimethylphenol | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| (2-Chloroethoxy) methane | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| -Dichlorophenol | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,2,4-Trichlorobenzene | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Naphthalene | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 4-Chloroaniline | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Hexachlorobutadiene | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 4-Chloro-3-methylphenol | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 2-Methylnaphthalene | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Hexachlorocyclopentadiene | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 2,4,6-Trichlorophenol | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 2,4,5-Trichlorophenol | 25 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 2-Chloronaphthalene | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 2-Nitroaniline | 25 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Dimethylphthalate | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Acenaphthylene | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 2,6-Dinitrotoluene | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 3-Nitroaniline | 25 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Acenaphthene | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 2,4-Dinitrophenol | 25 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 4-Nitrophenol | 25 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |

Notes

1. BDL = Below Detection Limit (if present, it is less than the CRQL)
2. CRQL = Contract Required Quantitation Limit.
3. Previous known by the name bis(2-Chloroisopropyl)ether.

## TABLE 3.4 (Continued)
## LABORATORY ANALYSIS SUMMARY
## SEMI-VOLATILE ORGANIC COMPOUNDS

| Compound | CRQL[2] (µg/l) | Monitoring Wells (WT) (µg/l)[1] | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 114 A | 114 B | 116 A | 116 B | 01 | 111 A | 118 B |
| Dibenzofuran | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 2,4-Dinitrotoluene | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Diethylphthalate | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 4-Chlorophenylphenyl ether | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Fluorene | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 4-Nitroaniline | 25 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 4,6-Dinitro-2-methylphenol | 25 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| N-Nitroso-diphenylamine | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 4-Bromophenylphenylether | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Hexachlorobenzene | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Pentachlorophenol | 25 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Phenanthrene | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Anthracene | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Carbazole | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| [illegible]-n-butylphthalate | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| [illegible]oranthene | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| [illegible]yrene | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Butylbenzylphthalate | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 3,3'-Dichlorobenzidine | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Benzo(a)anthracene | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Chrysene | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| bis(2-Ethylhexyl) phthalate | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Di-n-octylphthalate | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Benzo(b)fluoranthene | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Benzo(k)fluoranthene | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Benzo(a)pyrene | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Indeno (1,2,3-cd)pyrene | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Dibenzo(a,h)anthracene | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Benzo(g,h,i)perylene | 10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |

Notes

1. BDL = Below Detection Limit (if present, it is less than the CRQL)
2. CRQL = Contract Required Quantitation Limit.

## TABLE 3.4 (Continued)
## LABORATORY ANALYSIS SUMMARY
## SEMI-VOLATILE ORGANIC COMPOUNDS

| | | Monitoring Wells (WT) (µg/l)[1] | | | | | |
|---|---|---|---|---|---|---|---|
| Compound | CRQL[2] (µg/l) | 101 A | 101 B | E1 | 117 A | 117 B | 115 A |
| Phenol | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| bis-(2-Chloroethyl) ether | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 2-Chlorophenol | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,3-Dichlorobenzene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,4-Dichlorobenzene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,2-Dichlorobenzene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 2-Methylphenol | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 2,2'-oxybis (1-Chloropropane)[3] | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 4-Methylphenol | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| N-Nitroso-di-n-propylamine | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Hexachloroethane | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Nitrobenzene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Isophorone | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 2-Nitrophenol | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 4-Dimethylphenol | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| (2-Chloroethoxy) methane | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| -Dichlorophenol | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,2,4-Trichlorobenzene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Naphthalene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 4-Chloroaniline | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Hexachlorobutadiene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 4-Chloro-3-methylphenol | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 2-Methylnaphthalene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Hexachlorocyclopentadiene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 2,4,6-Trichlorophenol | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 2,4,5-Trichlorophenol | 25 | BDL | BDL | BDL | BDL | BDL | BDL |
| 2-Chloronaphthalene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 2-Nitroaniline | 25 | BDL | BDL | BDL | BDL | BDL | BDL |
| Dimethylphthalate | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Acenaphthylene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 2,6-Dinitrotoluene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 3-Nitroaniline | 25 | BDL | BDL | BDL | BDL | BDL | BDL |
| Acenaphthene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 2,4-Dinitrophenol | 25 | BDL | BDL | BDL | BDL | BDL | BDL |
| 4-Nitrophenol | 25 | BDL | BDL | BDL | BDL | BDL | BDL |

Notes

1. BDL = Below Detection Limit (if present, it is less than the CRQL)
2. CRQL = Contract Required Quantitation Limit.
3. Previous known by the name bis(2-Chloroisopropyl)ether.

## TABLE 3.4 (Continued)
## LABORATORY ANALYSIS SUMMARY
## SEMI-VOLATILE ORGANIC COMPOUNDS

| | | Monitoring Wells (WT) (µg/l)[1] | | | | | |
|---|---|---|---|---|---|---|---|
| Compound | CRQL[2] (µg/l) | 101 A | 101 B | E1 | 117 A | 117 B | 115 A |
| Dibenzofuran | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 2,4-Dinitrotoluene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Diethylphthalate | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 4-Chlorophenylphenyl ether | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Fluorene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 4-Nitroaniline | 25 | BDL | BDL | BDL | BDL | BDL | BDL |
| 4,6-Dinitro-2-methylphenol | 25 | BDL | BDL | BDL | BDL | BDL | BDL |
| N-Nitroso-diphenylamine | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 4-Bromophenylphenylether | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Hexachlorobenzene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Pentachlorophenol | 25 | BDL | BDL | BDL | BDL | BDL | BDL |
| Phenanthrene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Anthracene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Carbazole | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Di-n-butylphthalate | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| uoranthene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| yrene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Butylbenzylphthalate | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 3,3'-Dichlorobenzidine | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Benzo(a)anthracene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Chrysene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| bis(2-Ethylhexyl) phthalate | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Di-n-octylphthalate | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Benzo(b)fluoranthene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Benzo(k)fluoranthene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Benzo(a)pyrene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Indeno (1,2,3-cd)pyrene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Dibenzo(a,h)anthracene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Benzo(g,h,i)perylene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |

NOTES

1. BDL = Below Detection Limit (if present, it is less than the CRQL)
2. CRQL = Contract Required Quantitation Limit.

## TABLE 3.5
## LABORATORY ANALYSIS SUMMARY
## PESTICIDES/AROCLORS

| Compound | CRQL[2] (µg/l) | Monitoring Wells (WT) (µg/l)[1] | | | | | |
|---|---|---|---|---|---|---|---|
| | | 113 A | 113 B | 112 A | 112 B | 102 A | 102 B |
| alpha-BHC | 0.050 | BDL | BDL | BDL | BDL | BDL | BDL |
| beta-BHC | 0.050 | BDL | BDL | BDL | BDL | BDL | BDL |
| delta-BHC | 0.050 | BDL | BDL | BDL | BDL | BDL | BDL |
| gamma-BHC (Lindane) | 0.050 | BDL | BDL | BDL | BDL | BDL | BDL |
| Heptachlor | 0.050 | BDL | BDL | BDL | BDL | BDL | BDL |
| Aldrin | 0.050 | BDL | BDL | BDL | BDL | BDL | BDL |
| Heptachlor epoxide | 0.050 | BDL | BDL | BDL | BDL | BDL | BDL |
| Endosulfan I | 0.050 | BDL | BDL | BDL | BDL | BDL | BDL |
| Dieldrin | 0.10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 4,4'-DDE | 0.10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Endrin | 0.10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Endosulfan II | 0.10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 4,4'-DDD | 0.10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Endosulfan sulfate | 0.10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 4,4'-DDT | 0.10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Methoxychlor | 0.50 | BDL | BDL | BDL | BDL | BDL | BDL |
| Endrin ketone | 0.10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Endrin aldehyde | 0.10 | BDL | BDL | BDL | BDL | BDL | BDL |
| alpha-Chlordane | 0.050 | BDL | BDL | BDL | BDL | BDL | BDL |
| gamma-Chlordane | 0.050 | BDL | BDL | BDL | BDL | BDL | BDL |
| Toxaphene | 5.0 | BDL | BDL | BDL | BDL | BDL | BDL |
| Aroclor-1016 | 1.0 | BDL | BDL | BDL | BDL | BDL | BDL |
| Aroclor-1221 | 2.0 | BDL | BDL | BDL | BDL | BDL | BDL |
| Aroclor-1232 | 1.0 | BDL | BDL | BDL | BDL | BDL | BDL |
| Aroclor-1242 | 1.0 | BDL | BDL | BDL | BDL | BDL | BDL |
| Aroclor-1248 | 1.0 | BDL | BDL | BDL | BDL | BDL | BDL |
| Aroclor-1254 | 1.0 | BDL | BDL | BDL | BDL | BDL | BDL |
| Aroclor-1260 | 1.0 | BDL | BDL | BDL | BDL | BDL | BDL |

Notes

1. BDL = Below Detection Limit (if present, it is less than the CRQL)
2. CRQL = Contract Required Quantitation Limit.

## TABLE 3.5 (Continued)
## LABORATORY ANALYSIS SUMMARY
## PESTICIDES/AROCLORS

| | | Monitoring Wells (WT) (µg/l)[1] | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Compound | CRQL[2] (µg/l) | 114 A | 114 B | 116 A | 116 B | 01 | 111 A | 118 B |
| alpha-BHC | 0.050 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| beta-BHC | 0.050 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| delta-BHC | 0.050 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| gamma-BHC (Lindane) | 0.050 | BDL | BDL | BDL | BDL | BDL | 0.052[3] | BDL |
| Heptachlor | 0.050 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Aldrin | 0.050 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Heptachlor epoxide | 0.050 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Endosulfan I | 0.050 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Dieldrin | 0.10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 4,4'-DDE | 0.10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Endrin | 0.10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Endosulfan II | 0.10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| ',4'-DDD | 0.10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| ndosulfan sulfate | 0.10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 4,4'-DDT | 0.10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Methoxychlor | 0.50 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Endrin ketone | 0.10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Endrin aldehyde | 0.10 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| alpha-Chlordane | 0.050 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| gamma-Chlordane | 0.050 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Toxaphene | 5.0 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Aroclor-1016 | 1.0 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Aroclor-1221 | 2.0 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Aroclor-1232 | 1.0 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Aroclor-1242 | 1.0 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Aroclor-1248 | 1.0 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Aroclor-1254 | 1.0 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Aroclor-1260 | 1.0 | BDL | BDL | BDL | BDL | BDL | BDL | BDL |

Notes

1. BDL = Below Detection Limit (if present, it is less than the CRQL)
2. CRQL = Contract Required Quantitation Limit.
3. gamma-BHC was confirmed on a second G C detector and GC column at simlar levels.

## TABLE 3.5 (Continued)
## LABORATORY ANALYSIS SUMMARY
## PESTICIDES/AROCLORS

| Compound | CRQL[2] (µg/l) | Monitoring Wells (WT) (µg/l)[1] | | | | | |
|---|---|---|---|---|---|---|---|
| | | 101 A | 101 B | E1 | 117 A | 117 B | 115 A |
| alpha-BHC | 0.050 | BDL | BDL | BDL | BDL | BDL | BDL |
| beta-BHC | 0.050 | BDL | BDL | BDL | BDL | BDL | BDL |
| delta-BHC | 0.050 | BDL | BDL | BDL | BDL | BDL | BDL |
| gamma-BHC (Lindane) | 0.050 | BDL | BDL | BDL | BDL | BDL | BDL |
| Heptachlor | 0.050 | BDL | BDL | BDL | BDL | BDL | BDL |
| Aldrin | 0.050 | BDL | BDL | BDL | BDL | BDL | BDL |
| Heptachlor epoxide | 0.050 | BDL | BDL | BDL | BDL | BDL | BDL |
| Endosulfan I | 0.050 | BDL | BDL | BDL | BDL | BDL | BDL |
| Dieldrin | 0.10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 4,4'-DDE | 0.10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Endrin | 0.10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Endosulfan II | 0.10 | BDL | BDL | BDL | BDL | BDL | BDL |
| '-DDD | 0.10 | BDL | BDL | BDL | BDL | BDL | BDL |
| dosulfan sulfate | 0.10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 4,4'-DDT | 0.10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Methoxychlor | 0.50 | BDL | BDL | BDL | BDL | BDL | BDL |
| Endrin ketone | 0.10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Endrin aldehyde | 0.10 | BDL | BDL | BDL | BDL | BDL | BDL |
| alpha-Chlordane | 0.050 | BDL | BDL | BDL | BDL | BDL | BDL |
| gamma-Chlordane | 0.050 | BDL | BDL | BDL | BDL | BDL | BDL |
| Toxaphene | 5.0 | BDL | BDL | BDL | BDL | BDL | BDL |
| Aroclor-1016 | 1.0 | BDL | BDL | BDL | BDL | BDL | BDL |
| Aroclor-1221 | 2.0 | BDL | BDL | BDL | BDL | BDL | BDL |
| Aroclor-1232 | 1.0 | BDL | BDL | BDL | BDL | BDL | BDL |
| Aroclor-1242 | 1.0 | BDL | BDL | BDL | BDL | BDL | BDL |
| Aroclor-1248 | 1.0 | BDL | BDL | BDL | BDL | BDL | BDL |
| Aroclor-1254 | 1.0 | BDL | BDL | BDL | BDL | BDL | BDL |
| Aroclor-1260 | 1.0 | BDL | BDL | BDL | BDL | BDL | BDL |

Notes

1. BDL = Below Detection Limit (if present, it is less than the CRQL)
2. CRQL = Contract Required Quantitation Limit.

## TABLE 3.6
## FIELD DUPLICATE RESULTS SUMMARY
## METALS/CYANIDE

| Compound | CRDL[2] (µg/l) | WT 116 A 29210 | FD-1 29211 | % RSD[3] | WT 101 B 29291 | FD-2 29292 | % RSD[3] |
|---|---|---|---|---|---|---|---|
| Aluminum | 200 | <200 | <200 | 0 | <200 | <200 | 0 |
| Antimony | 60 | <60 | <60 | 0 | <60 | <60 | 0 |
| Arsenic | 10 | <10 | <10 | 0 | <10 | <10 | 0 |
| Barium | 200 | <200 | <200 | 0 | <200 | <200 | 0 |
| Beryllium | 5 | <5 | <5 | 0 | <5 | <5 | 0 |
| Cadmium | 5 | <5 | <5 | 0 | <5 | <5 | 0 |
| Calcium | 5000 | 580,000 | 590,000 | 1.2 | 140,000 | 130,000 | 5.2 |
| Chromium | 10 | <10 | <10 | 0 | <10 | <10 | 0 |
| Cobalt | 50 | <50 | <50 | 0 | <50 | <50 | 0 |
| Copper | 25 | <25 | <25 | 0 | <25 | <25 | 0 |
| Iron | 100 | 6,670 | 6,670 | 0 | 3,100 | 3,000 | 2.3 |
| Lead | 3 | <3 | 3 | – | 7 | 8 | 9.4 |
| Magnesium | 5000 | 57,400 | 59,200 | 2.2 | 46,300 | 45,000 | 2.0 |
| Manganese | 15 | 469 | 465 | 0.6 | 36 | 36 | 0 |
| Mercury | 0.2 | <0.2 | <0.2 | 0 | <0.2 | <0.2 | 0 |
| Nickel | 40 | <40 | <40 | 0 | <40 | <40 | 0 |
| Potassium | 5000 | 38,000 | 39,000 | 1.8 | 5,000 | 5,100 | 1.4 |
| Selenium | 5 | 9 | 7 | 18 | <5 | <5 | 0 |
| Silver | 10 | <10 | <10 | 0 | <10 | <10 | 0 |
| Sodium | 5000 | 210,000 | 220,000 | 3.3 | 44,300 | 44,600 | 0.5 |
| Thallium | 10 | 14 | <10 | – | <10 | <10 | 0 |
| Vanadium | 50 | <50 | <50 | 0 | <50 | <50 | 0 |
| Zinc | 20 | <20 | <20 | 0 | <20 | <20 | 0 |
| Cyanide | 10 | <10 | <10 | 0 | <10 | <10 | 0 |

Notes

1. A less than (<) sign means below CRDL.
2. CRDL = Contract Required Detection Limit.
3. % RSD = Relative Standard Deviation (%).

# TABLE 3.7
# FIELD DUPLICATE RESULTS SUMMARY
# VOLATILE ORGANIC COMPOUNDS

| Compound | CRQL[2] (µg/l) | WT 116 A 29210 | FD-1 29211 | % RSD[3] | WT 101 B 29291 | FD-2 29292 | % RSD[3] |
|---|---|---|---|---|---|---|---|
| Chloromethane | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Bromomethane | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Vinyl Chloride | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Chloroethane | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Methylene Chloride | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Acetone | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Carbon Disulfide | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| 1,1-Dichloroethene | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| 1,1-Dichloroethane | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| 1,2-Dichloroethene (total) | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Chloroform | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| 1,2-Dichloroethane | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| 2-Butanone | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| 1,1,1-Trichloroethane | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Carbon Tetrachloride | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Bromodichloromethane | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| 1,2-Dichloropropane | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| c-1,3-Dichloropropene | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Trichloroethene | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Dibromochloromethane | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| 1,1,2-Trichloroethane | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Benzene | 10 | 16 | 16 | 0 | BDL | BDL | 0 |
| t-1,3-Dichloropropene | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Bromoform | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| 4-Methyl-2-pentanone | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| 2-Hexanone | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Tetrachloroethene | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| 1,1,2,2-Tetrachloroethane | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Toluene | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Chlorobenzene | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Ethylbenzene | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Styrene | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Xylenes (total) | 10 | BDL | BDL | 0 | BDL | BDL | 0 |

Notes

1. BDL = Below Detection Limit (if present, it is less than the CRQL).
2. CRQL = Contract Required Quantitation Limit.
3. % RSD = Relative Standard Deviation (%).

# TABLE 3.8
# FIELD DUPLICATE RESULTS SUMMARY
# SEMI-VOLATILE ORGANIC COMPOUNDS

| Compound | CRQL[2] (µg/l) | WT 116 A 29210 | FD-1 29211 | % RSD[3] | WT 101 B 29291 | FD-2 29292 | % RSD[3] |
|---|---|---|---|---|---|---|---|
| Phenol | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| bis-(2-Chloroethyl) ether | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| 2-Chlorophenol | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| 1,3-Dichlorobenzene | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| 1,4-Dichlorobenzene | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| 1,2-Dichlorobenzene | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| 2-Methylphenol | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| 2,2'-oxybis (1-Chloropropane)[1] | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| 4-Methylphenol | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| N-Nitroso-di-n-propylamine | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Hexachloroethane | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Nitrobenzene | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Isophorone | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| [illegible]Nitrophenol | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| [illegible]Dimethylphenol | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| [illegible]s-(2-Chloroethoxy) methane | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| 2,4-Dichlorophenol | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| 1,2,4-Trichlorobenzene | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Naphthalene | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| 4-Chloroaniline | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Hexachlorobutadiene | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| 4-Chloro-3-methylphenol | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| 2-Methylnaphthalene | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Hexachlorocyclopentadiene | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| 2,4,6-Trichlorophenol | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| 2,4,5-Trichlorophenol | 25 | BDL | BDL | 0 | BDL | BDL | 0 |
| 2-Chloronaphthalene | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| 2-Nitroaniline | 25 | BDL | BDL | 0 | BDL | BDL | 0 |
| Dimethylphthalate | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Acenaphthylene | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| 2,6-Dinitrotoluene | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| 3-Nitroaniline | 25 | BDL | BDL | 0 | BDL | BDL | 0 |
| Acenaphthene | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| 2,4-Dinitrophenol | 25 | BDL | BDL | 0 | BDL | BDL | 0 |
| 4-Nitrophenol | 25 | BDL | BDL | 0 | BDL | BDL | 0 |

Notes

1. BDL = Below Detection Limit (if present, it is less than the CRQL).
2. CRQL = Contract Required Quantitation Limit.
3. % RSD = Relative Standard Deviation (%).

## TABLE 3.8 (Continued)
## FIELD DUPLICATE RESULTS SUMMARY
## SEMI-VOLATILE ORGANIC COMPOUNDS

| Compound | CRQL[2] (µg/l) | WT 116 A 29210 | FD-1 29211 | % RSD[3] | WT 101 B 29291 | FD-2 29292 | % RSD[3] |
|---|---|---|---|---|---|---|---|
| Dibenzofuran | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| 2,4-Dinitrotoluene | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Diethylphthalate | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| 4-Chlorophenylpphenyl ether | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Fluorene | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| 4-Nitroaniline | 25 | BDL | BDL | 0 | BDL | BDL | 0 |
| 4,6-Dinitro-2 methylphenol | 25 | BDL | BDL | 0 | BDL | BDL | 0 |
| N-Nitroso-diphenylamine | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| 4-Bromophenylphenylether | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Hexachlorobenzene | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Pentachlorophenol | 25 | BDL | BDL | 0 | BDL | BDL | 0 |
| Phenanthrene | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Anthracene | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Carbazole | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Di-n-butylphthalate | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Fluoranthene | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Pyrene | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Butylbenzylphthalate | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| 3,3'-Dichlorobenzidine | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Benzo(a)anthracene | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Chrysene | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| bis(2-Ethylhexyl) phthalate | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Di-n-octylphthalate | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Benzo(b)fluoranthene | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Benzo(k)fluoranthene | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Benzo(a)pyrene | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Indeno (1,2,3-cd)pyrene | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Dibenzo(a,h)anthracene | 10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Benzo(g,h,i)perylene | 10 | BDL | BDL | 0 | BDL | BDL | 0 |

Notes

1. BDL = Below Detection Limit (if present, it is less than the CRQL).
2. CRQL = Contract Required Quantitation Limit.
3. % RSD = Relative Standard Deviation (%).

# TABLE 3.9
# FIELD DUPLICATE RESULTS SUMMARY
# PESTICIDES/AROCLORS

| Compound | CRQL[2] (µg/l) | WT 116 A 29210 | FD-1 29211 | % RSD[3] | WT 101 B 29291 | FD-2 29292 | % RSD[3] |
|---|---|---|---|---|---|---|---|
| alpha-BHC | 0.050 | BDL | BDL | 0 | BDL | BDL | 0 |
| beta-BHC | 0.050 | BDL | BDL | 0 | BDL | BDL | 0 |
| delta-BHC | 0.050 | BDL | BDL | 0 | BDL | BDL | 0 |
| gamma-BHC (Lindane) | 0.050 | BDL | BDL | 0 | BDL | BDL | 0 |
| Heptachlor | 0.050 | BDL | BDL | 0 | BDL | BDL | 0 |
| Aldrin | 0.050 | BDL | BDL | 0 | BDL | BDL | 0 |
| Heptachlor epoxide | 0.050 | BDL | BDL | 0 | BDL | BDL | 0 |
| Endosulfan I | 0.050 | BDL | BDL | 0 | BDL | BDL | 0 |
| Dieldrin | 0.10 | BDL | BDL | 0 | BDL | BDL | 0 |
| 4,4'-DDE | 0.10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Endrin | 0.10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Endosulfan II | 0.10 | BDL | BDL | 0 | BDL | BDL | 0 |
| 4'-DDD | 0.10 | BDL | BDL | 0 | BDL | BDL | 0 |
| idosulfan sulfate | 0.10 | BDL | BDL | 0 | BDL | BDL | 0 |
| 4,4'-DDT | 0.10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Methoxychlor | 0.50 | BDL | BDL | 0 | BDL | BDL | 0 |
| Endrin ketone | 0.10 | BDL | BDL | 0 | BDL | BDL | 0 |
| Endrin aldehyde | 0.10 | BDL | BDL | 0 | BDL | BDL | 0 |
| alpha-Chlordane | 0.050 | BDL | BDL | 0 | BDL | BDL | 0 |
| gamma-Chlordane | 0.050 | BDL | BDL | 0 | BDL | BDL | 0 |
| Toxaphene | 5.0 | BDL | BDL | 0 | BDL | BDL | 0 |
| Aroclor-1016 | 1.0 | BDL | BDL | 0 | BDL | BDL | 0 |
| Aroclor-1221 | 2.0 | BDL | BDL | 0 | BDL | BDL | 0 |
| Aroclor-1232 | 1.0 | BDL | BDL | 0 | BDL | BDL | 0 |
| Aroclor-1242 | 1.0 | BDL | BDL | 0 | BDL | BDL | 0 |
| Aroclor-1248 | 1.0 | BDL | BDL | 0 | BDL | BDL | 0 |
| Aroclor-1254 | 1.0 | BDL | BDL | 0 | BDL | BDL | 0 |
| Aroclor-1260 | 1.0 | BDL | BDL | 0 | BDL | BDL | 0 |

Notes

1. BDL = Below Detection Limit (if present, it is less than the CRQL).
2. CRQL = Contract Required Quantitation Limit.
3. % RSD = Relative Standard Deviation (%).

# ATTACHMENT 1, APPENDIX B
# APPENDICES TO EIS REPORT

IX

IS

UPLICATE SPIKE

# QUALITY ASSURANCE DATA SHEET
## DUPLICATE MATRIX SPIKE ANALYSIS
## VOLATILE ORGANIC COMPOUNDS/BETX

Sample ID: WT 112 A

EIS Lab No: 29148

Date Analyzed: 09-21-95
EPA Method: 8260
Sample Matrix: Water
Units: µg/l

**THIS QC DATA IS APPLICABLE TO THE FOLLOWING EIS LABORATORY NUMBERS:**

29113, 29114, 29148, 29149, 29158, 29159
29193, 29207, 29208, 29210 - 29212

**PRECISION as Relative Percent Difference**

$$RPD = \frac{(\text{Matrix Spike \%R}) - (\text{Duplicate Spike \%R})}{(\text{Matrix Spike \%R}) + (\text{Duplicate Spike \%R})} \times 200$$

**ACCURACY as Matrix Spike Recovery**

$$\%R = \frac{(\text{Spike + Background}) - (\text{Background})}{(\text{Spike})} \times 100$$

| Parameter | Spike Level | Back-ground | Matrix Spike Amount | Matrix Spike % R | Duplicate Spike Amount | Duplicate Spike % R | RPD | QC Limits %R | QC Limits RPD |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 22 | | 23 | 105 | 24 | 109 | -3.7 | 76 - 127 | 11 |
| Chlorobenzene | 24 | | 26 | 108 | 27 | 112 | -3.6 | 75 - 130 | 13 |
| 1,1-Dichloroethene | 26 | | 24 | 92 | 24 | 92 | 0 | 61 - 145 | 14 |
| Toluene | 22 | | 24 | 109 | 24 | 109 | 0 | 76 - 125 | 13 |
| Trichloroethene | 21 | | 23 | 110 | 23 | 110 | 0 | 71 - 120 | |



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# QUALITY ASSURANCE DATA SHEET
## DUPLICATE MATRIX SPIKE ANALYSIS
## PESTICIDES/HERBICIDES

Sample ID: WT 112 A — EIS Lab No: 29148

Date Analyzed: 10-03-95
EPA Method: 8081
Sample Matrix: Water
Units: µg/l

**THIS QC DATA IS APPLICABLE TO THE FOLLOWING EIS LABORATORY NUMBERS:**

29113, 29114, 29148, 29149, 29158, 29159

**PRECISION as Relative Percent Difference**

$$RPD = \frac{(\text{Matrix Spike \%R}) - (\text{Duplicate Spike \%R})}{(\text{Matrix Spike \%R}) + (\text{Duplicate Spike \%R})} \times 200$$

**ACCURACY as Matrix Spike Recovery**

$$\%R = \frac{(\text{Spike} + \text{Background}) - (\text{Background})}{(\text{Spike})} \times 100$$

| Parameter | Spike Level | Back-ground | Matrix Spike Amount | Matrix Spike % R | Duplicate Spike Amount | Duplicate Spike % R | RPD | QC Limits %R | QC Limits RPD |
|---|---|---|---|---|---|---|---|---|---|
| Lindane | 1.38 | | 1.27 | 92 | 1.20 | 87 | 5.6 | 56 - 123 | 15 |
| Heptachlor | 1.65 | | 1.35 | 82 | 1.20 | 73 | 12 | 40 - 131 | 20 |
| Aldrin | 1.22 | | 1.17 | 96 | 1.03 | 84 | 13 | 40 - 120 | 22 |
| Dieldrin | 1.38 | | 1.47 | 107 | 1.39 | 101 | 5.8 | 52 - 126 | 18 |
| ndrin | 1.57 | | 1.61 | 103 | 1.51 | 96 | 7.0 | 56 - 121 | 21 |
| 4,4'-DDT | 1.34 | | 1.71 | 128 | 1.62 | 121 | 5.6 | 38 - 127 | 27 |

Note:

The % R for 4,4'-DDT in the Matrix Spike is over the QC Limit. The % R for 4,4'-DDT in the Laboratory Fortified Blank analyzed immediately after the Duplicate Spike is within QC Limits. The QC data is therefore considered acceptable.



Recycled Paper

# QUALITY ASSURANCE DATA SHEET
## DUPLICATE MATRIX SPIKE ANALYSIS
## SEMI-VOLATILE ORGANIC COMPOUNDS/BETX

Sample ID: WT 112 A

EIS Lab No: 29148

Date Analyzed: 09-27-95
EPA Method: 8270
Sample Matrix: Water
Units: µg/l

**THIS QC DATA IS APPLICABLE TO THE FOLLOWING EIS LABORATORY NUMBERS:**

29148, 29149

**PRECISION as Relative Percent Difference**

$$RPD = \frac{(\text{Matrix Spike \%R}) - (\text{Duplicate Spike \%R})}{(\text{Matrix Spike \%R}) + (\text{Duplicate Spike \%R})} \times 200$$

**ACCURACY as Matrix Spike Recovery**

$$\%R = \frac{(\text{Spike + Background}) - (\text{Background})}{(\text{Spike})} \times 100$$

| Parameter | Spike Level | Back-ground | Matrix Spike Amount | Matrix Spike % R | Duplicate Spike Amount | Duplicate Spike % R | RPD | QC Limits %R | QC Limits RPD |
|---|---|---|---|---|---|---|---|---|---|
| Phenol | 100 | | 50 | 50 | 54 | 54 | -7.7 | 12 - 110 | 42 |
| 2-Chlorophenol | 110 | | 110 | 100 | 120 | 109 | -8.6 | 27 - 123 | 40 |
| 1,4-Dichlorobenzene | 51 | | 40 | 78 | 45 | 88 | -12 | 36 - 97 | 28 |
| N-nitroso-di-n-propylamine | 36 | | 40 | 111 | 41 | 114 | -2.7 | 41 - 116 | 38 |
| 1,2,4-Trichlorobenzene | 56 | | 43 | 77 | 47 | 84 | -8.7 | 39 - 98 | 28 |
| 4-Chloro-3-methyl phenol | 130 | | 130 | 100 | 140 | 108 | -7.7 | 23 - 97 | 42 |
| 4-Nitrophenol | 64 | | 38 | 59 | 44 | 69 | -16 | 10 - 80 | 50 |
| Acenaphthene | 52 | | 53 | 102 | 55 | 106 | -3.8 | 46 - 118 | 31 |
| 2,4-Dinitrotoluene | 58 | | 67 | 116 | 73 | 126 | -8.3 | 12 - 137 | 38 |
| Pentachlorophenol | 62 | | 78 | 126 | 82 | 132 | -4.7 | 9 - 103 | 50 |
| Pyrene | 46 | | 44 | 96 | 46 | 100 | -4.1 | 26 - 127 | 31 |

Note:

The % R for Pentachlorophenol is outside QC Limits in the Matrix Spike and Duplicate Spike. The % R for this compound is within QC Limits in the Laboratory Fortified Blank analyzed immediately after the Duplicate Spike. The QC data is therefore considered acceptable.



Recycled Paper

# QUALITY ASSURANCE DATA SHEET
## DUPLICATE MATRIX SPIKE ANALYSIS
## VOLATILE ORGANIC COMPOUNDS/BETX

Sample ID: WT 101 A

EIS Lab No: 29290

Date Analyzed: 09-27-95
EPA Method: 8260
Sample Matrix: Water
Units: µg/l

**THIS QC DATA IS APPLICABLE TO THE FOLLOWING EIS LABORATORY NUMBERS:**

29250, 29264, 29265, 29287, 29288, 29290 - 29292
29309, 29317, 29326 - 29327, 29329 - 29331

**PRECISION as Relative Percent Difference**

$$RPD = \frac{(\text{Matrix Spike \%R}) - (\text{Duplicate Spike \%R})}{(\text{Matrix Spike \%R}) + (\text{Duplicate Spike \%R})} \times 200$$

**ACCURACY as Matrix Spike Recovery**

$$\%R = \frac{(\text{Spike + Background}) - (\text{Background})}{(\text{Spike})} \times 100$$

| Parameter | Spike Level | Back-ground | Matrix Spike Amount | Matrix Spike % R | Duplicate Spike Amount | Duplicate Spike % R | RPD | QC Limits %R | QC Limits RPD |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 22 | 1.9 | 24 | 100 | 25 | 105 | -4.9 | 76 - 127 | 11 |
| Chlorobenzene | 24 | | 25 | 104 | 26 | 108 | -3.8 | 75 - 130 | 13 |
| 1,1-Dichloroethene | 26 | | 22 | 85 | 23 | 88 | -3.5 | 61 - 145 | 14 |
| Toluene | 22 | | 22 | 100 | 23 | 105 | -4.9 | 76 - 125 | 13 |
| Trichloroethene | 21 | | 22 | 105 | 23 | 110 | -4.7 | 71 - 120 | 14 |



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# QUALITY ASSURANCE DATA SHEET
## DUPLICATE MATRIX SPIKE ANALYSIS
## PESTICIDES/HERBICIDES

Sample ID: WT 101 A

EIS Lab No: 29288

Date Analyzed: 10-10-95
EPA Method: 8081
Sample Matrix: Water
Units: µg/l

**THIS QC DATA IS APPLICABLE TO THE FOLLOWING EIS LABORATORY NUMBERS:**

29287, 29288, 29290 - 29292
29326, 29327, 29329 - 29331

**PRECISION as Relative Percent Difference**

$$RPD = \frac{(\text{Matrix Spike \%R}) - (\text{Duplicate Spike \%R})}{(\text{Matrix Spike \%R}) + (\text{Duplicate Spike \%R})} \times 200$$

**ACCURACY as Matrix Spike Recovery**

$$\%R = \frac{(\text{Spike + Background}) - (\text{Background})}{(\text{Spike})} \times 100$$

| Parameter | Spike Level | Back-ground | Matrix Spike Amount | Matrix Spike % R | Duplicate Spike Amount | Duplicate Spike % R | RPD | QC Limits %R | QC Limits RPD |
|---|---|---|---|---|---|---|---|---|---|
| Lindane | 1.38 | | 1.24 | 90 | 1.41 | 102 | -12 | 56 - 123 | 15 |
| Heptachlor | 1.65 | | 1.37 | 83 | 1.46 | 88 | -5.8 | 40 - 131 | 20 |
| Aldrin | 1.22 | | 1.29 | 106 | 1.34 | 110 | -3.7 | 40 - 120 | 22 |
| Dieldrin | 1.38 | | 1.42 | 103 | 1.52 | 110 | -6.6 | 52 - 126 | 18 |
| Endrin | 1.57 | | 1.57 | 100 | 1.67 | 106 | -5.8 | 56 - 121 | 21 |
| 4,4'-DDT | 1.34 | | 1.59 | 119 | 1.70 | 127 | -6.5 | 38 - 127 | 27 |



Recycled Paper

# QUALITY ASSURANCE DATA SHEET
## DUPLICATE MATRIX SPIKE ANALYSIS
## SEMI-VOLATILE ORGANIC COMPOUNDS/BETX

Sample ID: WT 101 A

EIS Lab No: 29290

Date Analyzed: 10-05-95
EPA Method: 8270
Sample Matrix: Water
Units: µg/l

**THIS QC DATA IS APPLICABLE TO THE FOLLOWING EIS LABORATORY NUMBERS:**

29250, 29265, 29287, 29288, 29290 - 29292

**PRECISION as Relative Percent Difference**

$$RPD = \frac{(\text{Matrix Spike \%R}) - (\text{Duplicate Spike \%R})}{(\text{Matrix Spike \%R}) + (\text{Duplicate Spike \%R})} \times 200$$

**ACCURACY as Matrix Spike Recovery**

$$\%R = \frac{(\text{Spike} + \text{Background}) - (\text{Background})}{(\text{Spike})} \times 100$$

| Parameter | Spike Level | Back-ground | Matrix Spike Amount | Matrix Spike % R | Duplicate Spike Amount | Duplicate Spike % R | RPD | QC Limits %R | QC Limits RPD |
|---|---|---|---|---|---|---|---|---|---|
| Phenol | 100 | | 31 | 31 | 34 | 34 | -9.2 | 12 - 110 | 42 |
| 2-Chlorophenol | 110 | | 78 | 71 | 83 | 75 | -5.5 | 27 - 123 | 40 |
| 1,4-Dichlorobenzene | 51 | | 49 | 96 | 49 | 96 | 0 | 36 - 97 | 28 |
| N-nitroso-di-n-propylamine | 36 | | 38 | 106 | 40 | 111 | -4.6 | 41 - 116 | 38 |
| 2,4-Trichlorobenzene | 56 | | 50 | 89 | 50 | 89 | 0 | 39 - 98 | 28 |
| 4-Chloro-3-methyl phenol | 130 | | 74 | 57 | 88 | 68 | -18 | 23 - 97 | 42 |
| 4-Nitrophenol | 64 | | 40 | 63 | 46 | 72 | -13 | 10 - 80 | 50 |
| Acenaphthene | 52 | | 51 | 98 | 53 | 102 | -4.0 | 46 - 118 | 31 |
| 2,4-Dinitrotoluene | 58 | | 64 | 110 | 68 | 117 | -6.2 | 12 - 137 | 38 |
| Pentachlorophenol | 62 | | 69 | 111 | 81 | 131 | -17 | 9 - 103 | 50 |
| Pyrene | 46 | | 40 | 87 | 47 | 102 | -16 | 26 - 127 | 31 |

Note:

The % R for Pentachlorophenol is outside QC Limits in the Matrix Spike and Duplicate Spike. The % R for this compound is within QC Limits in the Laboratory Fortified Blank analyzed immediately after the Duplicate Spike. The QC data is therefore considered acceptable.



Recycled Paper

# ANALYTICAL REPORT

Client:
R Lennie Scott, P.E.
Bayer Corporation
1884 Miles Avenue
Elkhart, Indiana 46514
219-262-7234

Report Date: 10-18-95
EIS Lab No: 29113
EIS Project No: 1210-8135-95
EIS Priority: 4
Client P.O.#:
Certification: Indiana Drinking Water Certificate No. C-71-02

Invoice To:
Client

SAMPLE IDENTIFICATION
Sample ID: WT 113 A
Monitoring Well
Date Sampled: 9-18-95
Date Received: 9-19-95

Report To: CLIENT

Extra Report To:

| PARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST |
|---|---|---|---|---|---|
| Cyanide, Total | mg/l | <0.01 | 0.01 | 09-29-95 | Shane,D |
| Aluminum, Total | mg/l | <0.2 | 0.2 | 10-10-95 | Clear,N |
| Antimony, Total | mg/l | <0.06 | 0.06 | 10-10-95 | Clear,N |
| Arsenic, Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N |
| Barium, Total | mg/l | <0.20 | 0.2 | 10-10-95 | Clear,N |
| Beryllium, Total | mg/l | <0.005 | 0.005 | 10-10-95 | Clear,N |
| Cadmium, Total | mg/l | <0.005 | 0.005 | 10-10-95 | Clear,N |
| Calcium, Total | mg/l | 45.3 | 5 | 10-13-95 | Clear,N |
| Chromium, Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N |
| Cobalt, Total | mg/l | <0.05 | 0.05 | 10-10-95 | Clear,N |
| Copper, Total | mg/l | <0.025 | 0.025 | 10-10-95 | Clear,N |
| Iron, Total | mg/l | <0.10 | 0.1 | 10-10-95 | Clear,N |
| Lead, Total | mg/l | <0.003 | 0.003 | 10-10-95 | Clear,N |
| Magnesium, Total | mg/l | 11.2 | 5 | 10-13-95 | Clear,N |
| Manganese, Total | mg/l | <0.015 | 0.015 | 10-10-95 | Clear,N |
| Mercury, Total | mg/l | <0.0002 | 0.0002 | 09-22-95 | Shane,D |
| Nickel, Total | mg/l | <0.04 | 0.04 | 10-10-95 | Clear,N |
| Potassium, Total | mg/l | <5.0 | 5.0 | 10-16-95 | Shane,D |

QUALITY ASSURANCE OFFICER

LABORATORY DIRECTOR

EIS Lab No: 29113(continued)

| ARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST |
|---|---|---|---|---|---|
| Selenium,Total | mg/l | 0.008 | 0.005 | 10-10-95 | Clear,N |
| Silver,Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N |
| Sodium,Total | mg/l | 6.1 | 5 | 10-13-95 | Clear,N |
| Thallium,Total | mg/l | 0.030 | 0.01 | 10-10-95 | Clear,N |
| Vanadium,Total | mg/l | <0.05 | 0.05 | 10-10-95 | Clear,N |
| Zinc,Total | mg/l | <0.02 | 0.02 | 10-10-95 | Clear,N |
| Pesticide/PCB | | * | | 10-03-95 | Clear,B |
| SVOC (BNA) | | * | | 09-27-95 | Geels,S |
| VOC | | * | | 09-21-95 | Myers,N |
| * See Attached ORGANICS REPORT | | | | | |
| Extract Pest/PCB | | | | 09-21-95 | Thompson,G |
| Extract SVOC (BNA) | | | | 09-20-95 | Thompson,G |
| Mercury Digestion | | | | 09-21-95 | Shane,D |
| Metals Digestion (ICP) | | | | 09-26-95 | Shane,D |

ADDITIONAL INFORMATION

1. Chain-of-Custody document is enclosed.
2. Reference Analytical Methods are enclosed.
3. Sample was iced upon receipt.
4. Sample container(s) were properly preserved per USEPA protocols.
5. < = Not Detected at the Detection Limit (DL) shown.
6. DL = Detection Limit and is adjusted for dilutions/concentrations.
7. Batch [organic] Quality Control data is enclosed. This data was generated at the time that this sample was analyzed but was performed on a different sample.



Recycled Paper

SAMPLE ID: WT 113 A
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29113

## VOLATILE ORGANIC COMPOUNDS/PETROLEUM HYDROCARBONS

| | | |
|---|---|---|
| Analysis Method: 8260<br>Reporting Units: ppb | Abbreviations and report symbols are explained on the following page | Sample Dilution: None<br>EQL Multiplier: 1 |

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acetone | ND | 10 | c-1,3-Dichloropropene | ND | 10 |
| Benzene | ND | 10 | t-1,3-Dichloropropene | ND | 10 |
| Bromodichloromethane | ND | 10 | Ethylbenzene | ND | 10 |
| Bromoform | ND | 10 | 2-Hexanone | ND | 10 |
| Bromomethane | ND | 10 | Methylene Chloride | ND | 10 |
| Carbon Disulfide | ND | 10 | Methyl Ethyl Ketone | ND | 10 |
| Carbon Tetrachloride | ND | 10 | Methyl Isobutyl Ketone | ND | 10 |
| Chlorobenzene | ND | 10 | Styrene | ND | 10 |
| Chlorodibromomethane | ND | 10 | 1,1,2,2-Tetrachloroethane | ND | 10 |
| Chloroethane | ND | 10 | Tetrachloroethene | ND | 10 |
| Chloroform | ND | 10 | Toluene | ND | 10 |
| Chloromethane | ND | 10 | 1,1,1-Trichloroethane | ND | 10 |
| 1,1-Dichloroethane | ND | 10 | 1,1,2-Trichloroethane | ND | 10 |
| 1,2-Dichloroethane | ND | 10 | Trichloroethene | ND | 10 |
| 1,1-Dichloroethene | ND | 10 | Vinyl Chloride | ND | 10 |
| 1,2-Dichloroethene (Total) | ND | 10 | Xylenes (Total) | ND | 10 |
| 1,2-Dichloropropane | ND | 10 | | | |

SURROGATE RECOVERY

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 1,2-Dichloroethane,d4 | 76 - 114 | 99 |
| Toluene,d8 | 88 - 110 | 102 |
| Bromofluorobenzene | 86 - 115 | 99 |

DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

SAMPLE ID: WT 113 A
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29113

## CHLORINATED PESTICIDE COMPOUNDS

Analysis Method: 8081
Reporting Units: ppb

Abbreviations and report symbols are explained in DEFINITIONS below

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Aldrin | ND | 0.05 | Endrin | ND | 0.1 |
| BHC-Alpha | ND | 0.05 | Endrin Aldehyde | ND | 0.1 |
| BHC-Beta | ND | 0.05 | Endrin Ketone | ND | 0.1 |
| BHC-Delta | ND | 0.05 | Heptachlor | ND | 0.05 |
| BHC-Gamma (Lindane) | ND | 0.05 | Heptachlor Epoxide | ND | 0.05 |
| Chlordane-alpha | ND | 0.05 | Methoxychlor | ND | 0.5 |
| Chlordane-gamma | ND | 0.05 | Toxaphene | ND | 5.0 |
| 4,4'-DDD | ND | 0.1 | Aroclor - 1016 | ND | 1.0 |
| 4,4'-DDE | ND | 0.1 | Aroclor - 1221 | ND | 2.0 |
| 4,4'-DDT | ND | 0.1 | Aroclor - 1232 | ND | 1.0 |
| Dieldrin | ND | 0.1 | Aroclor - 1242 | ND | 1.0 |
| Endosulfan I | ND | 0.05 | Aroclor - 1248 | ND | 1.0 |
| Endosulfan II | ND | 0.1 | Aroclor - 1254 | ND | 1.0 |
| Endosulfan Sulfate | ND | 0.1 | Aroclor - 1260 | ND | 1.0 |

### SURROGATE RECOVERY

| Compound Name | Advisory QC Limits | % Recovery |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 30 - 150 | 62 |
| Decachlorobiphenyl | 30 - 150 | 92 |

### DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

SAMPLE ID: WT 113 A
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29113

## SEMI-VOLATILE ORGANIC COMPOUNDS

Analysis Method: 8270
Reporting Units: ppb

Abbreviations and report symbols are explained on the following page

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acenaphthene | ND | 10 | Dimethylphthalate | ND | 10 |
| Acenaphthylene | ND | 10 | 2,4-Dinitrophenol | ND | 25 |
| Anthracene | ND | 10 | 2,6-Dinitrotoluene | ND | 10 |
| Benzo(a)anthracene | ND | 10 | 2,4-Dinitrotoluene | ND | 10 |
| Benzo(a)pyrene | ND | 10 | Fluoranthene | ND | 10 |
| Benzo(b)fluoranthene | ND | 10 | Fluorene | ND | 10 |
| Benzo(g,h,i)perylene | ND | 10 | Hexachlorobenzene | ND | 10 |
| Benzo(k)fluoranthene | ND | 10 | Hexachlorobutadiene | ND | 10 |
| Bis(2-chloroethoxy)methane | ND | 10 | Hexachlorocyclopentadiene | ND | 10 |
| Bis(2-chloroethyl)ether | ND | 10 | Hexachloroethane | ND | 10 |
| Bis(2-chloroisopropyl)ether | ND | 10 | Indeno(1,2,3-cd)pyrene | ND | 10 |
| Bis(2-ethylhexyl)phthalate | ND | 10 | Isophorone | ND | 10 |
| 4-Bromophenylphenylether | ND | 10 | 2-Methylnaphthalene | ND | 10 |
| Butylbenzylphthalate | ND | 10 | 2-Methylphenol | ND | |
| Carbazole | ND | 10 | 4-Methylphenol | ND | |
| 4-Chloro-3-methyl phenol | ND | 10 | 2-Methyl-4,6-dinitrophenol | ND | |
| 4-Chloroaniline | ND | 10 | N-Nitrosodi-N-propylamine | ND | 10 |
| 2-Chloronaphthalene | ND | 10 | N-Nitrosodiphenylamine | ND | 10 |
| 2-Chlorophenol | ND | 10 | Naphthalene | ND | 10 |
| 4-Chlorophenylphenylether | ND | 10 | 2-Nitroaniline | ND | 25 |
| Chrysene | ND | 10 | 3-Nitroaniline | ND | 25 |
| Di-n-butylphthalate | ND | 10 | 4-Nitroaniline | ND | 25 |
| Di-n-octylphthalate | ND | 10 | Nitrobenzene | ND | 10 |
| Dibenzo(a,h)anthracene | ND | 10 | 2-Nitrophenol | ND | 10 |
| Dibenzofuran | ND | 10 | 4-Nitrophenol | ND | 25 |
| 1,2-Dichlorobenzene | ND | 10 | Pentachlorophenol | ND | 25 |
| 1,3-Dichlorobenzene | ND | 10 | Phenanthrene | ND | 10 |
| 1,4-Dichlorobenzene | ND | 10 | Phenol | ND | 10 |
| 3,3'-Dichlorobenzidine | ND | 10 | Pyrene | ND | 10 |
| 2,4-Dichlorophenol | ND | 10 | 1,2,4-Trichlorobenzene | ND | 10 |
| Diethylphthalate | ND | 10 | 2,4,5-Trichlorophenol | ND | 25 |
| 2,4-Dimethylphenol | ND | 10 | 2,4,6-Trichlorophenol | ND | 10 |


Recycled Paper

SAMPLE ID: WT 113 A
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29113

## SEMI-VOLATILE ORGANIC COMPOUNDS



SURROGATE RECOVERY (Method 8270)

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 2-Fluorophenol | 21 - 110 | 54 |
| Phenol,d5 | 10 - 110 | 36 |
| Nitrobenzene,d5 | 35 - 114 | 88 |
| 2-Fluorobiphenyl | 43 - 116 | 84 |
| 2,4,6-Tribromophenol | 10 - 123 | 151 |
| p-Terphenyl,d14 | 33 - 141 | 74 |

DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.
- * = The Surrogate Compounds have been diluted out.



Recycled Paper

# ANALYTICAL REPORT

Client:
R Lennie Scott, P.E.
Bayer Corporation
1884 Miles Avenue
Elkhart, Indiana 46514
219-262-7234

Report Date: 10-18-95
EIS Lab No: 29114
EIS Project No: 1210-8135-95
EIS Priority: 4
Client P.O.#:
Certification: Indiana Drinking Water Certificate No. C-71-02

Invoice To:
Client

**SAMPLE IDENTIFICATION**
Sample ID: WT 113 B
Monitoring Well
Date Sampled: 9-18-95
Date Received: 9-19-95

Report To: CLIENT

Extra Report To:

| PARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST |
|---|---|---|---|---|---|
| Cyanide, Total | mg/l | <0.01 | 0.01 | 09-29-95 | Shane,D |
| Aluminum, Total | mg/l | <0.2 | 0.2 | 10-10-95 | Clear,N |
| Antimony, Total | mg/l | <0.06 | 0.06 | 10-10-95 | Clear,N |
| Arsenic, Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N |
| Barium, Total | mg/l | <0.2 | 0.2 | 10-10-95 | Clear,N |
| Beryllium, Total | mg/l | <0.005 | 0.005 | 10-10-95 | Clear,N |
| Cadmium, Total | mg/l | <0.005 | 0.005 | 10-10-95 | Clear,N |
| Calcium, Total | mg/l | 97 | 5 | 10-16-95 | Clear,N |
| Chromium, Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N |
| Cobalt, Total | mg/l | <0.05 | 0.05 | 10-10-95 | Clear,N |
| Copper, Total | mg/l | <0.025 | 0.025 | 10-10-95 | Clear,N |
| Iron, Total | mg/l | 0.622 | 0.1 | 10-10-95 | Clear,N |
| Lead, Total | mg/l | <0.003 | 0.003 | 10-10-95 | Clear,N |
| Magnesium, Total | mg/l | 22.9 | 5 | 10-13-95 | Clear,N |
| Manganese, Total | mg/l | 0.127 | 0.015 | 10-10-95 | Clear,N |
| Mercury, Total | mg/l | <0.0002 | 0.0002 | 09-22-95 | Shane,D |
| Nickel, Total | mg/l | <0.04 | 0.04 | 10-10-95 | Clear,N |
| Potassium, Total | mg/l | <5.0 | 5.0 | 10-16-95 | Shane,D |

QUALITY ASSURANCE OFFICER

LABORATORY DIRECTOR



Recycled Paper

EIS ENVIRONMENTAL ENGINEERS, INC. • 1701 North Ironwood Drive • South Bend, Indiana 46635 • 219/277-5715

EIS Lab No: 29114(continued)

| PARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST |
|---|---|---|---|---|---|
| Selenium,Total | mg/l | 0.007 | 0.005 | 10-10-95 | Clear,N |
| Silver,Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N |
| Sodium,Total | mg/l | 12.5 | 5 | 10-13-95 | Clear,N |
| Thallium,Total | mg/l | 0.029 | 0.01 | 10-10-95 | Clear,N |
| Vanadium,Total | mg/l | <0.05 | 0.05 | 10-10-95 | Clear,N |
| Zinc,Total | mg/l | <0.02 | 0.02 | 10-10-95 | Clear,N |
| Pesticide/PCB | | * | | 10-03-95 | Clear,B |
| SVOC (BNA) | | * | | 09-27-95 | Geels,S |
| VOC | | * | | 09-21-95 | Myers,N |
| * See Attached ORGANICS REPORT | | | | | |
| Extract Pest/PCB | | | | 09-21-95 | Thompson,G |
| Extract SVOC (BNA) | | | | 09-20-95 | Thompson,G |
| Mercury Digestion | | | | 09-21-95 | Shane,D |
| Metals Digestion (ICP) | | | | 09-26-95 | Shane,D |

ADDITIONAL INFORMATION

1. Chain-of-Custody document is enclosed.
2. Reference Analytical Methods are enclosed.
3. Sample was iced upon receipt.
   Sample container(s) were properly preserved per USEPA protocols.
   < = Not Detected at the Detection Limit (DL) shown.
6. DL = Detection Limit and is adjusted for dilutions/concentrations.
7. Batch [organic] Quality Control data is enclosed. This data was generated at the time that this sample was analyzed but was performed on a different sample.



Recycled Paper

SAMPLE ID: WT 113 B
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29114

## VOLATILE ORGANIC COMPOUNDS/PETROLEUM HYDROCARBONS

Analysis Method: 8260
Reporting Units: ppb

Abbreviations and report symbols are explained on the following page

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acetone | ND | 10 | c-1,3-Dichloropropene | ND | 10 |
| Benzene | ND | 10 | t-1,3-Dichloropropene | ND | 10 |
| Bromodichloromethane | ND | 10 | Ethylbenzene | ND | 10 |
| Bromoform | ND | 10 | 2-Hexanone | ND | 10 |
| Bromomethane | ND | 10 | Methylene Chloride | ND | 10 |
| Carbon Disulfide | ND | 10 | Methyl Ethyl Ketone | ND | 10 |
| Carbon Tetrachloride | ND | 10 | Methyl Isobutyl Ketone | ND | 10 |
| Chlorobenzene | ND | 10 | Styrene | ND | 10 |
| Chlorodibromomethane | ND | 10 | 1,1,2,2-Tetrachloroethane | ND | 10 |
| Chloroethane | ND | 10 | Tetrachloroethene | ND | 10 |
| Chloroform | ND | 10 | Toluene | ND | 10 |
| Chloromethane | ND | 10 | 1,1,1-Trichloroethane | ND | 10 |
| 1,1-Dichloroethane | ND | 10 | 1,1,2-Trichloroethane | ND | 10 |
| 1,2-Dichloroethane | ND | 10 | Trichloroethene | ND | 10 |
| 1,1-Dichloroethene | ND | 10 | Vinyl Chloride | ND | 1 |
| 1,2-Dichloroethane (Total) | ND | 10 | Xylenes (Total) | ND | 1 |
| 1,2-Dichloropropane | ND | 10 | | | |

SURROGATE RECOVERY

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 1,2-Dichloroethane,d4 | 76 - 114 | 104 |
| Toluene,d8 | 88 - 110 | 104 |
| Bromofluorobenzene | 86 - 115 | 99 |

DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

SAMPLE ID: WT 113 B
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29114

## CHLORINATED PESTICIDE COMPOUNDS

| | | |
|---|---|---|
| Analysis Method: 8081<br>Reporting Units: ppb | Abbreviations and report symbols are explained in DEFINITIONS below | Sample Dilution: None<br>EQL Multiplier: 1 |

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Aldrin | ND | 0.05 | Endrin | ND | 0.1 |
| BHC-Alpha | ND | 0.05 | Endrin Aldehyde | ND | 0.1 |
| BHC-Beta | ND | 0.05 | Endrin Ketone | ND | 0.1 |
| BHC-Delta | ND | 0.05 | Heptachlor | ND | 0.05 |
| BHC-Gamma(Lindane) | ND | 0.05 | Heptachlor Epoxide | ND | 0.05 |
| Chlordane-alpha | ND | 0.05 | Methoxychlor | ND | 0.5 |
| Chlordane-gamma | ND | 0.05 | Toxaphene | ND | 5.0 |
| 4,4'-DDD | ND | 0.1 | Aroclor - 1016 | ND | 1.0 |
| 4,4'-DDE | ND | 0.1 | Aroclor - 1221 | ND | 2.0 |
| 4,4'-DDT | ND | 0.1 | Aroclor - 1232 | ND | 1.0 |
| Dieldrin | ND | 0.1 | Aroclor - 1242 | ND | 1.0 |
| Endosulfan I | ND | 0.05 | Aroclor - 1248 | ND | 1.0 |
| Endosulfan II | ND | 0.1 | Aroclor - 1254 | ND | 1.0 |
| Endosulfan Sulfate | ND | 0.1 | Aroclor - 1260 | ND | 1.0 |

### SURROGATE RECOVERY

| Compound Name | Advisory QC Limits | % Recovery |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 30 - 150 | 92 |
| Decachlorobiphenyl | 30 - 150 | 31 |

### DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

SAMPLE ID: WT 113 B
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29114

## SEMI-VOLATILE ORGANIC COMPOUNDS

Analysis Method: 8270
Reporting Units: ppb

Abbreviations and report symbols are explained on the following page

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acenaphthene | ND | 10 | Dimethylphthalate | ND | 10 |
| Acenaphthylene | ND | 10 | 2,4-Dinitrophenol | ND | 25 |
| Anthracene | ND | 10 | 2,6-Dinitrotoluene | ND | 10 |
| Benzo(a)anthracene | ND | 10 | 2,4-Dinitrotoluene | ND | 10 |
| Benzo(a)pyrene | ND | 10 | Fluoranthene | ND | 10 |
| Benzo(b)fluoranthene | ND | 10 | Fluorene | ND | 10 |
| Benzo(g,h,i)perylene | ND | 10 | Hexachlorobenzene | ND | 10 |
| Benzo(k)fluoranthene | ND | 10 | Hexachlorobutadiene | ND | 10 |
| Bis(2-chloroethoxy)methane | ND | 10 | Hexachlorocyclopentadiene | ND | 10 |
| Bis(2-chloroethyl)ether | ND | 10 | Hexachloroethane | ND | 10 |
| Bis(2-chloroisopropyl)ether | ND | 10 | Indeno(1,2,3-cd)pyrene | ND | 10 |
| Bis(2-ethylhexyl)phthalate | ND | 10 | Isophorone | ND | 10 |
| 4-Bromophenylphenylether | ND | 10 | 2-Methylnaphthalene | ND | 10 |
| Butylbenzylphthalate | ND | 10 | 2-Methylphenol | ND | 10 |
| Carbazole | ND | 10 | 4-Methylphenol | ND | [redacted] |
| 4-Chloro-3-methyl phenol | ND | 10 | 2-Methyl-4,6-dinitrophenol | ND | [redacted] |
| 4-Chloroaniline | ND | 10 | N-Nitrosodi-N-propylamine | ND | 10 |
| 2-Chloronaphthalene | ND | 10 | N-Nitrosodiphenylamine | ND | 10 |
| 2-Chlorophenol | ND | 10 | Naphthalene | ND | 10 |
| 4-Chlorophenylphenylether | ND | 10 | 2-Nitroaniline | ND | 25 |
| Chrysene | ND | 10 | 3-Nitroaniline | ND | 25 |
| Di-n-butylphthalate | ND | 10 | 4-Nitroaniline | ND | 25 |
| Di-n-octylphthalate | ND | 10 | Nitrobenzene | ND | 10 |
| Dibenzo(a,h)anthracene | ND | 10 | 2-Nitrophenol | ND | 10 |
| Dibenzofuran | ND | 10 | 4-Nitrophenol | ND | 25 |
| 1,2-Dichlorobenzene | ND | 10 | Pentachlorophenol | ND | 25 |
| 1,3-Dichlorobenzene | ND | 10 | Phenanthrene | ND | 10 |
| 1,4-Dichlorobenzene | ND | 10 | Phenol | ND | 10 |
| 3,3'-Dichlorobenzidine | ND | 10 | Pyrene | ND | 10 |
| 2,4-Dichlorophenol | ND | 10 | 1,2,4-Trichlorobenzene | ND | 10 |
| Diethylphthalate | ND | 10 | 2,4,5-Trichlorophenol | ND | 25 |
| 2,4-Dimethylphenol | ND | 10 | 2,4,6-Trichlorophenol | ND | 10 |


Recycled Paper

SAMPLE ID: WT 113 B
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29114

# SEMI-VOLATILE ORGANIC COMPOUNDS



## SURROGATE RECOVERY (Method 8270)

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 2-Fluorophenol | 21 - 110 | 39 |
| Phenol,d5 | 10 - 110 | 25 |
| Nitrobenzene,d5 | 35 - 114 | 93 |
| 2-Fluorobiphenyl | 43 - 116 | 92 |
| 2,4,6-Tribromophenol | 10 - 123 | 130 |
| p-Terphenyl,d14 | 33 - 141 | 77 |

## DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.
- * = The Surrogate Compounds have been diluted out.



Recycled Paper

# ANALYTICAL REPORT

Client:
R Lennie Scott, P.E.
Bayer Corporation
1884 Miles Avenue
Elkhart, Indiana 46514
219-262-7234

Report Date: 10-18-95
EIS Lab No: 29115
EIS Project No: 1210-8135-95
EIS Priority: 4
Client P.O.#:
Certification: Indiana Drinking Water Certificate No. C-71-02

Invoice To:
Client

**SAMPLE IDENTIFICATION**
Sample ID: TB-1A
Deionized Water
Date Sampled: 9-15-95
Date Received: 9-19-95

Report To: CLIENT

Extra Report To:

| PARAMETER | RESULT | TEST DATE | ANALYST |
|---|---|---|---|
| VOC | * | 09-21-95 | Myers,N |

* See Attached ORGANICS REPORT

**ADDITIONAL INFORMATION**

1. Chain-of-Custody document is enclosed.
2. Sample was iced upon receipt.
3. Sample container(s) were properly preserved per USEPA protocols.
4. This sample is a Trip Blank for day 1 from Team A.

QUALITY ASSURANCE OFFICER

LABORATORY DIRECTOR

SAMPLE ID: TB-1A
Deionized Water

REPORT DATE: 10/18/95
EIS LAB NO: 29115

## VOLATILE ORGANIC COMPOUNDS/PETROLEUM HYDROCARBONS

| | | |
|---|---|---|
| Analysis Method: 8260<br>Reporting Units: ppb | Abbreviations and report symbols are explained on the following page | Sample Dilution: None<br>EQL Multiplier: 1 |

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acetone | ND | 10 | c-1,3-Dichloropropene | ND | 10 |
| Benzene | ND | 10 | t-1,3-Dichloropropene | ND | 10 |
| Bromodichloromethane | ND | 10 | Ethylbenzene | ND | 10 |
| Bromoform | ND | 10 | 2-Hexanone | ND | 10 |
| Bromomethane | ND | 10 | Methylene Chloride | ND | 10 |
| Carbon Disulfide | ND | 10 | Methyl Ethyl Ketone | ND | 10 |
| Carbon Tetrachloride | ND | 10 | Methyl Isobutyl Ketone | ND | 10 |
| Chlorobenzene | ND | 10 | Styrene | ND | 10 |
| Chlorodibromomethane | ND | 10 | 1,1,2,2-Tetrachloroethane | ND | 10 |
| Chloroethane | ND | 10 | Tetrachloroethene | ND | 10 |
| Chloroform | ND | 10 | Toluene | ND | 10 |
| Chloromethane | ND | 10 | 1,1,1-Trichloroethane | ND | 10 |
| 1,1-Dichloroethane | ND | 10 | 1,1,2-Trichloroethane | ND | 10 |
| 2-Dichloroethane | ND | 10 | Trichloroethene | ND | 10 |
| -Dichloroethene | ND | 10 | Vinyl Chloride | ND | 10 |
| 2-Dichloroethene (Total) | ND | 10 | Xylenes (Total) | ND | 10 |
| 1,2-Dichloropropane | ND | 10 | | | |

### SURROGATE RECOVERY

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 1,2-Dichloroethane,d4 | 76 - 114 | 101 |
| Toluene,d8 | 88 - 110 | 103 |
| Bromofluorobenzene | 86 - 115 | 95 |

### DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

# ANALYTICAL REPORT

Client:
R Lennie Scott, P.E.
Bayer Corporation
1884 Miles Avenue
Elkhart, Indiana 46514
219-262-7234

Report Date: 10-18-95
EIS Lab No: 29148
EIS Project No: 1210-8135-95
EIS Priority: 4
Client P.O.#:
Certification: Indiana Drinking Water Certificate No. C-71-02

Invoice To:
Client

SAMPLE IDENTIFICATION
Sample ID: WT 112 A + MS/DMS
Monitoring Well
Date Sampled: 9-19-95
Date Received: 9-20-95

Report To: CLIENT

Extra Report To:

| PARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST | QUALITY CONTROL RSD % | SPIKE LEVEL | MS %R | DMS %R | RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide,Total | mg/l | <0.01 | 0.01 | 09-29-95 | Shane,D | 0 | 0.04 | 102 | 102 | 0 |
| Aluminum,Total | mg/l | <0.2 | 0.2 | 10-10-95 | Clear,N | 0 | 2.0 | 97 | 96 | 1.0 |
| Antimony,Total | mg/l | <0.06 | 0.06 | 10-10-95 | Clear,N | 0 | 0.5 | 106 | 104 | 1.9 |
| Arsenic,Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N | 0 | 2.0 | 100 | 100 | 0 |
| Barium,Total | mg/l | <0.2 | 0.2 | 10-10-95 | Clear,N | 0 | 2.0 | 92 | 92 | 0 |
| Beryllium,Total | mg/l | <0.005 | 0.005 | 10-10-95 | Clear,N | 0 | 0.05 | 84 | 84 | 0 |
| Cadmium,Total | mg/l | <0.005 | 0.005 | 10-10-95 | Clear,N | 0 | 0.05 | 104 | 106 | -1.9 |
| Calcium,Total | mg/l | 190 | 5 | 10-16-95 | Clear,N | 1.5 | 10 | 91 | 93 | -2.2 |
| Chromium,Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N | 0 | 0.2 | 80 | 80 | 0 |
| Cobalt,Total | mg/l | <0.05 | 0.05 | 10-10-95 | Clear,N | 0 | 0.5 | 78 | 78 | 0 |
| Copper,Total | mg/l | <0.025 | 0.025 | 10-10-95 | Clear,N | 0 | 0.25 | 92 | 92 | 0 |
| Iron,Total | mg/l | <0.1 | 0.1 | 10-10-95 | Clear,N | 0 | 1.0 | 77 | 79 | -2.6 |
| Lead,Total | mg/l | 0.009 | 0.003 | 10-10-95 | Clear,N | 78 | 0.5 | 86 | 86 | 0 |
| Magnesium,Total | mg/l | 14.2 | 5 | 10-13-95 | Clear,N | 0.5 | 10 | 97 | 97 | 0 |
| Manganese,Total | mg/l | <0.015 | 0.015 | 10-10-95 | Clear,N | 0 | 0.5 | 82 | 82 | 0 |
| Mercury,Total | mg/l | <0.0002 | 0.0002 | 09-22-95 | Shane,D | 0 | 0.0005 | 98 | 98 | 0 |
| Nickel,Total | mg/l | <0.04 | 0.04 | 10-10-95 | Clear,N | 0 | 0.5 | 82 | 82 | 0 |
| Potassium,Total | mg/l | <5.0 | 5.0 | 10-16-95 | Shane,D | 0 | 0.4 | 107 | 107 | 0 |

QUALITY ASSURANCE OFFICER

LABORATORY DIRECTOR



Recycled Paper

EIS ENVIRONMENTAL ENGINEERS, INC. • 1701 North Ironwood Drive • South Bend, Indiana 46635 • 219/277-5715

EIS Lab No: 29148(continued)

| PARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST | QUALITY CONTROL RSD % | SPIKE LEVEL | MS %R | DMS %R | RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Selenium,Total | mg/l | 0.018 | 0.005 | 10-10-95 | Clear,N | 47 | 2.0 | 91 | 92 | -1.1 |
| Silver,Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N | 0 | 0.05 | 94 | 86 | 8.9 |
| Sodium,Total | mg/l | 10.8 | 5 | 10-13-95 | Clear,N | 3.3 | 10 | 101 | 99 | 2.0 |
| Thallium,Total | mg/l | 0.014 | 0.01 | 10-17-95 | Clear,N | 38 | 2.0 | 58[10] | 62[10] | -6.7 |
| Vanadium,Total | mg/l | <0.05 | 0.05 | 10-10-95 | Clear,N | 0 | 0.5 | 86 | 88 | -2.3 |
| Zinc,Total | mg/l | <0.02 | 0.02 | 10-10-95 | Clear,N | 0 | 0.5 | 78 | 78 | 0 |
| Pesticide/PCB | | * | | 10-03-95 | Clear,B | | | | | |
| SVOC (BNA) | | * | | 09-27-95 | Geels,S | | | | | |
| VOC | | * | | 09-21-95 | Myers,N | | | | | |
| Extract Pest/PCB | | | | 09-21-95 | Thompson,G | | | | | |
| Extract SVOC (BNA) | | | | 09-22-95 | Thompson,G | | | | | |
| Mercury Digestion | | | | 09-21-95 | Shane,D | | | | | |
| Metals Digestion (ICP) | | | | 10-09-95 | Shane,D | | | | | |

* See Attached ORGANICS REPORT

**ADDITIONAL INFORMATION**

1. Chain-of-Custody document is enclosed.
2. Reference Analytical Methods are enclosed.
3. Sample was iced upon receipt.
   Sample container(s) were properly preserved per USEPA protocols.
   < = Not Detected at the Detection Limit (DL) shown.
6. DL = Detection Limit and is adjusted for dilutions/concentrations.
7. Quality Control definitions are as follows:
   %RSD = Precision of replicate analysis for this sample.
   Spike Level = Parameter Spike amount in units of the result.
   %R = Matrix Spike(MS)/Duplicate Matrix Spike(DMS) recovery.
   %RPD = Precision of Matrix Spike recovery values.
8. Inorganic Quality Control limits are enclosed.
9. This sample was submitted for Quality Control analysis.
   Results of the Organic Matrix Spikes/Duplicate Spikes are enclosed.
10. A post digestion spike was also performed for Thallium with recoveries (%R) of 77 & 79%.



Recycled Paper

SAMPLE ID: WT 112 A + MS/DMS
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29148

## VOLATILE ORGANIC COMPOUNDS/PETROLEUM HYDROCARBONS

| | | |
|---|---|---|
| Analysis Method: 8260<br>Reporting Units: ppb | Abbreviations and report symbols are explained on the following page | Sample Dilution: None<br>EQL Multiplier: 1 |

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acetone | ND | 10 | c-1,3-Dichloropropene | ND | 10 |
| Benzene | ND | 10 | t-1,3-Dichloropropene | ND | 10 |
| Bromodichloromethane | ND | 10 | Ethylbenzene | ND | 10 |
| Bromoform | ND | 10 | 2-Hexanone | ND | 10 |
| Bromomethane | ND | 10 | Methylene Chloride | ND | 10 |
| Carbon Disulfide | ND | 10 | Methyl Ethyl Ketone | ND | 10 |
| Carbon Tetrachloride | ND | 10 | Methyl Isobutyl Ketone | ND | 10 |
| Chlorobenzene | ND | 10 | Styrene | ND | 10 |
| Chlorodibromomethane | ND | 10 | 1,1,2,2-Tetrachloroethane | ND | 10 |
| Chloroethane | ND | 10 | Tetrachloroethene | ND | 10 |
| Chloroform | ND | 10 | Toluene | ND | 10 |
| Chloromethane | ND | 10 | 1,1,1-Trichloroethane | ND | 10 |
| 1,1-Dichloroethane | ND | 10 | 1,1,2-Trichloroethane | ND | 10 |
| 1,2-Dichloroethane | ND | 10 | Trichloroethene | ND | 10 |
| 1,1-Dichloroethene | ND | 10 | Vinyl Chloride | ND | [redacted] |
| 1,2-Dichloroethene (Total) | ND | 10 | Xylenes (Total) | ND | [redacted] |
| 1,2-Dichloropropane | ND | 10 | | | |

### SURROGATE RECOVERY

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 1,2-Dichloroethane,d4 | 76 - 114 | 99 |
| Toluene,d8 | 88 - 110 | 102 |
| Bromofluorobenzene | 86 - 115 | 96 |

### DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

SAMPLE ID: WT 112 A + MS/DMS
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29148

## CHLORINATED PESTICIDE COMPOUNDS

| | | |
|---|---|---|
| Analysis Method: 8081<br>Reporting Units: ppb | Abbreviations and report symbols are explained in DEFINITIONS below | Sample Dilution: None<br>EQL Multiplier: 1 |

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Aldrin | ND | 0.05 | Endrin | ND | 0.1 |
| BHC-Alpha | ND | 0.05 | Endrin Aldehyde | ND | 0.1 |
| BHC-Beta | ND | 0.05 | Endrin Ketone | ND | 0.1 |
| BHC-Delta | ND | 0.05 | Heptachlor | ND | 0.05 |
| BHC-Gamma(Lindane) | ND | 0.05 | Heptachlor Epoxide | ND | 0.05 |
| Chlordane-alpha | ND | 0.05 | Methoxychlor | ND | 0.5 |
| Chlordane-gamma | ND | 0.05 | Toxaphene | ND | 5.0 |
| 4,4'-DDD | ND | 0.1 | Aroclor - 1016 | ND | 1.0 |
| 4,4'-DDE | ND | 0.1 | Aroclor - 1221 | ND | 2.0 |
| 4,4'-DDT | ND | 0.1 | Aroclor - 1232 | ND | 1.0 |
| Dieldrin | ND | 0.1 | Aroclor - 1242 | ND | 1.0 |
| Endosulfan I | ND | 0.05 | Aroclor - 1248 | ND | 1.0 |
| Endosulfan II | ND | 0.1 | Aroclor - 1254 | ND | 1.0 |
| Endosulfan Sulfate | ND | 0.1 | Aroclor - 1260 | ND | 1.0 |

### SURROGATE RECOVERY

| Compound Name | Advisory QC Limits | % Recovery |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 30 - 150 | 72 |
| Decachlorobiphenyl | 30 - 150 | 99 |

### DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

SAMPLE ID: WT 112 A + MS/DMS
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29148

## SEMI-VOLATILE ORGANIC COMPOUNDS

Analysis Method: 8270
Reporting Units: ppb

Abbreviations and report symbols are explained on the following page

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acenaphthene | ND | 10 | Dimethylphthalate | ND | 10 |
| Acenaphthylene | ND | 10 | 2,4-Dinitrophenol | ND | 25 |
| Anthracene | ND | 10 | 2,6-Dinitrotoluene | ND | 10 |
| Benzo(a)anthracene | ND | 10 | 2,4-Dinitrotoluene | ND | 10 |
| Benzo(a)pyrene | ND | 10 | Fluoranthene | ND | 10 |
| Benzo(b)fluoranthene | ND | 10 | Fluorene | ND | 10 |
| Benzo(g,h,i)perylene | ND | 10 | Hexachlorobenzene | ND | 10 |
| Benzo(k)fluoranthene | ND | 10 | Hexachlorobutadiene | ND | 10 |
| Bis(2-chloroethoxy)methane | ND | 10 | Hexachlorocyclopentadiene | ND | 10 |
| Bis(2-chloroethyl)ether | ND | 10 | Hexachloroethane | ND | 10 |
| Bis(2-chloroisopropyl)ether | ND | 10 | Indeno(1,2,3-cd)pyrene | ND | 10 |
| Bis(2-ethylhexyl)phthalate | ND | 10 | Isophorone | ND | 10 |
| 4-Bromophenylphenylether | ND | 10 | 2-Methylnaphthalene | ND | 10 |
| Butylbenzylphthalate | ND | 10 | 2-Methylphenol | ND | 10 |
| Carbazole | ND | 10 | 4-Methylphenol | ND | |
| 4-Chloro-3-methyl phenol | ND | 10 | 2-Methyl-4,6-dinitrophenol | ND | |
| 4-Chloroaniline | ND | 10 | N-Nitrosodi-N-propylamine | ND | 10 |
| 2-Chloronaphthalene | ND | 10 | N-Nitrosodiphenylamine | ND | 10 |
| 2-Chlorophenol | ND | 10 | Naphthalene | ND | 10 |
| 4-Chlorophenylphenylether | ND | 10 | 2-Nitroaniline | ND | 25 |
| Chrysene | ND | 10 | 3-Nitroaniline | ND | 25 |
| Di-n-butylphthalate | ND | 10 | 4-Nitroaniline | ND | 25 |
| Di-n-octylphthalate | ND | 10 | Nitrobenzene | ND | 10 |
| Dibenzo(a,h)anthracene | ND | 10 | 2-Nitrophenol | ND | 10 |
| Dibenzofuran | ND | 10 | 4-Nitrophenol | ND | 25 |
| 1,2-Dichlorobenzene | ND | 10 | Pentachlorophenol | ND | 25 |
| 1,3-Dichlorobenzene | ND | 10 | Phenanthrene | ND | 10 |
| 1,4-Dichlorobenzene | ND | 10 | Phenol | ND | 10 |
| 3,3'-Dichlorobenzidine | ND | 10 | Pyrene | ND | 10 |
| 2,4-Dichlorophenol | ND | 10 | 1,2,4-Trichlorobenzene | ND | 10 |
| Diethylphthalate | ND | 10 | 2,4,5-Trichlorophenol | ND | 25 |
| 2,4-Dimethylphenol | ND | 10 | 2,4,6-Trichlorophenol | ND | 10 |


Recycled Paper

SAMPLE ID: WT-112 A + MS/DMS
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29148

# SEMI-VOLATILE ORGANIC COMPOUNDS



## SURROGATE RECOVERY (Method 8270)

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 2-Fluorophenol | 21 - 110 | 53 |
| Phenol,d5 | 10 - 110 | 34 |
| Nitrobenzene,d5 | 35 - 114 | 85 |
| 2-Fluorobiphenyl | 43 - 116 | 78 |
| 2,4,6-Tribromophenol | 10 - 123 | 122 |
| p-Terphenyl,d14 | 33 - 141 | 74 |

## DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.
- * = The Surrogate Compounds have been diluted out.



Recycled Paper

# ANALYTICAL REPORT

Client:
R Lennie Scott, P.E.
Bayer Corporation
1884 Miles Avenue
Elkhart, Indiana 46514
219-262-7234

Report Date: 10-18-95
EIS Lab No: 29149
EIS Project No: 1210-8135-95
EIS Priority: 4
Client P.O.#:
Certification: Indiana Drinking Water Certificate No. C-71-02

Invoice To:
Client

**SAMPLE IDENTIFICATION**
Sample ID: WT 112 B
Monitoring Well
Date Sampled: 9-19-95
Date Received: 9-20-95

Report To: CLIENT

Extra Report To:

| PARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST |
|---|---|---|---|---|---|
| Cyanide,Total | mg/l | <0.01 | 0.01 | 09-29-95 | Shane,D |
| Aluminum,Total | mg/l | <0.2 | 0.2 | 10-10-95 | Clear,N |
| Antimony,Total | mg/l | <0.06 | 0.06 | 10-10-95 | Clear,N |
| Arsenic,Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N |
| Barium,Total | mg/l | <0.2 | 0.2 | 10-10-95 | Clear,N |
| Beryllium,Total | mg/l | <0.005 | 0.005 | 10-10-95 | Clear,N |
| Cadmium,Total | mg/l | <0.005 | 0.005 | 10-10-95 | Clear,N |
| Calcium,Total | mg/l | 71.4 | 5 | 10-16-95 | Clear,N |
| Chromium,Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N |
| Cobalt,Total | mg/l | <0.05 | 0.05 | 10-10-95 | Clear,N |
| Copper,Total | mg/l | <0.025 | 0.025 | 10-10-95 | Clear,N |
| Iron,Total | mg/l | 2.75 | 0.1 | 10-10-95 | Clear,N |
| Lead,Total | mg/l | 0.004 | 0.003 | 10-10-95 | Clear,N |
| Magnesium,Total | mg/l | 21.8 | 5 | 10-13-95 | Clear,N |
| Manganese,Total | mg/l | 0.115 | 0.015 | 10-10-95 | Clear,N |
| Mercury,Total | mg/l | <0.0002 | 0.0002 | 09-22-95 | Shane,D |
| Nickel,Total | mg/l | <0.04 | 0.04 | 10-10-95 | Clear,N |
| Potassium,Total | mg/l | <5.0 | 5.0 | 10-16-95 | Shane,D |

QUALITY ASSURANCE OFFICER

LABORATORY DIRECTOR

EIS Lab No: 29149(continued)

| PARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST |
|---|---|---|---|---|---|
| Selenium,Total | mg/l | 0.006 | 0.005 | 10-10-95 | Clear,N |
| Silver,Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N |
| Sodium,Total | mg/l | 20.2 | 5 | 10-13-95 | Clear,N |
| Thallium,Total | mg/l | 0.021 | 0.01 | 10-10-95 | Clear,N |
| Vanadium,Total | mg/l | <0.05 | 0.05 | 10-10-95 | Clear,N |
| Zinc,Total | mg/l | 0.038 | 0.02 | 10-10-95 | Clear,N |
| Pesticide/PCB | | * | | 10-06-95 | Clear,B |
| SVOC (BNA) | | * | | 09-27-95 | Geels,S |
| VOC | | * | | 09-21-95 | Myers,N |
| * See Attached ORGANICS REPORT | | | | | |
| Extract Pest/PCB | | | | 09-21-95 | Thompson,G |
| Extract SVOC (BNA) | | | | 09-22-95 | Thompson,G |
| Mercury Digestion | | | | 09-21-95 | Shane,D |
| Metals Digestion (ICP) | | | | 09-26-95 | Shane,D |

ADDITIONAL INFORMATION

1. Chain-of-Custody document is enclosed.
2. Reference Analytical Methods are enclosed.
3. Sample was iced upon receipt.
   Sample container(s) were properly preserved per USEPA protocols.
4. < = Not Detected at the Detection Limit (DL) shown.
5. DL = Detection Limit and is adjusted for dilutions/concentrations.
6. Batch [organic] Quality Control data is enclosed. This data was generated at the time that this sample was analyzed but was performed on a different sample.



Recycled Paper

SAMPLE ID: WT 112 B
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29149

## VOLATILE ORGANIC COMPOUNDS/PETROLEUM HYDROCARBONS

| | | |
|---|---|---|
| Analysis Method: 8260<br>Reporting Units: ppb | Abbreviations and report symbols are explained on the following page | Sample Dilution: None<br>EQL Multiplier: 1 |

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acetone | ND | 10 | c-1,3-Dichloropropene | ND | 10 |
| Benzene | ND | 10 | t-1,3-Dichloropropene | ND | 10 |
| Bromodichloromethane | ND | 10 | Ethylbenzene | ND | 10 |
| Bromoform | ND | 10 | 2-Hexanone | ND | 10 |
| Bromomethane | ND | 10 | Methylene Chloride | ND | 10 |
| Carbon Disulfide | ND | 10 | Methyl Ethyl Ketone | ND | 10 |
| Carbon Tetrachloride | ND | 10 | Methyl Isobutyl Ketone | ND | 10 |
| Chlorobenzene | ND | 10 | Styrene | ND | 10 |
| Chlorodibromomethane | ND | 10 | 1,1,2,2-Tetrachloroethane | ND | 10 |
| Chloroethane | ND | 10 | Tetrachloroethene | ND | 10 |
| Chloroform | ND | 10 | Toluene | ND | 10 |
| Chloromethane | ND | 10 | 1,1,1-Trichloroethane | ND | 10 |
| 1,1-Dichloroethane | ND | 10 | 1,1,2-Trichloroethane | ND | 10 |
| 1,2-Dichloroethane | ND | 10 | Trichloroethene | ND | |
| 1,1-Dichloroethene | ND | 10 | Vinyl Chloride | ND | |
| 1,2-Dichloroethene (Total) | ND | 10 | Xylenes (Total) | ND | |
| 1,2-Dichloropropane | ND | 10 | | | |

SURROGATE RECOVERY

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 1,2-Dichloroethane,d4 | 76 - 114 | 103 |
| Toluene,d8 | 88 - 110 | 100 |
| Bromofluorobenzene | 86 - 115 | 99 |

DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

SAMPLE ID: WT 112 B
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29149

## CHLORINATED PESTICIDE COMPOUNDS

Analysis Method: 8081
Reporting Units: ppb

Abbreviations and report symbols are explained in DEFINITIONS below

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Aldrin | ND | 0.05 | Endrin | ND | 0.1 |
| BHC-Alpha | ND | 0.05 | Endrin Aldehyde | ND | 0.1 |
| BHC-Beta | ND | 0.05 | Endrin Ketone | ND | 0.1 |
| BHC-Delta | ND | 0.05 | Heptachlor | ND | 0.05 |
| BHC-Gamma(Lindane) | ND | 0.05 | Heptachlor Epoxide | ND | 0.05 |
| Chlordane-alpha | ND | 0.05 | Methoxychlor | ND | 0.5 |
| Chlordane-gamma | ND | 0.05 | Toxaphene | ND | 5.0 |
| 4,4'-DDD | ND | 0.1 | Aroclor - 1016 | ND | 1.0 |
| 4,4'-DDE | ND | 0.1 | Aroclor - 1221 | ND | 2.0 |
| 4,4'-DDT | ND | 0.1 | Aroclor - 1232 | ND | 1.0 |
| Dieldrin | ND | 0.1 | Aroclor - 1242 | ND | 1.0 |
| Endosulfan I | ND | 0.05 | Aroclor - 1248 | ND | 1.0 |
| Endosulfan II | ND | 0.1 | Aroclor - 1254 | ND | 1.0 |
| Endosulfan Sulfate | ND | 0.1 | Aroclor - 1260 | ND | 1.0 |

### SURROGATE RECOVERY

| Compound Name | Advisory QC Limits | % Recovery |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 30 - 150 | 80 |
| Decachlorobiphenyl | 30 - 150 | 56 |

### DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

SAMPLE ID: WT 112 B
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29149

## SEMI-VOLATILE ORGANIC COMPOUNDS

Analysis Method: 8270
Reporting Units: ppb

Abbreviations and report symbols are explained on the following page

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acenaphthene | ND | 10 | Dimethylphthalate | ND | 10 |
| Acenaphthylene | ND | 10 | 2,4-Dinitrophenol | ND | 25 |
| Anthracene | ND | 10 | 2,6-Dinitrotoluene | ND | 10 |
| Benzo(a)anthracene | ND | 10 | 2,4-Dinitrotoluene | ND | 10 |
| Benzo(a)pyrene | ND | 10 | Fluoranthene | ND | 10 |
| Benzo(b)fluoranthene | ND | 10 | Fluorene | ND | 10 |
| Benzo(g,h,i)perylene | ND | 10 | Hexachlorobenzene | ND | 10 |
| Benzo(k)fluoranthene | ND | 10 | Hexachlorobutadiene | ND | 10 |
| Bis(2-chloroethoxy)methane | ND | 10 | Hexachlorocyclopentadiene | ND | 10 |
| Bis(2-chloroethyl)ether | ND | 10 | Hexachloroethane | ND | 10 |
| Bis(2-chloroisopropyl)ether | ND | 10 | Indeno(1,2,3-cd)pyrene | ND | 10 |
| Bis(2-ethylhexyl)phthalate | ND | 10 | Isophorone | ND | 10 |
| 4-Bromophenylphenylether | ND | 10 | 2-Methylnaphthalene | ND | 10 |
| Butylbenzylphthalate | ND | 10 | 2-Methylphenol | ND | 10 |
| Carbazole | ND | 10 | 4-Methylphenol | ND | [redacted] |
| 4-Chloro-3-methyl phenol | ND | 10 | 2-Methyl-4,6-dinitrophenol | ND | [redacted] |
| 4-Chloroaniline | ND | 10 | N-Nitrosodi-N-propylamine | ND | 10 |
| 2-Chloronaphthalene | ND | 10 | N-Nitrosodiphenylamine | ND | 10 |
| 2-Chlorophenol | ND | 10 | Naphthalene | ND | 10 |
| 4-Chlorophenylphenylether | ND | 10 | 2-Nitroaniline | ND | 25 |
| Chrysene | ND | 10 | 3-Nitroaniline | ND | 25 |
| Di-n-butylphthalate | ND | 10 | 4-Nitroaniline | ND | 25 |
| Di-n-octylphthalate | ND | 10 | Nitrobenzene | ND | 10 |
| Dibenzo(a,h)anthracene | ND | 10 | 2-Nitrophenol | ND | 10 |
| Dibenzofuran | ND | 10 | 4-Nitrophenol | ND | 25 |
| 1,2-Dichlorobenzene | ND | 10 | Pentachlorophenol | ND | 25 |
| 1,3-Dichlorobenzene | ND | 10 | Phenanthrene | ND | 10 |
| 1,4-Dichlorobenzene | ND | 10 | Phenol | ND | 10 |
| 3,3'-Dichlorobenzidine | ND | 10 | Pyrene | ND | 10 |
| 2,4-Dichlorophenol | ND | 10 | 1,2,4-Trichlorobenzene | ND | 10 |
| Diethylphthalate | ND | 10 | 2,4,5-Trichlorophenol | ND | 25 |
| 2,4-Dimethylphenol | ND | 10 | 2,4,6-Trichlorophenol | ND | 10 |


Recycled Paper

SAMPLE ID: WT 112 B
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29149

## SEMI-VOLATILE ORGANIC COMPOUNDS



SURROGATE RECOVERY (Method 8270)

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 2-Fluorophenol | 21 - 110 | 43 |
| Phenol,d5 | 10 - 110 | 27 |
| Nitrobenzene,d5 | 35 - 114 | 80 |
| 2-Fluorobiphenyl | 43 - 116 | 78 |
| 2,4,6-Tribromophenol | 10 - 123 | 144 |
| p-Terphenyl,d14 | 33 - 141 | 73 |

DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.
- * = The Surrogate Compounds have been diluted out.



Recycled Paper

# ANALYTICAL REPORT

Client:
R Lennie Scott, P.E.
Bayer Corporation
1884 Miles Avenue
Elkhart, Indiana 46514
219-262-7234

Report Date: 10-18-95
EIS Lab No: 29150
EIS Project No: 1210-8135-95
EIS Priority: 4
Client P.O.#:
Certification: Indiana Drinking Water Certificate No. C-71-02

Invoice To:
Client

**SAMPLE IDENTIFICATION**
Sample ID: TB-2A
Deionized Water
Date Sampled: 9-15-95
Date Received: 9-20-95

Report To: CLIENT

Extra Report To:

| PARAMETER | RESULT | TEST DATE | ANALYST |
|---|---|---|---|
| VOC | * | 09-22-95 | Myers,N |

* See Attached ORGANICS REPORT

**ADDITIONAL INFORMATION**

1. Chain-of-Custody document is enclosed.
2. Sample was iced upon receipt.
3. Sample container(s) were properly preserved per USEPA protocols.
4. This sample is a Trip Blank for day 2 from Team A.

QUALITY ASSURANCE OFFICER

LABORATORY DIRECTOR

SAMPLE ID: TB-2A
Deionized Water

REPORT DATE: 10/18/95
EIS LAB NO: 29150

## VOLATILE ORGANIC COMPOUNDS/PETROLEUM HYDROCARBONS

| Analysis Method: 8260 | Abbreviations and report symbols are explained on the following page | Sample Dilution: None |
|---|---|---|
| Reporting Units: ppb | | EQL Multiplier: 1 |

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acetone | ND | 10 | c-1,3-Dichloropropene | ND | 10 |
| Benzene | ND | 10 | t-1,3-Dichloropropene | ND | 10 |
| Bromodichloromethane | ND | 10 | Ethylbenzene | ND | 10 |
| Bromoform | ND | 10 | 2-Hexanone | ND | 10 |
| Bromomethane | ND | 10 | Methylene Chloride | ND | 10 |
| Carbon Disulfide | ND | 10 | Methyl Ethyl Ketone | ND | 10 |
| Carbon Tetrachloride | ND | 10 | Methyl Isobutyl Ketone | ND | 10 |
| Chlorobenzene | ND | 10 | Styrene | ND | 10 |
| Chlorodibromomethane | ND | 10 | 1,1,2,2-Tetrachloroethane | ND | 10 |
| Chloroethane | ND | 10 | Tetrachloroethene | ND | 10 |
| Chloroform | ND | 10 | Toluene | ND | 10 |
| Chloromethane | ND | 10 | 1,1,1-Trichloroethane | ND | 10 |
| 1,1-Dichloroethane | ND | 10 | 1,1,2-Trichloroethane | ND | 10 |
| 1,2-Dichloroethane | ND | 10 | Trichloroethene | ND | 10 |
| 1-Dichloroethene | ND | 10 | Vinyl Chloride | ND | 10 |
| 2-Dichloroethene (Total) | ND | 10 | Xylenes (Total) | ND | 10 |
| 1,2-Dichloropropane | ND | 10 | | | |

### SURROGATE RECOVERY

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 1,2-Dichloroethane,d4 | 76 - 114 | 100 |
| Toluene,d8 | 88 - 110 | 102 |
| Bromofluorobenzene | 86 - 115 | 95 |

### DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

# ANALYTICAL REPORT

Client:
R Lennie Scott, P.E.
Bayer Corporation
1884 Miles Avenue
Elkhart, Indiana 46514
219-262-7234

Report Date: 10-18-95
EIS Lab No: 29158
EIS Project No: 1210-8135-95
EIS Priority: 4
Client P.O.#:
Certification: Indiana Drinking Water Certificate No. C-71-02

Invoice To:
Client

**SAMPLE IDENTIFICATION**
Sample ID: WT 102 A
Monitoring Well
Date Sampled: 9-20-95
Date Received: 9-20-95

Report To: CLIENT

Extra Report To:

| PARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST |
|---|---|---|---|---|---|
| Cyanide,Total | mg/l | <0.01 | 0.01 | 09-29-95 | Shane,D |
| Aluminum,Total | mg/l | <0.2 | 0.2 | 10-10-95 | Clear,N |
| Antimony,Total | mg/l | <0.06 | 0.06 | 10-10-95 | Clear,N |
| Arsenic,Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N |
| Barium,Total | mg/l | <0.2 | 0.2 | 10-10-95 | Clear,N |
| Beryllium,Total | mg/l | <0.005 | 0.005 | 10-10-95 | Clear,N |
| Cadmium,Total | mg/l | <0.005 | 0.005 | 10-10-95 | Clear,N |
| Calcium,Total | mg/l | 170 | 5 | 10-16-95 | Clear,N |
| Chromium,Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N |
| Cobalt,Total | mg/l | <0.05 | 0.05 | 10-10-95 | Clear,N |
| Copper,Total | mg/l | <0.025 | 0.025 | 10-10-95 | Clear,N |
| Iron,Total | mg/l | <0.10 | 0.1 | 10-10-95 | Clear,N |
| Lead,Total | mg/l | <0.003 | 0.003 | 10-10-95 | Clear,N |
| Magnesium,Total | mg/l | 16.2 | 5 | 10-13-95 | Clear,N |
| Manganese,Total | mg/l | 0.021 | 0.015 | 10-10-95 | Clear,N |
| Mercury,Total | mg/l | <0.0002 | 0.0002 | 09-22-95 | Shane,D |
| Nickel,Total | mg/l | <0.04 | 0.04 | 10-10-95 | Clear,N |
| Potassium,Total | mg/l | <5.0 | 5.0 | 10-16-95 | Shane,D |

QUALITY ASSURANCE OFFICER

LABORATORY DIRECTOR



Recycled Paper

EIS ENVIRONMENTAL ENGINEERS, INC. • 1701 North Ironwood Drive • South Bend, Indiana 46635 • 219/277-5715

EIS Lab No: 29158(continued)

| PARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST |
|---|---|---|---|---|---|
| Selenium,Total | mg/l | <0.005 | 0.005 | 10-10-95 | Clear,N |
| Silver,Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N |
| Sodium,Total | mg/l | 50.0 | 5 | 10-13-95 | Clear,N |
| Thallium,Total | mg/l | 0.020 | 0.01 | 10-10-95 | Clear,N |
| Vanadium,Total | mg/l | <0.05 | 0.05 | 10-10-95 | Clear,N |
| Zinc,Total | mg/l | <0.02 | 0.02 | 10-10-95 | Clear,N |
| Pesticide/PCB | | * | | 10-06-95 | Clear,B |
| SVOC (BNA) | | * | | 09-28-95 | Geels,S |
| VOC | | * | | 09-21-95 | Myers,N |
| * See Attached ORGANICS REPORT | | | | | |
| Extract Pest/PCB | | | | 09-21-95 | Thompson,G |
| Extract SVOC (BNA) | | | | 09-25-95 | Thompson,G |
| Mercury Digestion | | | | 09-21-95 | Shane,D |
| Metals Digestion (ICP) | | | | 09-26-95 | Shane,D |

ADDITIONAL INFORMATION

1. Chain-of-Custody document is enclosed.
2. Reference Analytical Methods are enclosed.
3. Sample was iced upon receipt.
   Sample container(s) were properly preserved per USEPA protocols.
   < = Not Detected at the Detection Limit (DL) shown.
6. DL = Detection Limit and is adjusted for dilutions/concentrations.
7. Batch [organic] Quality Control data is enclosed. This data was generated at the time that this sample was analyzed but was performed on a different sample.



Recycled Paper

SAMPLE ID: WT 102 A
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29158

# VOLATILE ORGANIC COMPOUNDS/PETROLEUM HYDROCARBONS

Analysis Method: 8260
Reporting Units: ppb

Abbreviations and report symbols are explained on the following page

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acetone | ND | 10 | c-1,3-Dichloropropane | ND | 10 |
| Benzene | ND | 10 | t-1,3-Dichloropropene | ND | 10 |
| Bromodichloromethane | ND | 10 | Ethylbenzene | ND | 10 |
| Bromoform | ND | 10 | 2-Hexanone | ND | 10 |
| Bromomethane | ND | 10 | Methylene Chloride | ND | 10 |
| Carbon Disulfide | ND | 10 | Methyl Ethyl Ketone | ND | 10 |
| Carbon Tetrachloride | ND | 10 | Methyl Isobutyl Ketone | ND | 10 |
| Chlorobenzene | ND | 10 | Styrene | ND | 10 |
| Chlorodibromomethane | ND | 10 | 1,1,2,2-Tetrachloroethane | ND | 10 |
| Chloroethane | ND | 10 | Tetrachloroethene | ND | 10 |
| Chloroform | ND | 10 | Toluene | ND | 10 |
| Chloromethane | ND | 10 | 1,1,1-Trichloroethane | ND | 10 |
| 1,1-Dichloroethane | ND | 10 | 1,1,2-Trichloroethane | ND | 10 |
| 1,2-Dichloroethane | ND | 10 | Trichloroethene | ND | 10 |
| 1,1-Dichloroethene | ND | 10 | Vinyl Chloride | ND | 1 |
| 1,2-Dichloroethene (Total) | ND | 10 | Xylenes (Total) | ND | 10 |
| 1,2-Dichloropropane | ND | 10 | | | |

## SURROGATE RECOVERY

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 1,2-Dichloroethane,d4 | 76 - 114 | 100 |
| Toluene,d8 | 88 - 110 | 104 |
| Bromofluorobenzene | 86 - 115 | 99 |

## DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

SAMPLE ID: WT 102 A
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29158

## CHLORINATED PESTICIDE COMPOUNDS

Analysis Method: 8081
Reporting Units: ppb

Abbreviations and report symbols are explained in DEFINITIONS below

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Aldrin | ND | 0.05 | Endrin | ND | 0.1 |
| BHC-Alpha | ND | 0.05 | Endrin Aldehyde | ND | 0.1 |
| BHC-Beta | ND | 0.05 | Endrin Ketone | ND | 0.1 |
| BHC-Delta | ND | 0.05 | Heptachlor | ND | 0.05 |
| BHC-Gamma(Lindane) | ND | 0.05 | Heptachlor Epoxide | ND | 0.05 |
| Chlordane-alpha | ND | 0.05 | Methoxychlor | ND | 0.5 |
| Chlordane-gamma | ND | 0.05 | Toxaphene | ND | 5.0 |
| 4,4'-DDD | ND | 0.1 | Aroclor - 1016 | ND | 1.0 |
| 4,4'-DDE | ND | 0.1 | Aroclor - 1221 | ND | 2.0 |
| 4,4'-DDT | ND | 0.1 | Aroclor - 1232 | ND | 1.0 |
| Dieldrin | ND | 0.1 | Aroclor - 1242 | ND | 1.0 |
| Endosulfan I | ND | 0.05 | Aroclor - 1248 | ND | 1.0 |
| Endosulfan II | ND | 0.1 | Aroclor - 1254 | ND | 1.0 |
| Endosulfan Sulfate | ND | 0.1 | Aroclor - 1260 | ND | 1.0 |

### SURROGATE RECOVERY

| Compound Name | Advisory QC Limits | % Recovery |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 30 - 150 | 85 |
| Decachlorobiphenyl | 30 - 150 | 96 |

### DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

SAMPLE ID: MT 102 A
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29158

## SEMI-VOLATILE ORGANIC COMPOUNDS

Analysis Method: 8270
Reporting Units: ppb

Abbreviations and report symbols are explained on the following page

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acenaphthene | ND | 10 | Dimethylphthalate | ND | 10 |
| Acenaphthylene | ND | 10 | 2,4-Dinitrophenol | ND | 25 |
| Anthracene | ND | 10 | 2,6-Dinitrotoluene | ND | 10 |
| Benzo(a)anthracene | ND | 10 | 2,4-Dinitrotoluene | ND | 10 |
| Benzo(a)pyrene | ND | 10 | Fluoranthene | ND | 10 |
| Benzo(b)fluoranthene | ND | 10 | Fluorene | ND | 10 |
| Benzo(g,h,i)perylene | ND | 10 | Hexachlorobenzene | ND | 10 |
| Benzo(k)fluoranthene | ND | 10 | Hexachlorobutadiene | ND | 10 |
| Bis(2-chloroethoxy)methane | ND | 10 | Hexachlorocyclopentadiene | ND | 10 |
| Bis(2-chloroethyl)ether | ND | 10 | Hexachloroethane | ND | 10 |
| Bis(2-chloroisopropyl)ether | ND | 10 | Indeno(1,2,3-cd)pyrene | ND | 10 |
| Bis(2-ethylhexyl)phthalate | ND | 10 | Isophorone | ND | 10 |
| 4-Bromophenylphenylether | ND | 10 | 2-Methylnaphthalene | ND | 10 |
| Butylbenzylphthalate | ND | 10 | 2-Methylphenol | ND | 10 |
| Carbazole | ND | 10 | 4-Methylphenol | ND | [redacted] |
| 4-Chloro-3-methyl phenol | ND | 10 | 2-Methyl-4,6-dinitrophenol | ND | 25 |
| 4-Chloroaniline | ND | 10 | N-Nitrosodi-N-propylamine | ND | 10 |
| 2-Chloronaphthalene | ND | 10 | N-Nitrosodiphenylamine | ND | 10 |
| 2-Chlorophenol | ND | 10 | Naphthalene | ND | 10 |
| 4-Chlorophenylphenylether | ND | 10 | 2-Nitroaniline | ND | 25 |
| Chrysene | ND | 10 | 3-Nitroaniline | ND | 25 |
| Di-n-butylphthalate | ND | 10 | 4-Nitroaniline | ND | 25 |
| Di-n-octylphthalate | ND | 10 | Nitrobenzene | ND | 10 |
| Dibenzo(a,h)anthracene | ND | 10 | 2-Nitrophenol | ND | 10 |
| Dibenzofuran | ND | 10 | 4-Nitrophenol | ND | 25 |
| 1,2-Dichlorobenzene | ND | 10 | Pentachlorophenol | ND | 25 |
| 1,3-Dichlorobenzene | ND | 10 | Phenanthrene | ND | 10 |
| 1,4-Dichlorobenzene | ND | 10 | Phenol | ND | 10 |
| 3,3'-Dichlorobenzidine | ND | 10 | Pyrene | ND | 10 |
| 2,4-Dichlorophenol | ND | 10 | 1,2,4-Trichlorobenzene | ND | 10 |
| Diethylphthalate | ND | 10 | 2,4,5-Trichlorophenol | ND | 25 |
| 2,4-Dimethylphenol | ND | 10 | 2,4,6-Trichlorophenol | ND | 10 |


Recycled Paper

SAMPLE ID: WT 102 A
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29158

## SEMI-VOLATILE ORGANIC COMPOUNDS



SURROGATE RECOVERY (Method 8270)

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 2-Fluorophenol | 21 - 110 | 51 |
| Phenol,d5 | 10 - 110 | 32 |
| Nitrobenzene,d5 | 35 - 114 | 85 |
| 2-Fluorobiphenyl | 43 - 116 | 80 |
| 2,4,6-Tribromophenol | 10 - 123 | 120 |
| p-Terphenyl,d14 | 33 - 141 | 76 |

DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.
- * = The Surrogate Compounds have been diluted out.



Recycled Paper

# ANALYTICAL REPORT

Client:
R Lennie Scott, P.E.
Bayer Corporation
1884 Miles Avenue
Elkhart, Indiana 46514
219-262-7234

Report Date: 10-18-95
EIS Lab No: 29159
EIS Project No: 1210-8135-95
EIS Priority: 4
Client P.O.#:
Certification: Indiana Drinking Water Certificate No. C-71-02

Invoice To:
Client

**SAMPLE IDENTIFICATION**
Sample ID: WT 102 B
Monitoring Well
Date Sampled: 9-20-95
Date Received: 9-20-95

Report To: CLIENT

Extra Report To:

| PARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST |
|---|---|---|---|---|---|
| Cyanide, Total | mg/l | <0.01 | 0.01 | 09-29-95 | Shane,D |
| Aluminum, Total | mg/l | <0.2 | 0.2 | 10-10-95 | Clear,N |
| Antimony, Total | mg/l | <0.06 | 0.06 | 10-10-95 | Clear,N |
| Arsenic, Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N |
| Barium, Total | mg/l | <0.2 | 0.2 | 10-10-95 | Clear,N |
| Beryllium, Total | mg/l | <0.005 | 0.005 | 10-10-95 | Clear,N |
| Cadmium, Total | mg/l | <0.005 | 0.005 | 10-10-95 | Clear,N |
| Calcium, Total | mg/l | 67.1 | 5 | 10-16-95 | Clear,N |
| Chromium, Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N |
| Cobalt, Total | mg/l | <0.05 | 0.05 | 10-10-95 | Clear,N |
| Copper, Total | mg/l | <0.025 | 0.025 | 10-10-95 | Clear,N |
| Iron, Total | mg/l | 0.493 | 0.1 | 10-10-95 | Clear,N |
| Lead, Total | mg/l | <0.003 | 0.003 | 10-10-95 | Clear,N |
| Magnesium, Total | mg/l | 21.9 | 5 | 10-13-95 | Clear,N |
| Manganese, Total | mg/l | 0.079 | 0.015 | 10-10-95 | Clear,N |
| Mercury, Total | mg/l | <0.0002 | 0.0002 | 09-22-95 | Shane,D |
| Nickel, Total | mg/l | <0.04 | 0.04 | 10-10-95 | Clear,N |
| Potassium, Total | mg/l | <5.0 | 5.0 | 10-16-95 | Shane,D |

QUALITY ASSURANCE OFFICER

LABORATORY DIRECTOR



Recycled Paper

EIS ENVIRONMENTAL ENGINEERS, INC. • 1701 North Ironwood Drive • South Bend, Indiana 46635 • 219/277-5715

EIS Lab No: 29159(continued)

| PARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST |
|---|---|---|---|---|---|
| Selenium,Total | mg/l | <0.005 | 0.005 | 10-10-95 | Clear,N |
| Silver,Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N |
| Sodium,Total | mg/l | 27.7 | 5 | 10-13-95 | Clear,N |
| Thallium,Total | mg/l | 0.014 | 0.01 | 10-10-95 | Clear,N |
| Vanadium,Total | mg/l | <0.05 | 0.05 | 10-10-95 | Clear,N |
| Zinc,Total | mg/l | <0.02 | 0.02 | 10-10-95 | Clear,N |
| Pesticide/PCB | | * | | 10-03-95 | Clear,B |
| SVOC (BNA) | | * | | 09-28-95 | Geels,S |
| VOC | | * | | 09-22-95 | Myers,N |
| * See Attached ORGANICS REPORT | | | | | |
| Extract Pest/PCB | | | | 09-21-95 | Thompson,G |
| Extract SVOC (BNA) | | | | 09-25-95 | Thompson,G |
| Mercury Digestion | | | | 09-21-95 | Shane,D |
| Metals Digestion (ICP) | | | | 09-26-95 | Shane,D |

ADDITIONAL INFORMATION

1. Chain-of-Custody document is enclosed.
2. Reference Analytical Methods are enclosed.
3. Sample was iced upon receipt.
   Sample container(s) were properly preserved per USEPA protocols.
   < = Not Detected at the Detection Limit (DL) shown.
6. DL = Detection Limit and is adjusted for dilutions/concentrations.
7. Batch [organic] Quality Control data is enclosed. This data was generated at the time that this sample was analyzed but was performed on a different sample.



Recycled Paper

SAMPLE ID: WT 102 B
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29159

## VOLATILE ORGANIC COMPOUNDS/PETROLEUM HYDROCARBONS

Analysis Method: 8260
Reporting Units: ppb

Abbreviations and report symbols are explained on the following page

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acetone | ND | 10 | c-1,3-Dichloropropene | ND | 10 |
| Benzene | ND | 10 | t-1,3-Dichloropropene | ND | 10 |
| Bromodichloromethane | ND | 10 | Ethylbenzene | ND | 10 |
| Bromoform | ND | 10 | 2-Hexanone | ND | 10 |
| Bromomethane | ND | 10 | Methylene Chloride | ND | 10 |
| Carbon Disulfide | ND | 10 | Methyl Ethyl Ketone | ND | 10 |
| Carbon Tetrachloride | ND | 10 | Methyl Isobutyl Ketone | ND | 10 |
| Chlorobenzene | ND | 10 | Styrene | ND | 10 |
| Chlorodibromomethane | ND | 10 | 1,1,2,2-Tetrachloroethane | ND | 10 |
| Chloroethane | ND | 10 | Tetrachloroethene | ND | 10 |
| Chloroform | ND | 10 | Toluene | ND | 10 |
| Chloromethane | ND | 10 | 1,1,1-Trichloroethane | ND | 10 |
| 1,1-Dichloroethane | ND | 10 | 1,1,2-Trichloroethane | ND | 10 |
| 1,2-Dichloroethane | ND | 10 | Trichloroethene | ND | 10 |
| 1,1-Dichloroethene | ND | 10 | Vinyl Chloride | ND | |
| 1,2-Dichloroethane (Total) | ND | 10 | Xylenes (Total) | ND | |
| 1,2-Dichloropropane | ND | 10 | | | |

SURROGATE RECOVERY

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 1,2-Dichloroethane,d4 | 76 - 114 | 103 |
| Toluene,d8 | 88 - 110 | 104 |
| Bromofluorobenzene | 86 - 115 | 99 |

DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

SAMPLE ID: WT 102 B
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29159

## CHLORINATED PESTICIDE COMPOUNDS

Analysis Method: 8081
Reporting Units: ppb

Abbreviations and report symbols are explained in DEFINITIONS below

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Aldrin | ND | 0.05 | Endrin | ND | 0.1 |
| BHC-Alpha | ND | 0.05 | Endrin Aldehyde | ND | 0.1 |
| BHC-Beta | ND | 0.05 | Endrin Ketone | ND | 0.1 |
| BHC-Delta | ND | 0.05 | Heptachlor | ND | 0.05 |
| BHC-Gamma (Lindane) | ND | 0.05 | Heptachlor Epoxide | ND | 0.05 |
| Chlordane-alpha | ND | 0.05 | Methoxychlor | ND | 0.5 |
| Chlordane-gamma | ND | 0.05 | Toxaphene | ND | 5.0 |
| 4,4'-DDD | ND | 0.1 | Aroclor - 1016 | ND | 1.0 |
| 4,4'-DDE | ND | 0.1 | Aroclor - 1221 | ND | 2.0 |
| 4,4'-DDT | ND | 0.1 | Aroclor - 1232 | ND | 1.0 |
| Dieldrin | ND | 0.1 | Aroclor - 1242 | ND | 1.0 |
| Endosulfan I | ND | 0.05 | Aroclor - 1248 | ND | 1.0 |
| Endosulfan II | ND | 0.1 | Aroclor - 1254 | ND | 1.0 |
| Endosulfan Sulfate | ND | 0.1 | Aroclor - 1260 | ND | 1.0 |

### SURROGATE RECOVERY

| Compound Name | Advisory QC Limits | % Recovery |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 30 - 150 | 92 |
| Decachlorobiphenyl | 30 - 150 | 61 |

### DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

SAMPLE ID: MT 102 B
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29159

## SEMI-VOLATILE ORGANIC COMPOUNDS

Analysis Method: 8270
Reporting Units: ppb

Abbreviations and report symbols are explained on the following page

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acenaphthene | ND | 10 | Dimethylphthalate | ND | 10 |
| Acenaphthylene | ND | 10 | 2,4-Dinitrophenol | ND | 25 |
| Anthracene | ND | 10 | 2,6-Dinitrotoluene | ND | 10 |
| Benzo(a)anthracene | ND | 10 | 2,4-Dinitrotoluene | ND | 10 |
| Benzo(a)pyrene | ND | 10 | Fluoranthene | ND | 10 |
| Benzo(b)fluoranthene | ND | 10 | Fluorene | ND | 10 |
| Benzo(g,h,i)perylene | ND | 10 | Hexachlorobenzene | ND | 10 |
| Benzo(k)fluoranthene | ND | 10 | Hexachlorobutadiene | ND | 10 |
| Bis(2-chloroethoxy)methane | ND | 10 | Hexachlorocyclopentadiene | ND | 10 |
| Bis(2-chloroethyl)ether | ND | 10 | Hexachloroethane | ND | 10 |
| Bis(2-chloroisopropyl)ether | ND | 10 | Indeno(1,2,3-cd)pyrene | ND | 10 |
| Bis(2-ethylhexyl)phthalate | ND | 10 | Isophorone | ND | 10 |
| 4-Bromophenylphenylether | ND | 10 | 2-Methylnaphthalene | ND | 10 |
| Butylbenzylphthalate | ND | 10 | 2-Methylphenol | ND | 10 |
| Carbazole | ND | 10 | 4-Methylphenol | ND | [illegible] |
| 4-Chloro-3-methyl phenol | ND | 10 | 2-Methyl-4,6-dinitrophenol | ND | [illegible] |
| 4-Chloroaniline | ND | 10 | N-Nitrosodi-N-propylamine | ND | 10 |
| 2-Chloronaphthalene | ND | 10 | N-Nitrosodiphenylamine | ND | 10 |
| 2-Chlorophenol | ND | 10 | Naphthalene | ND | 10 |
| 4-Chlorophenylphenylether | ND | 10 | 2-Nitroaniline | ND | 25 |
| Chrysene | ND | 10 | 3-Nitroaniline | ND | 25 |
| Di-n-butylphthalate | ND | 10 | 4-Nitroaniline | ND | 25 |
| Di-n-octylphthalate | ND | 10 | Nitrobenzene | ND | 10 |
| Dibenzo(a,h)anthracene | ND | 10 | 2-Nitrophenol | ND | 10 |
| Dibenzofuran | ND | 10 | 4-Nitrophenol | ND | 25 |
| 1,2-Dichlorobenzene | ND | 10 | Pentachlorophenol | ND | 25 |
| 1,3-Dichlorobenzene | ND | 10 | Phenanthrene | ND | 10 |
| 1,4-Dichlorobenzene | ND | 10 | Phenol | ND | 10 |
| 3,3'-Dichlorobenzidine | ND | 10 | Pyrene | ND | 10 |
| 2,4-Dichlorophenol | ND | 10 | 1,2,4-Trichlorobenzene | ND | 10 |
| Diethylphthalate | ND | 10 | 2,4,5-Trichlorophenol | ND | 25 |
| 2,4-Dimethylphenol | ND | 10 | 2,4,6-Trichlorophenol | ND | 10 |



Recycled Paper

SAMPLE ID: WT 102 B
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29159

# SEMI-VOLATILE ORGANIC COMPOUNDS



SURROGATE RECOVERY (Method 8270)

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 2-Fluorophenol | 21 - 110 | 46 |
| Phenol,d5 | 10 - 110 | 28 |
| Nitrobenzene,d5 | 35 - 114 | 90 |
| 2-Fluorobiphenyl | 43 - 116 | 81 |
| 2,4,6-Tribromophenol | 10 - 123 | 117 |
| p-Terphenyl,d14 | 33 - 141 | 76 |

DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.
- * = The Surrogate Compounds have been diluted out.



Recycled Paper

# ANALYTICAL REPORT

Client:
R Lennie Scott, P.E.
Bayer Corporation
1884 Miles Avenue
Elkhart, Indiana 46514
219-262-7234

Report Date: 10-18-95
EIS Lab No: 29160
EIS Project No: 1210-8135-95
EIS Priority: 4
Client P.O.#:
Certification: Indiana Drinking Water Certificate No. C-71-02

Invoice To:
Client

**SAMPLE IDENTIFICATION**
Sample ID: TB-3A
Deionized Water
Date Sampled: 9-15-95
Date Received: 9-20-95

Report To: CLIENT

Extra Report To:

| PARAMETER | RESULT | TEST DATE | ANALYST |
|---|---|---|---|
| VOC | * | 09-22-95 | Myers,N |

* See Attached ORGANICS REPORT

**ADDITIONAL INFORMATION**

1. Chain-of-Custody document is enclosed.
2. Sample was iced upon receipt.
3. Sample container(s) were properly preserved per USEPA protocols.
4. This sample is a Trip Blank for day 3 from Team A.

QUALITY ASSURANCE OFFICER

LABORATORY DIRECTOR

SAMPLE ID: TB-3A
Deionized Water

REPORT DATE: 10/18/95
EIS LAB NO: 29160

## VOLATILE ORGANIC COMPOUNDS/PETROLEUM HYDROCARBONS

Analysis Method: 8260
Reporting Units: ppb

Abbreviations and report symbols are explained on the following page

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acetone | ND | 10 | c-1,3-Dichloropropene | ND | 10 |
| Benzene | ND | 10 | t-1,3-Dichloropropene | ND | 10 |
| Bromodichloromethane | ND | 10 | Ethylbenzene | ND | 10 |
| Bromoform | ND | 10 | 2-Hexanone | ND | 10 |
| Bromomethane | ND | 10 | Methylene Chloride | ND | 10 |
| Carbon Disulfide | ND | 10 | Methyl Ethyl Ketone | ND | 10 |
| Carbon Tetrachloride | ND | 10 | Methyl Isobutyl Ketone | ND | 10 |
| Chlorobenzene | ND | 10 | Styrene | ND | 10 |
| Chlorodibromomethane | ND | 10 | 1,1,2,2-Tetrachloroethane | ND | 10 |
| Chloroethane | ND | 10 | Tetrachloroethene | ND | 10 |
| Chloroform | ND | 10 | Toluene | ND | 10 |
| Chloromethane | ND | 10 | 1,1,1-Trichloroethane | ND | 10 |
| 1,1-Dichloroethane | ND | 10 | 1,1,2-Trichloroethane | ND | 10 |
| 1,2-Dichloroethane | ND | 10 | Trichloroethene | ND | 10 |
| 1-Dichloroethene | ND | 10 | Vinyl Chloride | ND | 10 |
| ,2-Dichloroethene (Total) | ND | 10 | Xylenes (Total) | ND | 10 |
| 1,2-Dichloropropane | ND | 10 | | | |

### SURROGATE RECOVERY

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 1,2-Dichloroethane,d4 | 76 - 114 | 102 |
| Toluene,d8 | 88 - 110 | 102 |
| Bromofluorobenzene | 86 - 115 | 100 |

### DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

# ANALYTICAL REPORT

Client:
R Lennie Scott, P.E.
Bayer Corporation
1884 Miles Avenue
Elkhart, Indiana 46514
219-262-7234

Report Date: 10-18-95
EIS Lab No: 29207
EIS Project No: 1210-8135-95
EIS Priority: 4
Client P.O.#:
Certification: Indiana Drinking Water Certificate No. C-71-02

Invoice To:
Client

SAMPLE IDENTIFICATION
Sample ID: WT 114 A
Monitoring Well
Date Sampled: 9-21-95
Date Received: 9-21-95

Report To: CLIENT

Extra Report To:

| PARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST |
|---|---|---|---|---|---|
| Cyanide,Total | mg/l | <0.01 | 0.01 | 09-29-95 | Shane,D |
| Aluminum,Total | mg/l | <0.2 | 0.2 | 10-10-95 | Clear,N |
| Antimony,Total | mg/l | <0.06 | 0.06 | 10-10-95 | Clear,N |
| Arsenic,Total | mg/l | 0.011 | 0.01 | 10-10-95 | Clear,N |
| Barium,Total | mg/l | 0.216 | 0.2 | 10-10-95 | Clear,N |
| Beryllium,Total | mg/l | <0.005 | 0.005 | 10-10-95 | Clear,N |
| Cadmium,Total | mg/l | <0.005 | 0.005 | 10-10-95 | Clear,N |
| Calcium,Total | mg/l | 280 | 5 | 10-16-95 | Clear,N |
| Chromium,Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N |
| Cobalt,Total | mg/l | <0.05 | 0.05 | 10-10-95 | Clear,N |
| Copper,Total | mg/l | <0.025 | 0.025 | 10-10-95 | Clear,N |
| Iron,Total | mg/l | 20.0 | 0.1 | 10-13-95 | Clear,N |
| Lead,Total | mg/l | 0.007 | 0.003 | 10-10-95 | Clear,N |
| Magnesium,Total | mg/l | 23.9 | 5 | 10-13-95 | Clear,N |
| Manganese,Total | mg/l | 0.312 | 0.015 | 10-10-95 | Clear,N |
| Mercury,Total | mg/l | <0.0002 | 0.0002 | 09-27-95 | Shane,D |
| Nickel,Total | mg/l | <0.04 | 0.04 | 10-10-95 | Clear,N |
| Potassium,Total | mg/l | 5.7 | 5.0 | 10-16-95 | Shane,D |

QUALITY ASSURANCE OFFICER

LABORATORY DIRECTOR



Recycled Paper

EIS Lab No: 29207(continued)

| ARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST |
|---|---|---|---|---|---|
| Selenium,Total | mg/l | 0.010 | 0.005 | 10-10-95 | Clear,N |
| Silver,Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N |
| Sodium,Total | mg/l | 140 | 5 | 10-16-95 | Clear,N |
| Thallium,Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N |
| Vanadium,Total | mg/l | <0.05 | 0.05 | 10-10-95 | Clear,N |
| Zinc,Total | mg/l | <0.02 | 0.02 | 10-10-95 | Clear,N |
| Pesticide/PCB | | * | | 10-06-95 | Clear,B |
| SVOC (BNA) | | * | | 09-28-95 | Geels,S |
| VOC | | * | | 09-22-95 | Myers,N |
| * See Attached ORGANICS REPORT | | | | | |
| Extract Pest/PCB | | | | 09-26-95 | Thompson,G |
| Extract SVOC (BNA) | | | | 09-25-95 | Thompson,G |
| Mercury Digestion | | | | 09-26-95 | Shane,D |
| Metals Digestion (ICP) | | | | 09-26-95 | Shane,D |

ADDITIONAL INFORMATION

1. Chain-of-Custody document is enclosed.
2. Reference Analytical Methods are enclosed.
3. Sample was iced upon receipt.
   Sample container(s) were properly preserved per USEPA protocols.
   < = Not Detected at the Detection Limit (DL) shown.
6. DL = Detection Limit and is adjusted for dilutions/concentrations.
7. Batch VOC Quality Control data is enclosed. This data was generated at the time that this sample was analyzed but was performed on a different sample.



Recycled Paper

SAMPLE ID: WT 114 A
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29207

## VOLATILE ORGANIC COMPOUNDS/PETROLEUM HYDROCARBONS

Analysis Method: 8260
Reporting Units: ppb

Abbreviations and report symbols are explained on the following page

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acetone | ND | 10 | c-1,3-Dichloropropene | ND | 10 |
| Benzene | ND | 10 | t-1,3-Dichloropropene | ND | 10 |
| Bromodichloromethane | ND | 10 | Ethylbenzene | ND | 10 |
| Bromoform | ND | 10 | 2-Hexanone | ND | 10 |
| Bromomethane | ND | 10 | Methylene Chloride | ND | 10 |
| Carbon Disulfide | ND | 10 | Methyl Ethyl Ketone | ND | 10 |
| Carbon Tetrachloride | ND | 10 | Methyl Isobutyl Ketone | ND | 10 |
| Chlorobenzene | ND | 10 | Styrene | ND | 10 |
| Chlorodibromomethane | ND | 10 | 1,1,2,2-Tetrachloroethane | ND | 10 |
| Chloroethane | ND | 10 | Tetrachloroethene | ND | 10 |
| Chloroform | ND | 10 | Toluene | ND | 10 |
| Chloromethane | ND | 10 | 1,1,1-Trichloroethane | ND | 10 |
| 1,1-Dichloroethane | ND | 10 | 1,1,2-Trichloroethane | ND | 10 |
| 1,2-Dichloroethane | ND | 10 | Trichloroethene | ND | 10 |
| 1,1-Dichloroethene | ND | 10 | Vinyl Chloride | ND | [redacted] |
| 1,2-Dichloroethene (Total) | ND | 10 | Xylenes (Total) | ND | [redacted] |
| 1,2-Dichloropropane | ND | 10 | | | |

SURROGATE RECOVERY

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 1,2-Dichloroethane,d4 | 76 - 114 | 98 |
| Toluene,d8 | 88 - 110 | 99 |
| Bromofluorobenzene | 86 - 115 | 92 |

DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

SAMPLE ID: WT 114 A
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29207

## CHLORINATED PESTICIDE COMPOUNDS

Analysis Method: 8081
Reporting Units: ppb

Abbreviations and report symbols are explained in DEFINITIONS below

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Aldrin | ND | 0.05 | Endrin | ND | 0.1 |
| BHC-Alpha | ND | 0.05 | Endrin Aldehyde | ND | 0.1 |
| BHC-Beta | ND | 0.05 | Endrin Ketone | ND | 0.1 |
| BHC-Delta | ND | 0.05 | Heptachlor | ND | 0.05 |
| BHC-Gamma(Lindane) | ND | 0.05 | Heptachlor Epoxide | ND | 0.05 |
| Chlordane-alpha | ND | 0.05 | Methoxychlor | ND | 0.5 |
| Chlordane-gamma | ND | 0.05 | Toxaphene | ND | 5.0 |
| 4,4'-DDD | ND | 0.1 | Aroclor - 1016 | ND | 1.0 |
| 4,4'-DDE | ND | 0.1 | Aroclor - 1221 | ND | 2.0 |
| 4,4'-DDT | ND | 0.1 | Aroclor - 1232 | ND | 1.0 |
| Dieldrin | ND | 0.1 | Aroclor - 1242 | ND | 1.0 |
| Endosulfan I | ND | 0.05 | Aroclor - 1248 | ND | 1.0 |
| Endosulfan II | ND | 0.1 | Aroclor - 1254 | ND | 1.0 |
| Endosulfan Sulfate | ND | 0.1 | Aroclor - 1260 | ND | 1.0 |

### SURROGATE RECOVERY

| Compound Name | Advisory QC Limits | % Recovery |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 30 - 150 | 93 |
| Decachlorobiphenyl | 30 - 150 | 43 |

### DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

SAMPLE ID: WT 114 A
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29207

## SEMI-VOLATILE ORGANIC COMPOUNDS

Analysis Method: 8270
Reporting Units: ppb

Abbreviations and report symbols are explained on the following page

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acenaphthene | ND | 10 | Dimethylphthalate | ND | 10 |
| Acenaphthylene | ND | 10 | 2,4-Dinitrophenol | ND | 25 |
| Anthracene | ND | 10 | 2,6-Dinitrotoluene | ND | 10 |
| Benzo(a)anthracene | ND | 10 | 2,4-Dinitrotoluene | ND | 10 |
| Benzo(a)pyrene | ND | 10 | Fluoranthene | ND | 10 |
| Benzo(b)fluoranthene | ND | 10 | Fluorene | ND | 10 |
| Benzo(g,h,i)perylene | ND | 10 | Hexachlorobenzene | ND | 10 |
| Benzo(k)fluoranthene | ND | 10 | Hexachlorobutadiene | ND | 10 |
| Bis(2-chloroethoxy)methane | ND | 10 | Hexachlorocyclopentadiene | ND | 10 |
| Bis(2-chloroethyl)ether | ND | 10 | Hexachloroethane | ND | 10 |
| Bis(2-chloroisopropyl)ether | ND | 10 | Indeno(1,2,3-cd)pyrene | ND | 10 |
| Bis(2-ethylhexyl)phthalate | ND | 10 | Isophorone | ND | 10 |
| 4-Bromophenylphenylether | ND | 10 | 2-Methylnaphthalene | ND | 10 |
| Butylbenzylphthalate | ND | 10 | 2-Methylphenol | ND | |
| Carbazole | ND | 10 | 4-Methylphenol | ND | |
| 4-Chloro-3-methyl phenol | ND | 10 | 2-Methyl-4,6-dinitrophenol | ND | |
| 4-Chloroaniline | ND | 10 | N-Nitrosodi-N-propylamine | ND | 10 |
| 2-Chloronaphthalene | ND | 10 | N-Nitrosodiphenylamine | ND | 10 |
| 2-Chlorophenol | ND | 10 | Naphthalene | ND | 10 |
| 4-Chlorophenylphenylether | ND | 10 | 2-Nitroaniline | ND | 25 |
| Chrysene | ND | 10 | 3-Nitroaniline | ND | 25 |
| Di-n-butylphthalate | ND | 10 | 4-Nitroaniline | ND | 25 |
| Di-n-octylphthalate | ND | 10 | Nitrobenzene | ND | 10 |
| Dibenzo(a,h)anthracene | ND | 10 | 2-Nitrophenol | ND | 10 |
| Dibenzofuran | ND | 10 | 4-Nitrophenol | ND | 25 |
| 1,2-Dichlorobenzene | ND | 10 | Pentachlorophenol | ND | 25 |
| 1,3-Dichlorobenzene | ND | 10 | Phenanthrene | ND | 10 |
| 1,4-Dichlorobenzene | ND | 10 | Phenol | ND | 10 |
| 3,3'-Dichlorobenzidine | ND | 10 | Pyrene | ND | 10 |
| 2,4-Dichlorophenol | ND | 10 | 1,2,4-Trichlorobenzene | ND | 10 |
| Diethylphthalate | ND | 10 | 2,4,5-Trichlorophenol | ND | 25 |
| 2,4-Dimethylphenol | ND | 10 | 2,4,6-Trichlorophenol | ND | 10 |



Recycled Paper

SAMPLE ID: WT 114 A
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29207

# SEMI-VOLATILE ORGANIC COMPOUNDS



SURROGATE RECOVERY (Method 8270)

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 2-Fluorophenol | 21 - 110 | 49 |
| Phenol,d5 | 10 - 110 | 31 |
| Nitrobenzene,d5 | 35 - 114 | 91 |
| 2-Fluorobiphenyl | 43 - 116 | 81 |
| 2,4,6-Tribromophenol | 10 - 123 | 138 |
| p-Terphenyl,d14 | 33 - 141 | 76 |

DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.
- * = The Surrogate Compounds have been diluted out.



Recycled Paper

# ANALYTICAL REPORT

Client:
R Lennie Scott, P.E.
Bayer Corporation
1884 Miles Avenue
Elkhart, Indiana 46514
219-262-7234

Report Date: 10-18-95
EIS Lab No: 29208
EIS Project No: 1210-8135-95
EIS Priority: 4
Client P.O.#:
Certification: Indiana Drinking Water Certificate No. C-71-02

Invoice To:
Client

**SAMPLE IDENTIFICATION**
Sample ID: WT 114 B
Monitoring Well
Date Sampled: 9-21-95
Date Received: 9-21-95

Report To: CLIENT

Extra Report To:

| PARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST | QUALITY CONTROL RSD % | SPIKE LEVEL | MS %R | DMS %R | RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide,Total | mg/l | <0.01 | 0.01 | 09-29-95 | Shane,D | | | | | |
| Aluminum,Total | mg/l | <0.2 | 0.2 | 10-10-95 | Clear,N | | | | | |
| Antimony,Total | mg/l | <0.06 | 0.06 | 10-10-95 | Clear,N | | | | | |
| Arsenic,Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N | | | | | |
| Barium,Total | mg/l | <0.2 | 0.2 | 10-10-95 | Clear,N | | | | | |
| Beryllium,Total | mg/l | <0.005 | 0.005 | 10-10-95 | Clear,N | | | | | |
| Cadmium,Total | mg/l | <0.005 | 0.005 | 10-10-95 | Clear,N | | | | | |
| Calcium,Total | mg/l | 230 | 5 | 10-16-95 | Clear,N | | | | | |
| Chromium,Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N | | | | | |
| Cobalt,Total | mg/l | <0.05 | 0.05 | 10-10-95 | Clear,N | | | | | |
| Copper,Total | mg/l | <0.025 | 0.025 | 10-10-95 | Clear,N | | | | | |
| Iron,Total | mg/l | 13.2 | 0.1 | 10-13-95 | Clear,N | | | | | |
| Lead,Total | mg/l | 0.005 | 0.003 | 10-10-95 | Clear,N | | | | | |
| Magnesium,Total | mg/l | 29.6 | 5 | 10-13-95 | Clear,N | | | | | |
| Manganese,Total | mg/l | 0.144 | 0.015 | 10-10-95 | Clear,N | | | | | |
| Mercury,Total | mg/l | <0.0002 | 0.0002 | 09-27-95 | Shane,D | 0 | | | | |
| Nickel,Total | mg/l | <0.04 | 0.04 | 10-10-95 | Clear,N | | | | | |
| Potassium,Total | mg/l | 5.0 | 5.0 | 10-16-95 | Shane,D | | | | | |

QUALITY ASSURANCE OFFICER

LABORATORY DIRECTOR



Recycled Paper

EIS ENVIRONMENTAL ENGINEERS, INC. • 1701 North Ironwood Drive • South Bend, Indiana 46635 • 219/277-5715

EIS Lab No: 29208(continued)

| PARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST | QUALITY CONTROL RSD % | SPIKE LEVEL | MS %R | DMS %R | RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Selenium,Total | mg/l | 0.007 | 0.005 | 10-10-95 | Clear,N | | | | | |
| Silver,Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N | | | | | |
| Sodium,Total | mg/l | 26.9 | 5 | 10-13-95 | Clear,N | | | | | |
| Thallium,Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N | | | | | |
| Vanadium,Total | mg/l | <0.05 | 0.05 | 10-10-95 | Clear,N | | | | | |
| Zinc,Total | mg/l | <0.02 | 0.02 | 10-10-95 | Clear,N | | | | | |
| Pesticide/PCB | | * | | 10-06-95 | Clear,B | | | | | |
| SVOC (BNA) | | * | | 09-28-95 | Geels,S | | | | | |
| VOC | | * | | 09-22-95 | Myers,N | | | | | |
| * See Attached ORGANICS REPORT | | | | | | | | | | |
| Extract Pest/PCB | | | | 09-26-95 | Thompson,G | | | | | |
| Extract SVOC (BNA) | | | | 09-25-95 | Thompson,G | | | | | |
| Mercury Digestion | | | | 09-26-95 | Shane,D | | | | | |
| Metals Digestion (ICP) | | | | 09-26-95 | Shane,D | | | | | |

ADDITIONAL INFORMATION

1. Chain-of-Custody document is enclosed.
2. Reference Analytical Methods are enclosed.
3. Sample was iced upon receipt.
   Sample container(s) were properly preserved per USEPA protocols.
   < = Not Detected at the Detection Limit (DL) shown.
6. DL = Detection Limit and is adjusted for dilutions/concentrations.
7. Quality Control definitions are as follows:
   %RSD = Precision of replicate analysis for this sample.
   Spike Level = Parameter Spike amount in units of the result.
   %R = Matrix Spike(MS)/Duplicate Matrix Spike(DMS) recovery.
   %RPD = Precision of Matrix Spike recovery values.
8. Inorganic Quality Control limits are enclosed.
9. Batch VOC Quality Control data is enclosed. This data was generated at the time that this sample was analyzed but was performed on a different sample.



Recycled Paper

SAMPLE ID: WT 114 B
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29208

## VOLATILE ORGANIC COMPOUNDS/PETROLEUM HYDROCARBONS

| | | |
|---|---|---|
| Analysis Method: 8260<br>Reporting Units: ppb | Abbreviations and report symbols are explained on the following page | Sample Dilution: None<br>EQL Multiplier: 1 |

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acetone | ND | 10 | c-1,3-Dichloropropene | ND | 10 |
| Benzene | ND | 10 | t-1,3-Dichloropropene | ND | 10 |
| Bromodichloromethane | ND | 10 | Ethylbenzene | ND | 10 |
| Bromoform | ND | 10 | 2-Hexanone | ND | 10 |
| Bromomethane | ND | 10 | Methylene Chloride | ND | 10 |
| Carbon Disulfide | ND | 10 | Methyl Ethyl Ketone | ND | 10 |
| Carbon Tetrachloride | ND | 10 | Methyl Isobutyl Ketone | ND | 10 |
| Chlorobenzene | ND | 10 | Styrene | ND | 10 |
| Chlorodibromomethane | ND | 10 | 1,1,2,2-Tetrachloroethane | ND | 10 |
| Chloroethane | ND | 10 | Tetrachloroethene | ND | 10 |
| Chloroform | ND | 10 | Toluene | ND | 10 |
| Chloromethane | ND | 10 | 1,1,1-Trichloroethane | ND | 10 |
| 1,1-Dichloroethane | ND | 10 | 1,1,2-Trichloroethane | ND | 10 |
| 1,2-Dichloroethane | ND | 10 | Trichloroethene | ND | 10 |
| 1,1-Dichloroethene | ND | 10 | Vinyl Chloride | ND | 10 |
| 1,2-Dichloroethene (Total) | ND | 10 | Xylenes (Total) | ND | 10 |
| 1,2-Dichloropropane | ND | 10 | | | |

SURROGATE RECOVERY

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 1,2-Dichloroethane,d4 | 76 - 114 | 98 |
| Toluene,d8 | 88 - 110 | 98 |
| Bromofluorobenzene | 86 - 115 | 95 |

DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

SAMPLE ID: WT 114 B
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29208

## CHLORINATED PESTICIDE COMPOUNDS

| | | |
|---|---|---|
| Analysis Method: 8081<br>Reporting Units: ppb | Abbreviations and report symbols are explained in DEFINITIONS below | Sample Dilution: None<br>EQL Multiplier: 1 |

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Aldrin | ND | 0.05 | Endrin | ND | 0.1 |
| BHC-Alpha | ND | 0.05 | Endrin Aldehyde | ND | 0.1 |
| BHC-Beta | ND | 0.05 | Endrin Ketone | ND | 0.1 |
| BHC-Delta | ND | 0.05 | Heptachlor | ND | 0.05 |
| BHC-Gamma (Lindane) | ND | 0.05 | Heptachlor Epoxide | ND | 0.05 |
| Chlordane-alpha | ND | 0.05 | Methoxychlor | ND | 0.5 |
| Chlordane-gamma | ND | 0.05 | Toxaphene | ND | 5.0 |
| 4,4'-DDD | ND | 0.1 | Aroclor - 1016 | ND | 1.0 |
| 4,4'-DDE | ND | 0.1 | Aroclor - 1221 | ND | 2.0 |
| 4,4'-DDT | ND | 0.1 | Aroclor - 1232 | ND | 1.0 |
| Dieldrin | ND | 0.1 | Aroclor - 1242 | ND | 1.0 |
| Endosulfan I | ND | 0.05 | Aroclor - 1248 | ND | 1.0 |
| Endosulfan II | ND | 0.1 | Aroclor - 1254 | ND | 1.0 |
| Endosulfan Sulfate | ND | 0.1 | Aroclor - 1260 | ND | 1.0 |

SURROGATE RECOVERY

| Compound Name | Advisory QC Limits | % Recovery |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 30 - 150 | 85 |
| Decachlorobiphenyl | 30 - 150 | 15 |

DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

SAMPLE ID: WT 114 B
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29208

# SEMI-VOLATILE ORGANIC COMPOUNDS

Analysis Method: 8270
Reporting Units: ppb

Abbreviations and report symbols are explained on the following page

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acenaphthene | ND | 10 | Dimethylphthalate | ND | 10 |
| Acenaphthylene | ND | 10 | 2,4-Dinitrophenol | ND | 25 |
| Anthracene | ND | 10 | 2,6-Dinitrotoluene | ND | 10 |
| Benzo(a)anthracene | ND | 10 | 2,4-Dinitrotoluene | ND | 10 |
| Benzo(a)pyrene | ND | 10 | Fluoranthene | ND | 10 |
| Benzo(b)fluoranthene | ND | 10 | Fluorene | ND | 10 |
| Benzo(g,h,i)perylene | ND | 10 | Hexachlorobenzene | ND | 10 |
| Benzo(k)fluoranthene | ND | 10 | Hexachlorobutadiene | ND | 10 |
| Bis(2-chloroethoxy)methane | ND | 10 | Hexachlorocyclopentadiene | ND | 10 |
| Bis(2-chloroethyl)ether | ND | 10 | Hexachloroethane | ND | 10 |
| Bis(2-chloroisopropyl)ether | ND | 10 | Indeno(1,2,3-cd)pyrene | ND | 10 |
| Bis(2-ethylhexyl)phthalate | ND | 10 | Isophorone | ND | 10 |
| 4-Bromophenylphenylether | ND | 10 | 2-Methylnaphthalene | ND | 10 |
| Butylbenzylphthalate | ND | 10 | 2-Methylphenol | ND | 10 |
| Carbazole | ND | 10 | 4-Methylphenol | ND | 1 |
| 4-Chloro-3-methyl phenol | ND | 10 | 2-Methyl-4,6-dinitrophenol | ND | 2 |
| 4-Chloroaniline | ND | 10 | N-Nitrosodi-N-propylamine | ND | 10 |
| 2-Chloronaphthalene | ND | 10 | N-Nitrosodiphenylamine | ND | 10 |
| 2-Chlorophenol | ND | 10 | Naphthalene | ND | 10 |
| 4-Chlorophenylphenylether | ND | 10 | 2-Nitroaniline | ND | 25 |
| Chrysene | ND | 10 | 3-Nitroaniline | ND | 25 |
| Di-n-butylphthalate | ND | 10 | 4-Nitroaniline | ND | 25 |
| Di-n-octylphthalate | ND | 10 | Nitrobenzene | ND | 10 |
| Dibenzo(a,h)anthracene | ND | 10 | 2-Nitrophenol | ND | 10 |
| Dibenzofuran | ND | 10 | 4-Nitrophenol | ND | 25 |
| 1,2-Dichlorobenzene | ND | 10 | Pentachlorophenol | ND | 25 |
| 1,3-Dichlorobenzene | ND | 10 | Phenanthrene | ND | 10 |
| 1,4-Dichlorobenzene | ND | 10 | Phenol | ND | 10 |
| 3,3'-Dichlorobenzidine | ND | 10 | Pyrene | ND | 10 |
| 2,4-Dichlorophenol | ND | 10 | 1,2,4-Trichlorobenzene | ND | 10 |
| Diethylphthalate | ND | 10 | 2,4,5-Trichlorophenol | ND | 25 |
| 2,4-Dimethylphenol | ND | 10 | 2,4,6-Trichlorophenol | ND | 10 |


Recycled Paper

SAMPLE ID: WT 114 B
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29208

# SEMI-VOLATILE ORGANIC COMPOUNDS



SURROGATE RECOVERY (Method 8270)

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 2-Fluorophenol | 21 - 110 | 54 |
| Phenol,d5 | 10 - 110 | 34 |
| Nitrobenzene,d5 | 35 - 114 | 88 |
| 2-Fluorobiphenyl | 43 - 116 | 85 |
| 2,4,6-Tribromophenol | 10 - 123 | 127 |
| p-Terphenyl,d14 | 33 - 141 | 82 |

DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.
- * = The Surrogate Compounds have been diluted out.



Recycled Paper

# ANALYTICAL REPORT

Client:
R Lennie Scott, P.E.
Bayer Corporation
1884 Miles Avenue
Elkhart, Indiana 46514
219-262-7234

Report Date: 10-18-95
EIS Lab No: 29209
EIS Project No: 1210-8135-95
EIS Priority: 4
Client P.O.#:
Certification: Indiana Drinking Water Certificate No. C-71-02

Invoice To:
Client

**SAMPLE IDENTIFICATION**
Sample ID: TB-4B
Deionized Water
Date Sampled: 9-15-95
Date Received: 9-21-95

Report To: CLIENT

Extra Report To:

| PARAMETER | RESULT | TEST DATE | ANALYST |
|---|---|---|---|
| VOC | * | 09-22-95 | Myers,N |

* See Attached ORGANICS REPORT

**ADDITIONAL INFORMATION**

1. Chain-of-Custody document is enclosed.
2. Sample was iced upon receipt.
3. Sample container(s) were properly preserved per USEPA protocols.
4. This sample is a Trip Blank for day 4 from Team B.

QUALITY ASSURANCE OFFICER

LABORATORY DIRECTOR

SAMPLE ID: TB-4B
Deionized Water

REPORT DATE: 10/18/95
EIS LAB NO: 29209

## VOLATILE ORGANIC COMPOUNDS/PETROLEUM HYDROCARBONS

Analysis Method: 8260
Reporting Units: ppb

Abbreviations and report symbols are explained on the following page

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acetone | ND | 10 | c-1,3-Dichloropropene | ND | 10 |
| Benzene | ND | 10 | t-1,3-Dichloropropene | ND | 10 |
| Bromodichloromethane | ND | 10 | Ethylbenzene | ND | 10 |
| Bromoform | ND | 10 | 2-Hexanone | ND | 10 |
| Bromomethane | ND | 10 | Methylene Chloride | ND | 10 |
| Carbon Disulfide | ND | 10 | Methyl Ethyl Ketone | ND | 10 |
| Carbon Tetrachloride | ND | 10 | Methyl Isobutyl Ketone | ND | 10 |
| Chlorobenzene | ND | 10 | Styrene | ND | 10 |
| Chlorodibromomethane | ND | 10 | 1,1,2,2-Tetrachloroethane | ND | 10 |
| Chloroethane | ND | 10 | Tetrachloroethene | ND | 10 |
| Chloroform | ND | 10 | Toluene | ND | 10 |
| Chloromethane | ND | 10 | 1,1,1-Trichloroethane | ND | 10 |
| 1,1-Dichloroethane | ND | 10 | 1,1,2-Trichloroethane | ND | 10 |
| 1,2-Dichloroethane | ND | 10 | Trichloroethene | ND | 10 |
| 1,1-Dichloroethene | ND | 10 | Vinyl Chloride | ND | 10 |
| 1,2-Dichloroethene (Total) | ND | 10 | Xylenes (Total) | ND | 10 |
| 1,2-Dichloropropane | ND | 10 | | | |

### SURROGATE RECOVERY

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 1,2-Dichloroethane,d4 | 76 - 114 | 102 |
| Toluene,d8 | 88 - 110 | 100 |
| Bromofluorobenzene | 86 - 115 | 95 |

### DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

# ANALYTICAL REPORT

Client:
R Lennie Scott, P.E.
Bayer Corporation
1884 Miles Avenue
Elkhart, Indiana 46514
219-262-7234

Report Date: 10-18-95
EIS Lab No: 29210
EIS Project No: 1210-8135-95
EIS Priority: 4
Client P.O.#:
Certification: Indiana Drinking Water Certificate No. C-71-02

Invoice To:
Client

**SAMPLE IDENTIFICATION**
Sample ID: WT 116 A
Monitoring Well
Date Sampled: 9-21-95
Date Received: 9-21-95

Report To: CLIENT

Extra Report To:

| PARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST |
|---|---|---|---|---|---|
| Cyanide,Total | mg/l | <0.01 | 0.01 | 09-29-95 | Shane,D |
| Aluminum,Total | mg/l | <0.2 | 0.2 | 10-10-95 | Clear,N |
| Antimony,Total | mg/l | <0.06 | 0.06 | 10-10-95 | Clear,N |
| Arsenic,Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N |
| Barium,Total | mg/l | <0.2 | 0.2 | 10-10-95 | Clear,N |
| Beryllium,Total | mg/l | <0.005 | 0.005 | 10-10-95 | Clear,N |
| Cadmium,Total | mg/l | <0.005 | 0.005 | 10-10-95 | Clear,N |
| Calcium,Total | mg/l | 580 | 12.5 | 10-16-95 | Clear,N |
| Chromium,Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N |
| Cobalt,Total | mg/l | <0.05 | 0.05 | 10-10-95 | Clear,N |
| Copper,Total | mg/l | <0.025 | 0.025 | 10-10-95 | Clear,N |
| Iron,Total | mg/l | 6.67 | 0.1 | 10-13-95 | Clear,N |
| Lead,Total | mg/l | <0.003 | 0.003 | 10-10-95 | Clear,N |
| Magnesium,Total | mg/l | 57.4 | 5 | 10-16-95 | Clear,N |
| Manganese,Total | mg/l | 0.469 | 0.015 | 10-10-95 | Clear,N |
| Mercury,Total | mg/l | <0.0002 | 0.0002 | 09-27-95 | Shane,D |
| Nickel,Total | mg/l | <0.04 | 0.04 | 10-10-95 | Clear,N |
| Potassium,Total | mg/l | 38 | 5.0 | 10-16-95 | Shane,D |

QUALITY ASSURANCE OFFICER

LABORATORY DIRECTOR



Recycled Paper

EIS ENVIRONMENTAL ENGINEERS, INC. • 1701 North Ironwood Drive • South Bend, Indiana 46635 • 219/277-5715

EIS Lab No: 29210(continued)

| ARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST |
|---|---|---|---|---|---|
| Selenium,Total | mg/l | 0.009 | 0.005 | 10-10-95 | Clear,N |
| Silver,Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N |
| Sodium,Total | mg/l | 210 | 25 | 10-16-95 | Clear,N |
| Thallium,Total | mg/l | 0.014 | 0.01 | 10-10-95 | Clear,N |
| Vanadium,Total | mg/l | <0.05 | 0.05 | 10-10-95 | Clear,N |
| Zinc,Total | mg/l | <0.02 | 0.02 | 10-10-95 | Clear,N |
| Pesticide/PCB | | * | | 10-06-95 | Clear,B |
| SVOC (BNA) | | * | | 09-28-95 | Geels,S |
| VOC | | * | | 09-22-95 | Myers,N |

* See Attached ORGANICS REPORT

| | | |
|---|---|---|
| Extract Pest/PCB | 09-26-95 | Thompson,G |
| Extract SVOC (BNA) | 09-25-95 | Thompson,G |
| Mercury Digestion | 09-26-95 | Shane,D |
| Metals Digestion (ICP) | 09-26-95 | Shane,D |

ADDITIONAL INFORMATION

1. Chain-of-Custody document is enclosed.
2. Reference Analytical Methods are enclosed.
3. Sample was iced upon receipt.
   Sample container(s) were properly preserved per USEPA protocols.
   < = Not Detected at the Detection Limit (DL) shown.
6. DL = Detection Limit and is adjusted for dilutions/concentrations.
7. Batch VOC Quality Control data is enclosed. This data was generated at the time that this sample was analyzed but was performed on a different sample.



Recycled Paper

SAMPLE ID: WT 116 A
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29210

# VOLATILE ORGANIC COMPOUNDS/PETROLEUM HYDROCARBONS

Analysis Method: 8260
Reporting Units: ppb

Abbreviations and report symbols are explained on the following page

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acetone | ND | 10 | c-1,3-Dichloropropene | ND | 10 |
| Benzene | 16 | 10 | t-1,3-Dichloropropene | ND | 10 |
| Bromodichloromethane | ND | 10 | Ethylbenzene | ND | 10 |
| Bromoform | ND | 10 | 2-Hexanone | ND | 10 |
| Bromomethane | ND | 10 | Methylene Chloride | ND | 10 |
| Carbon Disulfide | ND | 10 | Methyl Ethyl Ketone | ND | 10 |
| Carbon Tetrachloride | ND | 10 | Methyl Isobutyl Ketone | ND | 10 |
| Chlorobenzene | ND | 10 | Styrene | ND | 10 |
| Chlorodibromomethane | ND | 10 | 1,1,2,2-Tetrachloroethane | ND | 10 |
| Chloroethane | ND | 10 | Tetrachloroethene | ND | 10 |
| Chloroform | ND | 10 | Toluene | ND | 10 |
| Chloromethane | ND | 10 | 1,1,1-Trichloroethane | ND | 10 |
| 1,1-Dichloroethane | ND | 10 | 1,1,2-Trichloroethane | ND | 10 |
| 1,2-Dichloroethane | ND | 10 | Trichloroethene | ND | 10 |
| 1,1-Dichloroethene | ND | 10 | Vinyl Chloride | ND | |
| 1,2-Dichloroethene (Total) | ND | 10 | Xylenes (Total) | ND | |
| 1,2-Dichloropropane | ND | 10 | | | |

## SURROGATE RECOVERY

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 1,2-Dichloroethane,d4 | 76 - 114 | 101 |
| Toluene,d8 | 88 - 110 | 103 |
| Bromofluorobenzene | 86 - 115 | 97 |

## DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

SAMPLE ID: WT 116 A
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29210

## CHLORINATED PESTICIDE COMPOUNDS

| | | |
|---|---|---|
| Analysis Method: 8081<br>Reporting Units: ppb | Abbreviations and report symbols are explained in DEFINITIONS below | Sample Dilution: None<br>EQL Multiplier: 1 |

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Aldrin | ND | 0.05 | Endrin | ND | 0.1 |
| BHC-Alpha | ND | 0.05 | Endrin Aldehyde | ND | 0.1 |
| BHC-Beta | ND | 0.05 | Endrin Ketone | ND | 0.1 |
| BHC-Delta | ND | 0.05 | Heptachlor | ND | 0.05 |
| BHC-Gamma (Lindane) | ND | 0.05 | Heptachlor Epoxide | ND | 0.05 |
| Chlordane-alpha | ND | 0.05 | Methoxychlor | ND | 0.5 |
| Chlordane-gamma | ND | 0.05 | Toxaphene | ND | 5.0 |
| 4,4'-DDD | ND | 0.1 | Aroclor - 1016 | ND | 1.0 |
| 4,4'-DDE | ND | 0.1 | Aroclor - 1221 | ND | 2.0 |
| 4,4'-DDT | ND | 0.1 | Aroclor - 1232 | ND | 1.0 |
| Dieldrin | ND | 0.1 | Aroclor - 1242 | ND | 1.0 |
| Endosulfan I | ND | 0.05 | Aroclor - 1248 | ND | 1.0 |
| Endosulfan II | ND | 0.1 | Aroclor - 1254 | ND | 1.0 |
| Endosulfan Sulfate | ND | 0.1 | Aroclor - 1260 | ND | 1.0 |

### SURROGATE RECOVERY

| Compound Name | Advisory QC Limits | % Recovery |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 30 - 150 | 90 |
| Decachlorobiphenyl | 30 - 150 | 46 |

### DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

SAMPLE ID: WT 116 A
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29210

## SEMI-VOLATILE ORGANIC COMPOUNDS

Analysis Method: 8270
Reporting Units: ppb

Abbreviations and report symbols are explained on the following page

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acenaphthene | ND | 10 | Dimethylphthalate | ND | 10 |
| Acenaphthylene | ND | 10 | 2,4-Dinitrophenol | ND | 25 |
| Anthracene | ND | 10 | 2,6-Dinitrotoluene | ND | 10 |
| Benzo(a)anthracene | ND | 10 | 2,4-Dinitrotoluene | ND | 10 |
| Benzo(a)pyrene | ND | 10 | Fluoranthene | ND | 10 |
| Benzo(b)fluoranthene | ND | 10 | Fluorene | ND | 10 |
| Benzo(g,h,i)perylene | ND | 10 | Hexachlorobenzene | ND | 10 |
| Benzo(k)fluoranthene | ND | 10 | Hexachlorobutadiene | ND | 10 |
| Bis(2-chloroethoxy)methane | ND | 10 | Hexachlorocyclopentadiene | ND | 10 |
| Bis(2-chloroethyl)ether | ND | 10 | Hexachloroethane | ND | 10 |
| Bis(2-chloroisopropyl)ether | ND | 10 | Indeno(1,2,3-cd)pyrene | ND | 10 |
| Bis(2-ethylhexyl)phthalate | ND | 10 | Isophorone | ND | 10 |
| 4-Bromophenylphenylether | ND | 10 | 2-Methylnaphthalene | ND | 10 |
| Butylbenzylphthalate | ND | 10 | 2-Methylphenol | ND | 10 |
| Carbazole | ND | 10 | 4-Methylphenol | ND | [illegible] |
| 4-Chloro-3-methyl phenol | ND | 10 | 2-Methyl-4,6-dinitrophenol | ND | [illegible] |
| 4-Chloroaniline | ND | 10 | N-Nitrosodi-N-propylamine | ND | 10 |
| 2-Chloronaphthalene | ND | 10 | N-Nitrosodiphenylamine | ND | 10 |
| 2-Chlorophenol | ND | 10 | Naphthalene | ND | 10 |
| 4-Chlorophenylphenylether | ND | 10 | 2-Nitroaniline | ND | 25 |
| Chrysene | ND | 10 | 3-Nitroaniline | ND | 25 |
| Di-n-butylphthalate | ND | 10 | 4-Nitroaniline | ND | 25 |
| Di-n-octylphthalate | ND | 10 | Nitrobenzene | ND | 10 |
| Dibenzo(a,h)anthracene | ND | 10 | 2-Nitrophenol | ND | 10 |
| Dibenzofuran | ND | 10 | 4-Nitrophenol | ND | 25 |
| 1,2-Dichlorobenzene | ND | 10 | Pentachlorophenol | ND | 25 |
| 1,3-Dichlorobenzene | ND | 10 | Phenanthrene | ND | 10 |
| 1,4-Dichlorobenzene | ND | 10 | Phenol | ND | 10 |
| 3,3'-Dichlorobenzidine | ND | 10 | Pyrene | ND | 10 |
| 2,4-Dichlorophenol | ND | 10 | 1,2,4-Trichlorobenzene | ND | 10 |
| Diethylphthalate | ND | 10 | 2,4,5-Trichlorophenol | ND | 25 |
| 2,4-Dimethylphenol | ND | 10 | 2,4,6-Trichlorophenol | ND | 10 |


Recycled Paper

SAMPLE ID: WT 116 A
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29210

## SEMI-VOLATILE ORGANIC COMPOUNDS



SURROGATE RECOVERY (Method 8270)

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 2-Fluorophenol | 21 - 110 | 56 |
| Phenol,d5 | 10 - 110 | 38 |
| Nitrobenzene,d5 | 35 - 114 | 89 |
| 2-Fluorobiphenyl | 43 - 116 | 79 |
| 2,4,6-Tribromophenol | 10 - 123 | 165 |
| p-Terphenyl,d14 | 33 - 141 | 72 |

DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.
- * = The Surrogate Compounds have been diluted out.



Recycled Paper

# ANALYTICAL REPORT

Client:
R Lennie Scott, P.E.
Bayer Corporation
1884 Miles Avenue
Elkhart, Indiana 46514
219-262-7234

Report Date: 10-18-95
EIS Lab No: 29211
EIS Project No: 1210-8135-95
EIS Priority: 4
Client P.O.#:
Certification: Indiana Drinking Water Certificate No. C-71-02

Invoice To:
Client

**SAMPLE IDENTIFICATION**
Sample ID: FD-1
Monitoring Well
Date Sampled: 9-21-95
Date Received: 9-21-95

Report To: CLIENT

Extra Report To:

| PARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST |
|---|---|---|---|---|---|
| Cyanide,Total | mg/l | <0.01 | 0.01 | 09-29-95 | Shane,D |
| Aluminum,Total | mg/l | <0.2 | 0.2 | 10-10-95 | Clear,N |
| Antimony,Total | mg/l | <0.06 | 0.06 | 10-10-95 | Clear,N |
| Arsenic,Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N |
| Barium,Total | mg/l | <0.2 | 0.2 | 10-10-95 | Clear,N |
| Beryllium,Total | mg/l | <0.005 | 0.005 | 10-10-95 | Clear,N |
| Cadmium,Total | mg/l | <0.005 | 0.005 | 10-10-95 | Clear,N |
| Calcium,Total | mg/l | 590 | 12.5 | 10-16-95 | Clear,N |
| Chromium,Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N |
| Cobalt,Total | mg/l | <0.05 | 0.05 | 10-10-95 | Clear,N |
| Copper,Total | mg/l | <0.025 | 0.025 | 10-10-95 | Clear,N |
| Iron,Total | mg/l | 6.67 | 0.1 | 10-13-95 | Clear,N |
| Lead,Total | mg/l | 0.003 | 0.003 | 10-10-95 | Clear,N |
| Magnesium,Total | mg/l | 59.2 | 5 | 10-16-95 | Clear,N |
| Manganese,Total | mg/l | 0.465 | 0.015 | 10-10-95 | Clear,N |
| Mercury,Total | mg/l | <0.0002 | 0.0002 | 09-27-95 | Shane,D |
| Nickel,Total | mg/l | <0.04 | 0.04 | 10-10-95 | Clear,N |
| Potassium,Total | mg/l | 39 | 5.0 | 10-16-95 | Shane,D |

QUALITY ASSURANCE OFFICER

LABORATORY DIRECTOR



Recycled Paper

EIS ENVIRONMENTAL ENGINEERS, INC. • 1701 North Ironwood Drive • South Bend, Indiana 46635 • 219/277-5715

EIS Lab No: 29211(continued)

| PARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST |
|---|---|---|---|---|---|
| Selenium,Total | mg/l | 0.007 | 0.005 | 10-10-95 | Clear,N |
| Silver,Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N |
| Sodium,Total | mg/l | 220 | 5 | 10-16-95 | Clear,N |
| Thallium,Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N |
| Vanadium,Total | mg/l | <0.05 | 0.05 | 10-10-95 | Clear,N |
| Zinc,Total | mg/l | <0.02 | 0.02 | 10-10-95 | Clear,N |
| Pesticide/PCB | | * | | 10-06-95 | Clear,B |
| SVOC (BNA) | | * | | 09-28-95 | Geels,S |
| VOC | | * | | 09-22-95 | Myers,N |

* See Attached ORGANICS REPORT

| | | |
|---|---|---|
| Extract Pest/PCB | 09-26-95 | Thompson,G |
| Extract SVOC (BNA) | 09-25-95 | Thompson,G |
| Mercury Digestion | 09-26-95 | Shane,D |
| Metals Digestion (ICP) | 10-09-95 | Shane,D |

ADDITIONAL INFORMATION

1. Chain-of-Custody document is enclosed.
2. Reference Analytical Methods are enclosed.
3. Sample was iced upon receipt.
4. Sample container(s) were properly preserved per USEPA protocols.
5. < = Not Detected at the Detection Limit (DL) shown.
6. DL = Detection Limit and is adjusted for dilutions/concentrations.
7. Batch VOC Quality Control data is enclosed. This data was generated at the time that this sample was analyzed but was performed on a different sample.
8. This sample is a Field Duplicate of Sample ID: WT 116 A.



Recycled Paper

SAMPLE ID: FD-1
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29211

## VOLATILE ORGANIC COMPOUNDS/PETROLEUM HYDROCARBONS

| | | |
|---|---|---|
| Analysis Method: 8260<br>Reporting Units: ppb | Abbreviations and report symbols are explained on the following page | Sample Dilution: None<br>EQL Multiplier: 1 |

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acetone | ND | 10 | c-1,3-Dichloropropene | ND | 10 |
| Benzene | 16 | 10 | t-1,3-Dichloropropene | ND | 10 |
| Bromodichloromethane | ND | 10 | Ethylbenzene | ND | 10 |
| Bromoform | ND | 10 | 2-Hexanone | ND | 10 |
| Bromomethane | ND | 10 | Methylene Chloride | ND | 10 |
| Carbon Disulfide | ND | 10 | Methyl Ethyl Ketone | ND | 10 |
| Carbon Tetrachloride | ND | 10 | Methyl Isobutyl Ketone | ND | 10 |
| Chlorobenzene | ND | 10 | Styrene | ND | 10 |
| Chlorodibromomethane | ND | 10 | 1,1,2,2-Tetrachloroethane | ND | 10 |
| Chloroethane | ND | 10 | Tetrachloroethene | ND | 10 |
| Chloroform | ND | 10 | Toluene | ND | 10 |
| Chloromethane | ND | 10 | 1,1,1-Trichloroethane | ND | 10 |
| 1,1-Dichloroethane | ND | 10 | 1,1,2-Trichloroethane | ND | 10 |
| 1,2-Dichloroethane | ND | 10 | Trichloroethene | ND | 10 |
| 1,1-Dichloroethene | ND | 10 | Vinyl Chloride | ND | 1 |
| 1,2-Dichloroethene (Total) | ND | 10 | Xylenes (Total) | ND | 10 |
| 1,2-Dichloropropane | ND | 10 | | | |

SURROGATE RECOVERY

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 1,2-Dichloroethane,d4 | 76 - 114 | 98 |
| Toluene,d8 | 88 - 110 | 102 |
| Bromofluorobenzene | 86 - 115 | 97 |

DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

SAMPLE ID: FD-1
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29211

## CHLORINATED PESTICIDE COMPOUNDS

| | | |
|---|---|---|
| Analysis Method: 8081<br>Reporting Units: ppb | Abbreviations and report symbols are explained in DEFINITIONS below | Sample Dilution: Nonw<br>EQL Multiplier: 1 |

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Aldrin | ND | 0.05 | Endrin | ND | 0.1 |
| BHC-Alpha | ND | 0.05 | Endrin Aldehyde | ND | 0.1 |
| BHC-Beta | ND | 0.05 | Endrin Ketone | ND | 0.1 |
| BHC-Delta | ND | 0.05 | Heptachlor | ND | 0.05 |
| BHC-Gamma (Lindane) | ND | 0.05 | Heptachlor Epoxide | ND | 0.05 |
| Chlordane-alpha | ND | 0.05 | Methoxychlor | ND | 0.5 |
| Chlordane-gamma | ND | 0.05 | Toxaphene | ND | 5.0 |
| 4,4'-DDD | ND | 0.1 | Aroclor - 1016 | ND | 1.0 |
| 4,4'-DDE | ND | 0.1 | Aroclor - 1221 | ND | 2.0 |
| 4,4'-DDT | ND | 0.1 | Aroclor - 1232 | ND | 1.0 |
| Dieldrin | ND | 0.1 | Aroclor - 1242 | ND | 1.0 |
| Endosulfan I | ND | 0.05 | Aroclor - 1248 | ND | 1.0 |
| Endosulfan II | ND | 0.1 | Aroclor - 1254 | ND | 1.0 |
| Endosulfan Sulfate | ND | 0.1 | Aroclor - 1260 | ND | 1.0 |

### SURROGATE RECOVERY

| Compound Name | Advisory QC Limits | % Recovery |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 30 - 150 | 97 |
| Decachlorobiphenyl | 30 - 150 | 57 |

### DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.



Recycled Paper

SAMPLE ID: FD-1
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29211

## SEMI-VOLATILE ORGANIC COMPOUNDS

Analysis Method: 8270
Reporting Units: ppb

Abbreviations and report symbols are explained on the following page

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acenaphthene | ND | 10 | Dimethylphthalate | ND | 10 |
| Acenaphthylene | ND | 10 | 2,4-Dinitrophenol | ND | 25 |
| Anthracene | ND | 10 | 2,6-Dinitrotoluene | ND | 10 |
| Benzo(a)anthracene | ND | 10 | 2,4-Dinitrotoluene | ND | 10 |
| Benzo(a)pyrene | ND | 10 | Fluoranthene | ND | 10 |
| Benzo(b)fluoranthene | ND | 10 | Fluorene | ND | 10 |
| Benzo(g,h,i)perylene | ND | 10 | Hexachlorobenzene | ND | 10 |
| Benzo(k)fluoranthene | ND | 10 | Hexachlorobutadiene | ND | 10 |
| Bis(2-chloroethoxy)methane | ND | 10 | Hexachlorocyclopentadiene | ND | 10 |
| Bis(2-chloroethyl)ether | ND | 10 | Hexachloroethane | ND | 10 |
| Bis(2-chloroisopropyl)ether | ND | 10 | Indeno(1,2,3-cd)pyrene | ND | 10 |
| Bis(2-ethylhexyl)phthalate | ND | 10 | Isophorone | ND | 10 |
| 4-Bromophenylphenylether | ND | 10 | 2-Methylnaphthalene | ND | 10 |
| Butylbenzylphthalate | ND | 10 | 2-Methylphenol | ND | |
| Carbazole | ND | 10 | 4-Methylphenol | ND | |
| 4-Chloro-3-methyl phenol | ND | 10 | 2-Methyl-4,6-dinitrophenol | ND | |
| 4-Chloroaniline | ND | 10 | N-Nitrosodi-N-propylamine | ND | 10 |
| 2-Chloronaphthalene | ND | 10 | N-Nitrosodiphenylamine | ND | 10 |
| 2-Chlorophenol | ND | 10 | Naphthalene | ND | 10 |
| 4-Chlorophenylphenylether | ND | 10 | 2-Nitroaniline | ND | 25 |
| Chrysene | ND | 10 | 3-Nitroaniline | ND | 25 |
| Di-n-butylphthalate | ND | 10 | 4-Nitroaniline | ND | 25 |
| Di-n-octylphthalate | ND | 10 | Nitrobenzene | ND | 10 |
| Dibenzo(a,h)anthracene | ND | 10 | 2-Nitrophenol | ND | 10 |
| Dibenzofuran | ND | 10 | 4-Nitrophenol | ND | 25 |
| 1,2-Dichlorobenzene | ND | 10 | Pentachlorophenol | ND | 25 |
| 1,3-Dichlorobenzene | ND | 10 | Phenanthrene | ND | 10 |
| 1,4-Dichlorobenzene | ND | 10 | Phenol | ND | 10 |
| 3,3'-Dichlorobenzidine | ND | 10 | Pyrene | ND | 10 |
| 2,4-Dichlorophenol | ND | 10 | 1,2,4-Trichlorobenzene | ND | 10 |
| Diethylphthalate | ND | 10 | 2,4,5-Trichlorophenol | ND | 25 |
| 2,4-Dimethylphenol | ND | 10 | 2,4,6-Trichlorophenol | ND | 10 |



Recycled Paper

SAMPLE ID: FD-1
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29211

# SEMI-VOLATILE ORGANIC COMPOUNDS



SURROGATE RECOVERY (Method 8270)

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 2-Fluorophenol | 21 - 110 | 53 |
| Phenol,d5 | 10 - 110 | 36 |
| Nitrobenzene,d5 | 35 - 114 | 92 |
| 2-Fluorobiphenyl | 43 - 116 | 82 |
| 2,4,6-Tribromophenol | 10 - 123 | 158 |
| p-Terphenyl,d14 | 33 - 141 | 77 |

DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected

EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.

- * = The Surrogate Compounds have been diluted out.



Recycled Paper

# ANALYTICAL REPORT

Client:
R Lennie Scott, P.E.
Bayer Corporation
1884 Miles Avenue
Elkhart, Indiana 46514
219-262-7234

Report Date: 10-18-95
EIS Lab No: 29212
EIS Project No: 1210-8135-95
EIS Priority: 4
Client P.O.#:
Certification: Indiana Drinking Water Certificate No. C-71-02

Invoice To:
Client

**SAMPLE IDENTIFICATION**
Sample ID: WT 116 B
Monitoring Well
Date Sampled: 9-21-95
Date Received: 9-21-95

Report To: CLIENT

Extra Report To:

| PARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST |
|---|---|---|---|---|---|
| Cyanide,Total | mg/l | <0.01 | 0.01 | 09-29-95 | Shane,D |
| Aluminum,Total | mg/l | <0.2 | 0.2 | 10-10-95 | Clear,N |
| Antimony,Total | mg/l | <0.06 | 0.06 | 10-10-95 | Clear,N |
| Arsenic,Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N |
| Barium,Total | mg/l | <0.2 | 0.2 | 10-10-95 | Clear,N |
| Beryllium,Total | mg/l | <0.005 | 0.005 | 10-10-95 | Clear,N |
| Cadmium,Total | mg/l | <0.005 | 0.005 | 10-10-95 | Clear,N |
| Calcium,Total | mg/l | 200 | 5 | 10-16-95 | Clear,N |
| Chromium,Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N |
| Cobalt,Total | mg/l | <0.05 | 0.05 | 10-10-95 | Clear,N |
| Copper,Total | mg/l | <0.025 | 0.025 | 10-10-95 | Clear,N |
| Iron,Total | mg/l | 2.23 | 0.1 | 10-10-95 | Clear,N |
| Lead,Total | mg/l | 0.003 | 0.003 | 10-10-95 | Clear,N |
| Magnesium,Total | mg/l | 34.3 | 5 | 10-13-95 | Clear,N |
| Manganese,Total | mg/l | 0.167 | 0.015 | 10-10-95 | Clear,N |
| Mercury,Total | mg/l | <0.0002 | 0.0002 | 09-27-95 | Shane,D |
| Nickel,Total | mg/l | <0.04 | 0.04 | 10-10-95 | Clear,N |
| Potassium,Total | mg/l | 7.8 | 5.0 | 10-16-95 | Shane,D |

QUALITY ASSURANCE OFFICER

LABORATORY DIRECTOR



Recycled Paper

INC. • 1701 North Ironwood Drive • South Bend, Indiana 46635 • 219/277-5715

EIS Lab No: 29212(continued)

| PARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST |
|---|---|---|---|---|---|
| Selenium,Total | mg/l | <0.005 | 0.005 | 10-10-95 | Clear,N |
| Silver,Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N |
| Sodium,Total | mg/l | 40.9 | 5 | 10-13-95 | Clear,N |
| Thallium,Total | mg/l | 0.012 | 0.01 | 10-10-95 | Clear,N |
| Vanadium,Total | mg/l | <0.05 | 0.05 | 10-10-95 | Clear,N |
| Zinc,Total | mg/l | <0.02 | 0.02 | 10-10-95 | Clear,N |
| Pesticide/PCB | | * | | 10-06-95 | Clear,B |
| SVOC (BNA) | | * | | 09-28-95 | Geels,S |
| VOC | | * | | 09-22-95 | Myers,N |
| Extract Pest/PCB | | | | 09-26-95 | Thompson,G |
| Extract SVOC (BNA) | | | | 09-25-95 | Thompson,G |
| Mercury Digestion | | | | 09-26-95 | Shane,D |
| Metals Digestion (ICP) | | | | 10-09-95 | Shane,D |

* See Attached ORGANICS REPORT

ADDITIONAL INFORMATION

1. Chain-of-Custody document is enclosed.
2. Reference Analytical Methods are enclosed.
3. Sample was iced upon receipt.
4. Sample container(s) were properly preserved per USEPA protocols.
5. < = Not Detected at the Detection Limit (DL) shown.
6. DL = Detection Limit and is adjusted for dilutions/concentrations.
7. Batch VOC Quality Control data is enclosed. This data was generated at the time that this sample was analyzed but was performed on a different sample.



Recycled Paper

SAMPLE ID: WT 116 B
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29212

## VOLATILE ORGANIC COMPOUNDS/PETROLEUM HYDROCARBONS

| | | |
|---|---|---|
| Analysis Method: 8260<br>Reporting Units: ppb | Abbreviations and report symbols are explained on the following page | Sample Dilution: None<br>EQL Multiplier: 1 |

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acetone | ND | 10 | c-1,3-Dichloropropene | ND | 10 |
| Benzene | ND | 10 | t-1,3-Dichloropropene | ND | 10 |
| Bromodichloromethane | ND | 10 | Ethylbenzene | ND | 10 |
| Bromoform | ND | 10 | 2-Hexanone | ND | 10 |
| Bromomethane | ND | 10 | Methylene Chloride | ND | 10 |
| Carbon Disulfide | ND | 10 | Methyl Ethyl Ketone | ND | 10 |
| Carbon Tetrachloride | ND | 10 | Methyl Isobutyl Ketone | ND | 10 |
| Chlorobenzene | ND | 10 | Styrene | ND | 10 |
| Chlorodibromomethane | ND | 10 | 1,1,2,2-Tetrachloroethane | ND | 10 |
| Chloroethane | ND | 10 | Tetrachloroethene | ND | 10 |
| Chloroform | ND | 10 | Toluene | ND | 10 |
| Chloromethane | ND | 10 | 1,1,1-Trichloroethane | ND | 10 |
| 1,1-Dichloroethane | ND | 10 | 1,1,2-Trichloroethane | ND | 10 |
| 1,2-Dichloroethane | ND | 10 | Trichloroethene | ND | 10 |
| 1,1-Dichloroethene | ND | 10 | Vinyl Chloride | ND | 10 |
| 1,2-Dichloroethene (Total) | ND | 10 | Xylenes (Total) | ND | 10 |
| 1,2-Dichloropropane | ND | 10 | | | |

### SURROGATE RECOVERY

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 1,2-Dichloroethane,d4 | 76 - 114 | 102 |
| Toluene,d8 | 88 - 110 | 102 |
| Bromofluorobenzene | 86 - 115 | 96 |

### DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Paper

SAMPLE ID: WT 116 B
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29212

## CHLORINATED PESTICIDE COMPOUNDS

| | | |
|---|---|---|
| Analysis Method: 8081<br>Reporting Units: ppb | Abbreviations and report symbols are explained in DEFINITIONS below | Sample Dilution: None<br>EQL Multiplier: 1 |

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Aldrin | ND | 0.05 | Endrin | ND | 0.1 |
| BHC-Alpha | ND | 0.05 | Endrin Aldehyde | ND | 0.1 |
| BHC-Beta | ND | 0.05 | Endrin Ketone | ND | 0.1 |
| BHC-Delta | ND | 0.05 | Heptachlor | ND | 0.05 |
| BHC-Gamma(Lindane) | ND | 0.05 | Heptachlor Epoxide | ND | 0.05 |
| Chlordane-alpha | ND | 0.05 | Methoxychlor | ND | 0.5 |
| Chlordane-gamma | ND | 0.05 | Toxaphene | ND | 5.0 |
| 4,4'-DDD | ND | 0.1 | Aroclor - 1016 | ND | 1.0 |
| 4,4'-DDE | ND | 0.1 | Aroclor - 1221 | ND | 2.0 |
| 4,4'-DDT | ND | 0.1 | Aroclor - 1232 | ND | 1.0 |
| Dieldrin | ND | 0.1 | Aroclor - 1242 | ND | 1.0 |
| Endosulfan I | ND | 0.05 | Aroclor - 1248 | ND | 1.0 |
| Endosulfan II | ND | 0.1 | Aroclor - 1254 | ND | 1.0 |
| ndosulfan Sulfate | ND | 0.1 | Aroclor - 1260 | ND | 1.0 |

### SURROGATE RECOVERY

| Compound Name | Advisory QC Limits | % Recovery |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 30 - 150 | 98 |
| Decachlorobiphanyl | 30 - 150 | 88 |

### DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

SAMPLE ID: WT 116 B
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29212

## SEMI-VOLATILE ORGANIC COMPOUNDS

Analysis Method: 8270
Reporting Units: ppb

Abbreviations and report symbols are explained on the following page

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acenaphthene | ND | 10 | Dimethylphthalate | ND | 10 |
| Acenaphthylene | ND | 10 | 2,4-Dinitrophenol | ND | 25 |
| Anthracene | ND | 10 | 2,6-Dinitrotoluene | ND | 10 |
| Benzo(a)anthracene | ND | 10 | 2,4-Dinitrotoluene | ND | 10 |
| Benzo(a)pyrene | ND | 10 | Fluoranthene | ND | 10 |
| Benzo(b)fluoranthene | ND | 10 | Fluorene | ND | 10 |
| Benzo(g,h,i)perylene | ND | 10 | Hexachlorobenzene | ND | 10 |
| Benzo(k)fluoranthene | ND | 10 | Hexachlorobutadiene | ND | 10 |
| Bis(2-chloroethoxy)methane | ND | 10 | Hexachlorocyclopentadiene | ND | 10 |
| Bis(2-chloroethyl)ether | ND | 10 | Hexachloroethane | ND | 10 |
| Bis(2-chloroisopropyl)ether | ND | 10 | Indeno(1,2,3-cd)pyrene | ND | 10 |
| Bis(2-ethylhexyl)phthalate | ND | 10 | Isophorone | ND | 10 |
| 4-Bromophenylphenylether | ND | 10 | 2-Methylnaphthalene | ND | 10 |
| Butylbenzylphthalate | ND | 10 | 2-Methylphenol | ND | |
| Carbazole | ND | 10 | 4-Methylphenol | ND | |
| 4-Chloro-3-methyl phenol | ND | 10 | 2-Methyl-4,6-dinitrophenol | ND | 25 |
| 4-Chloroaniline | ND | 10 | N-Nitrosodi-N-propylamine | ND | 10 |
| 2-Chloronaphthalene | ND | 10 | N-Nitrosodiphenylamine | ND | 10 |
| 2-Chlorophenol | ND | 10 | Naphthalene | ND | 10 |
| 4-Chlorophenylphenylether | ND | 10 | 2-Nitroaniline | ND | 25 |
| Chrysene | ND | 10 | 3-Nitroaniline | ND | 25 |
| Di-n-butylphthalate | ND | 10 | 4-Nitroaniline | ND | 25 |
| Di-n-octylphthalate | ND | 10 | Nitrobenzene | ND | 10 |
| Dibenzo(a,h)anthracene | ND | 10 | 2-Nitrophenol | ND | 10 |
| Dibenzofuran | ND | 10 | 4-Nitrophenol | ND | 25 |
| 1,2-Dichlorobenzene | ND | 10 | Pentachlorophenol | ND | 25 |
| 1,3-Dichlorobenzene | ND | 10 | Phenanthrene | ND | 10 |
| 1,4-Dichlorobenzene | ND | 10 | Phenol | ND | 10 |
| 3,3'-Dichlorobenzidine | ND | 10 | Pyrene | ND | 10 |
| 2,4-Dichlorophenol | ND | 10 | 1,2,4-Trichlorobenzene | ND | 10 |
| Diethylphthalate | ND | 10 | 2,4,5-Trichlorophenol | ND | 25 |
| 2,4-Dimethylphenol | ND | 10 | 2,4,6-Trichlorophenol | ND | 10 |


Recycled Paper

SAMPLE ID: WT 116 B
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29212

# SEMI-VOLATILE ORGANIC COMPOUNDS



## SURROGATE RECOVERY (Method 8270)

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 2-Fluorophenol | 21 - 110 | 56 |
| Phenol,d5 | 10 - 110 | 37 |
| Nitrobenzene,d5 | 35 - 114 | 96 |
| 2-Fluorobiphenyl | 43 - 116 | 86 |
| 2,4,6-Tribromophenol | 10 - 123 | 148 |
| p-Terphenyl,d14 | 33 - 141 | 76 |

## DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected

EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.

- * = The Surrogate Compounds have been diluted out.



Recycled Paper

# ANALYTICAL REPORT

Client:
R Lennie Scott, P.E.
Bayer Corporation
1884 Miles Avenue
Elkhart, Indiana 46514
219-262-7234

Report Date: 10-18-95
EIS Lab No: 29213
EIS Project No: 1210-8135-95
EIS Priority: 4
Client P.O.#:
Certification: Indiana Drinking Water Certificate No. C-71-02

Invoice To:
Client

**SAMPLE IDENTIFICATION**
Sample ID: TB-4A
Deionized Water
Date Sampled: 9-15-95
Date Received: 9-21-95

Report To: CLIENT

Extra Report To:

| PARAMETER | RESULT | TEST DATE | ANALYST |
|---|---|---|---|
| VOC | * | 09-22-95 | Myers,N |

* See Attached ORGANICS REPORT

**ADDITIONAL INFORMATION**

1. Chain-of-Custody document is enclosed.
2. Sample was iced upon receipt.
3. Sample container(s) were properly preserved per USEPA protocols.
4. This sample is a Trip Blank for day 4 from Team A.

QUALITY ASSURANCE OFFICER

LABORATORY DIRECTOR

AMPLE ID: TB-4A
Deionized Water

REPORT DATE: 10/18/95
EIS LAB NO: 29213

## VOLATILE ORGANIC COMPOUNDS/PETROLEUM HYDROCARBONS

| | | |
|---|---|---|
| Analysis Method: 8260<br>Reporting Units: ppb | Abbreviations and report symbols are explained on the following page | Sample Dilution: None<br>EQL Multiplier: 1 |

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acetone | ND | 10 | c-1,3-Dichloropropene | ND | 10 |
| Benzene | ND | 10 | t-1,3-Dichloropropene | ND | 10 |
| Bromodichloromethane | ND | 10 | Ethylbenzene | ND | 10 |
| Bromoform | ND | 10 | 2-Hexanone | ND | 10 |
| Bromomethane | ND | 10 | Methylene Chloride | ND | 10 |
| Carbon Disulfide | ND | 10 | Methyl Ethyl Ketone | ND | 10 |
| Carbon Tetrachloride | ND | 10 | Methyl Isobutyl Ketone | ND | 10 |
| Chlorobenzene | ND | 10 | Styrene | ND | 10 |
| Chlorodibromomethane | ND | 10 | 1,1,2,2-Tetrachloroethane | ND | 10 |
| Chloroethane | ND | 10 | Tetrachloroethene | ND | 10 |
| Chloroform | ND | 10 | Toluene | ND | 10 |
| Chloromethane | ND | 10 | 1,1,1-Trichloroethane | ND | 10 |
| 1,1-Dichloroethane | ND | 10 | 1,1,2-Trichloroethane | ND | 10 |
| 1,2-Dichloroethane | ND | 10 | Trichloroethene | ND | 10 |
| 1,1-Dichloroethene | ND | 10 | Vinyl Chloride | ND | 10 |
| 1,2-Dichloroethene (Total) | ND | 10 | Xylenes (Total) | ND | 10 |
| 1,2-Dichloropropane | ND | 10 | | | |

SURROGATE RECOVERY

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 1,2-Dichloroethane,d4 | 76 - 114 | 100 |
| Toluene,d8 | 88 - 110 | 102 |
| Bromofluorobenzene | 86 - 115 | 94 |

DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

# ANALYTICAL REPORT

Client:
R Lennie Scott, P.E.
Bayer Corporation
1884 Miles Avenue
Elkhart, Indiana 46514
219-262-7234

Report Date: 10-18-95
EIS Lab No: 29250
EIS Project No: 1210-8135-95
EIS Priority: 4
Client P.O.#:
Certification: Indiana Drinking Water Certificate No. C-71-02

Invoice To:
Client

**SAMPLE IDENTIFICATION**
Sample ID: WT 01
Monitoring Well
Date Sampled: 9-22-95
Date Received: 9-22-95

Report To: CLIENT

Extra Report To:

| PARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST |
|---|---|---|---|---|---|
| Cyanide,Total | mg/l | <0.01 | 0.01 | 09-29-95 | Shane,D |
| Aluminum,Total | mg/l | <0.2 | 0.2 | 10-10-95 | Clear,N |
| Antimony,Total | mg/l | <0.06 | 0.06 | 10-10-95 | Clear,N |
| Arsenic,Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N |
| Barium,Total | mg/l | <0.2 | 0.2 | 10-10-95 | Clear,N |
| Beryllium,Total | mg/l | <0.005 | 0.005 | 10-10-95 | Clear,N |
| Cadmium,Total | mg/l | <0.005 | 0.005 | 10-10-95 | Clear,N |
| Calcium,Total | mg/l | 110 | 5 | 10-16-95 | Clear,N |
| Chromium,Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N |
| Cobalt,Total | mg/l | <0.05 | 0.05 | 10-10-95 | Clear,N |
| Copper,Total | mg/l | <0.025 | 0.025 | 10-10-95 | Clear,N |
| Iron,Total | mg/l | <0.1 | 0.1 | 10-10-95 | Clear,N |
| Lead,Total | mg/l | <0.003 | 0.003 | 10-10-95 | Clear,N |
| Magnesium,Total | mg/l | 25.9 | 5 | 10-13-95 | Clear,N |
| Manganese,Total | mg/l | 0.177 | 0.015 | 10-10-95 | Clear,N |
| Mercury,Total | mg/l | <0.0002 | 0.0002 | 09-27-95 | Shane,D |
| Nickel,Total | mg/l | <0.04 | 0.04 | 10-10-95 | Clear,N |
| Potassium,Total | mg/l | <5.0 | 5.0 | 10-16-95 | Shane,D |

QUALITY ASSURANCE OFFICER

LABORATORY DIRECTOR



Recycled Paper

EIS Lab No: 29250(continued)

| PARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST |
|---|---|---|---|---|---|
| Selenium,Total | mg/l | <0.005 | 0.005 | 10-10-95 | Clear,N |
| Silver,Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N |
| Sodium,Total | mg/l | 11.7 | 5 | 10-13-95 | Clear,N |
| Thallium,Total | mg/l | 0.013 | 0.01 | 10-10-95 | Clear,N |
| Vanadium,Total | mg/l | <0.05 | 0.05 | 10-10-95 | Clear,N |
| Zinc,Total | mg/l | <0.02 | 0.02 | 10-10-95 | Clear,N |
| Pesticide/PCB | | * | | 10-06-95 | Clear,B |
| SVOC (BNA) | | * | | 10-05-95 | Geels,S |
| VOC | | * | | 09-27-95 | Myers,N |
| * See Attached ORGANICS REPORT | | | | | |
| Extract Pest/PCB | | | | 09-26-95 | Thompson,G |
| Extract SVOC (BNA) | | | | 09-27-95 | Thompson,G |
| Mercury Digestion | | | | 09-26-95 | Shane,D |
| Metals Digestion (ICP) | | | | 10-09-95 | Shane,D |

ADDITIONAL INFORMATION

1. Chain-of-Custody document is enclosed.
2. Reference Analytical Methods are enclosed.
3. Sample was iced upon receipt.
4. Sample container(s) were properly preserved per USEPA protocols.
5. < = Not Detected at the Detection Limit (DL) shown.
6. DL = Detection Limit and is adjusted for dilutions/concentrations.
7. Batch [organic] Quality Control data is enclosed. This data was generated at the time that this sample was analyzed but was performed on a different sample.



Recycled Paper

SAMPLE ID: MT 01
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29250

## VOLATILE ORGANIC COMPOUNDS/PETROLEUM HYDROCARBONS

| | | |
|---|---|---|
| Analysis Method: 8260<br>Reporting Units: ppb | Abbreviations and report symbols are explained on the following page | Sample Dilution: None<br>EQL Multiplier: 1 |

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acetone | ND | 10 | c-1,3-Dichloropropene | ND | 10 |
| Benzene | ND | 10 | t-1,3-Dichloropropene | ND | 10 |
| Bromodichloromethane | ND | 10 | Ethylbenzene | ND | 10 |
| Bromoform | ND | 10 | 2-Hexanone | ND | 10 |
| Bromomethane | ND | 10 | Methylene Chloride | ND | 10 |
| Carbon Disulfide | ND | 10 | Methyl Ethyl Ketone | ND | 10 |
| Carbon Tetrachloride | ND | 10 | Methyl Isobutyl Ketone | ND | 10 |
| Chlorobenzene | ND | 10 | Styrene | ND | 10 |
| Chlorodibromomethane | ND | 10 | 1,1,2,2-Tetrachloroethane | ND | 10 |
| Chloroethane | ND | 10 | Tetrachloroethene | ND | 10 |
| Chloroform | ND | 10 | Toluene | ND | 10 |
| Chloromethane | ND | 10 | 1,1,1-Trichloroethane | ND | 10 |
| 1,1-Dichloroethane | ND | 10 | 1,1,2-Trichloroethane | ND | 10 |
| 1,2-Dichloroethane | ND | 10 | Trichloroethene | ND | 10 |
| 1,1-Dichloroethene | ND | 10 | Vinyl Chloride | ND | 10 |
| 1,2-Dichloroethene (Total) | ND | 10 | Xylenes (Total) | ND | 10 |
| 1,2-Dichloropropane | ND | 10 | | | |

### SURROGATE RECOVERY

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 1,2-Dichloroethane,d4 | 76 - 114 | 98 |
| Toluene,d8 | 88 - 110 | 101 |
| Bromofluorobenzene | 86 - 115 | 93 |

### DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

SAMPLE ID: WT 01
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29250

# CHLORINATED PESTICIDE COMPOUNDS

Analysis Method: 8081
Reporting Units: ppb

Abbreviations and report symbols are explained in DEFINITIONS below

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Aldrin | ND | 0.05 | Endrin | ND | 0.1 |
| BHC-Alpha | ND | 0.05 | Endrin Aldehyde | ND | 0.1 |
| BHC-Beta | ND | 0.05 | Endrin Ketone | ND | 0.1 |
| BHC-Delta | ND | 0.05 | Heptachlor | ND | 0.05 |
| BHC-Gamma(Lindane) | ND | 0.05 | Heptachlor Epoxide | ND | 0.05 |
| Chlordane-alpha | ND | 0.05 | Methoxychlor | ND | 0.5 |
| Chlordane-gamma | ND | 0.05 | Toxaphene | ND | 5.0 |
| 4,4'-DDD | ND | 0.1 | Aroclor - 1016 | ND | 1.0 |
| 4,4'-DDE | ND | 0.1 | Aroclor - 1221 | ND | 2.0 |
| 4,4'-DDT | ND | 0.1 | Aroclor - 1232 | ND | 1.0 |
| Dieldrin | ND | 0.1 | Aroclor - 1242 | ND | 1.0 |
| Endosulfan I | ND | 0.05 | Aroclor - 1248 | ND | 1.0 |
| Endosulfan II | ND | 0.1 | Aroclor - 1254 | ND | 1.0 |
| Endosulfan Sulfate | ND | 0.1 | Aroclor - 1260 | ND | 1.0 |

SURROGATE RECOVERY

| Compound Name | Advisory QC Limits | % Recovery |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 30 - 150 | 97 |
| Decachlorobiphenyl | 30 - 150 | 110 |

DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

SAMPLE ID: WT 01
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29250

## SEMI-VOLATILE ORGANIC COMPOUNDS

Analysis Method: 8270
Reporting Units: ppb

Abbreviations and report symbols are explained on the following page

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acenaphthene | ND | 10 | Dimethylphthalate | ND | 10 |
| Acenaphthylene | ND | 10 | 2,4-Dinitrophenol | ND | 25 |
| Anthracene | ND | 10 | 2,6-Dinitrotoluene | ND | 10 |
| Benzo(a)anthracene | ND | 10 | 2,4-Dinitrotoluene | ND | 10 |
| Benzo(a)pyrene | ND | 10 | Fluoranthene | ND | 10 |
| Benzo(b)fluoranthene | ND | 10 | Fluorene | ND | 10 |
| Benzo(g,h,i)perylene | ND | 10 | Hexachlorobenzene | ND | 10 |
| Benzo(k)fluoranthene | ND | 10 | Hexachlorobutadiene | ND | 10 |
| Bis(2-chloroethoxy)methane | ND | 10 | Hexachlorocyclopentadiene | ND | 10 |
| Bis(2-chloroethyl)ether | ND | 10 | Hexachloroethane | ND | 10 |
| Bis(2-chloroisopropyl)ether | ND | 10 | Indeno(1,2,3-cd)pyrene | ND | 10 |
| Bis(2-ethylhexyl)phthalate | ND | 10 | Isophorone | ND | 10 |
| 4-Bromophenylphenylether | ND | 10 | 2-Methylnaphthalene | ND | 10 |
| Butylbenzylphthalate | ND | 10 | 2-Methylphenol | ND | 10 |
| Carbazole | ND | 10 | 4-Methylphenol | ND | [illegible] |
| 4-Chloro-3-methyl phenol | ND | 10 | 2-Methyl-4,6-dinitrophenol | ND | 25 |
| 4-Chloroaniline | ND | 10 | N-Nitrosodi-N-propylamine | ND | 10 |
| 2-Chloronaphthalene | ND | 10 | N-Nitrosodiphenylamine | ND | 10 |
| 2-Chlorophenol | ND | 10 | Naphthalene | ND | 10 |
| 4-Chlorophenylphenylether | ND | 10 | 2-Nitroaniline | ND | 25 |
| Chrysene | ND | 10 | 3-Nitroaniline | ND | 25 |
| Di-n-butylphthalate | ND | 10 | 4-Nitroaniline | ND | 25 |
| Di-n-octylphthalate | ND | 10 | Nitrobenzene | ND | 10 |
| Dibenzo(a,h)anthracene | ND | 10 | 2-Nitrophenol | ND | 10 |
| Dibenzofuran | ND | 10 | 4-Nitrophenol | ND | 25 |
| 1,2-Dichlorobenzene | ND | 10 | Pentachlorophenol | ND | 25 |
| 1,3-Dichlorobenzene | ND | 10 | Phenanthrene | ND | 10 |
| 1,4-Dichlorobenzene | ND | 10 | Phenol | ND | 10 |
| 3,3'-Dichlorobenzidine | ND | 10 | Pyrene | ND | 10 |
| 2,4-Dichlorophenol | ND | 10 | 1,2,4-Trichlorobenzene | ND | 10 |
| Diethylphthalate | ND | 10 | 2,4,5-Trichlorophenol | ND | 25 |
| 2,4-Dimethylphenol | ND | 10 | 2,4,6-Trichlorophenol | ND | 10 |


Recycled Paper

SAMPLE ID: WT 01
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29250

# SEMI-VOLATILE ORGANIC COMPOUNDS



SURROGATE RECOVERY (Method 8270)

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 2-Fluorophenol | 21 - 110 | 38 |
| Phenol,d5 | 10 - 110 | 24 |
| Nitrobenzene,d5 | 35 - 114 | 88 |
| 2-Fluorobiphenyl | 43 - 116 | 88 |
| 2,4,6-Tribromophenol | 10 - 123 | 123 |
| p-Terphenyl,d14 | 33 - 141 | 74 |

DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.
- * = The Surrogate Compounds have been diluted out.



Recycled Paper

# ANALYTICAL REPORT

Client:
R Lennie Scott, P.E.
Bayer Corporation
1884 Miles Avenue
Elkhart, Indiana 46514
219-262-7234

Report Date: 10-18-95
EIS Lab No: 29251
EIS Project No: 1210-8135-95
EIS Priority: 4
Client P.O.#:
Certification: Indiana Drinking Water Certificate No. C-71-02

Invoice To:
Client

**SAMPLE IDENTIFICATION**
Sample ID: TB-5B
Deionized Water
Date Sampled: 9-22-95
Date Received: 9-22-95

Report To: CLIENT

Extra Report To:

| PARAMETER | RESULT | TEST DATE | ANALYST |
|---|---|---|---|
| VOC | * | 09-27-95 | Myers,N |

* See Attached ORGANICS REPORT

**ADDITIONAL INFORMATION**

1. Chain-of-Custody document is enclosed.
2. Sample was iced upon receipt.
3. Sample container(s) were properly preserved per USEPA protocols.
4. This sample is a Trip Blank for day 5 from Team B.

QUALITY ASSURANCE OFFICER

LABORATORY DIRECTOR

SAMPLE ID: TB-5B
Deionized Water

REPORT DATE: 10/18/95
EIS LAB NO: 29251

## VOLATILE ORGANIC COMPOUNDS/PETROLEUM HYDROCARBONS

| | | |
|---|---|---|
| Analysis Method: 8260<br>Reporting Units: ppb | Abbreviations and report symbols are explained on the following page | Sample Dilution: None<br>EQL Multiplier: 1 |

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acetone | ND | 10 | c-1,3-Dichloropropene | ND | 10 |
| Benzene | ND | 10 | t-1,3-Dichloropropene | ND | 10 |
| Bromodichloromethane | ND | 10 | Ethylbenzene | ND | 10 |
| Bromoform | ND | 10 | 2-Hexanone | ND | 10 |
| Bromomethane | ND | 10 | Methylene Chloride | ND | 10 |
| Carbon Disulfide | ND | 10 | Methyl Ethyl Ketone | ND | 10 |
| Carbon Tetrachloride | ND | 10 | Methyl Isobutyl Ketone | ND | 10 |
| Chlorobenzene | ND | 10 | Styrene | ND | 10 |
| Chlorodibromomethane | ND | 10 | 1,1,2,2-Tetrachloroethane | ND | 10 |
| Chloroethane | ND | 10 | Tetrachloroethene | ND | 10 |
| Chloroform | ND | 10 | Toluene | ND | 10 |
| Chloromethane | ND | 10 | 1,1,1-Trichloroethane | ND | 10 |
| 1,1-Dichloroethane | ND | 10 | 1,1,2-Trichloroethane | ND | 10 |
| 1,2-Dichloroethane | ND | 10 | Trichloroethene | ND | 10 |
| ,1-Dichloroethene | ND | 10 | Vinyl Chloride | ND | 10 |
| .,2-Dichloroethene (Total) | ND | 10 | Xylenes (Total) | ND | 10 |
| 1,2-Dichloropropane | ND | 10 | | | |

SURROGATE RECOVERY

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 1,2-Dichloroethane,d4 | 76 - 114 | 96 |
| Toluene,d8 | 88 - 110 | 102 |
| Bromofluorobenzene | 86 - 115 | 100 |

DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

# ANALYTICAL REPORT

Client:
R Lennie Scott, P.E.
Bayer Corporation
1884 Miles Avenue
Elkhart, Indiana 46514
219-262-7234

Report Date: 10-18-95
EIS Lab No: 29265
EIS Project No: 1210-8135-95
EIS Priority: 4
Client P.O.#:
Certification: Indiana Drinking Water Certificate No. C-71-02

Invoice To:
Client

**SAMPLE IDENTIFICATION**
Sample ID: WT 111 A
Monitoring Well
Date Sampled: 9-22-95
Date Received: 9-22-95

Report To: CLIENT

Extra Report To:

| PARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST |
|---|---|---|---|---|---|
| Cyanide,Total | mg/l | <0.01 | 0.01 | 09-29-95 | Shane,D |
| Aluminum,Total | mg/l | 0.336 | 0.2 | 10-11-95 | Clear,N |
| Antimony,Total | mg/l | <0.06 | 0.06 | 10-11-95 | Clear,N |
| Arsenic,Total | mg/l | <0.01 | 0.01 | 10-11-95 | Clear,N |
| Barium,Total | mg/l | <0.2 | 0.2 | 10-11-95 | Clear,N |
| Beryllium,Total | mg/l | <0.005 | 0.005 | 10-11-95 | Clear,N |
| Cadmium,Total | mg/l | <0.005 | 0.005 | 10-11-95 | Clear,N |
| Calcium,Total | mg/l | 6.74 | 5 | 10-13-95 | Clear,N |
| Chromium,Total | mg/l | <0.01 | 0.01 | 10-11-95 | Clear,N |
| Cobalt,Total | mg/l | <0.05 | 0.05 | 10-11-95 | Clear,N |
| Copper,Total | mg/l | <0.025 | 0.025 | 10-11-95 | Clear,N |
| Iron,Total | mg/l | 1.59 | 0.1 | 10-11-95 | Clear,N |
| Lead,Total | mg/l | 0.003 | 0.003 | 10-11-95 | Clear,N |
| Magnesium,Total | mg/l | <5 | 5 | 10-13-95 | Clear,N |
| Manganese,Total | mg/l | 0.175 | 0.015 | 10-11-95 | Clear,N |
| Mercury,Total | mg/l | <0.0002 | 0.0002 | 09-27-95 | Shane,D |
| Nickel,Total | mg/l | <0.04 | 0.04 | 10-11-95 | Clear,N |
| Potassium,Total | mg/l | <5.0 | 5.0 | 10-16-95 | Shane,D |

QUALITY ASSURANCE OFFICER

LABORATORY DIRECTOR



Recycled Paper

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EIS Lab No: 29265(continued)

| PARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST |
|---|---|---|---|---|---|
| Selenium,Total | mg/l | <0.005 | 0.005 | 10-11-95 | Clear,N |
| Silver,Total | mg/l | <0.01 | 0.01 | 10-11-95 | Clear,N |
| Sodium,Total | mg/l | <5 | 5 | 10-13-95 | Clear,N |
| Thallium,Total | mg/l | <0.01 | 0.01 | 10-11-95 | Clear,N |
| Vanadium,Total | mg/l | <0.05 | 0.05 | 10-11-95 | Clear,N |
| Zinc,Total | mg/l | <0.02 | 0.02 | 10-11-95 | Clear,N |
| Pesticide/PCB | | * | | 10-10-95 | Clear,B |
| SVOC (BNA) | | * | | 10-05-95 | Geels,S |
| VOC | | * | | 09-27-95 | Myers,N |
| * See Attached ORGANICS REPORT | | | | | |
| Extract Pest/PCB | | | | 09-26-95 | Thompson,G |
| Extract SVOC (BNA) | | | | 09-27-95 | Thompson,G |
| Mercury Digestion | | | | 09-26-95 | Shane,D |
| Metals Digestion (ICP) | | | | 10-09-95 | Shane,D |

**ADDITIONAL INFORMATION**

1. Chain-of-Custody document is enclosed.
2. Reference Analytical Methods are enclosed.
3. Sample was iced upon receipt.
4. Sample container(s) were properly preserved per USEPA protocols.
5. < = Not Detected at the Detection Limit (DL) shown.
6. DL = Detection Limit and is adjusted for dilutions/concentrations.
7. Batch [organic] Quality Control data is enclosed. This data was generated at the time that this sample was analyzed but was performed on a different sample.



Recycled Paper

SAMPLE ID: WT 111 A
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29265

## VOLATILE ORGANIC COMPOUNDS/PETROLEUM HYDROCARBONS

Analysis Method: 8260
Reporting Units: ppb

Abbreviations and report symbols are explained on the following page

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acetone | ND | 10 | c-1,3-Dichloropropene | ND | 10 |
| Benzene | ND | 10 | t-1,3-Dichloropropene | ND | 10 |
| Bromodichloromethane | ND | 10 | Ethylbenzene | ND | 10 |
| Bromoform | ND | 10 | 2-Hexanone | ND | 10 |
| Bromomethane | ND | 10 | Methylene Chloride | ND | 10 |
| Carbon Disulfide | ND | 10 | Methyl Ethyl Ketone | ND | 10 |
| Carbon Tetrachloride | ND | 10 | Methyl Isobutyl Ketone | ND | 10 |
| Chlorobenzene | ND | 10 | Styrene | ND | 10 |
| Chlorodibromomethane | ND | 10 | 1,1,2,2-Tetrachloroethane | ND | 10 |
| Chloroethane | ND | 10 | Tetrachloroethene | ND | 10 |
| Chloroform | ND | 10 | Toluene | ND | 10 |
| Chloromethane | ND | 10 | 1,1,1-Trichloroethane | ND | 10 |
| 1,1-Dichloroethane | ND | 10 | 1,1,2-Trichloroethane | ND | 10 |
| 1,2-Dichloroethane | ND | 10 | Trichloroethene | ND | 10 |
| 1,1-Dichloroethene | ND | 10 | Vinyl Chloride | ND | 10 |
| 1,2-Dichloroethene (Total) | ND | 10 | Xylenes (Total) | ND | 10 |
| 1,2-Dichloropropane | ND | 10 | | | |

### SURROGATE RECOVERY

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 1,2-Dichloroethane,d4 | 76 - 114 | 98 |
| Toluene,d8 | 88 - 110 | 100 |
| Bromofluorobenzene | 86 - 115 | 96 |

### DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

SAMPLE ID: WT 111 A
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29265

# CHLORINATED PESTICIDE COMPOUNDS

Analysis Method: 8081
Reporting Units: ppb

Abbreviations and report symbols are explained in DEFINITIONS below

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Aldrin | ND | 0.05 | Endrin | ND | 0.1 |
| BHC-Alpha | ND | 0.05 | Endrin Aldehyde | ND | 0.1 |
| BHC-Beta | ND | 0.05 | Endrin Ketone | ND | 0.1 |
| BHC-Delta | ND | 0.05 | Heptachlor | ND | 0.05 |
| BHC-Gamma (Lindane) ..... | 0.052 | 0.05 | Heptachlor Epoxide | ND | 0.05 |
| Chlordane-alpha | ND | 0.05 | Methoxychlor | ND | 0.5 |
| Chlordane-gamma | ND | 0.05 | Toxaphene | ND | 5.0 |
| 4,4'-DDD | ND | 0.1 | Aroclor - 1016 | ND | 1.0 |
| 4,4'-DDE | ND | 0.1 | Aroclor - 1221 | ND | 2.0 |
| 4,4'-DDT | ND | 0.1 | Aroclor - 1232 | ND | 1.0 |
| Dieldrin | ND | 0.1 | Aroclor - 1242 | ND | 1.0 |
| Endosulfan I | ND | 0.05 | Aroclor - 1248 | ND | 1.0 |
| Endosulfan II | ND | 0.1 | Aroclor - 1254 | ND | 1.0 |
| Endosulfan Sulfate | ND | 0.1 | Aroclor - 1260 | ND | 1 |

## SURROGATE RECOVERY

| Compound Name | Advisory QC Limits | % Recovery |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 30 - 150 | 90 |
| Decachlorobiphenyl | 30 - 150 | 81 |

## DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

SAMPLE ID: WT 111 A
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29265

## SEMI-VOLATILE ORGANIC COMPOUNDS

Analysis Method: 8270
Reporting Units: ppb

Abbreviations and report symbols are explained on the following page

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acenaphthene | ND | 10 | Dimethylphthalate | ND | 10 |
| Acenaphthylene | ND | 10 | 2,4-Dinitrophenol | ND | 25 |
| Anthracene | ND | 10 | 2,6-Dinitrotoluene | ND | 10 |
| Benzo(a)anthracene | ND | 10 | 2,4-Dinitrotoluene | ND | 10 |
| Benzo(a)pyrene | ND | 10 | Fluoranthene | ND | 10 |
| Benzo(b)fluoranthene | ND | 10 | Fluorene | ND | 10 |
| Benzo(g,h,i)perylene | ND | 10 | Hexachlorobenzene | ND | 10 |
| Benzo(k)fluoranthene | ND | 10 | Hexachlorobutadiene | ND | 10 |
| Bis(2-chloroethoxy)methane | ND | 10 | Hexachlorocyclopentadiene | ND | 10 |
| Bis(2-chloroethyl)ether | ND | 10 | Hexachloroethane | ND | 10 |
| Bis(2-chloroisopropyl)ether | ND | 10 | Indeno(1,2,3-cd)pyrene | ND | 10 |
| Bis(2-ethylhexyl)phthalate | ND | 10 | Isophorone | ND | 10 |
| 4-Bromophenylphenylether | ND | 10 | 2-Methylnaphthalene | ND | 10 |
| Butylbenzylphthalate | ND | 10 | 2-Methylphenol | ND | 10 |
| Carbazole | ND | 10 | 4-Methylphenol | ND | 10 |
| 4-Chloro-3-methyl phenol | ND | 10 | 2-Methyl-4,6-dinitrophenol | ND | 25 |
| 4-Chloroaniline | ND | 10 | N-Nitrosodi-N-propylamine | ND | 10 |
| 2-Chloronaphthalene | ND | 10 | N-Nitrosodiphenylamine | ND | 10 |
| 2-Chlorophenol | ND | 10 | Naphthalene | ND | 10 |
| 4-Chlorophenylphenylether | ND | 10 | 2-Nitroaniline | ND | 25 |
| Chrysene | ND | 10 | 3-Nitroaniline | ND | 25 |
| Di-n-butylphthalate | ND | 10 | 4-Nitroaniline | ND | 25 |
| Di-n-octylphthalate | ND | 10 | Nitrobenzene | ND | 10 |
| Dibenzo(a,h)anthracene | ND | 10 | 2-Nitrophenol | ND | 10 |
| Dibenzofuran | ND | 10 | 4-Nitrophenol | ND | 25 |
| 1,2-Dichlorobenzene | ND | 10 | Pentachlorophenol | ND | 25 |
| 1,3-Dichlorobenzene | ND | 10 | Phenanthrene | ND | 10 |
| 1,4-Dichlorobenzene | ND | 10 | Phenol | ND | 10 |
| 3,3'-Dichlorobenzidine | ND | 10 | Pyrene | ND | 10 |
| 2,4-Dichlorophenol | ND | 10 | 1,2,4-Trichlorobenzene | ND | 10 |
| Diethylphthalate | ND | 10 | 2,4,5-Trichlorophenol | ND | 25 |
| 2,4-Dimethylphenol | ND | 10 | 2,4,6-Trichlorophenol | ND | 10 |

SAMPLE ID: WT 111 A
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29265

# SEMI-VOLATILE ORGANIC COMPOUNDS



## SURROGATE RECOVERY (Method 8270)

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 2-Fluorophenol | 21 - 110 | 53 |
| Phenol,d5 | 10 - 110 | 33 |
| Nitrobenzene,d5 | 35 - 114 | 82 |
| 2-Fluorobiphenyl | 43 - 116 | 82 |
| 2,4,6-Tribromophenol | 10 - 123 | 127 |
| p-Terphenyl,d14 | 33 - 141 | 71 |

## DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limi' for samples not requiring dilutions. [If a sample requires a dilution, the shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.
- * = The Surrogate Compounds have been diluted out.



Recycled Paper

# ANALYTICAL REPORT

Client:
R Lennie Scott, P.E.
Bayer Corporation
1884 Miles Avenue
Elkhart, Indiana 46514
219-262-7234

Report Date: 10-18-95
EIS Lab No: 29266
EIS Project No: 1210-8135-95
EIS Priority: 4
Client P.O.#:
Certification: Indiana Drinking Water Certificate No. C-71-02

Invoice To:
Client

**SAMPLE IDENTIFICATION**
Sample ID: TB-5A
Deionized Water
Date Sampled: 9-22-95
Date Received: 9-22-95

Report To: CLIENT

Extra Report To:

| PARAMETER | RESULT | TEST DATE | ANALYST |
|---|---|---|---|
| VOC | * | 09-27-95 | Myers,N |

* See Attached ORGANICS REPORT

**ADDITIONAL INFORMATION**

1. Chain-of-Custody document is enclosed.
2. Sample was iced upon receipt.
3. Sample container(s) were properly preserved per USEPA protocols.
4. This sample is a Trip Blank for day 5 from Team A.

QUALITY ASSURANCE OFFICER

LABORATORY DIRECTOR



Recycled Paper

EIS ENVIRONMENTAL ENGINEERS, INC. • 1701 North Ironwood Drive • South Bend, Indiana 46635 • 219/277-5715

SAMPLE ID: TB-5A
Deionized Water

REPORT DATE: 10/18/95
EIS LAB NO: 29266

## VOLATILE ORGANIC COMPOUNDS/PETROLEUM HYDROCARBONS

| | | |
|---|---|---|
| Analysis Method: 8260<br>Reporting Units: ppb | Abbreviations and report symbols are explained on the following page | Sample Dilution: None<br>EQL Multiplier: 1 |

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acetone | ND | 10 | c-1,3-Dichloropropene | ND | 10 |
| Benzene | ND | 10 | t-1,3-Dichloropropene | ND | 10 |
| Bromodichloromethane | ND | 10 | Ethylbenzene | ND | 10 |
| Bromoform | ND | 10 | 2-Hexanone | ND | 10 |
| Bromomethane | ND | 10 | Methylene Chloride | ND | 10 |
| Carbon Disulfide | ND | 10 | Methyl Ethyl Ketone | ND | 10 |
| Carbon Tetrachloride | ND | 10 | Methyl Isobutyl Ketone | ND | 10 |
| Chlorobenzene | ND | 10 | Styrene | ND | 10 |
| Chlorodibromomethane | ND | 10 | 1,1,2,2-Tetrachloroethane | ND | 10 |
| Chloroethane | ND | 10 | Tetrachloroethene | ND | 10 |
| Chloroform | ND | 10 | Toluene | ND | 10 |
| Chloromethane | ND | 10 | 1,1,1-Trichloroethane | ND | 10 |
| 1,1-Dichloroethane | ND | 10 | 1,1,2-Trichloroethane | ND | 10 |
| 1,2-Dichloroethane | ND | 10 | Trichloroethene | ND | 10 |
| 1,1-Dichloroethene | ND | 10 | Vinyl Chloride | ND | 10 |
| 1,2-Dichloroethene (Total) | ND | 10 | Xylenes (Total) | ND | 10 |
| 1,2-Dichloropropane | ND | 10 | | | |

SURROGATE RECOVERY

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 1,2-Dichloroethane,d4 | 76 - 114 | 95 |
| Toluene,d8 | 88 - 110 | 102 |
| Bromofluorobenzene | 86 - 115 | 95 |

DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.



Recycled Paper

# ANALYTICAL REPORT

Client:
R Lennie Scott, P.E.
Bayer Corporation
1884 Miles Avenue
Elkhart, Indiana 46514
219-262-7234

Report Date: 10-18-95
EIS Lab No: 29287
EIS Project No: 1210-8135-95
EIS Priority: 4
Client P.O.#:
Certification: Indiana Drinking Water Certificate No. C-71-02

Invoice To:
Client

**SAMPLE IDENTIFICATION**
Sample ID: WT 115 A
Monitoring Well
Date Sampled: 9-25-95
Date Received: 9-25-95

Report To: CLIENT

Extra Report To:

| PARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST |
|---|---|---|---|---|---|
| anide,Total | mg/l | <0.01 | 0.01 | 09-29-95 | Shane,D |
| uminum,Total | mg/l | <0.2 | 0.2 | 10-11-95 | Clear,N |
| Antimony,Total | mg/l | <0.06 | 0.06 | 10-11-95 | Clear,N |
| Arsenic,Total | mg/l | <0.01 | 0.01 | 10-11-95 | Clear,N |
| Barium,Total | mg/l | <0.2 | 0.2 | 10-11-95 | Clear,N |
| Beryllium,Total | mg/l | <0.005 | 0.005 | 10-11-95 | Clear,N |
| Cadmium,Total | mg/l | <0.005 | 0.005 | 10-11-95 | Clear,N |
| Calcium,Total | mg/l | 210 | 5 | 10-16-95 | Clear,N |
| Chromium,Total | mg/l | <0.01 | 0.01 | 10-11-95 | Clear,N |
| Cobalt,Total | mg/l | <0.05 | 0.05 | 10-11-95 | Clear,N |
| Copper,Total | mg/l | <0.025 | 0.025 | 10-11-95 | Clear,N |
| Iron,Total | mg/l | 1.05 | 0.1 | 10-11-95 | Clear,N |
| Lead,Total | mg/l | <0.003 | 0.003 | 10-11-95 | Clear,N |
| Magnesium,Total | mg/l | 26.4 | 5 | 10-13-95 | Clear,N |
| Manganese,Total | mg/l | 0.306 | 0.015 | 10-11-95 | Clear,N |
| Mercury,Total | mg/l | <0.0002 | 0.0002 | 09-27-95 | Shane,D |
| Nickel,Total | mg/l | <0.04 | 0.04 | 10-11-95 | Clear,N |
| Potassium,Total | mg/l | 6.3 | 5.0 | 10-16-95 | Shane,D |

QUALITY ASSURANCE OFFICER

LABORATORY DIRECTOR



Recycled Paper

EIS ENVIRONMENTAL ENGINEERS, INC. • 1701 North Ironwood Drive • South Bend, Indiana 46635 • 219/277-5715

EIS Lab No: 29287(continued)

| PARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST |
|---|---|---|---|---|---|
| Selenium,Total | mg/l | <0.005 | 0.005 | 10-11-95 | Clear,N |
| Silver,Total | mg/l | <0.01 | 0.01 | 10-11-95 | Clear,N |
| Sodium,Total | mg/l | 41.2 | 5 | 10-13-95 | Clear,N |
| Thallium,Total | mg/l | <0.01 | 0.01 | 10-11-95 | Clear,N |
| Vanadium,Total | mg/l | <0.05 | 0.05 | 10-11-95 | Clear,N |
| Zinc,Total | mg/l | <0.02 | 0.02 | 10-11-95 | Clear,N |
| Pesticide/PCB | | * | | 10-10-95 | Clear,B |
| SVOC (BNA) | | * | | 10-05-95 | Geels,S |
| VOC | | * | | 09-27-95 | Myers,N |
| * See Attached ORGANICS REPORT | | | | | |
| Extract Pest/PCB | | | | 09-28-95 | Thompson,G |
| Extract SVOC (BNA) | | | | 09-27-95 | Thompson,G |
| Mercury Digestion | | | | 09-26-95 | Shane,D |
| Metals Digestion (ICP) | | | | 10-09-95 | Shane,D |

ADDITIONAL INFORMATION

1. Chain-of-Custody document is enclosed.
2. Reference Analytical Methods are enclosed.
3. Sample was iced upon receipt.
4. Sample container(s) were properly preserved per USEPA protocols.
5. < = Not Detected at the Detection Limit (DL) shown.
6. DL = Detection Limit and is adjusted for dilutions/concentrations.
7. Batch [organic] Quality Control data is enclosed. This data was generated at the time that this sample was analyzed but was performed on a different sample.



Recycled Paper

SAMPLE ID: WT 115 A
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29287

## VOLATILE ORGANIC COMPOUNDS/PETROLEUM HYDROCARBONS

Analysis Method: 8260
Reporting Units: ppb

Abbreviations and report symbols are explained on the following page

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acetone | ND | 10 | c-1,3-Dichloropropene | ND | 10 |
| Benzene | ND | 10 | t-1,3-Dichloropropene | ND | 10 |
| Bromodichloromethane | ND | 10 | Ethylbenzene | ND | 10 |
| Bromoform | ND | 10 | 2-Hexanone | ND | 10 |
| Bromomethane | ND | 10 | Methylene Chloride | ND | 10 |
| Carbon Disulfide | ND | 10 | Methyl Ethyl Ketone | ND | 10 |
| Carbon Tetrachloride | ND | 10 | Methyl Isobutyl Ketone | ND | 10 |
| Chlorobenzene | ND | 10 | Styrene | ND | 10 |
| Chlorodibromomethane | ND | 10 | 1,1,2,2-Tetrachloroethane | ND | 10 |
| Chloroethane | ND | 10 | Tetrachloroethene | ND | 10 |
| Chloroform | ND | 10 | Toluene | ND | 10 |
| Chloromethane | ND | 10 | 1,1,1-Trichloroethane | ND | 10 |
| 1,1-Dichloroethane | ND | 10 | 1,1,2-Trichloroethane | ND | 10 |
| 1,2-Dichloroethane | ND | 10 | Trichloroethene | ND | 10 |
| 1-Dichloroethene | ND | 10 | Vinyl Chloride | ND | 10 |
| ,2-Dichloroethene (Total) | ND | 10 | Xylenes (Total) | ND | 10 |
| 1,2-Dichloropropane | ND | 10 | | | |

SURROGATE RECOVERY

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 1,2-Dichloroethane,d4 | 76 - 114 | 92 |
| Toluene,d8 | 88 - 110 | 101 |
| Bromofluorobenzene | 86 - 115 | 97 |

DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

SAMPLE ID: WT 115 A
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29287

## CHLORINATED PESTICIDE COMPOUNDS

Analysis Method: 8081
Reporting Units: ppb

Abbreviations and report symbols are explained in DEFINITIONS below

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Aldrin | ND | 0.05 | Endrin | ND | 0.1 |
| BHC-Alpha | ND | 0.05 | Endrin Aldehyde | ND | 0.1 |
| BHC-Beta | ND | 0.05 | Endrin Ketone | ND | 0.1 |
| BHC-Delta | ND | 0.05 | Heptachlor | ND | 0.05 |
| BHC-Gamma (Lindane) | ND | 0.05 | Heptachlor Epoxide | ND | 0.05 |
| Chlordane-alpha | ND | 0.05 | Methoxychlor | ND | 0.5 |
| Chlordane-gamma | ND | 0.05 | Toxaphene | ND | 5.0 |
| 4,4'-DDD | ND | 0.1 | Aroclor - 1016 | ND | 1.0 |
| 4,4'-DDE | ND | 0.1 | Aroclor - 1221 | ND | 2.0 |
| 4,4'-DDT | ND | 0.1 | Aroclor - 1232 | ND | 1.0 |
| Dieldrin | ND | 0.1 | Aroclor - 1242 | ND | 1.0 |
| Endosulfan I | ND | 0.05 | Aroclor - 1248 | ND | 1.0 |
| Endosulfan II | ND | 0.1 | Aroclor - 1254 | ND | 1.0 |
| Endosulfan Sulfate | ND | 0.1 | Aroclor - 1260 | ND | 1 ^ |

### SURROGATE RECOVERY

| Compound Name | Advisory QC Limits | % Recovery |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 30 - 150 | 90 |
| Decachlorobiphenyl | 30 - 150 | 104 |

### DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

SAMPLE ID: WT 115 A
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29287

## SEMI-VOLATILE ORGANIC COMPOUNDS

| | | |
|---|---|---|
| Analysis Method: 8270<br>Reporting Units: ppb | Abbreviations and report symbols are explained on the following page | Sample Dilution: None<br>EQL Multiplier: 1 |

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acenaphthene | ND | 10 | Dimethylphthalate | ND | 10 |
| Acenaphthylene | ND | 10 | 2,4-Dinitrophenol | ND | 25 |
| Anthracene | ND | 10 | 2,6-Dinitrotoluene | ND | 10 |
| Benzo(a)anthracene | ND | 10 | 2,4-Dinitrotoluene | ND | 10 |
| Benzo(a)pyrene | ND | 10 | Fluoranthene | ND | 10 |
| Benzo(b)fluoranthene | ND | 10 | Fluorene | ND | 10 |
| Benzo(g,h,i)perylene | ND | 10 | Hexachlorobenzene | ND | 10 |
| Benzo(k)fluoranthene | ND | 10 | Hexachlorobutadiene | ND | 10 |
| Bis(2-chloroethoxy)methane | ND | 10 | Hexachlorocyclopentadiene | ND | 10 |
| Bis(2-chloroethyl)ether | ND | 10 | Hexachloroethane | ND | 10 |
| Bis(2-chloroisopropyl)ether | ND | 10 | Indeno(1,2,3-cd)pyrene | ND | 10 |
| Bis(2-ethylhexyl)phthalate | ND | 10 | Isophorone | ND | 10 |
| 4-Bromophenylphenylether | ND | 10 | 2-Methylnaphthalene | ND | 10 |
| Butylbenzylphthalate | ND | 10 | 2-Methylphenol | ND | 10 |
| Carbazole | ND | 10 | 4-Methylphenol | ND | 10 |
| 4-Chloro-3-methyl phenol | ND | 10 | 2-Methyl-4,6-dinitrophenol | ND | 25 |
| 4-Chloroaniline | ND | 10 | N-Nitrosodi-N-propylamine | ND | 10 |
| 2-Chloronaphthalene | ND | 10 | N-Nitrosodiphenylamine | ND | 10 |
| 2-Chlorophenol | ND | 10 | Naphthalene | ND | 10 |
| 4-Chlorophenylphenylether | ND | 10 | 2-Nitroaniline | ND | 25 |
| Chrysene | ND | 10 | 3-Nitroaniline | ND | 25 |
| Di-n-butylphthalate | ND | 10 | 4-Nitroaniline | ND | 25 |
| Di-n-octylphthalate | ND | 10 | Nitrobenzene | ND | 10 |
| Dibenzo(a,h)anthracene | ND | 10 | 2-Nitrophenol | ND | 10 |
| Dibenzofuran | ND | 10 | 4-Nitrophenol | ND | 25 |
| 1,2-Dichlorobenzene | ND | 10 | Pentachlorophenol | ND | 25 |
| 1,3-Dichlorobenzene | ND | 10 | Phenanthrene | ND | 10 |
| 1,4-Dichlorobenzene | ND | 10 | Phenol | ND | 10 |
| 3,3'-Dichlorobenzidine | ND | 10 | Pyrene | ND | 10 |
| 2,4-Dichlorophenol | ND | 10 | 1,2,4-Trichlorobenzene | ND | 10 |
| Diethylphthalate | ND | 10 | 2,4,5-Trichlorophenol | ND | 25 |
| 2,4-Dimethylphenol | ND | 10 | 2,4,6-Trichlorophenol | ND | 10 |


Recycled Paper

SAMPLE ID: WT 115 A
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29287

## SEMI-VOLATILE ORGANIC COMPOUNDS



SURROGATE RECOVERY (Method 8270)

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 2-Fluorophenol | 21 - 110 | 51 |
| Phenol,d5 | 10 - 110 | 33 |
| Nitrobenzene,d5 | 35 - 114 | 79 |
| 2-Fluorobiphenyl | 43 - 116 | 82 |
| 2,4,6-Tribromophenol | 10 - 123 | 123 |
| p-Terphenyl,d14 | 33 - 141 | 63 |

DEFINITIONS

- Ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.
- * = The Surrogate Compounds have been diluted out.



Recycled Paper

# ANALYTICAL REPORT

Client:
R Lennie Scott, P.E.
Bayer Corporation
1884 Miles Avenue
Elkhart, Indiana 46514
219-262-7234

Report Date: 10-18-95
EIS Lab No: 29288
EIS Project No: 1210-8135-95
EIS Priority: 4
Client P.O.#:
Certification: Indiana Drinking Water Certificate No. C-71-02

Invoice To:
Client

SAMPLE IDENTIFICATION
Sample ID: WT 118 B
Monitoring Well
Date Sampled: 9-25-95
Date Received: 9-25-95

Report To: CLIENT

Extra Report To:

| PARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST |
|---|---|---|---|---|---|
| Cyanide,Total | mg/l | <0.01 | 0.01 | 09-29-95 | Shane,D |
| Aluminum,Total | mg/l | <0.2 | 0.2 | 10-11-95 | Clear,N |
| Antimony,Total | mg/l | <0.06 | 0.06 | 10-11-95 | Clear,N |
| Arsenic,Total | mg/l | <0.01 | 0.01 | 10-11-95 | Clear,N |
| Barium,Total | mg/l | 0.304 | 0.2 | 10-11-95 | Clear,N |
| Beryllium,Total | mg/l | <0.005 | 0.005 | 10-11-95 | Clear,N |
| Cadmium,Total | mg/l | <0.005 | 0.005 | 10-11-95 | Clear,N |
| Calcium,Total | mg/l | 360 | 5 | 10-16-95 | Clear,N |
| Chromium,Total | mg/l | <0.01 | 0.01 | 10-11-95 | Clear,N |
| Cobalt,Total | mg/l | <0.05 | 0.05 | 10-11-95 | Clear,N |
| Copper,Total | mg/l | <0.025 | 0.025 | 10-11-95 | Clear,N |
| Iron,Total | mg/l | 9.20 | 0.1 | 10-13-95 | Clear,N |
| Lead,Total | mg/l | 0.004 | 0.003 | 10-11-95 | Clear,N |
| Magnesium,Total | mg/l | 30.6 | 5 | 10-13-95 | Clear,N |
| Manganese,Total | mg/l | 0.057 | 0.015 | 10-11-95 | Clear,N |
| Mercury,Total | mg/l | <0.0002 | 0.0002 | 09-27-95 | Shane,D |
| Nickel,Total | mg/l | <0.04 | 0.04 | 10-11-95 | Clear,N |
| Potassium,Total | mg/l | 18 | 5.0 | 10-16-95 | Shane,D |

QUALITY ASSURANCE OFFICER

LABORATORY DIRECTOR



Recycled Paper

EIS Lab No: 29288(continued)

| PARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST |
|---|---|---|---|---|---|
| Selenium,Total | mg/l | <0.005 | 0.005 | 10-11-95 | Clear,N |
| Silver,Total | mg/l | <0.01 | 0.01 | 10-11-95 | Clear,N |
| Sodium,Total | mg/l | 81.8 | 5 | 10-16-95 | Clear,N |
| Thallium,Total | mg/l | <0.01 | 0.01 | 10-11-95 | Clear,N |
| Vanadium,Total | mg/l | <0.05 | 0.05 | 10-11-95 | Clear,N |
| Zinc,Total | mg/l | <0.02 | 0.02 | 10-11-95 | Clear,N |
| Pesticide/PCB | | * | | 10-10-95 | Clear,B |
| SVOC (BNA) | | * | | 10-05-95 | Geels,S |
| VOC | | * | | 09-27-95 | Myers,N |

* See Attached ORGANICS REPORT

| | | |
|---|---|---|
| Extract Pest/PCB | 09-28-95 | Thompson,G |
| Extract SVOC (BNA) | 09-27-95 | Thompson,G |
| Mercury Digestion | 09-26-95 | Shane,D |
| Metals Digestion (ICP) | 10-09-95 | Shane,D |

ADDITIONAL INFORMATION

1. Chain-of-Custody document is enclosed.
2. Reference Analytical Methods are enclosed.
3. Sample was iced upon receipt.
4. Sample container(s) were properly preserved per USEPA protocols.
5. < = Not Detected at the Detection Limit (DL) shown.
6. DL = Detection Limit and is adjusted for dilutions/concentrations.
7. Batch [organic] Quality Control data is enclosed. This data was generated at the time that this sample was analyzed but was performed on a different sample.



Recycled Paper

SAMPLE ID: WT 118 B
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29288

## VOLATILE ORGANIC COMPOUNDS/PETROLEUM HYDROCARBONS

| | | |
|---|---|---|
| Analysis Method: 8260<br>Reporting Units: ppb | Abbreviations and report symbols are explained on the following page | Sample Dilution: None<br>EQL Multiplier: 1 |

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acetone | ND | 10 | c-1,3-Dichloropropene | ND | 10 |
| Benzene | ND | 10 | t-1,3-Dichloropropene | ND | 10 |
| Bromodichloromethane | ND | 10 | Ethylbenzene | ND | 10 |
| Bromoform | ND | 10 | 2-Hexanone | ND | 10 |
| Bromomethane | ND | 10 | Methylene Chloride | ND | 10 |
| Carbon Disulfide | ND | 10 | Methyl Ethyl Ketone | ND | 10 |
| Carbon Tetrachloride | ND | 10 | Methyl Isobutyl Ketone | ND | 10 |
| Chlorobenzene | ND | 10 | Styrene | ND | 10 |
| Chlorodibromomethane | ND | 10 | 1,1,2,2-Tetrachloroethane | ND | 10 |
| Chloroethane | ND | 10 | Tetrachloroethene | ND | 10 |
| Chloroform | ND | 10 | Toluene | ND | 10 |
| Chloromethane | ND | 10 | 1,1,1-Trichloroethane | ND | 10 |
| 1,1-Dichloroethane | ND | 10 | 1,1,2-Trichloroethane | ND | 10 |
| 1,2-Dichloroethane | ND | 10 | Trichloroethene | ND | 10 |
| 1,1-Dichloroethene | ND | 10 | Vinyl Chloride | ND | 10 |
| 1,2-Dichloroethene (Total) | ND | 10 | Xylenes (Total) | ND | 10 |
| 1,2-Dichloropropane | ND | 10 | | | |

SURROGATE RECOVERY

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 1,2-Dichloroethane,d4 | 76 - 114 | 102 |
| Toluene,d8 | 88 - 110 | 104 |
| Bromofluorobenzene | 86 - 115 | 100 |

DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

SAMPLE ID: MT 118 B
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29288

## CHLORINATED PESTICIDE COMPOUNDS

| | | |
|---|---|---|
| Analysis Method: 8081<br>Reporting Units: ppb | Abbreviations and report symbols are explained in DEFINITIONS below | Sample Dilution: None<br>EQL Multiplier: 1 |

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Aldrin | ND | 0.05 | Endrin | ND | 0.1 |
| BHC-Alpha | ND | 0.05 | Endrin Aldehyde | ND | 0.1 |
| BHC-Beta | ND | 0.05 | Endrin Ketone | ND | 0.1 |
| BHC-Delta | ND | 0.05 | Heptachlor | ND | 0.05 |
| BHC-Gamma(Lindane) | ND | 0.05 | Heptachlor Epoxide | ND | 0.05 |
| Chlordane-alpha | ND | 0.05 | Methoxychlor | ND | 0.5 |
| Chlordane-gamma | ND | 0.05 | Toxaphene | ND | 5.0 |
| 4,4'-DDD | ND | 0.1 | Aroclor - 1016 | ND | 1.0 |
| 4,4'-DDE | ND | 0.1 | Aroclor - 1221 | ND | 2.0 |
| 4,4'-DDT | ND | 0.1 | Aroclor - 1232 | ND | 1.0 |
| Dieldrin | ND | 0.1 | Aroclor - 1242 | ND | 1.0 |
| Endosulfan I | ND | 0.05 | Aroclor - 1248 | ND | 1.0 |
| Endosulfan II | ND | 0.1 | Aroclor - 1254 | ND | 1.0 |
| Endosulfan Sulfate | ND | 0.1 | Aroclor - 1260 | ND | 1 |

### SURROGATE RECOVERY

| Compound Name | Advisory QC Limits | % Recovery |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 30 - 150 | 95 |
| Decachlorobiphenyl | 30 - 150 | 96 |

### DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.



Recycled Paper

SAMPLE ID: WT 118 B
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29288

## SEMI-VOLATILE ORGANIC COMPOUNDS

Analysis Method: 8270
Reporting Units: ppb

Abbreviations and report symbols are explained on the following page

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acenaphthene | ND | 10 | Dimethylphthalate | ND | 10 |
| Acenaphthylene | ND | 10 | 2,4-Dinitrophenol | ND | 25 |
| Anthracene | ND | 10 | 2,6-Dinitrotoluene | ND | 10 |
| Benzo(a)anthracene | ND | 10 | 2,4-Dinitrotoluene | ND | 10 |
| Benzo(a)pyrene | ND | 10 | Fluoranthene | ND | 10 |
| Benzo(b)fluoranthene | ND | 10 | Fluorene | ND | 10 |
| Benzo(g,h,i)perylene | ND | 10 | Hexachlorobenzene | ND | 10 |
| Benzo(k)fluoranthene | ND | 10 | Hexachlorobutadiene | ND | 10 |
| Bis(2-chloroethoxy)methane | ND | 10 | Hexachlorocyclopentadiene | ND | 10 |
| Bis(2-chloroethyl)ether | ND | 10 | Hexachloroethane | ND | 10 |
| Bis(2-chloroisopropyl)ether | ND | 10 | Indeno(1,2,3-cd)pyrene | ND | 10 |
| Bis(2-ethylhexyl)phthalate | ND | 10 | Isophorone | ND | 10 |
| 4-Bromophenylphenylether | ND | 10 | 2-Methylnaphthalene | ND | 10 |
| Butylbenzylphthalate | ND | 10 | 2-Methylphenol | ND | 10 |
| Carbazole | ND | 10 | 4-Methylphenol | ND | 10 |
| 4-Chloro-3-methyl phenol | ND | 10 | 2-Methyl-4,6-dinitrophenol | ND | 25 |
| 4-Chloroaniline | ND | 10 | N-Nitrosodi-N-propylamine | ND | 10 |
| 2-Chloronaphthalene | ND | 10 | N-Nitrosodiphenylamine | ND | 10 |
| 2-Chlorophenol | ND | 10 | Naphthalene | ND | 10 |
| 4-Chlorophenylphenylether | ND | 10 | 2-Nitroaniline | ND | 25 |
| Chrysene | ND | 10 | 3-Nitroaniline | ND | 25 |
| Di-n-butylphthalate | ND | 10 | 4-Nitroaniline | ND | 25 |
| Di-n-octylphthalate | ND | 10 | Nitrobenzene | ND | 10 |
| Dibenzo(a,h)anthracene | ND | 10 | 2-Nitrophenol | ND | 10 |
| Dibenzofuran | ND | 10 | 4-Nitrophenol | ND | 25 |
| 1,2-Dichlorobenzene | ND | 10 | Pentachlorophenol | ND | 25 |
| 1,3-Dichlorobenzene | ND | 10 | Phenanthrene | ND | 10 |
| 1,4-Dichlorobenzene | ND | 10 | Phenol | ND | 10 |
| 3,3'-Dichlorobenzidine | ND | 10 | Pyrene | ND | 10 |
| 2,4-Dichlorophenol | ND | 10 | 1,2,4-Trichlorobenzene | ND | 10 |
| Diethylphthalate | ND | 10 | 2,4,5-Trichlorophenol | ND | 25 |
| 2,4-Dimethylphenol | ND | 10 | 2,4,6-Trichlorophenol | ND | 10 |


Recycled Paper

SAMPLE ID: WT 118 B
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29288

# SEMI-VOLATILE ORGANIC COMPOUNDS



## SURROGATE RECOVERY (Method 8270)

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 2-Fluorophenol | 21 - 110 | 55 |
| Phenol,d5 | 10 - 110 | 36 |
| Nitrobenzene,d5 | 35 - 114 | 81 |
| 2-Fluorobiphenyl | 43 - 116 | 86 |
| 2,4,6-Tribromophenol | 10 - 123 | 162 |
| p-Terphenyl,d14 | 33 - 141 | 81 |

## DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.
- * = The Surrogate Compounds have been diluted out.



Recycled Paper

# ANALYTICAL REPORT

Client:
R Lennie Scott, P.E.
Bayer Corporation
1884 Miles Avenue
Elkhart, Indiana 46514
219-262-7234

Report Date: 10-18-95
EIS Lab No: 29289
EIS Project No: 1210-8135-95
EIS Priority: 4
Client P.O.#:
Certification: Indiana Drinking Water Certificate No. C-71-02

Invoice To:
Client

**SAMPLE IDENTIFICATION**
Sample ID: TB-6A
Deionized Water
Date Sampled: 9-22-95
Date Received: 9-25-95

Report To: CLIENT

Extra Report To:

| PARAMETER | RESULT | TEST DATE | ANALYST |
|---|---|---|---|
| VOC | * | 09-27-95 | Myers,N |

* See Attached ORGANICS REPORT

**ADDITIONAL INFORMATION**

1. Chain-of-Custody document is enclosed.
2. Sample was iced upon receipt.
3. Sample container(s) were properly preserved per USEPA protocols.
4. This sample is a Trip Blank for day 6 from Team A.

QUALITY ASSURANCE OFFICER

LABORATORY DIRECTOR



Recycled Paper

Indiana 46635 • 219/277-5715

SAMPLE ID: TB-6A
Deionized Water

REPORT DATE: 10/18/95
EIS LAB NO: 29289

# VOLATILE ORGANIC COMPOUNDS/PETROLEUM HYDROCARBONS

| | | |
|---|---|---|
| Analysis Method: 8260<br>Reporting Units: ppb | Abbreviations and report symbols are explained on the following page | Sample Dilution: None<br>EQL Multiplier: 1 |

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acetone | ND | 10 | c-1,3-Dichloropropene | ND | 10 |
| Benzene | ND | 10 | t-1,3-Dichloropropene | ND | 10 |
| Bromodichloromethane | ND | 10 | Ethylbenzene | ND | 10 |
| Bromoform | ND | 10 | 2-Hexanone | ND | 10 |
| Bromomethane | ND | 10 | Methylene Chloride | ND | 10 |
| Carbon Disulfide | ND | 10 | Methyl Ethyl Ketone | ND | 10 |
| Carbon Tetrachloride | ND | 10 | Methyl Isobutyl Ketone | ND | 10 |
| Chlorobenzene | ND | 10 | Styrene | ND | 10 |
| Chlorodibromomethane | ND | 10 | 1,1,2,2-Tetrachloroethane | ND | 10 |
| Chloroethane | ND | 10 | Tetrachloroethene | ND | 10 |
| Chloroform | ND | 10 | Toluene | ND | 10 |
| Chloromethane | ND | 10 | 1,1,1-Trichloroethane | ND | 10 |
| 1,1-Dichloroethane | ND | 10 | 1,1,2-Trichloroethane | ND | 10 |
| 1,2-Dichloroethane | ND | 10 | Trichloroethene | ND | 10 |
| 1,1-Dichloroethene | ND | 10 | Vinyl Chloride | ND | 10 |
| 1,2-Dichloroethene (Total) | ND | 10 | Xylenes (Total) | ND | 10 |
| 1,2-Dichloropropane | ND | 10 | | | |

## SURROGATE RECOVERY

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 1,2-Dichloroethane,d4 | 76 - 114 | 103 |
| Toluene,d8 | 88 - 110 | 103 |
| Bromofluorobenzene | 86 - 115 | 96 |

## DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.



Recycled Paper

# ANALYTICAL REPORT

Client:
R Lennie Scott, P.E.
Bayer Corporation
1884 Miles Avenue
Elkhart, Indiana 46514
219-262-7234

Report Date: 10-18-95
EIS Lab No: 29290
EIS Project No: 1210-8135-95
EIS Priority: 4
Client P.O.#:
Certification: Indiana Drinking Water Certificate No. C-71-02

Invoice To:
Client

**SAMPLE IDENTIFICATION**
Sample ID: WT 101 A + MS/DMS
Monitoring Well
Date Sampled: 9-25-95
Date Received: 9-25-95

Report To: CLIENT

Extra Report To:

| PARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST | QUALITY CONTROL RSD % | SPIKE LEVEL | MS %R | DMS %R | RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| yanide,Total | mg/l | <0.01 | 0.01 | 09-29-95 | Shane,D | 0 | 0.04 | 96 | 96 | 0 |
| Aluminum,Total | mg/l | <0.2 | 0.2 | 10-10-95 | Clear,N | 0 | 2.0 | 90 | 92 | -2.2 |
| Antimony,Total | mg/l | <0.06 | 0.06 | 10-10-95 | Clear,N | 0 | 0.5 | 104 | 104 | 0 |
| Arsenic,Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N | 0 | 2.0 | 94 | 96 | -2.1 |
| Barium,Total | mg/l | <0.2 | 0.2 | 10-10-95 | Clear,N | 0 | 2.0 | 85 | 86 | -1.2 |
| Beryllium,Total | mg/l | <0.005 | 0.005 | 10-17-95 | Clear,N | 0 | 0.05 | 60[10] | 60[10] | 0 |
| Cadmium,Total | mg/l | <0.005 | 0.005 | 10-10-95 | Clear,N | 0 | 0.05 | 100 | 100 | 0 |
| Calcium,Total | mg/l | 260 | 5 | 10-16-95 | Clear,N | 0 | 10 | 97 | 96 | 1.0 |
| Chromium,Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N | 0 | 0.5 | 70 | 75 | -6.4 |
| Cobalt,Total | mg/l | <0.05 | 0.05 | 10-10-95 | Clear,N | 0 | 0.5 | 70 | 74 | -5.6 |
| Copper,Total | mg/l | <0.025 | 0.025 | 10-10-95 | Clear,N | 0 | 0.25 | 88 | 88 | 0 |
| Iron,Total | mg/l | 12.3 | 0.1 | 10-13-95 | Clear,N | 0 | 10 | 96 | 97 | -1.0 |
| Lead,Total | mg/l | 0.006 | 0.003 | 10-10-95 | Clear,N | 12 | 0.5 | 80 | 80 | 0 |
| Magnesium,Total | mg/l | 24.0 | 5 | 10-13-95 | Clear,N | 0.3 | 10 | 95 | 97 | -2.1 |
| Manganese,Total | mg/l | 0.818 | 0.015 | 10-10-95 | Clear,N | 0.2 | 0.5 | 68 | 76 | -22 |
| Mercury,Total | mg/l | <0.0002 | 0.0002 | 09-27-95 | Shane,D | 0 | 0.0005 | 95 | 96 | -1.0 |
| Nickel,Total | mg/l | <0.04 | 0.04 | 10-10-95 | Clear,N | 0 | 0.5 | 74 | 78 | -5.3 |
| Potassium,Total | mg/l | 8.2 | 5.0 | 10-16-95 | Shane,D | 0 | 0.4 | 100 | 99 | 1.0 |

QUALITY ASSURANCE OFFICER

LABORATORY DIRECTOR

EIS Lab No: 29290(continued)

| PARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST | QUALITY CONTROL RSD % | SPIKE LEVEL | MS %R | DMS %R | RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Selenium,Total | mg/l | 0.016 | 0.005 | 10-10-95 | Clear,N | 22 | 2.0 | 84 | 86 | -2.4 |
| Silver,Total | mg/l | <0.01 | 0.01 | 10-10-95 | Clear,N | 0 | 0.05 | 80 | 80 | 0 |
| Sodium,Total | mg/l | 41.6 | 5 | 10-13-95 | Clear,N | 2.2 | 10 | 96 | 98 | -2.1 |
| Thallium,Total | mg/l | <0.01 | 0.01 | 10-17-95 | Clear,N | 0 | 2.0 | 62[10] | 67[10] | -7.8 |
| Vanadium,Total | mg/l | <0.05 | 0.05 | 10-10-95 | Clear,N | 0 | 0.5 | 78 | 80 | -2.5 |
| Zinc,Total | mg/l | <0.02 | 0.02 | 10-10-95 | Clear,N | 0 | 0.5 | 68 | 74 | -8.4 |
| Pesticide/PCB | | * | | 10-10-95 | Clear,B | | | | | |
| SVOC (BNA) | | * | | 10-05-95 | Geels,S | | | | | |
| VOC | | * | | 09-27-95 | Myers,N | | | | | |

* See Attached ORGANICS REPORT

| | | |
|---|---|---|
| Extract Pest/PCB | 09-28-95 | Thompson,G |
| Extract SVOC (BNA) | 09-27-95 | Thompson,G |
| Mercury Digestion | 09-26-95 | Shane,D |
| Metals Digestion (ICP) | 10-09-95 | Shane,D |

**ADDITIONAL INFORMATION**

1. Chain-of-Custody document is enclosed.
2. Reference Analytical Methods are enclosed.
3. Sample was iced upon receipt.
4. Sample container(s) were properly preserved per USEPA protocols.
5. < = Not Detected at the Detection Limit (DL) shown.
6. DL = Detection Limit and is adjusted for dilutions/concentrations.
7. Quality Control definitions are as follows:
   %RSD = Precision of replicate analysis for this sample.
   Spike Level = Parameter Spike amount in units of the result.
   %R = Matrix Spike(MS)/Duplicate Matrix Spike(DMS) recovery.
   %RPD = Precision of Matrix Spike recovery values.
8. Inorganic Quality Control limits are enclosed.
9. This sample was submitted for Quality Control analysis.
   Results of the Organic Matrix Spikes/Duplicate Spikes are enclosed.
10. A post digestion Spike was also performed for Beryllium and Thallium yielding recoveries (%R) of 66 & 70% for Beryllium and 74 & 78% for Thallium.



Recycled Paper

SAMPLE ID: WT 101 A + MS/DMS
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29290

# VOLATILE ORGANIC COMPOUNDS/PETROLEUM HYDROCARBONS

Analysis Method: 8260
Reporting Units: ppb

Abbreviations and report symbols are explained on the following page

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acetone | ND | 10 | c-1,3-Dichloropropene | ND | 10 |
| Benzene | ND | 10 | t-1,3-Dichloropropene | ND | 10 |
| Bromodichloromethane | ND | 10 | Ethylbenzene | ND | 10 |
| Bromoform | ND | 10 | 2-Hexanone | ND | 10 |
| Bromomethane | ND | 10 | Methylene Chloride | ND | 10 |
| Carbon Disulfide | ND | 10 | Methyl Ethyl Ketone | ND | 10 |
| Carbon Tetrachloride | ND | 10 | Methyl Isobutyl Ketone | ND | 10 |
| Chlorobenzene | ND | 10 | Styrene | ND | 10 |
| Chlorodibromomethane | ND | 10 | 1,1,2,2-Tetrachloroethane | ND | 10 |
| Chloroethane | ND | 10 | Tetrachloroethene | ND | 10 |
| Chloroform | ND | 10 | Toluene | ND | 10 |
| Chloromethane | ND | 10 | 1,1,1-Trichloroethane | ND | 10 |
| 1,1-Dichloroethane | ND | 10 | 1,1,2-Trichloroethane | ND | 10 |
| ',2-Dichloroethane | ND | 10 | Trichloroethene | ND | 10 |
| 1-Dichloroethene | ND | 10 | Vinyl Chloride | ND | 10 |
| ,2-Dichloroethene (Total) | ND | 10 | Xylenes (Total) | ND | 10 |
| 1,2-Dichloropropane | ND | 10 | | | |

## SURROGATE RECOVERY

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 1,2-Dichloroethane,d4 | 76 - 114 | 101 |
| Toluene,d8 | 88 - 110 | 102 |
| Bromofluorobenzene | 86 - 115 | 99 |

## DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

SAMPLE ID: WT 101 A + MS/DMS
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29290

## CHLORINATED PESTICIDE COMPOUNDS

Analysis Method: 8081
Reporting Units: ppb

Abbreviations and report symbols are explained in DEFINITIONS below

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Aldrin | ND | 0.05 | Endrin | ND | 0.1 |
| BHC-Alpha | ND | 0.05 | Endrin Aldehyde | ND | 0.1 |
| BHC-Beta | ND | 0.05 | Endrin Ketone | ND | 0.1 |
| BHC-Delta | ND | 0.05 | Heptachlor | ND | 0.05 |
| BHC-Gamma(Lindane) | ND | 0.05 | Heptachlor Epoxide | ND | 0.05 |
| Chlordane-alpha | ND | 0.05 | Methoxychlor | ND | 0.5 |
| Chlordane-gamma | ND | 0.05 | Toxaphene | ND | 5.0 |
| 4,4'-DDD | ND | 0.1 | Aroclor - 1016 | ND | 1.0 |
| 4,4'-DDE | ND | 0.1 | Aroclor - 1221 | ND | 2.0 |
| 4,4'-DDT | ND | 0.1 | Aroclor - 1232 | ND | 1.0 |
| Dieldrin | ND | 0.1 | Aroclor - 1242 | ND | 1.0 |
| Endosulfan I | ND | 0.05 | Aroclor - 1248 | ND | 1.0 |
| Endosulfan II | ND | 0.1 | Aroclor - 1254 | ND | 1.0 |
| Endosulfan Sulfate | ND | 0.1 | Aroclor - 1260 | ND | 1.0 |

SURROGATE RECOVERY

| Compound Name | Advisory QC Limits | % Recovery |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 30 - 150 | 85 |
| Decachlorobiphenyl | 30 - 150 | 81 |

DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

SAMPLE ID: WT 101 A + MS/DMS
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29290

## SEMI-VOLATILE ORGANIC COMPOUNDS

| | | |
|---|---|---|
| Analysis Method: 8270<br>Reporting Units: ppb | Abbreviations and report symbols are explained on the following page | Sample Dilution: None<br>EQL Multiplier: 1 |

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acenaphthene | ND | 10 | Dimethylphthalate | ND | 10 |
| Acenaphthylene | ND | 10 | 2,4-Dinitrophenol | ND | 25 |
| Anthracene | ND | 10 | 2,6-Dinitrotoluene | ND | 10 |
| Benzo(a)anthracene | ND | 10 | 2,4-Dinitrotoluene | ND | 10 |
| Benzo(a)pyrene | ND | 10 | Fluoranthene | ND | 10 |
| Benzo(b)fluoranthene | ND | 10 | Fluorene | ND | 10 |
| Benzo(g,h,i)perylene | ND | 10 | Hexachlorobenzene | ND | 10 |
| Benzo(k)fluoranthene | ND | 10 | Hexachlorobutadiene | ND | 10 |
| Bis(2-chloroethoxy)methane | ND | 10 | Hexachlorocyclopentadiene | ND | 10 |
| Bis(2-chloroethyl)ether | ND | 10 | Hexachloroethane | ND | 10 |
| Bis(2-chloroisopropyl)ether | ND | 10 | Indeno(1,2,3-cd)pyrene | ND | 10 |
| Bis(2-ethylhexyl)phthalate | ND | 10 | Isophorone | ND | 10 |
| 4-Bromophenylphenylether | ND | 10 | 2-Methylnaphthalene | ND | 10 |
| utylbenzylphthalate | ND | 10 | 2-Methylphenol | ND | 10 |
| arbazole | ND | 10 | 4-Methylphenol | ND | 10 |
| 4-Chloro-3-methyl phenol | ND | 10 | 2-Methyl-4,6-dinitrophenol | ND | 25 |
| 4-Chloroaniline | ND | 10 | N-Nitrosodi-N-propylamine | ND | 10 |
| 2-Chloronaphthalene | ND | 10 | N-Nitrosodiphenylamine | ND | 10 |
| 2-Chlorophenol | ND | 10 | Naphthalene | ND | 10 |
| 4-Chlorophenylphenylether | ND | 10 | 2-Nitroaniline | ND | 25 |
| Chrysene | ND | 10 | 3-Nitroaniline | ND | 25 |
| Di-n-butylphthalate | ND | 10 | 4-Nitroaniline | ND | 25 |
| Di-n-octylphthalate | ND | 10 | Nitrobenzene | ND | 10 |
| Dibenzo(a,h)anthracene | ND | 10 | 2-Nitrophenol | ND | 10 |
| Dibenzofuran | ND | 10 | 4-Nitrophenol | ND | 25 |
| 1,2-Dichlorobenzene | ND | 10 | Pentachlorophenol | ND | 25 |
| 1,3-Dichlorobenzene | ND | 10 | Phenanthrene | ND | 10 |
| 1,4-Dichlorobenzene | ND | 10 | Phenol | ND | 10 |
| 3,3'-Dichlorobenzidine | ND | 10 | Pyrene | ND | 10 |
| 2,4-Dichlorophenol | ND | 10 | 1,2,4-Trichlorobenzene | ND | 10 |
| Diethylphthalate | ND | 10 | 2,4,5-Trichlorophenol | ND | 25 |
| 2,4-Dimethylphenol | ND | 10 | 2,4,6-Trichlorophenol | ND | 10 |



Recycled Paper

SAMPLE ID: WT 101 A + MS/DMS
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29290

# SEMI-VOLATILE ORGANIC COMPOUNDS



SURROGATE RECOVERY (Method 8270)

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 2-Fluorophenol | 21 - 110 | 27 |
| Phenol,d5 | 10 - 110 | 18 |
| Nitrobenzene,d5 | 35 - 114 | 77 |
| 2-Fluorobiphenyl | 43 - 116 | 78 |
| 2,4,6-Tribromophenol | 10 - 123 | 93 |
| p-Terphenyl,d14 | 33 - 141 | 62 |

DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.
- * = The Surrogate Compounds have been diluted out.



Recycled Paper

# ANALYTICAL REPORT

Client:
R Lennie Scott, P.E.
Bayer Corporation
1884 Miles Avenue
Elkhart, Indiana 46514
219-262-7234

Report Date: 10-18-95
EIS Lab No: 29291
EIS Project No: 1210-8135-95
EIS Priority: 4
Client P.O.#:
Certification: Indiana Drinking Water Certificate No. C-71-02

Invoice To:
Client

SAMPLE IDENTIFICATION
Sample ID: WT 101 B
Monitoring Well
Date Sampled: 9-25-95
Date Received: 9-25-95

Report To: CLIENT

Extra Report To:

| PARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST |
|---|---|---|---|---|---|
| Cyanide,Total | mg/l | <0.01 | 0.01 | 09-29-95 | Shane,D |
| Aluminum,Total | mg/l | <0.2 | 0.2 | 10-11-95 | Clear,N |
| Antimony,Total | mg/l | <0.06 | 0.06 | 10-11-95 | Clear,N |
| Arsenic,Total | mg/l | <0.01 | 0.01 | 10-11-95 | Clear,N |
| Barium,Total | mg/l | <0.2 | 0.2 | 10-11-95 | Clear,N |
| Beryllium,Total | mg/l | <0.005 | 0.005 | 10-11-95 | Clear,N |
| Cadmium,Total | mg/l | <0.005 | 0.005 | 10-11-95 | Clear,N |
| Calcium,Total | mg/l | 140 | 5 | 10-16-95 | Clear,N |
| Chromium,Total | mg/l | <0.01 | 0.01 | 10-11-95 | Clear,N |
| Cobalt,Total | mg/l | <0.05 | 0.05 | 10-11-95 | Clear,N |
| Copper,Total | mg/l | <0.025 | 0.025 | 10-11-95 | Clear,N |
| Iron,Total | mg/l | 3.10 | 0.1 | 10-13-95 | Clear,N |
| Lead,Total | mg/l | 0.007 | 0.003 | 10-11-95 | Clear,N |
| Magnesium,Total | mg/l | 46.3 | 5 | 10-13-95 | Clear,N |
| Manganese,Total | mg/l | 0.036 | 0.015 | 10-11-95 | Clear,N |
| Mercury,Total | mg/l | <0.0002 | 0.0002 | 09-27-95 | Shane,D |
| Nickel,Total | mg/l | <0.04 | 0.04 | 10-11-95 | Clear,N |
| Potassium,Total | mg/l | 5.0 | 5.0 | 10-16-95 | Shane,D |

QUALITY ASSURANCE OFFICER

LABORATORY DIRECTOR



Recy Paper

ENTAL ENGINEERS, INC. • 1701 North Ironwood Drive • South Bend, In 46635 • 219/277-5715

EIS Lab No: 29291(continued)

| ARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST |
|---|---|---|---|---|---|
| Selenium,Total | mg/l | <0.005 | 0.005 | 10-11-95 | Clear,N |
| Silver,Total | mg/l | <0.01 | 0.01 | 10-11-95 | Clear,N |
| Sodium,Total | mg/l | 44.3 | 5 | 10-13-95 | Clear,N |
| Thallium,Total | mg/l | <0.01 | 0.01 | 10-11-95 | Clear,N |
| Vanadium,Total | mg/l | <0.05 | 0.05 | 10-11-95 | Clear,N |
| Zinc,Total | mg/l | <0.02 | 0.02 | 10-11-95 | Clear,N |
| Pesticide/PCB | | * | | 10-10-95 | Clear,B |
| SVOC (BNA) | | * | | 10-05-95 | Geels,S |
| VOC | | * | | 09-27-95 | Myers,N |
| * See Attached ORGANICS REPORT | | | | | |
| Extract Pest/PCB | | | | 09-28-95 | Thompson,G |
| Extract SVOC (BNA) | | | | 09-27-95 | Thompson,G |
| Mercury Digestion | | | | 09-26-95 | Shane,D |
| Metals Digestion (ICP) | | | | 10-09-95 | Shane,D |

**ADDITIONAL INFORMATION**

1. Chain-of-Custody document is enclosed.
2. Reference Analytical Methods are enclosed.
3. Sample was iced upon receipt.
4. Sample container(s) were properly preserved per USEPA protocols.
5. < = Not Detected at the Detection Limit (DL) shown.
6. DL = Detection Limit and is adjusted for dilutions/concentrations.
7. Batch [organic] Quality Control data is enclosed. This data was generated at the time that this sample was analyzed but was performed on a different sample.



Recycled Paper

SAMPLE ID: WT 101 B
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29291

## VOLATILE ORGANIC COMPOUNDS/PETROLEUM HYDROCARBONS

| | | |
|---|---|---|
| Analysis Method: 8260<br>Reporting Units: ppb | Abbreviations and report symbols are explained on the following page | Sample Dilution: None<br>EQL Multiplier: 1 |

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acetone | ND | 10 | c-1,3-Dichloropropene | ND | 10 |
| Benzene | ND | 10 | t-1,3-Dichloropropene | ND | 10 |
| Bromodichloromethane | ND | 10 | Ethylbenzene | ND | 10 |
| Bromoform | ND | 10 | 2-Hexanone | ND | 10 |
| Bromomethane | ND | 10 | Methylene Chloride | ND | 10 |
| Carbon Disulfide | ND | 10 | Methyl Ethyl Ketone | ND | 10 |
| Carbon Tetrachloride | ND | 10 | Methyl Isobutyl Ketone | ND | 10 |
| Chlorobenzene | ND | 10 | Styrene | ND | 10 |
| Chlorodibromomethane | ND | 10 | 1,1,2,2-Tetrachloroethane | ND | 10 |
| Chloroethane | ND | 10 | Tetrachloroethene | ND | 10 |
| Chloroform | ND | 10 | Toluene | ND | 10 |
| Chloromethane | ND | 10 | 1,1,1-Trichloroethane | ND | 10 |
| 1,1-Dichloroethane | ND | 10 | 1,1,2-Trichloroethane | ND | 10 |
| 1,2-Dichloroethane | ND | 10 | Trichloroethene | ND | 1 |
| 1,1-Dichloroethene | ND | 10 | Vinyl Chloride | ND | |
| 1,2-Dichloroethene (Total) | ND | 10 | Xylenes (Total) | ND | 1 |
| 1,2-Dichloropropane | ND | 10 | | | |

SURROGATE RECOVERY

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 1,2-Dichloroethane,d4 | 76 - 114 | 99 |
| Toluene,d8 | 88 - 110 | 102 |
| Bromofluorobenzene | 86 - 115 | 99 |

DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

SAMPLE ID: WT 101 B
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29291

## CHLORINATED PESTICIDE COMPOUNDS

| | | |
|---|---|---|
| Analysis Method: 8081<br>Reporting Units: ppb | Abbreviations and report symbols are explained in DEFINITIONS below | Sample Dilution: None<br>EQL Multiplier: 1 |

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Aldrin | ND | 0.05 | Endrin | ND | 0.1 |
| BHC-Alpha | ND | 0.05 | Endrin Aldehyde | ND | 0.1 |
| BHC-Beta | ND | 0.05 | Endrin Ketone | ND | 0.1 |
| BHC-Delta | ND | 0.05 | Heptachlor | ND | 0.05 |
| BHC-Gamma(Lindane) | ND | 0.05 | Heptachlor Epoxide | ND | 0.05 |
| Chlordane-alpha | ND | 0.05 | Methoxychlor | ND | 0.5 |
| Chlordane-gamma | ND | 0.05 | Toxaphene | ND | 5.0 |
| 4,4'-DDD | ND | 0.1 | Aroclor - 1016 | ND | 1.0 |
| 4,4'-DDE | ND | 0.1 | Aroclor - 1221 | ND | 2.0 |
| 4,4'-DDT | ND | 0.1 | Aroclor - 1232 | ND | 1.0 |
| Dieldrin | ND | 0.1 | Aroclor - 1242 | ND | 1.0 |
| Endosulfan I | ND | 0.05 | Aroclor - 1248 | ND | 1.0 |
| Endosulfan II | ND | 0.1 | Aroclor - 1254 | ND | 1.0 |
| Endosulfan Sulfate | ND | 0.1 | Aroclor - 1260 | ND | 1.0 |

### SURROGATE RECOVERY

| Compound Name | Advisory QC Limits | % Recovery |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 30 - 150 | 94 |
| Decachlorobiphenyl | 30 - 150 | 92 |

### DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.



Recycled Paper

SAMPLE ID: WT 101 B
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29291

# SEMI-VOLATILE ORGANIC COMPOUNDS

Analysis Method: 8270
Reporting Units: ppb

Abbreviations and report symbols are explained on the following page

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acenaphthene | ND | 10 | Dimethylphthalate | ND | 10 |
| Acenaphthylene | ND | 10 | 2,4-Dinitrophenol | ND | 25 |
| Anthracene | ND | 10 | 2,6-Dinitrotoluene | ND | 10 |
| Benzo(a)anthracene | ND | 10 | 2,4-Dinitrotoluene | ND | 10 |
| Benzo(a)pyrene | ND | 10 | Fluoranthene | ND | 10 |
| Benzo(b)fluoranthene | ND | 10 | Fluorene | ND | 10 |
| Benzo(g,h,i)perylene | ND | 10 | Hexachlorobenzene | ND | 10 |
| Benzo(k)fluoranthene | ND | 10 | Hexachlorobutadiene | ND | 10 |
| Bis(2-chloroethoxy)methane | ND | 10 | Hexachlorocyclopentadiene | ND | 10 |
| Bis(2-chloroethyl)ether | ND | 10 | Hexachloroethane | ND | 10 |
| Bis(2-chloroisopropyl)ether | ND | 10 | Indeno(1,2,3-cd)pyrene | ND | 10 |
| Bis(2-ethylhexyl)phthalate | ND | 10 | Isophorone | ND | 10 |
| 4-Bromophenylphenylether | ND | 10 | 2-Methylnaphthalene | ND | 10 |
| Butylbenzylphthalate | ND | 10 | 2-Methylphenol | ND | 10 |
| Carbazole | ND | 10 | 4-Methylphenol | ND | [illegible] |
| 4-Chloro-3-methyl phenol | ND | 10 | 2-Methyl-4,6-dinitrophenol | ND | 25 |
| 4-Chloroaniline | ND | 10 | N-Nitrosodi-N-propylamine | ND | 10 |
| 2-Chloronaphthalene | ND | 10 | N-Nitrosodiphenylamine | ND | 10 |
| 2-Chlorophenol | ND | 10 | Naphthalene | ND | 10 |
| 4-Chlorophenylphenylether | ND | 10 | 2-Nitroaniline | ND | 25 |
| Chrysene | ND | 10 | 3-Nitroaniline | ND | 25 |
| Di-n-butylphthalate | ND | 10 | 4-Nitroaniline | ND | 25 |
| Di-n-octylphthalate | ND | 10 | Nitrobenzene | ND | 10 |
| Dibenzo(a,h)anthracene | ND | 10 | 2-Nitrophenol | ND | 10 |
| Dibenzofuran | ND | 10 | 4-Nitrophenol | ND | 25 |
| 1,2-Dichlorobenzene | ND | 10 | Pentachlorophenol | ND | 25 |
| 1,3-Dichlorobenzene | ND | 10 | Phenanthrene | ND | 10 |
| 1,4-Dichlorobenzene | ND | 10 | Phenol | ND | 10 |
| 3,3'-Dichlorobenzidine | ND | 10 | Pyrene | ND | 10 |
| 2,4-Dichlorophenol | ND | 10 | 1,2,4-Trichlorobenzene | ND | 10 |
| Diethylphthalate | ND | 10 | 2,4,5-Trichlorophenol | ND | 25 |
| 2,4-Dimethylphenol | ND | 10 | 2,4,6-Trichlorophenol | ND | 10 |


Recycled Paper

SAMPLE ID: WT 101 B
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29291

# SEMI-VOLATILE ORGANIC COMPOUNDS



SURROGATE RECOVERY (Method 8270)

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 2-Fluorophenol | 21 - 110 | 53 |
| Phenol,d5 | 10 - 110 | 34 |
| Nitrobenzene,d5 | 35 - 114 | 81 |
| 2-Fluorobiphenyl | 43 - 116 | 84 |
| 2,4,6-Tribromophenol | 10 - 123 | 151 |
| p-Terphenyl,d14 | 33 - 141 | 70 |

DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.
- * = The Surrogate Compounds have been diluted out.



Recycled Paper

# ANALYTICAL REPORT

Client:
R Lennie Scott, P.E.
Bayer Corporation
1884 Miles Avenue
Elkhart, Indiana 46514
219-262-7234

Report Date: 10-18-95
EIS Lab No: 29292
EIS Project No: 1210-8135-95
EIS Priority: 4
Client P.O.#:
Certification: Indiana Drinking Water Certificate No. C-71-02

Invoice To:
Client

**SAMPLE IDENTIFICATION**
Sample ID: FD-2
Monitoring Well
Date Sampled: 9-25-95
Date Received: 9-25-95

Report To: CLIENT

Extra Report To:

| PARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST | QUALITY CONTROL RSD % | SPIKE LEVEL | MS %R | DMS %R | RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide,Total | mg/l | <0.01 | 0.01 | 10-05-95 | Shane,D | | | | | |
| Aluminum,Total | mg/l | <0.2 | 0.2 | 10-11-95 | Clear,N | 0 | | | | |
| Antimony,Total | mg/l | <0.06 | 0.06 | 10-11-95 | Clear,N | 0 | | | | |
| Arsenic,Total | mg/l | <0.01 | 0.01 | 10-11-95 | Clear,N | 0 | | | | |
| Barium,Total | mg/l | <0.2 | 0.2 | 10-11-95 | Clear,N | 0 | | | | |
| Beryllium,Total | mg/l | <0.005 | 0.005 | 10-11-95 | Clear,N | 0 | | | | |
| Cadmium,Total | mg/l | <0.005 | 0.005 | 10-11-95 | Clear,N | 0 | | | | |
| Calcium,Total | mg/l | 130 | 5 | 10-16-95 | Clear,N | 0 | | | | |
| Chromium,Total | mg/l | <0.01 | 0.01 | 10-11-95 | Clear,N | 0 | | | | |
| Cobalt,Total | mg/l | <0.05 | 0.05 | 10-11-95 | Clear,N | 0 | | | | |
| Copper,Total | mg/l | <0.025 | 0.025 | 10-11-95 | Clear,N | 0 | | | | |
| Iron,Total | mg/l | 3.0 | 0.1 | 10-13-95 | Clear,N | 0 | | | | |
| Lead,Total | mg/l | 0.008 | 0.003 | 10-17-95 | Clear,N | 27 | | | | |
| Magnesium,Total | mg/l | 45.0 | 5 | 10-13-95 | Clear,N | 0.6 | | | | |
| Manganese,Total | mg/l | 0.036 | 0.015 | 10-11-95 | Clear,N | 2.1 | | | | |
| Mercury,Total | mg/l | <0.0002 | 0.0002 | 09-27-95 | Shane,D | | | | | |
| Nickel,Total | mg/l | <0.04 | 0.04 | 10-11-95 | Clear,N | 0 | | | | |
| Potassium,Total | mg/l | 5.1 | 5.0 | 10-16-95 | Shane,D | 2.3 | | | | |

QUALITY ASSURANCE OFFICER

LABORATORY DIRECTOR



Recycled Paper

EIS ENVIRONMENTAL ENGINEERS, INC. • 1701 North Ironwood Drive • South Bend, Indiana 46635 • 219/277-5715

EIS Lab No: 29292(continued)

| ARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST | QUALITY CONTROL RSD % | SPIKE LEVEL | MS %R | DMS %R | RPD % |
|---|---|---|---|---|---|---|---|---|---|---|
| Selenium,Total | mg/l | <0.005 | 0.005 | 10-11-95 | Clear,N | 0 | | | | |
| Silver,Total | mg/l | <0.01 | 0.01 | 10-11-95 | Clear,N | 0 | | | | |
| Sodium,Total | mg/l | 44.6 | 5 | 10-13-95 | Clear,N | 0 | | | | |
| Thallium,Total | mg/l | <0.01 | 0.01 | 10-11-95 | Clear,N | 0 | | | | |
| Vanadium,Total | mg/l | <0.05 | 0.05 | 10-11-95 | Clear,N | 0 | | | | |
| Zinc,Total | mg/l | <0.02 | 0.02 | 10-11-95 | Clear,N | 0 | | | | |
| Pesticide/PCB | | * | | 10-10-95 | Clear,B | | | | | |
| SVOC (BNA) | | * | | 10-05-95 | Geels,S | | | | | |
| VOC | | * | | 09-27-95 | Myers,N | | | | | |

* See Attached ORGANICS REPORT

| | | |
|---|---|---|
| Extract Pest/PCB | 09-28-95 | Thompson,G |
| Extract SVOC (BNA) | 09-27-95 | Thompson,G |
| Mercury Digestion | 09-26-95 | Shane,D |
| Metals Digestion (ICP) | 10-10-95 | Shane,D |

**ADDITIONAL INFORMATION**

1. Chain-of-Custody document is enclosed.
2. Reference Analytical Methods are enclosed.
3. Sample was iced upon receipt.
4. Sample container(s) were properly preserved per USEPA protocols.
5. < = Not Detected at the Detection Limit (DL) shown.
6. DL = Detection Limit and is adjusted for dilutions/concentrations.
7. Quality Control definitions are as follows:
   %RSD = Precision of replicate analysis for this sample.
   Spike Level = Parameter Spike amount in units of the result.
   %R = Matrix Spike(MS)/Duplicate Matrix Spike(DMS) recovery.
   %RPD = Precision of Matrix Spike recovery values.
8. Inorganic Quality Control limits are enclosed.
9. Batch [organic] Quality Control data is enclosed. This data was generated at the time that this sample was analyzed but was performed on a different sample.
10. This sample is a Field Duplicate of Sample ID: WT 101 B.



Recycled Paper

SAMPLE ID: FD-2
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29292

## VOLATILE ORGANIC COMPOUNDS/PETROLEUM HYDROCARBONS

| | | |
|---|---|---|
| Analysis Method: 8260<br>Reporting Units: ppb | Abbreviations and report symbols are explained on the following page | Sample Dilution: None<br>EQL Multiplier: 1 |

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acetone | ND | 10 | c-1,3-Dichloropropene | ND | 10 |
| Benzene | ND | 10 | t-1,3-Dichloropropene | ND | 10 |
| Bromodichloromethane | ND | 10 | Ethylbenzene | ND | 10 |
| Bromoform | ND | 10 | 2-Hexanone | ND | 10 |
| Bromomethane | ND | 10 | Methylene Chloride | ND | 10 |
| Carbon Disulfide | ND | 10 | Methyl Ethyl Ketone | ND | 10 |
| Carbon Tetrachloride | ND | 10 | Methyl Isobutyl Ketone | ND | 10 |
| Chlorobenzene | ND | 10 | Styrene | ND | 10 |
| Chlorodibromomethane | ND | 10 | 1,1,2,2-Tetrachloroethane | ND | 10 |
| Chloroethane | ND | 10 | Tetrachloroethene | ND | 10 |
| Chloroform | ND | 10 | Toluene | ND | 10 |
| Chloromethane | ND | 10 | 1,1,1-Trichloroethane | ND | 10 |
| 1,1-Dichloroethane | ND | 10 | 1,1,2-Trichloroethane | ND | 10 |
| 1,2-Dichloroethane | ND | 10 | Trichloroethene | ND | 10 |
| 1,1-Dichloroethene | ND | 10 | Vinyl Chloride | ND | 1 |
| 1,2-Dichloroethene (Total) | ND | 10 | Xylenes (Total) | ND | 1 |
| 1,2-Dichloropropane | ND | 10 | | | |

SURROGATE RECOVERY

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 1,2-Dichloroethane,d4 | 76 - 114 | 100 |
| Toluene,d8 | 88 - 110 | 103 |
| Bromofluorobenzene | 86 - 115 | 97 |

DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

SAMPLE ID: FD-2
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29292

## CHLORINATED PESTICIDE COMPOUNDS

Analysis Method: 8081
Reporting Units: ppb

Abbreviations and report symbols are explained in DEFINITIONS below

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Aldrin | ND | 0.05 | Endrin | ND | 0.1 |
| BHC-Alpha | ND | 0.05 | Endrin Aldehyde | ND | 0.1 |
| BHC-Beta | ND | 0.05 | Endrin Ketone | ND | 0.1 |
| BHC-Delta | ND | 0.05 | Heptachlor | ND | 0.05 |
| BHC-Gamma (Lindane) | ND | 0.05 | Heptachlor Epoxide | ND | 0.05 |
| Chlordane-alpha | ND | 0.05 | Methoxychlor | ND | 0.5 |
| Chlordane-gamma | ND | 0.05 | Toxaphene | ND | 5.0 |
| 4,4'-DDD | ND | 0.1 | Aroclor - 1016 | ND | 1.0 |
| 4,4'-DDE | ND | 0.1 | Aroclor - 1221 | ND | 2.0 |
| 4,4'-DDT | ND | 0.1 | Aroclor - 1232 | ND | 1.0 |
| Dieldrin | ND | 0.1 | Aroclor - 1242 | ND | 1.0 |
| Endosulfan I | ND | 0.05 | Aroclor - 1248 | ND | 1.0 |
| Endosulfan II | ND | 0.1 | Aroclor - 1254 | ND | 1.0 |
| Endosulfan Sulfate | ND | 0.1 | Aroclor - 1260 | ND | 1.0 |

SURROGATE RECOVERY

| Compound Name | Advisory QC Limits | % Recovery |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 30 - 150 | 93 |
| Decachlorobiphenyl | 30 - 150 | 95 |

DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

SAMPLE ID: FD-2
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29295

## SEMI-VOLATILE ORGANIC COMPOUNDS

Analysis Method: 8270
Reporting Units: ppb

Abbreviations and report symbols are explained on the following page

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acenaphthene | ND | 10 | Dimethylphthalate | ND | 10 |
| Acenaphthylene | ND | 10 | 2,4-Dinitrophenol | ND | 25 |
| Anthracene | ND | 10 | 2,6-Dinitrotoluene | ND | 10 |
| Benzo(a)anthracene | ND | 10 | 2,4-Dinitrotoluene | ND | 10 |
| Benzo(a)pyrene | ND | 10 | Fluoranthene | ND | 10 |
| Benzo(b)fluoranthene | ND | 10 | Fluorene | ND | 10 |
| Benzo(g,h,i)perylene | ND | 10 | Hexachlorobenzene | ND | 10 |
| Benzo(k)fluoranthene | ND | 10 | Hexachlorobutadiene | ND | 10 |
| Bis(2-chloroethoxy)methane | ND | 10 | Hexachlorocyclopentadiene | ND | 10 |
| Bis(2-chloroethyl)ether | ND | 10 | Hexachloroethane | ND | 10 |
| Bis(2-chloroisopropyl)ether | ND | 10 | Indeno(1,2,3-cd)pyrene | ND | 10 |
| Bis(2-ethylhexyl)phthalate | ND | 10 | Isophorone | ND | 10 |
| 4-Bromophenylphenylether | ND | 10 | 2-Methylnaphthalene | ND | 10 |
| Butylbenzylphthalate | ND | 10 | 2-Methylphenol | ND | |
| Carbazole | ND | 10 | 4-Methylphenol | ND | |
| 4-Chloro-3-methyl phenol | ND | 10 | 2-Methyl-4,6-dinitrophenol | ND | 25 |
| 4-Chloroaniline | ND | 10 | N-Nitrosodi-N-propylamine | ND | 10 |
| 2-Chloronaphthalene | ND | 10 | N-Nitrosodiphenylamine | ND | 10 |
| 2-Chlorophenol | ND | 10 | Naphthalene | ND | 10 |
| 4-Chlorophenylphenylether | ND | 10 | 2-Nitroaniline | ND | 25 |
| Chrysene | ND | 10 | 3-Nitroaniline | ND | 25 |
| Di-n-butylphthalate | ND | 10 | 4-Nitroaniline | ND | 25 |
| Di-n-octylphthalate | ND | 10 | Nitrobenzene | ND | 10 |
| Dibenzo(a,h)anthracene | ND | 10 | 2-Nitrophenol | ND | 10 |
| Dibenzofuran | ND | 10 | 4-Nitrophenol | ND | 25 |
| 1,2-Dichlorobenzene | ND | 10 | Pentachlorophenol | ND | 25 |
| 1,3-Dichlorobenzene | ND | 10 | Phenanthrene | ND | 10 |
| 1,4-Dichlorobenzene | ND | 10 | Phenol | ND | 10 |
| 3,3'-Dichlorobenzidine | ND | 10 | Pyrene | ND | 10 |
| 2,4-Dichlorophenol | ND | 10 | 1,2,4-Trichlorobenzene | ND | 10 |
| Diethylphthalate | ND | 10 | 2,4,5-Trichlorophenol | ND | 25 |
| 2,4-Dimethylphenol | ND | 10 | 2,4,6-Trichlorophenol | ND | 10 |


Recycled Paper

SAMPLE ID: FD-2
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29292

# SEMI-VOLATILE ORGANIC COMPOUNDS



SURROGATE RECOVERY (Method 8270)

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 2-Fluorophenol | 21 - 110 | 57 |
| Phenol,d5 | 10 - 110 | 36 |
| Nitrobenzene,d5 | 35 - 114 | 83 |
| 2-Fluorobiphenyl | 43 - 116 | 85 |
| 2,4,6-Tribromophenol | 10 - 123 | 141 |
| p-Terphenyl,d14 | 33 - 141 | 72 |

DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.
- * = The Surrogate Compounds have been diluted out.



Recycled Paper

# ANALYTICAL REPORT

Client:
R Lennie Scott, P.E.
Bayer Corporation
1884 Miles Avenue
Elkhart, Indiana 46514
219-262-7234

Report Date: 10-18-95
EIS Lab No: 29293
EIS Project No: 1210-8135-95
EIS Priority: 4
Client P.O.#:
Certification: Indiana Drinking Water Certificate No. C-71-02

Invoice To:
Client

**SAMPLE IDENTIFICATION**
Sample ID: TB-6B
Deionized Water
Date Sampled: 9-25-95
Date Received: 9-25-95

Report To: CLIENT

Extra Report To:

| PARAMETER | RESULT | TEST DATE | ANALYST |
|---|---|---|---|
| VOC | * | 09-28-95 | Myers,N |

* See Attached ORGANICS REPORT

**ADDITIONAL INFORMATION**

1. Chain-of-Custody document is enclosed.
2. Sample was iced upon receipt.
3. Sample container(s) were properly preserved per USEPA protocols.
4. This sample is a Trip Blank for day 6 from Team B.

QUALITY ASSURANCE OFFICER

LABORATORY DIRECTOR



Recycled Paper

Ironwood Drive • South Bend, Indiana 46635 • 219/277-5715

SAMPLE ID: TB-6B
Deionized Water

REPORT DATE: 10/18/95
EIS LAB NO: 29293

## VOLATILE ORGANIC COMPOUNDS/PETROLEUM HYDROCARBONS

| | | |
|---|---|---|
| Analysis Method: 8260<br>Reporting Units: ppb | Abbreviations and report symbols are explained on the following page | Sample Dilution: None<br>EQL Multiplier: 1 |

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acetone | ND | 10 | c-1,3-Dichloropropene | ND | 10 |
| Benzene | ND | 10 | t-1,3-Dichloropropene | ND | 10 |
| Bromodichloromethane | ND | 10 | Ethylbenzene | ND | 10 |
| Bromoform | ND | 10 | 2-Hexanone | ND | 10 |
| Bromomethane | ND | 10 | Methylene Chloride | ND | 10 |
| Carbon Disulfide | ND | 10 | Methyl Ethyl Ketone | ND | 10 |
| Carbon Tetrachloride | ND | 10 | Methyl Isobutyl Ketone | ND | 10 |
| Chlorobenzene | ND | 10 | Styrene | ND | 10 |
| Chlorodibromomethane | ND | 10 | 1,1,2,2-Tetrachloroethane | ND | 10 |
| Chloroethane | ND | 10 | Tetrachloroethene | ND | 10 |
| Chloroform | ND | 10 | Toluene | ND | 10 |
| Chloromethane | ND | 10 | 1,1,1-Trichloroethane | ND | 10 |
| 1,1-Dichloroethane | ND | 10 | 1,1,2-Trichloroethane | ND | 10 |
| 1,2-Dichloroethane | ND | 10 | Trichloroethene | ND | 10 |
| 1,1-Dichloroethene | ND | 10 | Vinyl Chloride | ND | 10 |
| 1,2-Dichloroethene (Total) | ND | 10 | Xylenes (Total) | ND | 10 |
| 1,2-Dichloropropane | ND | 10 | | | |

### SURROGATE RECOVERY

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 1,2-Dichloroethane,d4 | 76 - 114 | 98 |
| Toluene,d8 | 88 - 110 | 103 |
| Bromofluorobenzene | 86 - 115 | 96 |

### DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" *for samples not requiring dilutions.* [*If a sample requires a dilution,* the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.



Recycled Paper

# ANALYTICAL REPORT

Client:
R Lennie Scott, P.E.
Bayer Corporation
1884 Miles Avenue
Elkhart, Indiana 46514
219-262-7234

Report Date: 10-18-95
EIS Lab No: 29326
EIS Project No: 1210-8135-95
EIS Priority: 4
Client P.O.#:
Certification: Indiana Drinking Water Certificate No. C-71-02

Invoice To:
Client

**SAMPLE IDENTIFICATION**
Sample ID: WT E1
Monitoring Well
Date Sampled: 9-26-95
Date Received: 9-26-95

Report To: CLIENT

Extra Report To:

| PARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST |
|---|---|---|---|---|---|
| Cyanide, Total | mg/l | <0.01 | 0.01 | 10-05-95 | Shane,D |
| Aluminum, Total | mg/l | <0.2 | 0.2 | 10-11-95 | Clear,N |
| Antimony, Total | mg/l | <0.06 | 0.06 | 10-11-95 | Clear,N |
| Arsenic, Total | mg/l | <0.01 | 0.01 | 10-11-95 | Clear,N |
| Barium, Total | mg/l | <0.2 | 0.2 | 10-11-95 | Clear,N |
| Beryllium, Total | mg/l | <0.005 | 0.005 | 10-11-95 | Clear,N |
| Cadmium, Total | mg/l | <0.005 | 0.005 | 10-11-95 | Clear,N |
| Calcium, Total | mg/l | 150 | 5 | 10-13-95 | Clear,N |
| Chromium, Total | mg/l | <0.01 | 0.01 | 10-11-95 | Clear,N |
| Cobalt, Total | mg/l | <0.05 | 0.05 | 10-11-95 | Clear,N |
| Copper, Total | mg/l | <0.025 | 0.025 | 10-11-95 | Clear,N |
| Iron, Total | mg/l | 3.47 | 0.1 | 10-13-95 | Clear,N |
| Lead, Total | mg/l | 0.004 | 0.003 | 10-11-95 | Clear,N |
| Magnesium, Total | mg/l | 38.4 | 5 | 10-13-95 | Clear,N |
| Manganese, Total | mg/l | 0.127 | 0.015 | 10-11-95 | Clear,N |
| Mercury, Total | mg/l | <0.0002 | 0.0002 | 10-04-95 | Shane,D |
| Nickel, Total | mg/l | <0.04 | 0.04 | 10-11-95 | Clear,N |
| Potassium, Total | mg/l | 5.2 | 5.0 | 10-16-95 | Shane,D |

QUALITY ASSURANCE OFFICER

LABORATORY DIRECTOR



Recycled Paper

Indiana 46635 • 219/277-5715

TIS Lab No: 29326(continued)

| PARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST |
|---|---|---|---|---|---|
| Selenium,Total | mg/l | <0.005 | 0.005 | 10-11-95 | Clear,N |
| Silver,Total | mg/l | <0.01 | 0.01 | 10-11-95 | Clear,N |
| Sodium,Total | mg/l | 17.6 | 5 | 10-13-95 | Clear,N |
| Thallium,Total | mg/l | <0.01 | 0.01 | 10-11-95 | Clear,N |
| Vanadium,Total | mg/l | <0.05 | 0.05 | 10-11-95 | Clear,N |
| Zinc,Total | mg/l | <0.02 | 0.02 | 10-11-95 | Clear,N |
| Pesticide/PCB | | * | | 10-10-95 | Clear,B |
| SVOC (BNA) | | * | | 10-06-95 | Geels,S |
| VOC | | * | | 09-28-95 | Myers,N |
| * See Attached ORGANICS REPORT | | | | | |
| Extract Pest/PCB | | | | 09-28-95 | Thompson,G |
| Extract SVOC (BNA) | | | | 09-29-95 | Thompson,G |
| Mercury Digestion | | | | 10-03-95 | Shane,D |
| Metals Digestion (ICP) | | | | 10-10-95 | Shane,D |

**ADDITIONAL INFORMATION**

1. Chain-of-Custody document is enclosed.
2. Reference Analytical Methods are enclosed.
3. Sample was iced upon receipt.
4. Sample container(s) were properly preserved per USEPA protocols.
5. < = Not Detected at the Detection Limit (DL) shown.
6. DL = Detection Limit and is adjusted for dilutions/concentrations.
7. Batch [organic] Quality Control data is enclosed. This data was generated at the time that this sample was analyzed but was performed on a different sample.



Recycled Paper

SAMPLE ID: WT E1
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29326

# VOLATILE ORGANIC COMPOUNDS/PETROLEUM HYDROCARBONS

Analysis Method: 8260
Reporting Units: ppb

Abbreviations and report symbols are explained on the following page

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acetone | ND | 10 | c-1,3-Dichloropropene | ND | 10 |
| Benzene | ND | 10 | t-1,3-Dichloropropene | ND | 10 |
| Bromodichloromethane | ND | 10 | Ethylbenzene | ND | 10 |
| Bromoform | ND | 10 | 2-Hexanone | ND | 10 |
| Bromomethane | ND | 10 | Methylene Chloride | ND | 10 |
| Carbon Disulfide | ND | 10 | Methyl Ethyl Ketone | ND | 10 |
| Carbon Tetrachloride | ND | 10 | Methyl Isobutyl Ketone | ND | 10 |
| Chlorobenzene | ND | 10 | Styrene | ND | 10 |
| Chlorodibromomethane | ND | 10 | 1,1,2,2-Tetrachloroethane | ND | 10 |
| Chloroethane | ND | 10 | Tetrachloroethene | ND | 10 |
| Chloroform | ND | 10 | Toluene | ND | 10 |
| Chloromethane | ND | 10 | 1,1,1-Trichloroethane | ND | 10 |
| 1,1-Dichloroethane | ND | 10 | 1,1,2-Trichloroethane | ND | 10 |
| 1,2-Dichloroethane | ND | 10 | Trichloroethene | ND | |
| 1,1-Dichloroethene | ND | 10 | Vinyl Chloride | ND | |
| 1,2-Dichloroethene (Total) | ND | 10 | Xylenes (Total) | ND | 10 |
| 1,2-Dichloropropane | ND | 10 | | | |

## SURROGATE RECOVERY

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 1,2-Dichloroethane,d4 | 76 - 114 | 102 |
| Toluene,d8 | 88 - 110 | 102 |
| Bromofluorobenzene | 86 - 115 | 93 |

## DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

SAMPLE ID: WT E1
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29326

## CHLORINATED PESTICIDE COMPOUNDS

Analysis Method: 8081
Reporting Units: ppb

Abbreviations and report symbols are explained in DEFINITIONS below

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Aldrin | ND | 0.05 | Endrin | ND | 0.1 |
| BHC-Alpha | ND | 0.05 | Endrin Aldehyde | ND | 0.1 |
| BHC-Beta | ND | 0.05 | Endrin Ketone | ND | 0.1 |
| BHC-Delta | ND | 0.05 | Heptachlor | ND | 0.05 |
| BHC-Gamma(Lindane) | ND | 0.05 | Heptachlor Epoxide | ND | 0.05 |
| Chlordane-alpha | ND | 0.05 | Methoxychlor | ND | 0.5 |
| Chlordane-gamma | ND | 0.05 | Toxaphene | ND | 5.0 |
| 4,4'-DDD | ND | 0.1 | Aroclor - 1016 | ND | 1.0 |
| 4,4'-DDE | ND | 0.1 | Aroclor - 1221 | ND | 2.0 |
| 4,4'-DDT | ND | 0.1 | Aroclor - 1232 | ND | 1.0 |
| Dieldrin | ND | 0.1 | Aroclor - 1242 | ND | 1.0 |
| Endosulfan I | ND | 0.05 | Aroclor - 1248 | ND | 1.0 |
| Endosulfan II | ND | 0.1 | Aroclor - 1254 | ND | 1.0 |
| Endosulfan Sulfate | ND | 0.1 | Aroclor - 1260 | ND | 1.0 |

### SURROGATE RECOVERY

| Compound Name | Advisory QC Limits | % Recovery |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 30 - 150 | 91 |
| Decachlorobiphenyl | 30 - 150 | 87 |

### DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

SAMPLE ID: WT E1
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29326

## SEMI-VOLATILE ORGANIC COMPOUNDS

Analysis Method: 8270
Reporting Units: ppb

Abbreviations and report symbols are explained on the following page

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acenaphthene | ND | 10 | Dimethylphthalate | ND | 10 |
| Acenaphthylene | ND | 10 | 2,4-Dinitrophenol | ND | 25 |
| Anthracene | ND | 10 | 2,6-Dinitrotoluene | ND | 10 |
| Benzo(a)anthracene | ND | 10 | 2,4-Dinitrotoluene | ND | 10 |
| Benzo(a)pyrene | ND | 10 | Fluoranthene | ND | 10 |
| Benzo(b)fluoranthene | ND | 10 | Fluorene | ND | 10 |
| Benzo(g,h,i)perylene | ND | 10 | Hexachlorobenzene | ND | 10 |
| Benzo(k)fluoranthene | ND | 10 | Hexachlorobutadiene | ND | 10 |
| Bis(2-chloroethoxy)methane | ND | 10 | Hexachlorocyclopentadiene | ND | 10 |
| Bis(2-chloroethyl)ether | ND | 10 | Hexachloroethane | ND | 10 |
| Bis(2-chloroisopropyl)ether | ND | 10 | Indeno(1,2,3-cd)pyrene | ND | 10 |
| Bis(2-ethylhexyl)phthalate | ND | 10 | Isophorone | ND | 10 |
| 4-Bromophenylphenylether | ND | 10 | 2-Methylnaphthalene | ND | 10 |
| Butylbenzylphthalate | ND | 10 | 2-Methylphenol | ND | 10 |
| Carbazole | ND | 10 | 4-Methylphenol | ND | 1 |
| 4-Chloro-3-methyl phenol | ND | 10 | 2-Methyl-4,6-dinitrophenol | ND | 25 |
| 4-Chloroaniline | ND | 10 | N-Nitrosodi-N-propylamine | ND | 10 |
| 2-Chloronaphthalene | ND | 10 | N-Nitrosodiphenylamine | ND | 10 |
| 2-Chlorophenol | ND | 10 | Naphthalene | ND | 10 |
| 4-Chlorophenylphenylether | ND | 10 | 2-Nitroaniline | ND | 25 |
| Chrysene | ND | 10 | 3-Nitroaniline | ND | 25 |
| Di-n-butylphthalate | ND | 10 | 4-Nitroaniline | ND | 25 |
| Di-n-octylphthalate | ND | 10 | Nitrobenzene | ND | 10 |
| Dibenzo(a,h)anthracene | ND | 10 | 2-Nitrophenol | ND | 10 |
| Dibenzofuran | ND | 10 | 4-Nitrophenol | ND | 25 |
| 1,2-Dichlorobenzene | ND | 10 | Pentachlorophenol | ND | 25 |
| 1,3-Dichlorobenzene | ND | 10 | Phenanthrene | ND | 10 |
| 1,4-Dichlorobenzene | ND | 10 | Phenol | ND | 10 |
| 3,3'-Dichlorobenzidine | ND | 10 | Pyrene | ND | 10 |
| 2,4-Dichlorophenol | ND | 10 | 1,2,4-Trichlorobenzene | ND | 10 |
| Diethylphthalate | ND | 10 | 2,4,5-Trichlorophenol | ND | 25 |
| 2,4-Dimethylphenol | ND | 10 | 2,4,6-Trichlorophenol | ND | 10 |


Recycled Paper

SAMPLE ID: WT E1
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29326

## SEMI-VOLATILE ORGANIC COMPOUNDS



SURROGATE RECOVERY (Method 8270)

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 2-Fluorophenol | 21 - 110 | 56 |
| Phenol,d5 | 10 - 110 | 36 |
| Nitrobenzene,d5 | 35 - 114 | 106 |
| 2-Fluorobiphenyl | 43 - 116 | 103 |
| 2,4,6-Tribromophenol | 10 - 123 | 165 |
| p-Terphenyl,d14 | 33 - 141 | 89 |

DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.
- * = The Surrogate Compounds have been diluted out.



Recycled Pap

# ANALYTICAL REPORT

Client:
R Lennie Scott, P.E.
Bayer Corporation
1884 Miles Avenue
Elkhart, Indiana 46514
219-262-7234

Report Date: 10-18-95
EIS Lab No: 29327
EIS Project No: 1210-8135-95
EIS Priority: 4
Client P.O.#:
Certification: Indiana Drinking Water Certificate No. C-71-02

Invoice To:
Client

**SAMPLE IDENTIFICATION**
Sample ID: FERB-2
Deionized Water
Date Sampled: 9-26-95
Date Received: 9-26-95

Report To: CLIENT

Extra Report To:

| PARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST |
|---|---|---|---|---|---|
| Cyanide,Total | mg/l | <0.01 | 0.01 | 10-05-95 | Shane,D |
| Aluminum,Total | mg/l | <0.2 | 0.2 | 10-11-95 | Clear,N |
| Antimony,Total | mg/l | <0.06 | 0.06 | 10-11-95 | Clear,N |
| Arsenic,Total | mg/l | <0.01 | 0.01 | 10-11-95 | Clear,N |
| Barium,Total | mg/l | <0.2 | 0.2 | 10-11-95 | Clear,N |
| Beryllium,Total | mg/l | <0.005 | 0.005 | 10-11-95 | Clear,N |
| Cadmium,Total | mg/l | <0.005 | 0.005 | 10-11-95 | Clear,N |
| Calcium,Total | mg/l | <5 | 5 | 10-13-95 | Clear,N |
| Chromium,Total | mg/l | <0.01 | 0.01 | 10-11-95 | Clear,N |
| Cobalt,Total | mg/l | <0.05 | 0.05 | 10-11-95 | Clear,N |
| Copper,Total | mg/l | <0.025 | 0.025 | 10-11-95 | Clear,N |
| Iron,Total | mg/l | <0.1 | 0.1 | 10-11-95 | Clear,N |
| Lead,Total | mg/l | <0.003 | 0.003 | 10-11-95 | Clear,N |
| Magnesium,Total | mg/l | <5 | 5 | 10-13-95 | Clear,N |
| Manganese,Total | mg/l | <0.015 | 0.015 | 10-11-95 | Clear,N |
| Mercury,Total | mg/l | <0.0002 | 0.0002 | 10-04-95 | Shane,D |
| Nickel,Total | mg/l | <0.04 | 0.04 | 10-11-95 | Clear,N |
| Potassium,Total | mg/l | <5.0 | 5.0 | 10-16-95 | Shane,D |

QUALITY ASSURANCE OFFICER

LABORATORY DIRECTOR



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EIS Lab No: 29327(continued)

| PARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST |
|---|---|---|---|---|---|
| Selenium,Total | mg/l | <0.005 | 0.005 | 10-11-95 | Clear,N |
| Silver,Total | mg/l | <0.01 | 0.01 | 10-11-95 | Clear,N |
| Sodium,Total | mg/l | <5 | 5 | 10-13-95 | Clear,N |
| Thallium,Total | mg/l | <0.01 | 0.01 | 10-11-95 | Clear,N |
| Vanadium,Total | mg/l | <0.05 | 0.05 | 10-11-95 | Clear,N |
| Zinc,Total | mg/l | <0.02 | 0.02 | 10-11-95 | Clear,N |
| Pesticide/PCB | | * | | 10-10-95 | Clear,B |
| SVOC (BNA) | | * | | 10-06-95 | Geels,S |
| VOC | | * | | 09-28-95 | Myers,N |

* See Attached ORGANICS REPORT

| | | |
|---|---|---|
| Extract Pest/PCB | 09-28-95 | Thompson,G |
| Extract SVOC (BNA) | 09-29-95 | Thompson,G |
| Mercury Digestion | 10-03-95 | Shane,D |
| Metals Digestion (ICP) | 10-10-95 | Shane,D |

ADDITIONAL INFORMATION

1. Chain-of-Custody document is enclosed.
2. Reference Analytical Methods are enclosed.
3. Sample was iced upon receipt.
4. Sample container(s) were properly preserved per USEPA protocols.
5. < = Not Detected at the Detection Limit (DL) shown.
6. DL = Detection Limit and is adjusted for dilutions/concentrations.
7. Batch [organic] Quality Control data is enclosed. This data was generated at the time that this sample was analyzed but was performed on a different sample.



Recycled Paper

SAMPLE ID: FERB-2
Deionized Water

REPORT DATE: 10/18/95
EIS LAB NO: 29327

## VOLATILE ORGANIC COMPOUNDS/PETROLEUM HYDROCARBONS

Analysis Method: 8260
Reporting Units: ppb

Abbreviations and report symbols are explained on the following page

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acetone | ND | 10 | c-1,3-Dichloropropene | ND | 10 |
| Benzene | ND | 10 | t-1,3-Dichloropropene | ND | 10 |
| Bromodichloromethane ..... | 11 | 10 | Ethylbenzene | ND | 10 |
| Bromoform | ND | 10 | 2-Hexanone | ND | 10 |
| Bromomethane | ND | 10 | Methylene Chloride | ND | 10 |
| Carbon Disulfide | ND | 10 | Methyl Ethyl Ketone | ND | 10 |
| Carbon Tetrachloride | ND | 10 | Methyl Isobutyl Ketone | ND | 10 |
| Chlorobenzene | ND | 10 | Styrene | ND | 10 |
| Chlorodibromomethane | ND | 10 | 1,1,2,2-Tetrachloroethane | ND | 10 |
| Chloroethane | ND | 10 | Tetrachloroethene | ND | 10 |
| Chloroform ..... | 58 | 10 | Toluene | ND | 10 |
| Chloromethane | ND | 10 | 1,1,1-Trichloroethane | ND | 10 |
| 1,1-Dichloroethane | ND | 10 | 1,1,2-Trichloroethane | ND | 10 |
| 1,2-Dichloroethane | ND | 10 | Trichloroethene | ND | 10 |
| 1,1-Dichloroethene | ND | 10 | Vinyl Chloride | ND | [redacted] |
| 1,2-Dichloroethene (Total) | ND | 10 | Xylenes (Total) | ND | 10 |
| 1,2-Dichloropropane | ND | 10 | | | |

### SURROGATE RECOVERY

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 1,2-Dichloroethane,d4 | 76 - 114 | 104 |
| Toluene,d8 | 88 - 110 | 100 |
| Bromofluorobenzene | 86 - 115 | 94 |

### DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.

SAMPLE ID: FERB-2
Deionized Water

REPORT DATE: 10/18/95
EIS LAB NO: 29327

## CHLORINATED PESTICIDE COMPOUNDS

| | | |
|---|---|---|
| Analysis Method: 8081<br>Reporting Units: ppb | Abbreviations and report symbols are explained in DEFINITIONS below | Sample Dilution: None<br>EQL Multiplier: 1 |

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Aldrin | ND | 0.05 | Endrin | ND | 0.1 |
| BHC-Alpha | ND | 0.05 | Endrin Aldehyde | ND | 0.1 |
| BHC-Beta | ND | 0.05 | Endrin Ketone | ND | 0.1 |
| BHC-Delta | ND | 0.05 | Heptachlor | ND | 0.05 |
| BHC-Gamma(Lindane) | ND | 0.05 | Heptachlor Epoxide | ND | 0.05 |
| Chlordane-alpha | ND | 0.05 | Methoxychlor | ND | 0.5 |
| Chlordane-gamma | ND | 0.05 | Toxaphene | ND | 5.0 |
| 4,4'-DDD | ND | 0.1 | Aroclor - 1016 | ND | 1.0 |
| 4,4'-DDE | ND | 0.1 | Aroclor - 1221 | ND | 2.0 |
| 4,4'-DDT | ND | 0.1 | Aroclor - 1232 | ND | 1.0 |
| Dieldrin | ND | 0.1 | Aroclor - 1242 | ND | 1.0 |
| Endosulfan I | ND | 0.05 | Aroclor - 1248 | ND | 1.0 |
| Endosulfan II | ND | 0.1 | Aroclor - 1254 | ND | 1.0 |
| Endosulfan Sulfate | ND | 0.1 | Aroclor - 1260 | ND | 1.0 |

### SURROGATE RECOVERY

| Compound Name | Advisory QC Limits | % Recovery |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 30 - 150 | 74 |
| Decachlorobiphenyl | 30 - 150 | 107 |

### DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


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SAMPLE ID: FERB-2
Deionized Water

REPORT DATE: 10/18/95
EIS LAB NO: 29327

## SEMI-VOLATILE ORGANIC COMPOUNDS

Analysis Method: 8270
Reporting Units: ppb

Abbreviations and report symbols are explained on the following page

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acenaphthene | ND | 10 | Dimethylphthalate | ND | 10 |
| Acenaphthylene | ND | 10 | 2,4-Dinitrophenol | ND | 25 |
| Anthracene | ND | 10 | 2,6-Dinitrotoluene | ND | 10 |
| Benzo(a)anthracene | ND | 10 | 2,4-Dinitrotoluene | ND | 10 |
| Benzo(a)pyrene | ND | 10 | Fluoranthene | ND | 10 |
| Benzo(b)fluoranthene | ND | 10 | Fluorene | ND | 10 |
| Benzo(g,h,i)perylene | ND | 10 | Hexachlorobenzene | ND | 10 |
| Benzo(k)fluoranthene | ND | 10 | Hexachlorobutadiene | ND | 10 |
| Bis(2-chloroethoxy)methane | ND | 10 | Hexachlorocyclopentadiene | ND | 10 |
| Bis(2-chloroethyl)ether | ND | 10 | Hexachloroethane | ND | 10 |
| Bis(2-chloroisopropyl)ether | ND | 10 | Indeno(1,2,3-cd)pyrene | ND | 10 |
| Bis(2-ethylhexyl)phthalate | ND | 10 | Isophorone | ND | 10 |
| 4-Bromophenylphenylether | ND | 10 | 2-Methylnaphthalene | ND | 10 |
| Butylbenzylphthalate | ND | 10 | 2-Methylphenol | ND | 10 |
| Carbazole | ND | 10 | 4-Methylphenol | ND | [illegible] |
| 4-Chloro-3-methyl phenol | ND | 10 | 2-Methyl-4,6-dinitrophenol | ND | [illegible] |
| 4-Chloroaniline | ND | 10 | N-Nitrosodi-N-propylamine | ND | 10 |
| 2-Chloronaphthalene | ND | 10 | N-Nitrosodiphenylamine | ND | 10 |
| 2-Chlorophenol | ND | 10 | Naphthalene | ND | 10 |
| 4-Chlorophenylphenylether | ND | 10 | 2-Nitroaniline | ND | 25 |
| Chrysene | ND | 10 | 3-Nitroaniline | ND | 25 |
| Di-n-butylphthalate | ND | 10 | 4-Nitroaniline | ND | 25 |
| Di-n-octylphthalate | ND | 10 | Nitrobenzene | ND | 10 |
| Dibenzo(a,h)anthracene | ND | 10 | 2-Nitrophenol | ND | 10 |
| Dibenzofuran | ND | 10 | 4-Nitrophenol | ND | 25 |
| 1,2-Dichlorobenzene | ND | 10 | Pentachlorophenol | ND | 25 |
| 1,3-Dichlorobenzene | ND | 10 | Phenanthrene | ND | 10 |
| 1,4-Dichlorobenzene | ND | 10 | Phenol | ND | 10 |
| 3,3'-Dichlorobenzidine | ND | 10 | Pyrene | ND | 10 |
| 2,4-Dichlorophenol | ND | 10 | 1,2,4-Trichlorobenzene | ND | 10 |
| Diethylphthalate | ND | 10 | 2,4,5-Trichlorophenol | ND | 25 |
| 2,4-Dimethylphenol | ND | 10 | 2,4,6-Trichlorophenol | ND | 10 |



Recycled Paper

SAMPLE ID: FERB-2
Deionized Water

REPORT DATE: 10/18/95
EIS LAB NO: 29327

# SEMI-VOLATILE ORGANIC COMPOUNDS



SURROGATE RECOVERY (Method 8270)

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 2-Fluorophenol | 21 - 110 | 68 |
| Phenol,d5 | 10 - 110 | 43 |
| Nitrobenzene,d5 | 35 - 114 | 107 |
| 2-Fluorobiphenyl | 43 - 116 | 106 |
| 2,4,6-Tribromophenol | 10 - 123 | 201 |
| p-Terphenyl,d14 | 33 - 141 | 93 |

DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.
- * = The Surrogate Compounds have been diluted out.



Recycled Paper

# ANALYTICAL REPORT

Client:
R Lennie Scott, P.E.
Bayer Corporation
1884 Miles Avenue
Elkhart, Indiana 46514
219-262-7234

Report Date: 10-18-95
EIS Lab No: 29328
EIS Project No: 1210-8135-95
EIS Priority: 4
Client P.O.#:
Certification: Indiana Drinking Water Certificate No. C-71-02

Invoice To:
Client

**SAMPLE IDENTIFICATION**
Sample ID: TB-7B
Deionized Water
Date Sampled: 9-22-95
Date Received: 9-26-95

Report To: CLIENT

Extra Report To:

| PARAMETER | RESULT | TEST DATE | ANALYST |
|---|---|---|---|
| VOC | * | 09-28-95 | Myers,N |

* See Attached ORGANICS REPORT

**ADDITIONAL INFORMATION**

1. Chain-of-Custody document is enclosed.
2. Sample was iced upon receipt.
3. Sample container(s) were properly preserved per USEPA protocols.
4. This sample is a Trip Blank for day 7 from Team B.

QUALITY ASSURANCE OFFICER

LABORATORY DIRECTOR

SAMPLE ID: TB-7B
Deionized Water

REPORT DATE: 10/18/95
EIS LAB NO: 29328

## VOLATILE ORGANIC COMPOUNDS/PETROLEUM HYDROCARBONS

| Analysis Method: 8260 | Abbreviations and report symbols are explained on the following page | Sample Dilution: None |
|---|---|---|
| Reporting Units: ppb | | EQL Multiplier: 1 |

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acetone | ND | 10 | c-1,3-Dichloropropene | ND | 10 |
| Benzene | ND | 10 | t-1,3-Dichloropropene | ND | 10 |
| Bromodichloromethane | ND | 10 | Ethylbenzene | ND | 10 |
| Bromoform | ND | 10 | 2-Hexanone | ND | 10 |
| Bromomethane | ND | 10 | Methylene Chloride | ND | 10 |
| Carbon Disulfide | ND | 10 | Methyl Ethyl Ketone | ND | 10 |
| Carbon Tetrachloride | ND | 10 | Methyl Isobutyl Ketone | ND | 10 |
| Chlorobenzene | ND | 10 | Styrene | ND | 10 |
| Chlorodibromomethane | ND | 10 | 1,1,2,2-Tetrachloroethane | ND | 10 |
| Chloroethane | ND | 10 | Tetrachloroethene | ND | 10 |
| Chloroform | ND | 10 | Toluene | ND | 10 |
| Chloromethane | ND | 10 | 1,1,1-Trichloroethane | ND | 10 |
| 1,1-Dichloroethane | ND | 10 | 1,1,2-Trichloroethane | ND | 10 |
| 1,2-Dichloroethane | ND | 10 | Trichloroethene | ND | 10 |
| 1-Dichloroethene | ND | 10 | Vinyl Chloride | ND | 10 |
| ,2-Dichloroethane (Total) | ND | 10 | Xylenes (Total) | ND | 10 |
| 1,2-Dichloropropane | ND | 10 | | | |

SURROGATE RECOVERY

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 1,2-Dichloroethane,d4 | 76 - 114 | 101 |
| Toluene,d8 | 88 - 110 | 102 |
| Bromofluorobenzene | 86 - 115 | 95 |

DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.

# ANALYTICAL REPORT

Client:
R Lennie Scott, P.E.
Bayer Corporation
1884 Miles Avenue
Elkhart, Indiana 46514
219-262-7234

Report Date: 10-18-95
EIS Lab No: 29329
EIS Project No: 1210-8135-95
EIS Priority: 4
Client P.O.#:
Certification: Indiana Drinking Water Certificate No. C-71-02

Invoice To:
Client

**SAMPLE IDENTIFICATION**
Sample ID: WT 117 A
Monitoring Well
Date Sampled: 9-26-95
Date Received: 9-27-95

Report To: CLIENT

Extra Report To:

| PARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST |
|---|---|---|---|---|---|
| Cyanide,Total | mg/l | <0.01 | 0.01 | 10-05-95 | Shane,D |
| Aluminum,Total | mg/l | 5.34 | 0.2 | 10-17-95 | Clear,N |
| Antimony,Total | mg/l | <0.06 | 0.06 | 10-11-95 | Clear,N |
| Arsenic,Total | mg/l | <0.01 | 0.01 | 10-11-95 | Clear,N |
| Barium,Total | mg/l | <0.2 | 0.2 | 10-11-95 | Clear,N |
| Beryllium,Total | mg/l | <0.005 | 0.005 | 10-11-95 | Clear,N |
| Cadmium,Total | mg/l | <0.005 | 0.005 | 10-11-95 | Clear,N |
| Calcium,Total | mg/l | 51.1 | 5 | 10-16-95 | Clear,N |
| Chromium,Total | mg/l | <0.01 | 0.01 | 10-11-95 | Clear,N |
| Cobalt,Total | mg/l | <0.05 | 0.05 | 10-11-95 | Clear,N |
| Copper,Total | mg/l | <0.025 | 0.025 | 10-11-95 | Clear,N |
| Iron,Total | mg/l | 1.46 | 0.1 | 10-11-95 | Clear,N |
| Lead,Total | mg/l | 0.010 | 0.003 | 10-11-95 | Clear,N |
| Magnesium,Total | mg/l | 9.55 | 5 | 10-13-95 | Clear,N |
| Manganese,Total | mg/l | 0.193 | 0.015 | 10-11-95 | Clear,N |
| Mercury,Total | mg/l | <0.0002 | 0.0002 | 10-04-95 | Shane,D |
| Nickel,Total | mg/l | <0.04 | 0.04 | 10-11-95 | Clear,N |
| Potassium,Total | mg/l | <5.0 | 5.0 | 10-16-95 | Shane,D |

QUALITY ASSURANCE OFFICER

LABORATORY DIRECTOR



Recycled Paper

EIS ENVIRONMENTAL ENGINEERS, INC. • 1701 North Ironwood Drive • South Bend, Indiana 46635 • 219/277-5715

EIS Lab No: 29329(continued)

| PARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST |
|---|---|---|---|---|---|
| Selenium,Total | mg/l | <0.005 | 0.005 | 10-11-95 | Clear,N |
| Silver,Total | mg/l | <0.01 | 0.01 | 10-11-95 | Clear,N |
| Sodium,Total | mg/l | <5 | 5 | 10-13-95 | Clear,N |
| Thallium,Total | mg/l | <0.01 | 0.01 | 10-11-95 | Clear,N |
| Vanadium,Total | mg/l | <0.05 | 0.05 | 10-11-95 | Clear,N |
| Zinc,Total | mg/l | <0.02 | 0.02 | 10-11-95 | Clear,N |
| Pesticide/PCB | | * | | 10-10-95 | Clear,B |
| SVOC (BNA) | | * | | 10-06-95 | Geels,S |
| VOC | | * | | 09-28-95 | Myers,N |
| * See Attached ORGANICS REPORT | | | | | |
| Extract Pest/PCB | | | | 09-28-95 | Thompson,G |
| Extract SVOC (BNA) | | | | 09-29-95 | Thompson,G |
| Mercury Digestion | | | | 10-03-95 | Shane,D |
| Metals Digestion (ICP) | | | | 10-10-95 | Shane,D |

**ADDITIONAL INFORMATION**

1. Chain-of-Custody document is enclosed.
2. Reference Analytical Methods are enclosed.
3. Sample was iced upon receipt.
4. Sample container(s) were properly preserved per USEPA protocols.
5. < = Not Detected at the Detection Limit (DL) shown.
6. DL = Detection Limit and is adjusted for dilutions/concentrations.
7. Batch [organic] Quality Control data is enclosed. This data was generated at the time that this sample was analyzed but was performed on a different sample.



Recycled Paper

SAMPLE ID: WT 117 A
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29329

# VOLATILE ORGANIC COMPOUNDS/PETROLEUM HYDROCARBONS

| | | |
|---|---|---|
| Analysis Method: 8260<br>Reporting Units: ppb | Abbreviations and report symbols are explained on the following page | Sample Dilution: None<br>EQL Multiplier: 1 |

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acetone | ND | 10 | c-1,3-Dichloropropene | ND | 10 |
| Benzene | ND | 10 | t-1,3-Dichloropropene | ND | 10 |
| Bromodichloromethane | ND | 10 | Ethylbenzene | ND | 10 |
| Bromoform | ND | 10 | 2-Hexanone | ND | 10 |
| Bromomethane | ND | 10 | Methylene Chloride | ND | 10 |
| Carbon Disulfide | ND | 10 | Methyl Ethyl Ketone | ND | 10 |
| Carbon Tetrachloride | ND | 10 | Methyl Isobutyl Ketone | ND | 10 |
| Chlorobenzene | ND | 10 | Styrene | ND | 10 |
| Chlorodibromomethane | ND | 10 | 1,1,2,2-Tetrachloroethane | ND | 10 |
| Chloroethane | ND | 10 | Tetrachloroethene | ND | 10 |
| Chloroform | ND | 10 | Toluene | ND | 10 |
| Chloromethane | ND | 10 | 1,1,1-Trichloroethane | ND | 10 |
| 1,1-Dichloroethane | ND | 10 | 1,1,2-Trichloroethane | ND | 10 |
| 1,2-Dichloroethane | ND | 10 | Trichloroethene | ND | |
| 1,1-Dichloroethene | ND | 10 | Vinyl Chloride | ND | |
| 1,2-Dichloroethene (Total) | ND | 10 | Xylenes (Total) | ND | 10 |
| 1,2-Dichloropropane | ND | 10 | | | |

## SURROGATE RECOVERY

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 1,2-Dichloroethane,d4 | 76 - 114 | 97 |
| Toluene,d8 | 88 - 110 | 101 |
| Bromofluorobenzene | 86 - 115 | 95 |

## DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Paper

SAMPLE ID: MT 117 A
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29329

## CHLORINATED PESTICIDE COMPOUNDS

| | | |
|---|---|---|
| Analysis Method: 8081<br>Reporting Units: ppb | Abbreviations and report symbols are explained in DEFINITIONS below | Sample Dilution: None<br>EQL Multiplier: 1 |

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Aldrin | ND | 0.05 | Endrin | ND | 0.1 |
| BHC-Alpha | ND | 0.05 | Endrin Aldehyde | ND | 0.1 |
| BHC-Beta | ND | 0.05 | Endrin Ketone | ND | 0.1 |
| BHC-Delta | ND | 0.05 | Heptachlor | ND | 0.05 |
| BHC-Gamma (Lindane) | ND | 0.05 | Heptachlor Epoxide | ND | 0.05 |
| Chlordane-alpha | ND | 0.05 | Methoxychlor | ND | 0.5 |
| Chlordane-gamma | ND | 0.05 | Toxaphene | ND | 5.0 |
| 4,4'-DDD | ND | 0.1 | Aroclor - 1016 | ND | 1.0 |
| 4,4'-DDE | ND | 0.1 | Aroclor - 1221 | ND | 2.0 |
| 4,4'-DDT | ND | 0.1 | Aroclor - 1232 | ND | 1.0 |
| Dieldrin | ND | 0.1 | Aroclor - 1242 | ND | 1.0 |
| Endosulfan I | ND | 0.05 | Aroclor - 1248 | ND | 1.0 |
| Endosulfan II | ND | 0.1 | Aroclor - 1254 | ND | 1.0 |
| Endosulfan Sulfate | ND | 0.1 | Aroclor - 1260 | ND | 1.0 |

### SURROGATE RECOVERY

| Compound Name | Advisory QC Limits | % Recovery |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 30 - 150 | 69 |
| Decachlorobiphenyl | 30 - 150 | 78 |

### DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.



Recycled Paper

SAMPLE ID: WT 117 A
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29329

## SEMI-VOLATILE ORGANIC COMPOUNDS

Analysis Method: 8270
Reporting Units: ppb

Abbreviations and report symbols are explained on the following page

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acenaphthene | ND | 10 | Dimethylphthalate | ND | 10 |
| Acenaphthylene | ND | 10 | 2,4-Dinitrophenol | ND | 25 |
| Anthracene | ND | 10 | 2,6-Dinitrotoluene | ND | 10 |
| Benzo(a)anthracene | ND | 10 | 2,4-Dinitrotoluene | ND | 10 |
| Benzo(a)pyrene | ND | 10 | Fluoranthene | ND | 10 |
| Benzo(b)fluoranthene | ND | 10 | Fluorene | ND | 10 |
| Benzo(g,h,i)perylene | ND | 10 | Hexachlorobenzene | ND | 10 |
| Benzo(k)fluoranthene | ND | 10 | Hexachlorobutadiene | ND | 10 |
| Bis(2-chloroethoxy)methane | ND | 10 | Hexachlorocyclopentadiene | ND | 10 |
| Bis(2-chloroethyl)ether | ND | 10 | Hexachloroethane | ND | 10 |
| Bis(2-chloroisopropyl)ether | ND | 10 | Indeno(1,2,3-cd)pyrene | ND | 10 |
| Bis(2-ethylhexyl)phthalate | ND | 10 | Isophorone | ND | 10 |
| 4-Bromophenylphenylether | ND | 10 | 2-Methylnaphthalene | ND | 10 |
| Butylbenzylphthalate | ND | 10 | 2-Methylphenol | ND | |
| Carbazole | ND | 10 | 4-Methylphenol | ND | |
| 4-Chloro-3-methyl phenol | ND | 10 | 2-Methyl-4,6-dinitrophenol | ND | [illegible] |
| 4-Chloroaniline | ND | 10 | N-Nitrosodi-N-propylamine | ND | 10 |
| 2-Chloronaphthalene | ND | 10 | N-Nitrosodiphenylamine | ND | 10 |
| 2-Chlorophenol | ND | 10 | Naphthalene | ND | 10 |
| 4-Chlorophenylphenylether | ND | 10 | 2-Nitroaniline | ND | 25 |
| Chrysene | ND | 10 | 3-Nitroaniline | ND | 25 |
| Di-n-butylphthalate | ND | 10 | 4-Nitroaniline | ND | 25 |
| Di-n-octylphthalate | ND | 10 | Nitrobenzene | ND | 10 |
| Dibenzo(a,h)anthracene | ND | 10 | 2-Nitrophenol | ND | 10 |
| Dibenzofuran | ND | 10 | 4-Nitrophenol | ND | 25 |
| 1,2-Dichlorobenzene | ND | 10 | Pentachlorophenol | ND | 25 |
| 1,3-Dichlorobenzene | ND | 10 | Phenanthrene | ND | 10 |
| 1,4-Dichlorobenzene | ND | 10 | Phenol | ND | 10 |
| 3,3'-Dichlorobenzidine | ND | 10 | Pyrene | ND | 10 |
| 2,4-Dichlorophenol | ND | 10 | 1,2,4-Trichlorobenzene | ND | 10 |
| Diethylphthalate | ND | 10 | 2,4,5-Trichlorophenol | ND | 25 |
| 2,4-Dimethylphenol | ND | 10 | 2,4,6-Trichlorophenol | ND | 10 |


Recycled Paper

SAMPLE ID: WT 117 A
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29329

# SEMI-VOLATILE ORGANIC COMPOUNDS



SURROGATE RECOVERY (Method 8270)

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 2-Fluorophenol | 21 - 110 | 60 |
| Phenol,d5 | 10 - 110 | 37 |
| Nitrobenzene,d5 | 35 - 114 | 104 |
| 2-Fluorobiphenyl | 43 - 116 | 106 |
| 2,4,6-Tribromophenol | 10 - 123 | 153 |
| p-Terphenyl,d14 | 33 - 141 | 87 |

DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.
- * = The Surrogate Compounds have been diluted out.



Recycled Paper

# ANALYTICAL REPORT

Client:
R Lennie Scott, P.E.
Bayer Corporation
1884 Miles Avenue
Elkhart, Indiana 46514
219-262-7234

Report Date: 10-18-95
EIS Lab No: 29330
EIS Project No: 1210-8135-95
EIS Priority: 4
Client P.O.#:
Certification: Indiana Drinking Water Certificate No. C-71-02

Invoice To:
Client

**SAMPLE IDENTIFICATION**
Sample ID: WT 117 B
Monitoring Well
Date Sampled: 9-26-95
Date Received: 9-27-95

Report To: CLIENT

Extra Report To:

| PARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST |
|---|---|---|---|---|---|
| Cyanide,Total | mg/l | <0.01 | 0.01 | 10-05-95 | Shane,D |
| Aluminum,Total | mg/l | <0.2 | 0.2 | 10-11-95 | Clear,N |
| Antimony,Total | mg/l | <0.06 | 0.06 | 10-11-95 | Clear,N |
| Arsenic,Total | mg/l | <0.01 | 0.01 | 10-11-95 | Clear,N |
| Barium,Total | mg/l | <0.2 | 0.2 | 10-11-95 | Clear,N |
| Beryllium,Total | mg/l | <0.005 | 0.005 | 10-11-95 | Clear,N |
| Cadmium,Total | mg/l | <0.005 | 0.005 | 10-11-95 | Clear,N |
| Calcium,Total | mg/l | 110 | 5 | 10-16-95 | Clear,N |
| Chromium,Total | mg/l | <0.01 | 0.01 | 10-11-95 | Clear,N |
| Cobalt,Total | mg/l | <0.05 | 0.05 | 10-11-95 | Clear,N |
| Copper,Total | mg/l | <0.025 | 0.025 | 10-11-95 | Clear,N |
| Iron,Total | mg/l | 1.28 | 0.1 | 10-11-95 | Clear,N |
| Lead,Total | mg/l | 0.013 | 0.003 | 10-11-95 | Clear,N |
| Magnesium,Total | mg/l | 21.1 | 5 | 10-13-95 | Clear,N |
| Manganese,Total | mg/l | 0.050 | 0.015 | 10-11-95 | Clear,N |
| Mercury,Total | mg/l | <0.0002 | 0.0002 | 10-04-95 | Shane,D |
| Nickel,Total | mg/l | <0.04 | 0.04 | 10-11-95 | Clear,N |
| Potassium,Total | mg/l | <5.0 | 5.0 | 10-16-95 | Shane,D |

QUALITY ASSURANCE OFFICER

LABORATORY DIRECTOR



Recycled Paper

• South Bend, Indiana 46635 • 219/277-5715

EIS Lab No: 29330(continued)

| ARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST |
|---|---|---|---|---|---|
| Selenium,Total | mg/l | <0.005 | 0.005 | 10-11-95 | Clear,N |
| Silver,Total | mg/l | <0.01 | 0.01 | 10-11-95 | Clear,N |
| Sodium,Total | mg/l | 12.1 | 5 | 10-13-95 | Clear,N |
| Thallium,Total | mg/l | <0.01 | 0.01 | 10-11-95 | Clear,N |
| Vanadium,Total | mg/l | <0.05 | 0.05 | 10-11-95 | Clear,N |
| Zinc,Total | mg/l | <0.02 | 0.02 | 10-11-95 | Clear,N |
| Pesticide/PCB | | * | | 10-10-95 | Clear,B |
| SVOC (BNA) | | * | | 10-06-95 | Geels,S |
| VOC | | * | | 09-28-95 | Myers,N |

* See Attached ORGANICS REPORT

| | | |
|---|---|---|
| Extract Pest/PCB | 09-28-95 | Thompson,G |
| Extract SVOC (BNA) | 09-29-95 | Thompson,G |
| Mercury Digestion | 10-03-95 | Shane,D |
| Metals Digestion (ICP) | 10-10-95 | Shane,D |

ADDITIONAL INFORMATION

1. Chain-of-Custody document is enclosed.
2. Reference Analytical Methods are enclosed.
3. Sample was iced upon receipt.
   Sample container(s) were properly preserved per USEPA protocols.
4. < = Not Detected at the Detection Limit (DL) shown.
5. DL = Detection Limit and is adjusted for dilutions/concentrations.
6. Batch [organic] Quality Control data is enclosed. This data was generated at the time that this sample was analyzed but was performed on a different sample.



Recycled Paper

SAMPLE ID: WT 117 B
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29330

## VOLATILE ORGANIC COMPOUNDS/PETROLEUM HYDROCARBONS

| | | |
|---|---|---|
| Analysis Method: 8260<br>Reporting Units: ppb | Abbreviations and report symbols are explained on the following page | Sample Dilution: None<br>EQL Multiplier: 1 |

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acetone | ND | 10 | c-1,3-Dichloropropene | ND | 10 |
| Benzene | ND | 10 | t-1,3-Dichloropropene | ND | 10 |
| Bromodichloromethane | ND | 10 | Ethylbenzene | ND | 10 |
| Bromoform | ND | 10 | 2-Hexanone | ND | 10 |
| Bromomethane | ND | 10 | Methylene Chloride | ND | 10 |
| Carbon Disulfide | ND | 10 | Methyl Ethyl Ketone | ND | 10 |
| Carbon Tetrachloride | ND | 10 | Methyl Isobutyl Ketone | ND | 10 |
| Chlorobenzene | ND | 10 | Styrene | ND | 10 |
| Chlorodibromomethane | ND | 10 | 1,1,2,2-Tetrachloroethane | ND | 10 |
| Chloroethane | ND | 10 | Tetrachloroethene | ND | 10 |
| Chloroform | ND | 10 | Toluene | ND | 10 |
| Chloromethane | ND | 10 | 1,1,1-Trichloroethane | ND | 10 |
| 1,1-Dichloroethane | ND | 10 | 1,1,2-Trichloroethane | ND | 10 |
| 1,2-Dichloroethane | ND | 10 | Trichloroethene | ND | 10 |
| 1,1-Dichloroethene | ND | 10 | Vinyl Chloride | ND | 10 |
| 1,2-Dichloroethane (Total) | ND | 10 | Xylenes (Total) | ND | 10 |
| 1,2-Dichloropropane | ND | 10 | | | |

SURROGATE RECOVERY

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 1,2-Dichloroethane,d4 | 76 - 114 | 99 |
| Toluene,d8 | 88 - 110 | 98 |
| Bromofluorobenzene | 86 - 115 | 96 |

DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.



Recycled Paper

SAMPLE ID: WT 117 B
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29330

## CHLORINATED PESTICIDE COMPOUNDS

| | | |
|---|---|---|
| Analysis Method: 8081<br>Reporting Units: ppb | Abbreviations and report symbols are explained in DEFINITIONS below | Sample Dilution: None<br>EQL Multiplier: 1 |

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Aldrin | ND | 0.05 | Endrin | ND | 0.1 |
| BHC-Alpha | ND | 0.05 | Endrin Aldehyde | ND | 0.1 |
| BHC-Beta | ND | 0.05 | Endrin Ketone | ND | 0.1 |
| BHC-Delta | ND | 0.05 | Heptachlor | ND | 0.05 |
| BHC-Gamma (Lindane) | ND | 0.05 | Heptachlor Epoxide | ND | 0.05 |
| Chlordane-alpha | ND | 0.05 | Methoxychlor | ND | 0.5 |
| Chlordane-gamma | ND | 0.05 | Toxaphene | ND | 5.0 |
| 4,4'-DDD | ND | 0.1 | Aroclor - 1016 | ND | 1.0 |
| 4,4'-DDE | ND | 0.1 | Aroclor - 1221 | ND | 2.0 |
| 4,4'-DDT | ND | 0.1 | Aroclor - 1232 | ND | 1.0 |
| Dieldrin | ND | 0.1 | Aroclor - 1242 | ND | 1.0 |
| Endosulfan I | ND | 0.05 | Aroclor - 1248 | ND | 1.0 |
| Endosulfan II | ND | 0.1 | Aroclor - 1254 | ND | 1.0 |
| Endosulfan Sulfate | ND | 0.1 | Aroclor - 1260 | ND | 1.0 |

### SURROGATE RECOVERY

| Compound Name | Advisory QC Limits | % Recovery |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 30 - 150 | 86 |
| Decachlorobiphenyl | 30 - 150 | 89 |

### DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

SAMPLE ID: WT 117 B
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29330

## SEMI-VOLATILE ORGANIC COMPOUNDS

Analysis Method: 8270
Reporting Units: ppb

Abbreviations and report symbols are explained on the following page

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acenaphthene | ND | 10 | Dimethylphthalate | ND | 10 |
| Acenaphthylene | ND | 10 | 2,4-Dinitrophenol | ND | 25 |
| Anthracene | ND | 10 | 2,6-Dinitrotoluene | ND | 10 |
| Benzo(a)anthracene | ND | 10 | 2,4-Dinitrotoluene | ND | 10 |
| Benzo(a)pyrene | ND | 10 | Fluoranthene | ND | 10 |
| Benzo(b)fluoranthene | ND | 10 | Fluorene | ND | 10 |
| Benzo(g,h,i)perylene | ND | 10 | Hexachlorobenzene | ND | 10 |
| Benzo(k)fluoranthene | ND | 10 | Hexachlorobutadiene | ND | 10 |
| Bis(2-chloroethoxy)methane | ND | 10 | Hexachlorocyclopentadiene | ND | 10 |
| Bis(2-chloroethyl)ether | ND | 10 | Hexachloroethane | ND | 10 |
| Bis(2-chloroisopropyl)ether | ND | 10 | Indeno(1,2,3-cd)pyrene | ND | 10 |
| Bis(2-ethylhexyl)phthalate | ND | 10 | Isophorone | ND | 10 |
| 4-Bromophenylphenylether | ND | 10 | 2-Methylnaphthalene | ND | 10 |
| Butylbenzylphthalate | ND | 10 | 2-Methylphenol | ND | 10 |
| Carbazole | ND | 10 | 4-Methylphenol | ND | [redacted] |
| 4-Chloro-3-methyl phenol | ND | 10 | 2-Methyl-4,6-dinitrophenol | ND | [redacted] |
| 4-Chloroaniline | ND | 10 | N-Nitrosodi-N-propylamine | ND | 10 |
| 2-Chloronaphthalene | ND | 10 | N-Nitrosodiphenylamine | ND | 10 |
| 2-Chlorophenol | ND | 10 | Naphthalene | ND | 10 |
| 4-Chlorophenylphenylether | ND | 10 | 2-Nitroaniline | ND | 25 |
| Chrysene | ND | 10 | 3-Nitroaniline | ND | 25 |
| Di-n-butylphthalate | ND | 10 | 4-Nitroaniline | ND | 25 |
| Di-n-octylphthalate | ND | 10 | Nitrobenzene | ND | 10 |
| Dibenzo(a,h)anthracene | ND | 10 | 2-Nitrophenol | ND | 10 |
| Dibenzofuran | ND | 10 | 4-Nitrophenol | ND | 25 |
| 1,2-Dichlorobenzene | ND | 10 | Pentachlorophenol | ND | 25 |
| 1,3-Dichlorobenzene | ND | 10 | Phenanthrene | ND | 10 |
| 1,4-Dichlorobenzene | ND | 10 | Phenol | ND | 10 |
| 3,3'-Dichlorobenzidine | ND | 10 | Pyrene | ND | 10 |
| 2,4-Dichlorophenol | ND | 10 | 1,2,4-Trichlorobenzene | ND | 10 |
| Diethylphthalate | ND | 10 | 2,4,5-Trichlorophenol | ND | 25 |
| 2,4-Dimethylphenol | ND | 10 | 2,4,6-Trichlorophenol | ND | 10 |


Recycled Paper

SAMPLE ID: WT 117 B
Monitoring Well

REPORT DATE: 10/18/95
EIS LAB NO: 29330

## SEMI-VOLATILE ORGANIC COMPOUNDS



SURROGATE RECOVERY (Method 8270)

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 2-Fluorophenol | 21 - 110 | 66 |
| Phenol,d5 | 10 - 110 | 42 |
| Nitrobenzene,d5 | 35 - 114 | 105 |
| 2-Fluorobiphenyl | 43 - 116 | 106 |
| 2,4,6-Tribromophenol | 10 - 123 | 184 |
| p-Terphenyl,d14 | 33 - 141 | 87 |

DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.
- * = The Surrogate Compounds have been diluted out.



Recycled Paper

# ANALYTICAL REPORT

Client:
R Lennie Scott, P.E.
Bayer Corporation
1884 Miles Avenue
Elkhart, Indiana 46514
219-262-7234

Report Date: 10-18-95
EIS Lab No: 29331
EIS Project No: 1210-8135-95
EIS Priority: 4
Client P.O.#:
Certification: Indiana Drinking Water Certificate No. C-71-02

Invoice To:
Client

**SAMPLE IDENTIFICATION**
Sample ID: FERB-1
Deionized Water
Date Sampled: 9-26-95
Date Received: 9-27-95

Report To: CLIENT

Extra Report To:

| PARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST |
|---|---|---|---|---|---|
| Cyanide,Total | mg/l | <0.01 | 0.01 | 10-05-95 | Shane,D |
| Aluminum,Total | mg/l | <0.2 | 0.2 | 10-11-95 | Clear,N |
| Antimony,Total | mg/l | <0.06 | 0.06 | 10-11-95 | Clear,N |
| Arsenic,Total | mg/l | <0.01 | 0.01 | 10-11-95 | Clear,N |
| Barium,Total | mg/l | <0.2 | 0.2 | 10-11-95 | Clear,N |
| Beryllium,Total | mg/l | <0.005 | 0.005 | 10-11-95 | Clear,N |
| Cadmium,Total | mg/l | <0.005 | 0.005 | 10-11-95 | Clear,N |
| Calcium,Total | mg/l | <5 | 5 | 10-13-95 | Clear,N |
| Chromium,Total | mg/l | <0.01 | 0.01 | 10-11-95 | Clear,N |
| Cobalt,Total | mg/l | <0.05 | 0.05 | 10-11-95 | Clear,N |
| Copper,Total | mg/l | <0.025 | 0.025 | 10-11-95 | Clear,N |
| Iron,Total | mg/l | <0.1 | 0.1 | 10-11-95 | Clear,N |
| Lead,Total | mg/l | <0.003 | 0.003 | 10-11-95 | Clear,N |
| Magnesium,Total | mg/l | <5 | 5 | 10-13-95 | Clear,N |
| Manganese,Total | mg/l | <0.015 | 0.015 | 10-11-95 | Clear,N |
| Mercury,Total | mg/l | <0.0002 | 0.0002 | 10-04-95 | Shane,D |
| Nickel,Total | mg/l | <0.04 | 0.04 | 10-11-95 | Clear,N |
| Potassium,Total | mg/l | <5.0 | 5.0 | 10-16-95 | Shane,D |

QUALITY ASSURANCE OFFICER

LABORATORY DIRECTOR



Recycled Paper

wood Drive • South Bend, Indiana 46635 • 219/277-5715

EIS Lab No: 29331(continued)

| ARAMETER | UNITS | RESULT | DL | TEST DATE | ANALYST |
|---|---|---|---|---|---|
| Selenium,Total | mg/l | <0.005 | 0.005 | 10-11-95 | Clear,N |
| Silver,Total | mg/l | <0.01 | 0.01 | 10-11-95 | Clear,N |
| Sodium,Total | mg/l | <5 | 5 | 10-13-95 | Clear,N |
| Thallium,Total | mg/l | <0.01 | 0.01 | 10-11-95 | Clear,N |
| Vanadium,Total | mg/l | <0.05 | 0.05 | 10-11-95 | Clear,N |
| Zinc,Total | mg/l | <0.02 | 0.02 | 10-11-95 | Clear,N |
| Pesticide/PCB | | * | | 10-10-95 | Clear,B |
| SVOC (BNA) | | * | | 10-06-95 | Geels,S |
| VOC | | * | | 09-28-95 | Myers,N |
| * See Attached ORGANICS REPORT | | | | | |
| Extract Pest/PCB | | | | 09-28-95 | Thompson,G |
| Extract SVOC (BNA) | | | | 09-29-95 | Thompson,G |
| Mercury Digestion | | | | 10-03-95 | Shane,D |
| Metals Digestion (ICP) | | | | 10-10-95 | Shane,D |

ADDITIONAL INFORMATION

1. Chain-of-Custody document is enclosed.
2. Reference Analytical Methods are enclosed.
3. Sample was iced upon receipt.
4. Sample container(s) were properly preserved per USEPA protocols.
5. < = Not Detected at the Detection Limit (DL) shown.
6. DL = Detection Limit and is adjusted for dilutions/concentrations.
7. Batch [organic] Quality Control data is enclosed. This data was generated at the time that this sample was analyzed but was performed on a different sample.
8. This sample is a Field Equipment Rinse Blank.



Recycled Paper

SAMPLE ID: FERB-1
Deionized Water

REPORT DATE: 10/18/95
EIS LAB NO: 29331

# VOLATILE ORGANIC COMPOUNDS/PETROLEUM HYDROCARBONS

| | | |
|---|---|---|
| Analysis Method: 8260<br>Reporting Units: ppb | Abbreviations and report symbols are explained on the following page | Sample Dilution: None<br>EQL Multiplier: 1 |

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acetone | ND | 10 | c-1,3-Dichloropropene | ND | 10 |
| Benzene | ND | 10 | t-1,3-Dichloropropene | ND | 10 |
| Bromodichloromethane | ND | 10 | Ethylbenzene | ND | 10 |
| Bromoform | ND | 10 | 2-Hexanone | ND | 10 |
| Bromomethane | ND | 10 | Methylene Chloride | ND | 10 |
| Carbon Disulfide | ND | 10 | Methyl Ethyl Ketone | ND | 10 |
| Carbon Tetrachloride | ND | 10 | Methyl Isobutyl Ketone | ND | 10 |
| Chlorobenzene | ND | 10 | Styrene | ND | 10 |
| Chlorodibromomethane | ND | 10 | 1,1,2,2-Tetrachloroethane | ND | 10 |
| Chloroethane | ND | 10 | Tetrachloroethene | ND | 10 |
| Chloroform ..... | 15 | 10 | Toluene | ND | 10 |
| Chloromethane | ND | 10 | 1,1,1-Trichloroethane | ND | 10 |
| 1,1-Dichloroethane | ND | 10 | 1,1,2-Trichloroethane | ND | 10 |
| 1,2-Dichloroethane | ND | 10 | Trichloroethene | ND | |
| 1,1-Dichloroethene | ND | 10 | Vinyl Chloride | ND | |
| 1,2-Dichloroethene (Total) | ND | 10 | Xylenes (Total) | ND | |
| 1,2-Dichloropropane | ND | 10 | | | |

## SURROGATE RECOVERY

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 1,2-Dichloroethane,d4 | 76 - 114 | 102 |
| Toluene,d8 | 88 - 110 | 102 |
| Bromofluorobenzene | 86 - 115 | 95 |

## DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.



Recycled Paper

SAMPLE ID: FERB-1
Deionized Water

REPORT DATE: 10/18/95
EIS LAB NO: 29331

## CHLORINATED PESTICIDE COMPOUNDS

Analysis Method: 8081
Reporting Units: ppb

Abbreviations and report symbols are explained in DEFINITIONS below

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Aldrin | ND | 0.05 | Endrin | ND | 0.1 |
| BHC-Alpha | ND | 0.05 | Endrin Aldehyde | ND | 0.1 |
| BHC-Beta | ND | 0.05 | Endrin Ketone | ND | 0.1 |
| BHC-Delta | ND | 0.05 | Heptachlor | ND | 0.05 |
| BHC-Gamma(Lindane) | ND | 0.05 | Heptachlor Epoxide | ND | 0.05 |
| Chlordane-alpha | ND | 0.05 | Methoxychlor | ND | 0.5 |
| Chlordane-gamma | ND | 0.05 | Toxaphene | ND | 5.0 |
| 4,4'-DDD | ND | 0.1 | Aroclor - 1016 | ND | 1.0 |
| 4,4'-DDE | ND | 0.1 | Aroclor - 1221 | ND | 2.0 |
| 4,4'-DDT | ND | 0.1 | Aroclor - 1232 | ND | 1.0 |
| Dieldrin | ND | 0.1 | Aroclor - 1242 | ND | 1.0 |
| Endosulfan I | ND | 0.05 | Aroclor - 1248 | ND | 1.0 |
| Endosulfan II | ND | 0.1 | Aroclor - 1254 | ND | 1.0 |
| Endosulfan Sulfate | ND | 0.1 | Aroclor - 1260 | ND | 1.0 |

### SURROGATE RECOVERY

| Compound Name | Advisory QC Limits | % Recovery |
|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 30 - 150 | 86 |
| Decachlorobiphenyl | 30 - 150 | 112 |

### DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

SAMPLE ID: FERB-1
Deionized Water

REPORT DATE: 10/18/95
EIS LAB NO: 29331

## SEMI-VOLATILE ORGANIC COMPOUNDS

Analysis Method: 8270
Reporting Units: ppb

Abbreviations and report symbols are explained on the following page

Sample Dilution: None
EQL Multiplier: 1

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acenaphthene | ND | 10 | Dimethylphthalate | ND | 10 |
| Acenaphthylene | ND | 10 | 2,4-Dinitrophenol | ND | 25 |
| Anthracene | ND | 10 | 2,6-Dinitrotoluene | ND | 10 |
| Benzo(a)anthracene | ND | 10 | 2,4-Dinitrotoluene | ND | 10 |
| Benzo(a)pyrene | ND | 10 | Fluoranthene | ND | 10 |
| Benzo(b)fluoranthene | ND | 10 | Fluorene | ND | 10 |
| Benzo(g,h,i)perylene | ND | 10 | Hexachlorobenzene | ND | 10 |
| Benzo(k)fluoranthene | ND | 10 | Hexachlorobutadiene | ND | 10 |
| Bis(2-chloroethoxy)methane | ND | 10 | Hexachlorocyclopentadiene | ND | 10 |
| Bis(2-chloroethyl)ether | ND | 10 | Hexachloroethane | ND | 10 |
| Bis(2-chloroisopropyl)ether | ND | 10 | Indeno(1,2,3-cd)pyrene | ND | 10 |
| Bis(2-ethylhexyl)phthalate | ND | 10 | Isophorone | ND | 10 |
| 4-Bromophenylphenylether | ND | 10 | 2-Methylnaphthalene | ND | 10 |
| Butylbenzylphthalate | ND | 10 | 2-Methylphenol | ND | 10 |
| Carbazole | ND | 10 | 4-Methylphenol | ND | [illegible] |
| 4-Chloro-3-methyl phenol | ND | 10 | 2-Methyl-4,6-dinitrophenol | ND | 25 |
| 4-Chloroaniline | ND | 10 | N-Nitrosodi-N-propylamine | ND | 10 |
| 2-Chloronaphthalene | ND | 10 | N-Nitrosodiphenylamine | ND | 10 |
| 2-Chlorophenol | ND | 10 | Naphthalene | ND | 10 |
| 4-Chlorophenylphenylether | ND | 10 | 2-Nitroaniline | ND | 25 |
| Chrysene | ND | 10 | 3-Nitroaniline | ND | 25 |
| Di-n-butylphthalate | ND | 10 | 4-Nitroaniline | ND | 25 |
| Di-n-octylphthalate | ND | 10 | Nitrobenzene | ND | 10 |
| Dibenzo(a,h)anthracene | ND | 10 | 2-Nitrophenol | ND | 10 |
| Dibenzofuran | ND | 10 | 4-Nitrophenol | ND | 25 |
| 1,2-Dichlorobenzene | ND | 10 | Pentachlorophenol | ND | 25 |
| 1,3-Dichlorobenzene | ND | 10 | Phenanthrene | ND | 10 |
| 1,4-Dichlorobenzene | ND | 10 | Phenol | ND | 10 |
| 3,3'-Dichlorobenzidine | ND | 10 | Pyrene | ND | 10 |
| 2,4-Dichlorophenol | ND | 10 | 1,2,4-Trichlorobenzene | ND | 10 |
| Diethylphthalate | ND | 10 | 2,4,5-Trichlorophenol | ND | 25 |
| 2,4-Dimethylphenol | ND | 10 | 2,4,6-Trichlorophenol | ND | 10 |


Recycled Paper

SAMPLE ID: FERB-1
Deionized Water

REPORT DATE: 10/18/95
EIS LAB NO: 29331

## SEMI-VOLATILE ORGANIC COMPOUNDS



SURROGATE RECOVERY (Method 8270)

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 2-Fluorophenol | 21 - 110 | 64 |
| Phenol,d5 | 10 - 110 | 41 |
| Nitrobenzene,d5 | 35 - 114 | 100 |
| 2-Fluorobiphenyl | 43 - 116 | 100 |
| 2,4,6-Tribromophenol | 10 - 123 | 177 |
| p-Terphenyl,d14 | 33 - 141 | 79 |

DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.
- * = The Surrogate Compounds have been diluted out.



Recycled Paper

# ANALYTICAL REPORT

Client:
R Lennie Scott, P.E.
Bayer Corporation
1884 Miles Avenue
Elkhart, Indiana 46514
219-262-7234

Report Date: 10-18-95
EIS Lab No: 29332
EIS Project No: 1210-8135-95
EIS Priority: 4
Client P.O.#:
Certification: Indiana Drinking Water Certificate No. C-71-02

Invoice To:
Client

**SAMPLE IDENTIFICATION**
Sample ID: TB-7A
Deionized Water
Date Sampled: 9-22-95
Date Received: 9-27-95

Report To: CLIENT

Extra Report To:

| PARAMETER | RESULT | TEST DATE | ANALYST |
|---|---|---|---|
| VOC | * | 09-28-95 | Myers,N |

* See Attached ORGANICS REPORT

**ADDITIONAL INFORMATION**

1. Chain-of-Custody document is enclosed.
2. Sample was iced upon receipt.
3. Sample container(s) were properly preserved per USEPA protocols.
4. This sample is a Trip Blank for day 7 from Team A.

QUALITY ASSURANCE OFFICER

LABORATORY DIRECTOR

SAMPLE ID: TB-7A
Deionized Water

REPORT DATE: 10/18/95
EIS LAB NO: 29332

## VOLATILE ORGANIC COMPOUNDS/PETROLEUM HYDROCARBONS

| | | |
|---|---|---|
| Analysis Method: 8260<br>Reporting Units: ppb | Abbreviations and report symbols are explained on the following page | Sample Dilution: None<br>EQL Multiplier: 1 |

| COMPOUND NAME | RESULT | EQL | COMPOUND NAME | RESULT | EQL |
|---|---|---|---|---|---|
| Acetone | ND | 10 | c-1,3-Dichloropropene | ND | 10 |
| Benzene | ND | 10 | t-1,3-Dichloropropene | ND | 10 |
| Bromodichloromethane | ND | 10 | Ethylbenzene | ND | 10 |
| Bromoform | ND | 10 | 2-Hexanone | ND | 10 |
| Bromomethane | ND | 10 | Methylene Chloride | ND | 10 |
| Carbon Disulfide | ND | 10 | Methyl Ethyl Ketone | ND | 10 |
| Carbon Tetrachloride | ND | 10 | Methyl Isobutyl Ketone | ND | 10 |
| Chlorobenzene | ND | 10 | Styrene | ND | 10 |
| Chlorodibromomethane | ND | 10 | 1,1,2,2-Tetrachloroethane | ND | 10 |
| Chloroethane | ND | 10 | Tetrachloroethene | ND | 10 |
| Chloroform | ND | 10 | Toluene | ND | 10 |
| Chloromethane | ND | 10 | 1,1,1-Trichloroethane | ND | 10 |
| 1,1-Dichloroethane | ND | 10 | 1,1,2-Trichloroethane | ND | 10 |
| 1,2-Dichloroethane | ND | 10 | Trichloroethene | ND | 10 |
| 1-Dichloroethene | ND | 10 | Vinyl Chloride | ND | 10 |
| ,2-Dichloroethene (Total) | ND | 10 | Xylenes (Total) | ND | 10 |
| 1,2-Dichloropropane | ND | 10 | | | |

### SURROGATE RECOVERY

| Compound Name | QC Limits | % Recovery |
|---|---|---|
| 1,2-Dichloroethane,d4 | 76 - 114 | 98 |
| Toluene,d8 | 88 - 110 | 102 |
| Bromofluorobenzene | 86 - 115 | 100 |

### DEFINITIONS

- ppb = Parts per billion = micrograms per liter (µg/l)
- ND = Not Detected
- EQL = Estimated Quantitation Limit (in Reporting Units) and is the "Detection Limit" for samples not requiring dilutions. [If a sample requires a dilution, the EQL shown must be multiplied by the inverse of the dilution factor (EQL Multiplier)]. EIS reports do not list the adjusted EQL values.


Recycled Paper

## QUALITY CONTROL LIMITS
### GENERAL CHEMISTRIES/HEAVY METALS
### LABORATORY REPLICATE AND MATRIX SPIKE ANALYSIS

| Parameter/Test Group | Laboratory Replicate (% RSD) | Matrix Spike/Duplicate Spike % R | % RPD |
|---|---|---|---|
| COD | 20 | - | - |
| Cyanide, Sulfide | 15 | 75 - 125 | 20 |
| Inorganics - Group 1<br>Alkalinity, Ammonia, Chloride<br>Fluoride, Hardness, Hex Chrome,<br>Nitrate, Nitrate + Nitrite, Nitrite,<br>Phenols, Silica, Sulfate | 15 | 80 - 120 | 20 |
| Inorganics - Group 2<br>BOD, Dissolved Solids, Oil & Grease,<br>pH, Specific Conductance,<br>Suspended Solids, Total Solids | 15 | - | - |
| Metals (except Mercury) | 15 | 80 - 120 | 20 |
| Mercury | 15 | 75 - 125 | 20 |
| TKN, Phosphorus | 20 | 80 - 120 | 25 |
| TOH | 20 | 75 - 125 | 25 |

Notes:

1. The limits above are employed for water and solid matrices.
2. % RSD is based on concentrations. % RPD is based on % Recovery.
3. The % RSD limits apply to parameters/test groups where the measured concentration is $\geq$ 5X Detection Limit. If the measured concentration is < 5X Detection Limit, the % RSD limit is 47% for all tests.
4. For MS/DMS, if the (Spike + Sample) yield concentrations <5X Detection Limit, the % RPD QC Limit = 67. The individual % R values should conform to the QC limits shown above.



Recycled Paper

# APPENDIX B
# CHAIN-OF-CUSTODY RECORDS

# CHAIN OF STODY RECORD

| CLIENT NO. | PROJECT NO. | PROJECT NAME |
|---|---|---|
| 1210 | 8135-95 | Bryan |

SAMPLERS: (SIGNATURE) [signature]

SEE REVERSE SIDE FOR INSTRUCTIONS

EIS LAB USE ONLY

| DATE AND TIME OF COMPOSITE | DATE AND TIME OF GRAB | PRIMARY SAMPLE DESCRIPTION | NO. OF CONTAINERS | ANALYSIS OR CONTAINER TYPES: 40ml Vial H/HCl | REMARKS | EIS LAB NO. | SAMPLE STATE | TEMP COOLER BLANK |
|---|---|---|---|---|---|---|---|---|
| | 0630 9-15-95 | Trip Blank = (TB-1A) SRS | 1 ~~2~~ | 1 G | | 29115 | 1/c | |
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| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: | RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
|---|---|---|---|---|---|---|---|
| [signature] | 9/15/95 | 0640 | Cooler containing samples locked in Van | Cooler containing samples locked in Van | 9/18/95 | 6:30 Am | [signature] |
| [signature] | 9/18/95 | 1840 | EIS secure walkin cooler | EIS Secure walkin Cooler | 9-19-95 | 1100 | Colleen Wright |

SAMPLE STATE: C = COLD, N = NOT COLD, I = INTACT, B = BROKEN

MODE OF TRANSPORTATION

EIS VEHICLE #: Chevy Van

PUBLIC

FIELD NOTES: * This tripblank is designated TB-1A (TB = TripBlank, 1 = Day 1, A = Sample team "A") SRS

SHIPPING CHARGE

EIS ENVIRONMENTAL ENGINEERS, INC. 1701 N. IRONWOOD DR. SOUTH BEND, IN 46635 (219) 277-5715

# CHAIN OF STODY RECORD

| CLIENT NO. | PROJECT NO. | PROJECT NAME |
|---|---|---|
| 1210 | 813595 | Bayer |

SAMPLERS: (SIGNATURE) Steven D Pearson Carolyn Schwefel, Scott Schneider (USACE).

SEE REVERSE SIDE FOR INSTRUCTIONS

EIS LAB USE ONLY

| DATE AND TIME OF COMPOSITE | DATE AND TIME OF GRAB | PRIMARY SAMPLE DESCRIPTION | NO. OF CONTAINERS | 40cc Vial 1+1 HCL | Glass (A) | $HNO_3$, Plastic | NaOH, Plastic | | | | | | Cooler 2A (VOC-cooler 1A) | REMARKS | EIS LAB NO. | SAMPLE STATE | TEMP COOLER BLANK |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 9-19-95 9:50 | WT112A+ms/Dms | 14 | 4 6 | 6 6 | 2 6 | 2 6 | | | | | | ✓ | ms/Dms for this set. | 29148 | 1/C | |
| | | - End of Record - | | | | | | | | | | | | | | | |

| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: | RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
|---|---|---|---|---|---|---|---|
| Steven D Pearson | 9/19/95 | 1045 | J.C. [signature] | J.C. [signature] | 9/19/95 | 1845 | Secure EIS Walkin Cooler |
| Secure EIS Walkin Cooler | 9/20/95 | 1115 | [signature] | | | | |

SAMPLE STATE: C = COLD, N = NOT COLD, I = INTACT, B = BROKEN

MODE OF TRANSPORTATION

EIS VEHICLE #: Chevy Van

PUBLIC

FIELD NOTES: Project regarding the Himco landfill area.

SHIPPING CHARGE

EIS ENVIRONMENTAL ENGINEERS, INC. 1701 N. IRONWOOD DR. SOUTH BEND, IN 46635 (219) 277-5715

# CHAIN OF CUSTODY RECORD

| CLIENT NO. | PROJECT NO. | PROJECT NAME |
|---|---|---|
| 1210 | 813595 | Bayer |

SAMPLERS: (SIGNATURE) USACE: Scott Schmidt, Michelle Brenak

SEE REVERSE SIDE FOR INSTRUCTIONS

| DATE AND TIME OF COMPOSITE | DATE AND TIME OF GRAB | PRIMARY SAMPLE DESCRIPTION | NO. OF CONTAINERS | 40cc Vial 1:1 HCL | Glass (A) | $HNO_3$, Plastic | NaOH, Plastic | | | | | | Cooler 3A (Vac cooler 1A) | REMARKS | EIS LAB USE ONLY: EIS LAB NO. | SAMPLE STATE | TEMP COOLER BLANK |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 9-19-95 16:10 | WT112B | 7 | 2 G | 3 G | 1 G | 1 G | | | | | | ✓ | Monitoring well Groundwater. | 29149 | VC | |
| | | — End of Record — | | | | | | | | | | | | | | | |

| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: | RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
|---|---|---|---|---|---|---|---|
| Scott Schmidt | 9/19/95 | 16:27 pm | [signature] | [signature] | 9-19-95 | 1845 | Secure EIS Walkin Cooler |
| Secure EIS Walkin Cooler | 9/20/95 | 1115 | [signature] | | | | |

SAMPLE STATE: C = COLD, N = NOT COLD, I = INTACT, B = BROKEN

MODE OF TRANSPORTATION

EIS VEHICLE #: Chevy Van

PUBLIC

FIELD NOTES: Project regarding the Himco landfill area.

SHIPPING CHARGE

EIS ENVIRONMENTAL ENGINEERS, INC. 1701 N. IRONWOOD DR. SOUTH BEND, IN 46635 (219) 277-5715

# CHAIN OF CUSTODY RECORD

| CLIENT NO. | PROJECT NO. | PROJECT NAME |
|---|---|---|
| 1210 | 8135-95 | Bayer |

SAMPLERS: (SIGNATURE) By P. Povlock (gcs)
X [signature]

SEE REVERSE SIDE FOR INSTRUCTIONS

EIS LAB USE ONLY

| DATE AND TIME OF COMPOSITE | DATE AND TIME OF GRAB | PRIMARY SAMPLE DESCRIPTION | NO. OF CONTAINERS | ANALYSIS OR CONTAINER TYPES: 4 occ vial, 1+1 HCl | | | | | | | | | Cooler 1A | REMARKS | EIS LAB NO. | SAMPLE STATE | TEMP COOLER BLANK |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 6:30 9-15-95 | TripBlank: TB-2A gcs. | 1 | 1 G | | | | | | | | | ✓ | | 29150 | YC | |
| | | — End of Record — | | | | | | | | | | | | | | | |
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| RELINQUISHED BY: (PP) | DATE | TIME | RECEIVED BY: | RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
|---|---|---|---|---|---|---|---|
| X [signature] | 9/15/95 | 0640 | Cooler containing samples locked in van | Cooler containing samples locked in van | 9/19/95 | 7:00 Am | J.C. [signature] |
| RELINQUISHED BY: J.C. [signature] | DATE 9/19/95 | TIME 1845 | RECEIVED BY: Secure EIS walkin cooler | RELINQUISHED BY: Secure EIS walkin cooler | DATE 9/20/95 | TIME 1115 | RECEIVED BY: [signature] |

SAMPLE STATE
C = COLD
N = NOT COLD
I = INTACT
B = BROKEN

MODE OF TRANSPORTATION

EIS VEHICLE # Chevy Van

PUBLIC

FIELD NOTES:

SHIPPING CHARGE

EIS ENVIRONMENTAL ENGINEERS, INC. 1701 N. IRONWOOD DR. SOUTH BEND, IN 46635 (219) 277-5715

# CHAIN OF CUSTODY RECORD

| CLIENT NO. | PROJECT NO. | PROJECT NAME |
|---|---|---|
| 1210 | 813595 | Bayer |

SAMPLERS: (SIGNATURE) Carolyn Schwartzel, Steven D. Swanson

SEE REVERSE SIDE FOR INSTRUCTIONS

EIS LAB USE ONLY

| DATE AND TIME OF COMPOSITE | DATE AND TIME OF GRAB | PRIMARY SAMPLE DESCRIPTION | NO. OF CONTAINERS | 40cc Vial (HCL) | Glass (A) | $HNO_3$, Plastic | NaOH, Plastic | | | | | | | REMARKS | EIS LAB NO. | SAMPLE STATE | TEMP COOLER BLANK |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 9/20/95 14:56 | WT 102 A | | 6 2 | 6 3 | 6 1 | 6 1 | | | | | | | | 29158 | I/C | |

| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: | RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
|---|---|---|---|---|---|---|---|
| Carolyn Schwartzel | 9/20/95 | 15:10 | Michael Martriano | Michael Martriano | 9/20/95 | 1515 | ~~EIS Wal B in~~ ~~Cooler~~ J. C. Spurr |
| J. C. Spurr | 9/20/95 | 16:45 | David Dye | | | | |

SAMPLE STATE: C = COLD, N = NOT COLD, I = INTACT, B = BROKEN

MODE OF TRANSPORTATION

EIS VEHICLE #

PUBLIC

FIELD NOTES: Project regarding the Himco landfill area.

SHIPPING CHARGE

EIS ENVIRONMENTAL ENGINEERS, INC. 1701 N. IRONWOOD DR. SOUTH BEND, IN 46635 (219) 277-5715

# CHAIN OF CUSTODY RECORD

| CLIENT NO. | PROJECT NO. | PROJECT NAME |
|---|---|---|
| 1210 | 813595 | Bayer |

SAMPLERS: (SIGNATURE)
USACE: Michelle Benak, Scott Sa

| DATE AND TIME OF COMPOSITE | DATE AND TIME OF GRAB | PRIMARY SAMPLE DESCRIPTION | NO. OF CONTAINERS | 40cc Vial (A) HCl | Glass (A) | HNO3 Plastic | NaOH Plastic | Cooler 2A (VOC 1A) | REMARKS | EIS LAB NO. | SAMPLE STATE | TEMP COOLER BLANK |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 9-20-95 13:20 | WT102B | 7 | 2 G | 3 G | 1 G | 1 G | | Monitoring well Groundwater. | 29159 | I/C | |
| | | — End of Record — | | | | | | | | | | |

SEE REVERSE SIDE FOR INSTRUCTIONS

EIS LAB USE ONLY

| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: | RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
|---|---|---|---|---|---|---|---|
| Michelle Benak | 9/20/95 | 13:35 | R.C. [illegible] | R.C. [illegible] | 9/20/95 | 16:40 | [illegible] |
| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: | RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |

SAMPLE STATE
C = COLD
N = NOT COLD
I = INTACT
B = BROKEN

MODE OF TRANSPORTATION

EIS VEHICLE # Chevy Van

PUBLIC

FIELD NOTES: Project regarding the Hinco landfill area.

SHIPPING CHARGE

EIS ENVIRONMENTAL ENGINEERS, INC. 1701 N. IRONWOOD DR. SOUTH BEND, IN 46635 (219) 277-5715

# CHAIN OF CUSTODY RECORD

| CLIENT NO. | PROJECT NO. | PROJECT NAME |
|---|---|---|
| 1210 | 813595 | Bayer |

SAMPLERS: (SIGNATURE) P. Poulock

SEE REVERSE SIDE FOR INSTRUCTIONS

EIS LAB USE ONLY

| DATE AND TIME OF COMPOSITE | DATE AND TIME OF GRAB | PRIMARY SAMPLE DESCRIPTION | NO. OF CONTAINERS | ANALYSIS OR CONTAINER TYPES: 40cc Vials, 1+1 Hcl | | | | | | | | | | REMARKS | EIS LAB NO. | SAMPLE STATE | TEMP COOLER BLANK |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0630 9-15-95 | TB3A | 1 | 6 | | | | | | | | | | Trip Blank | 29160 | | |
| | | — End of Record — | | | | | | | | | | | | | | | |

| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: | RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
|---|---|---|---|---|---|---|---|
| [signature] | 9/15/95 | 0640 | with sample containers cooler locked in EIS Van Ice. | with sample containers cooler locked in EIS Van Ice. | 9/20/95 | 1000 Am | [signature] |
| [signature] | 9/20/95 | 1640 | [signature] | | | | |

SAMPLE STATE
C = COLD
N = NOT COLD
I = INTACT
B = BROKEN

MODE OF TRANSPORTATION

EIS VEHICLE # Chevy Van

PUBLIC

FIELD NOTES: This trip Blank accompanied sample containers into the field 9-20-95. However, it was inadvertently not placed into same cooler with 9-20-95 VOC samples on return trip back to lab. [initials] 9-20-95

SHIPPING CHARGE

EIS ENVIRONMENTAL ENGINEERS, INC. 1701 N. IRONWOOD DR. SOUTH BEND, IN 46635 (219) 277-5715

# CHAIN OF CUSTODY RECORD

| CLIENT NO. | PROJECT NO. | PROJECT NAME |
|---|---|---|
| 1210 | 813595 | Bayer |

SAMPLERS: (SIGNATURE) Michelle Bank

| DATE AND TIME OF COMPOSITE | DATE AND TIME OF GRAB | PRIMARY SAMPLE DESCRIPTION | NO. OF CONTAINERS | ANALYSIS OR CONTAINER TYPES: 40cc Vial 1:1 HCl | Glass (A) | HNO3 Plastic | NaOH Plastic | REMARKS | EIS LAB NO. | SAMPLE STATE | TEMP COOLER BLANK |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 9/21/95 14:10 | WT 114A | 7 | 6 2 | 6 3 | 6 1 | 6 1 | | 29267 | I/C | |
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SEE REVERSE SIDE FOR INSTRUCTIONS

EIS LAB USE ONLY

| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
|---|---|---|---|
| Michelle Bank | 9/21/95 | 14:10 | Michael Martinano |
| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
| | | | |

| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
|---|---|---|---|
| Michael Martinano | 9/21/95 | 1645 | Colleen Wright |
| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
| | | | |

SAMPLE STATE
C = COLD
N = NOT COLD
I = INTACT
B = BROKEN

MODE OF TRANSPORTATION

EIS VEHICLE # | PUBLIC

FIELD NOTES: Project regarding the Hinco landfill area.

SHIPPING CHARGE

EIS ENVIRONMENTAL ENGINEERS, INC. 1701 N. IRONWOOD DR. SOUTH BEND, IN 46635 (219) 277-5715

# CHAIN OF CUSTODY RECORD

| CLIENT NO. | PROJECT NO. | PROJECT NAME |
|---|---|---|
| 1210 | 813595 | Bayer |

SAMPLERS: (SIGNATURE) Scott Schmidt Michelle Berrak

SEE REVERSE SIDE FOR INSTRUCTIONS

EIS LAB USE ONLY

| DATE AND TIME OF COMPOSITE | DATE AND TIME OF GRAB | PRIMARY SAMPLE DESCRIPTION | NO. OF CONTAINERS | ANALYSIS OR CONTAINER TYPES: 40cc Vial 1:1 HCl | Glass (A) | HNO3 Plastic | NaOH Plastic | REMARKS | EIS LAB NO. | SAMPLE STATE | TEMP COOLER BLANK |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 9/21/95 10:35 | WT 114 B | 7 | 6 2 | 6 3 | 6 1 | 6 1 | | 29208 | I/C | |

| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
|---|---|---|---|
| Michelle Berrak | 9/21/95 | 10:50 | Michael A Martinez |
| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
| | | | |

| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
|---|---|---|---|
| Michael Martinez | 9/21/95 | 1645 | Colleen Wright |
| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
| | | | |

SAMPLE STATE
C = COLD
N = NOT COLD
I = INTACT
B = BROKEN

MODE OF TRANSPORTATION

EIS VEHICLE # | PUBLIC

FIELD NOTES: Project regarding the Hinco landfill area.

SHIPPING CHARGE

EIS ENVIRONMENTAL ENGINEERS, INC. 1701 N. IRONWOOD DR. SOUTH BEND, IN 46635 (219) 277-5715

# CHAIN OF CUSTODY RECORD

| CLIENT NO. | PROJECT NO. | PROJECT NAME |
|---|---|---|
| 1210 | 8135-95 | Bayer |

SAMPLERS: (SIGNATURE)
USACE: Steven D Dawson Carolyn F Wright

SEE REVERSE SIDE FOR INSTRUCTIONS

EIS LAB USE ONLY

| DATE AND TIME OF COMPOSITE | DATE AND TIME OF GRAB | PRIMARY SAMPLE DESCRIPTION | NO. OF CONTAINERS | ANALYSIS OR CONTAINER TYPES: 40ml Vial, HCl | Glass (A) | HNO3, Plastic | NaOH, Plastic | Cooler (Vol. = 1A) | REMARKS | EIS LAB NO. | SAMPLE STATE | TEMP COOLER BLANK |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 9-21-95 1150 | WT116B | 7 | 2 G | 3 G | 1 G | 1 G | | | 29212 | 11c | |
| | | – End of Record – | | | | | | | | | | |

| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: | RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
|---|---|---|---|---|---|---|---|
| Steven D Dawson | 9/21/95 | 15:07 | J.C. Walker | J.C. Walker | 9/21/95 | 1800 | Carolyn Wright |
| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: | RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |

SAMPLE STATE
C = COLD
N = NOT COLD
I = INTACT
B = BROKEN

| MODE OF TRANSPORTATION | FIELD NOTES: | SHIPPING CHARGE |
|---|---|---|
| EIS VEHICLE # Chevy Van | | |
| PUBLIC | | |

EIS ENVIRONMENTAL ENGINEERS, INC. 1701 N. IRONWOOD DR. SOUTH BEND, IN 46635 (219) 277-5715

# CHAIN OF CUSTODY RECORD

| CLIENT NO. | PROJECT NO. | PROJECT NAME |
|---|---|---|
| 1210 | 813595 | Bayer |

SAMPLERS: (SIGNATURE) x (Penny Padlock) [signature]

SEE REVERSE SIDE FOR INSTRUCTIONS

EIS LAB USE ONLY

| DATE AND TIME OF COMPOSITE | DATE AND TIME OF GRAB | PRIMARY SAMPLE DESCRIPTION | NO. OF CONTAINERS | ANALYSIS OR CONTAINER TYPES: 40cc Vial, 1ft HCL | | | | | | | | | Cooler 1A | REMARKS | EIS LAB NO. | SAMPLE STATE | TEMP COOLER BLANK |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 6:30 9-15-95 | TB4A | 1 | 1 a | | | | | | | | | ✓ | | 29213 | 1/C | |
| | | — End of Record — | | | | | | | | | | | | | | | |

| RELINQUISHED BY: (PP) | DATE | TIME | RECEIVED BY: | RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
|---|---|---|---|---|---|---|---|
| x [signature] | 9/15/95 | 0640 | Cooler containing Samples locked in Van | Cooler containing Samples locked in Van | 9-21-95 | 630 Am | [signature] |
| [signature] | 9/21/95 | 17:30 | Colleen Wright | | | | |

SAMPLE STATE: C = COLD, N = NOT COLD, I = INTACT, B = BROKEN

MODE OF TRANSPORTATION

EIS VEHICLE #: Chevy Van

PUBLIC

FIELD NOTES: Trip Blank Day 4, Team A.

SHIPPING CHARGE

EIS ENVIRONMENTAL ENGINEERS, INC. 1701 N. IRONWOOD DR. SOUTH BEND, IN 46635 (219) 277-5715

# CHAIN OF CUSTODY RECORD

| CLIENT NO. | PROJECT NO. | PROJECT NAME |
|---|---|---|
| 1210 | 813595 | Bayer |

SAMPLERS: (SIGNATURE) Scott Schmidt, Carolyn Schmidt

SEE REVERSE SIDE FOR INSTRUCTIONS

| DATE AND TIME OF COMPOSITE | DATE AND TIME OF GRAB | PRIMARY SAMPLE DESCRIPTION | NO. OF CONTAINERS | ANALYSIS OR CONTAINER TYPES: 40cc Vial HCl | Glass (A) | HNO3 Plastic | NaOH Plastic | REMARKS | EIS LAB NO. | SAMPLE STATE | TEMP COOLER BLANK |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 9/22/95 12:03 | WT 01 | 7 | 2 | 3 | 1 | 1 | | 29250 | C | |

EIS LAB USE ONLY

| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
|---|---|---|---|
| Carolyn Schmidt | 9/22/95 | 12:15 | Michael A. Montrowe |
| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |

| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
|---|---|---|---|
| Michael Montrowe | 9/22/95 | 14:45 | [signature] |
| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |

SAMPLE STATE
C = COLD
N = NOT COLD
I = INTACT
B = BROKEN

MODE OF TRANSPORTATION

EIS VEHICLE # | PUBLIC

FIELD NOTES: Project regarding the Hinco landfill area.

SHIPPING CHARGE

EIS ENVIRONMENTAL ENGINEERS, INC. 1701 N. IRONWOOD DR. SOUTH BEND, IN 46635 (219) 277-5715

# CHAIN OF JSTODY RECORD

| CLIENT NO. | PROJECT NO. | PROJECT NAME |
|---|---|---|
| | | Wagner |

SAMPLERS: (SIGNATURE)

SEE REVERSE SIDE FOR INSTRUCTIONS

| DATE AND TIME OF COMPOSITE | DATE AND TIME OF GRAB | PRIMARY SAMPLE DESCRIPTION | NO. OF CONTAINERS | ANALYSIS OR CONTAINER TYPES: 40ml 1+1 HCl | REMARKS | EIS LAB USE ONLY: EIS LAB NO. | SAMPLE STATE | TEMP COOLER BLANK |
|---|---|---|---|---|---|---|---|---|
| | 9/20/95 8:30 | TRIP BLANK-TB5B | 1 | G 1 | | 39251 | C | |

| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: | RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
|---|---|---|---|---|---|---|---|
| | 9/21/95 | 08:30 | Michael Martinez | Michael Martinez | 9/21/95 | 14:40 | |
| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: | RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
| | | | | | | | |

SAMPLE STATE
C = COLD
N = NOT COLD
I = INTACT
B = BROKEN

| MODE OF TRANSPORTATION | |
|---|---|
| EIS VEHICLE # | PUBLIC |

FIELD NOTES: TB5B: Trip Blank, Day 5, Team B

SHIPPING CHARGE

EIS ENVIRONMENTAL ENGINEERS, INC. 1701 N. IRONWOOD DR. SOUTH BEND, IN 46635 (219) 277-5715

# CHAIN OF CUSTODY RECORD

| CLIENT NO. | PROJECT NO. | PROJECT NAME |
|---|---|---|
| 1210 | 813595 | Bayer |

SAMPLERS: (SIGNATURE) USACE: [signature] Michelle Benak

SEE REVERSE SIDE FOR INSTRUCTIONS

EIS LAB USE ONLY

| DATE AND TIME OF COMPOSITE | DATE AND TIME OF GRAB | PRIMARY SAMPLE DESCRIPTION | NO. OF CONTAINERS | 40cc Vial 1:1 HCL | Glass (A) | $HNO_3$, Plastic | NaOH, Plastic | | | | | | Cooler (VOC=1A) | REMARKS | EIS LAB NO. | SAMPLE STATE | TEMP COOLER BLANK |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 9-22-95 11:50 AM | WT111A | 7 | 2 G | 3 G | 1 G | 1 G | | | | | | 2A | Monitoring Well Groundwater | 29265 | I/C | |
| | | — End of Record — | | | | | | | | | | | | | | | |

| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: | RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
|---|---|---|---|---|---|---|---|
| Michelle Benak | 9/22/95 | 12:05 pm | [signature] | [signature] | 9/22/95 | 1000 pm | [signature] |
| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: | RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
| | | | | | | | |

SAMPLE STATE
C = COLD
N = NOT COLD
I = INTACT
B = BROKEN

MODE OF TRANSPORTATION

EIS VEHICLE # Chevy Van

PUBLIC

FIELD NOTES: Project regarding the Himco landfill area.

SHIPPING CHARGE

EIS ENVIRONMENTAL ENGINEERS, INC. 1701 N. IRONWOOD DR. SOUTH BEND, IN 46635 (219) 277-5715

# CHAIN OF CUSTODY RECORD

| CLIENT NO. | PROJECT NO. | PROJECT NAME |
|---|---|---|
| 1210 | 813595 | Bayer |

SAMPLERS: (SIGNATURE) X Penny ~~Poulton~~ Poblock (g.cs)

SEE REVERSE SIDE FOR INSTRUCTIONS

EIS LAB USE ONLY

| DATE AND TIME OF COMPOSITE | DATE AND TIME OF GRAB | PRIMARY SAMPLE DESCRIPTION | NO. OF CONTAINERS | ANALYSIS OR CONTAINER TYPES: 40cc Vial in HCL | Glass (A) | HNO3, Plastic | NaOH, Plastic | | | | | | | REMARKS | EIS LAB NO. | SAMPLE STATE | TEMP COOLER BLANK |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | TB5A | 1 | 1 G | | | | | | | | | | | 29266 | | |
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| RELINQUISHED BY: (PP) | DATE | TIME | RECEIVED BY: | RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
|---|---|---|---|---|---|---|---|
| X [signature] | 9/22/95 | 8:30 | [signature] | [signature] | 9/22/95 | 1600pm | [signature] |
| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: | RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
| | | | | | | | |

SAMPLE STATE
C = COLD
N = NOT COLD
I = INTACT
B = BROKEN

MODE OF TRANSPORTATION

EIS VEHICLE #

PUBLIC

FIELD NOTES: Project regarding the Himco landfill area. Trip Blank, Day 5, Team A.

SHIPPING CHARGE

EIS ENVIRONMENTAL ENGINEERS, INC. 1701 N. IRONWOOD DR. SOUTH BEND, IN 46635 (219) 277-5715

# CHAIN OF CUSTODY RECORD

| CLIENT NO. | PROJECT NO. | PROJECT NAME |
|---|---|---|
| 1210 | 813595 | Bayer |

SAMPLERS: (SIGNATURE)
USACE: - Michelle Benak, Jeff Schmidt

SEE REVERSE SIDE FOR INSTRUCTIONS

| DATE AND TIME OF COMPOSITE | DATE AND TIME OF GRAB | PRIMARY SAMPLE DESCRIPTION | NO. OF CONTAINERS | ANALYSIS OR CONTAINER TYPES: 40cc Vial 1H HCl | Glass (A) HNO3 | Plastic NaOH | Plastic | REMARKS | EIS LAB USE ONLY: EIS LAB NO. | SAMPLE STATE | TEMP COOLER BLANK |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 9-25-95 15:00 | WT115A | 7 | 2 G | 3 G | 1 G | 1 G | | 29287 | IC | |
| | | — End of Record — | | | | | | | | | |

| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: | RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
|---|---|---|---|---|---|---|---|
| Michelle Benak | 9/25/95 | 15:12 Pm | | | 9/25/95 | 1700 | |
| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: | RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |

SAMPLE STATE
C = COLD
N = NOT COLD
I = INTACT
B = BROKEN

MODE OF TRANSPORTATION

EIS VEHICLE # (Navy Van) | PUBLIC

FIELD NOTES: Project regarding the Hinco landfill area.

SHIPPING CHARGE

EIS ENVIRONMENTAL ENGINEERS, INC. 1701 N. IRONWOOD DR. SOUTH BEND, IN 46635 (219) 277-5715

# CHAIN OF CUSTODY RECORD

| CLIENT NO. | PROJECT NO. | PROJECT NAME |
|---|---|---|
| 1210 | 813595 | Bayer |

SAMPLERS: (SIGNATURE) Michelle Benak
USACE: Scott Schmidt

SEE REVERSE SIDE FOR INSTRUCTIONS

| DATE AND TIME OF COMPOSITE | DATE AND TIME OF GRAB | PRIMARY SAMPLE DESCRIPTION | NO. OF CONTAINERS | ANALYSIS OR CONTAINER TYPES: 40cc Vial 1:1 HCl | Glass (A) | HNO3 Plastic | NaOH Plastic | REMARKS | EIS LAB NO. | SAMPLE STATE | TEMP COOLER BLANK |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 9-25-95 12:00 | WT118B | 7 | 2 G | 3 G | 1 G | 1 G | Monitoring well groundwater. | 29728 | I/C | |
| | | — End of Record — | | | | | | | | | |

EIS LAB USE ONLY

| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
|---|---|---|---|
| Michell Benak | 9/25/95 | 12:15pm | |
| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
| | | | |

| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
|---|---|---|---|
| | 9/25/95 | 1700 | |
| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
| | | | |

SAMPLE STATE
C = COLD
N = NOT COLD
I = INTACT
B = BROKEN

MODE OF TRANSPORTATION

EIS VEHICLE # Chevy Van

PUBLIC

FIELD NOTES: Project regarding the Hinco landfill area.

SHIPPING CHARGE

EIS ENVIRONMENTAL ENGINEERS, INC. 1701 N. IRONWOOD DR. SOUTH BEND, IN 46635 (219) 277-5715

# CHAIN OF CUSTODY RECORD

| CLIENT NO. | PROJECT NO. | PROJECT NAME |
|---|---|---|
| 1210 | 813595 | Bayer |

SAMPLERS: (SIGNATURE) X Penny Reynolds

| DATE AND TIME OF COMPOSITE | DATE AND TIME OF GRAB | PRIMARY SAMPLE DESCRIPTION | NO. OF CONTAINERS | ANALYSIS OR CONTAINER TYPES: 40cc Vial (1:1 HCl) | Glass (A) | HNO3, Plastic | NaOH, Plastic | REMARKS | EIS LAB USE ONLY: EIS LAB NO. | SAMPLE STATE | TEMP COOLER BLANK |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 9-22-95 | TB6A | 1 | 6 | - | - | - | | 27339 | Ice | |

SEE REVERSE SIDE FOR INSTRUCTIONS

| RELINQUISHED BY(SP) | DATE | TIME | RECEIVED BY: | RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
|---|---|---|---|---|---|---|---|
| X [signature] | 9-22-95 | 930 | with Containers in locked EIS van. | with Containers in locked EIS van | 9-25-95 | 9:30 | [signature] |
| RELINQUISHED BY: [signature] | DATE 9-25-95 | TIME 1100 | RECEIVED BY: [signature] | RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |

SAMPLE STATE
C = COLD
N = NOT COLD
I = INTACT
B = BROKEN

MODE OF TRANSPORTATION

EIS VEHICLE # (Chevy Van) | PUBLIC

FIELD NOTES: Project regarding the Hinco landfill area.
Trip Blank, Day 6, Team A.

SHIPPING CHARGE

EIS ENVIRONMENTAL ENGINEERS, INC. 1701 N. IRONWOOD DR. SOUTH BEND, IN 46635 (219) 277-5715

# CHAIN OF CUSTODY RECORD

| CLIENT NO. | PROJECT NO. | PROJECT NAME |
|---|---|---|
| 1210 | 813595 | Bayer |

SAMPLERS: (SIGNATURE) - Carolyn Sawerfield, Steve Dawson

SEE REVERSE SIDE FOR INSTRUCTIONS

| DATE AND TIME OF COMPOSITE | DATE AND TIME OF GRAB | PRIMARY SAMPLE DESCRIPTION | NO. OF CONTAINERS | 40 cc Vial 1:1 HCL | Glass (A) | $HNO_3$, Plastic | NaOH, Plastic | | | | | | | REMARKS | EIS LAB NO. | SAMPLE STATE | TEMP COOLER BLANK |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 9/25/95 10:52 | WT 101A + MS/DMS | 14 | 6 4 | 6 6 | 6 2 | 6 2 | | | | | | | | 29290 | C/C | |
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EIS LAB USE ONLY

| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: | RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
|---|---|---|---|---|---|---|---|
| Steve Dawson | 9/25/95 | | Michael Martinez | Michael Martinez | 9/25/95 | 17:15 | [signature] |
| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: | RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
| | | | | | | | |

SAMPLE STATE
C = COLD
N = NOT COLD
I = INTACT
B = BROKEN

MODE OF TRANSPORTATION

EIS VEHICLE #

PUBLIC

FIELD NOTES: Project regarding the Himco landfill area.

SHIPPING CHARGE

EIS ENVIRONMENTAL ENGINEERS, INC. 1701 N. IRONWOOD DR. SOUTH BEND, IN 46635 (219) 277-5715

# CHAIN OF CUSTODY RECORD

| CLIENT NO. | PROJECT NO. | PROJECT NAME |
|---|---|---|
| 1210 | 813595 | Bayer |

SAMPLERS: (SIGNATURE) Steve Pearson, Marilyn Schwoyer

SEE REVERSE SIDE FOR INSTRUCTIONS

EIS LAB USE ONLY

| DATE AND TIME OF COMPOSITE | DATE AND TIME OF GRAB | PRIMARY SAMPLE DESCRIPTION | NO. OF CONTAINERS | 40cc Vial 1:1 HCL | Glass (A) | $HNO_3$, Plastic | NaOH, Plastic | | | | | | | REMARKS | EIS LAB NO. | SAMPLE STATE | TEMP COOLER BLANK |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 9/25/95 14:46 | WT 101 B | 7 | 6 2 | 6 3 | 6 1 | 6 1 | | | | | | | | 29291 | 1/9 | |
| | 11/25/95 14:50 | FD-2 | 7 | 6 2 | 6 3 | 6 1 | 6 1 | | | | | | | | 29292 | 1/9 | |

| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: | RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
|---|---|---|---|---|---|---|---|
| Steve Pearson | 9/25/95 | 15:10 | Michael Martorano | Michael Martorano | 9/25/95 | 1[illegible]:15 | [illegible] |
| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: | RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
| | | | | | | | |

SAMPLE STATE
C = COLD
N = NOT COLD
I = INTACT
B = BROKEN

MODE OF TRANSPORTATION

EIS VEHICLE # Escort

PUBLIC

FIELD NOTES: Project regarding the Himco landfill area.

SHIPPING CHARGE

EIS ENVIRONMENTAL ENGINEERS, INC. 1701 N. IRONWOOD DR. SOUTH BEND, IN 46635 (219) 277-5715

# CHAIN OF CUSTODY RECORD

| CLIENT NO. | PROJECT NO. | PROJECT NAME |
|---|---|---|
| 1210 | 813595 | BAKER |

SAMPLERS: (SIGNATURE)

SEE REVERSE SIDE FOR INSTRUCTIONS

| DATE AND TIME OF COMPOSITE | DATE AND TIME OF GRAB | PRIMARY SAMPLE DESCRIPTION | NO. OF CONTAINERS | ANALYSIS OR CONTAINER TYPES | REMARKS | EIS LAB USE ONLY: EIS LAB NO. | SAMPLE STATE | TEMP COOLER BLANK |
|---|---|---|---|---|---|---|---|---|
| | 9/25/15 0830 | TB GB | 1 | 1 | | 7213 | C | |
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| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: | RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
|---|---|---|---|---|---|---|---|
| | 9/25/15 | 0835 | Michael Thorton | Michael Thorton | 9/25/15 | 17:15 | |
| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: | RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
| | | | | | | | |

SAMPLE STATE
C = COLD
N = NOT COLD
I = INTACT
B = BROKEN

| MODE OF TRANSPORTATION | | FIELD NOTES: | SHIPPING CHARGE |
|---|---|---|---|
| EIS VEHICLE # | PUBLIC | | |

EIS ENVIRONMENTAL ENGINEERS, INC. 1701 N. IRONWOOD DR. SOUTH BEND, IN 46635 (219) 277-5715

# CHAIN OF CUSTODY RECORD

| CLIENT NO. | PROJECT NO. | PROJECT NAME |
|---|---|---|
| 1210 | 813595 | Bayer |

SAMPLERS: (SIGNATURE) [illegible]

SEE REVERSE SIDE FOR INSTRUCTIONS

| DATE AND TIME OF COMPOSITE | DATE AND TIME OF GRAB | PRIMARY SAMPLE DESCRIPTION | NO. OF CONTAINERS | 40cc Vial 1+1 HCL | Glass (A) | $HNO_3$, Plastic | NaOH, Plastic | | | | | | | REMARKS | EIS LAB NO. | SAMPLE STATE | TEMP COOLER BLANK |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 9/26/95 13:13 | WT E1 | 7 | 6 2 | 6 3 | 6 1 | 6 1 | | | | | | | | 29326 | 1/C | |
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EIS LAB USE ONLY

| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: | RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
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| [illegible] | 9/26/95 | 13:15 | Michael A Marbrane | Michael Marbrane | 9/26/95 | 17:10 | [illegible] |
| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: | RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
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SAMPLE STATE
C = COLD
N = NOT COLD
I = INTACT
B = BROKEN

MODE OF TRANSPORTATION

EIS VEHICLE #

PUBLIC

FIELD NOTES: Project regarding the Himco landfill area.

SHIPPING CHARGE

EIS ENVIRONMENTAL ENGINEERS, INC. 1701 N. IRONWOOD DR. SOUTH BEND, IN 46635 (219) 277-5715

# CHAIN OF CUSTODY RECORD

| CLIENT NO. | PROJECT NO. | PROJECT NAME |
|---|---|---|
| 1210 | 813595 | Bayer |

SAMPLERS: (SIGNATURE) [illegible]

SEE REVERSE SIDE FOR INSTRUCTIONS

EIS LAB USE ONLY

| DATE AND TIME OF COMPOSITE | DATE AND TIME OF GRAB | PRIMARY SAMPLE DESCRIPTION | NO. OF CONTAINERS | ANALYSIS OR CONTAINER TYPES: 40cc Vial 1+1 HCL | Glass (A) | $HNO_3$, Plastic | NaOH, Plastic | | | | | | | REMARKS | EIS LAB NO. | SAMPLE STATE | TEMP COOLER BLANK |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 9/20/95 15:35 | FERB-2 | 4 | 6 2 | 6 3 | 2 1 | 3 1 | | | | | | | | 29327 | Yc | |
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| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: | RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
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| [illegible] | 9/20/95 | 10:30 | [illegible] | Michael Martorano | 9/20/95 | 17:10 | [illegible] |
| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: | RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
| | | | | | | | |

SAMPLE STATE
C = COLD
N = NOT COLD
I = INTACT
B = BROKEN

MODE OF TRANSPORTATION

| EIS VEHICLE # | PUBLIC |
|---|---|
| | |

FIELD NOTES: Project regarding the Himco landfill area.

SHIPPING CHARGE

EIS ENVIRONMENTAL ENGINEERS, INC. 1701 N. IRONWOOD DR. SOUTH BEND, IN 46635 (219) 277-5715

# CHAIN OF [illegible]STODY RECORD

| CLIENT NO. | PROJECT NO. | PROJECT NAME |
|---|---|---|
| 1210 | 813595 | Bayer |

SAMPLERS: (SIGNATURE) [signature]

SEE REVERSE SIDE FOR INSTRUCTIONS

| DATE AND TIME OF COMPOSITE | DATE AND TIME OF GRAB | PRIMARY SAMPLE DESCRIPTION | NO. OF CONTAINERS | ANALYSIS OR CONTAINER TYPES: 40cc Vial 1H HCL | ~~Glass (A)~~ MAM | HNO3, Plastic MAM | NaOH, Plastic MAM | | | | | | | REMARKS | EIS LAB USE ONLY: EIS LAB NO. | SAMPLE STATE | TEMP COOLER BLANK |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7/22/95 08:30 | TB - 7B | 1 | | | | | | | | | | | | 29328 | Yc | |
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| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: | RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
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| [signature] | 7/22/95 | 08:30 | [illegible] | [illegible] | 7/26/95 | 17:10 | [signature] |
| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: | RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
| | | | | | | | |

SAMPLE STATE
C = COLD
N = NOT COLD
I = INTACT
B = BROKEN

MODE OF TRANSPORTATION

| EIS VEHICLE # | PUBLIC |
|---|---|
| [illegible] | |

FIELD NOTES: Project regarding the Himco landfill area.

SHIPPING CHARGE

EIS ENVIRONMENTAL ENGINEERS, INC. 1701 N. IRONWOOD DR. SOUTH BEND, IN 46635 (219) 277-5715

# CHAIN OF STODY RECORD

| CLIENT NO. | PROJECT NO. | PROJECT NAME |
|---|---|---|
| 1210 | 8135-95 | Bayer |

SAMPLERS: (SIGNATURE)
USACE: Scott Schmidt Michelle Benak

SEE REVERSE SIDE FOR INSTRUCTIONS

| DATE AND TIME OF COMPOSITE | DATE AND TIME OF GRAB | PRIMARY SAMPLE DESCRIPTION | NO. OF CONTAINERS | ANALYSIS OR CONTAINER TYPES: 40cc Vial, HCl | 1 Glass (A) | HNO3, Plastic | NaOH, Plastic | Cooler, Ice=IA | REMARKS | EIS LAB NO. | SAMPLE STATE | TEMP COOLER BLANK |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 9-26-95 10:20Am | WT117A | 7 | 2 G | 3 G | 1 G | 1 G | 2A | Monitoring well Groundwater. | 29329 | Ic | |
| | | — End of Record — | | | | | | | | | | |

EIS LAB USE ONLY

| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
|---|---|---|---|
| Michelle Benak | 9/26/95 | 10:35 | P.C. Vanderlaan |
| RELINQUISHED BY: Secure EIS walkin Cooler | DATE 9/27/95 | TIME 855 Am | RECEIVED BY: P.C. Vanderlaan |

| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
|---|---|---|---|
| P.C. Vanderlaan | ~~12:15 Pm~~ 9/26/95 | 17:15 | Secure EIS walkin Cooler. |
| RELINQUISHED BY: P.C. Vanderlaan | DATE 9/27/95 | TIME 0930 | RECEIVED BY: Colleen Wright |

SAMPLE STATE
C = COLD
N = NOT COLD
I = INTACT
B = BROKEN

MODE OF TRANSPORTATION

EIS VEHICLE # Chevy Van

PUBLIC

FIELD NOTES:
~~Field Equipment Rinse Blank~~ - D.C.S
Monitoring Well Groundwater Sample.

SHIPPING CHARGE

EIS ENVIRONMENTAL ENGINEERS, INC. 1701 N. IRONWOOD DR. SOUTH BEND, IN 46635 (219) 277-5715

# CHAIN OF CUSTODY RECORD

| CLIENT NO. | PROJECT NO. | PROJECT NAME |
|---|---|---|
| 1210 | 813595 | Bayer |

SAMPLERS: (SIGNATURE) USACE: [illegible], Michelle Benak

SEE REVERSE SIDE FOR INSTRUCTIONS

EIS LAB USE ONLY

| DATE AND TIME OF COMPOSITE | DATE AND TIME OF GRAB | PRIMARY SAMPLE DESCRIPTION | NO. OF CONTAINERS | 40cc Vial 1H HCL | Glass (A) | $HNO_3$, Plastic | NaOH, Plastic | | | | | | Cooler (VOC=1A) | REMARKS | EIS LAB NO. | SAMPLE STATE | TEMP COOLER BLANK |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 9-26-95 14:00 | WT117B | 7 | 2 G | 3 G | 1 G | 1 G | | | | | | 3A | Monitoring well Groundwater | 29330 | 1/C | |
| | | - End of Record - | | | | | | | | | | | | | | | |

| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: | RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
|---|---|---|---|---|---|---|---|
| Michelle Benak | 9/26/95 | 1415pm | [illegible] | [illegible] | 9/26/95 | 1715 | Secure EIS walkin Cooler |
| RELINQUISHED BY: Secure EIS walkin Cooler. | DATE 9/27/95 | TIME 855 AM | RECEIVED BY: [illegible] | RELINQUISHED BY: [illegible] | DATE 9/27/95 | TIME 0930 | RECEIVED BY: Colleen Wright |

SAMPLE STATE: C = COLD, N = NOT COLD, I = INTACT, B = BROKEN

MODE OF TRANSPORTATION

EIS VEHICLE #: Chevy Van

PUBLIC

FIELD NOTES: Project regarding the Himco landfill area.

SHIPPING CHARGE

EIS ENVIRONMENTAL ENGINEERS, INC. 1701 N. IRONWOOD DR. SOUTH BEND, IN 46635 (219) 277-5715

# CHAIN OF STODY RECORD

| CLIENT NO. | PROJECT NO. | PROJECT NAME |
|---|---|---|
| 1210 | 813595 | Bayer |

SAMPLERS: (SIGNATURE) USACE: Michelle Benak, Scott Schmidt

SEE REVERSE SIDE FOR INSTRUCTIONS

| DATE AND TIME OF COMPOSITE | DATE AND TIME OF GRAB | PRIMARY SAMPLE DESCRIPTION | NO. OF CONTAINERS | ANALYSIS OR CONTAINER TYPES: 4oz vials, 1+1 HCL | Glass (A) | HNO3, plastic | NaOH, plastic | | | | | | Cooler | REMARKS | EIS LAB USE ONLY: EIS LAB NO. | SAMPLE STATE | TEMP COOLER BLANK |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 9-26-95 11:30Am | FERB-1 | 7 | 2 G | 3 G | 1 G | 1 G | | | | | | 2A | Field Equip. Rinse Blank | 29331 | 1/C | |
| | | — End of Record — | | | | | | | | | | | | | | | |

| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: | RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
|---|---|---|---|---|---|---|---|
| Michelle Benak | 9/26/95 | 11:40Am | [signature] | [signature] | 9/26/95 | 1715 | Secure EIS walkin Cooler. |
| Secure EIS walkin Cooler. | 9/27/95 (9:55) | 8:55 Am | [signature] | [signature] | 9/27/95 | 0930 | Colleen Wright |

SAMPLE STATE: C = COLD, N = NOT COLD, I = INTACT, B = BROKEN

MODE OF TRANSPORTATION

EIS VEHICLE #: Chevy Van

PUBLIC

FIELD NOTES: FERB = Field Equipment Rinse Blank.

SHIPPING CHARGE

EIS ENVIRONMENTAL ENGINEERS, INC. 1701 N. IRONWOOD DR. SOUTH BEND, IN 46635 (219) 277-5715

T

# CHAIN OF CUSTODY RECORD (Trip Blank Page 1 of 2)

| CLIENT NO. | PROJECT NO. | PROJECT NAME |
|---|---|---|
| 1210 | 8135-95 | Bayer |

SAMPLERS: (SIGNATURE) X (PP)

SEE REVERSE SIDE FOR INSTRUCTIONS

| DATE AND TIME OF COMPOSITE | DATE AND TIME OF GRAB | PRIMARY SAMPLE DESCRIPTION | NO. OF CONTAINERS | ANALYSIS OR CONTAINER TYPES: 40cc Vial, 1+1 HCl | Cooler | REMARKS | EIS LAB USE ONLY: EIS LAB NO. | SAMPLE STATE | TEMP COOLER BLANK |
|---|---|---|---|---|---|---|---|---|---|
| | 9-22-95 8:30Am | TB7A | 1 G | | 1A | Trip Blank | 29332 | I/c | |
| | | ~~End of Record~~ (Continued Page 2) | | | | | | | |

| RELINQUISHED BY: (PP) | DATE | TIME | RECEIVED BY: |
|---|---|---|---|
| X | 9-22-95 | 830Pm | Containers in locked EIS Van |
| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
| P.C. Walker | 9-26-95 | 1715 | Secure EIS Walk in Cooler |

| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
|---|---|---|---|
| Containers in locked EIS Van | 9-26-95 | 215Pm | P.C. Walker |
| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: |
| Secure EIS Walk in Cooler | 9-27-95 | 8:55 Am | P.C. Walker |

SAMPLE STATE
C = COLD
N = NOT COLD
I = INTACT
B = BROKEN

MODE OF TRANSPORTATION

EIS VEHICLE # Chevy Van

PUBLIC

FIELD NOTES: Trip Blank, Day 7, Team A.

SHIPPING CHARGE

EIS ENVIRONMENTAL ENGINEERS, INC. 1701 N. IRONWOOD DR. SOUTH BEND, IN 46635 (219) 277-5715

# APPENDIX C
# SAMPLE LOGS

Sheet 1 of 1

Project No. 8135-95

# SAMPLE LOG

Client: Bayer Corporation

Site Location: Himco Dump Site Area, Elkhart, Indiana

Date: 9-18-95

Equipment Used: Grundfos BMI/MPI, Teflon lined - PVC tubing.

No. of Samples Collected: Two (2)

Container Size: Qt Amber Qt Plastic 40cc Vials

| Sample No. | Sample Location | Time | Depth (Well Depth Ft *') | Type of Material | EIS Lab No. | Analysis Requested |
|---|---|---|---|---|---|---|
| WT113A | Monitoring well, Northeast of Pond. | (Shallow well) 12:45 | → 25' | Groundwater from Monitoring well. | 29113 | VOC, SVOC (BNA), Pest/PCB, metals, Cyanide. |
| WT113B | " " | (Deeper well) 16:25 | → 70' | " " | 29114 | " " |
| | — End of Record — | | | | | |

Comment: The above samples were split-sampled with U.S. Army Corps. of Engineers. Actual sample collection was performed by U.S. Army Corps. of Engineers. See Field Observation/Split-Sampling Records for additional details. *' Well depth relative to top of casing per M. Benak (USACE).

Collectors Name: US Army Corp. of Engineers (USACE) [Sample collection observed by J.C. Sporleder (EIS)].

Sheet 1 1

Project No. 8135-95

# SAMPLE LOG

Client: Bayer Corporation  Site Location: Himco Dump Site Area, Elkhart, Indiana  Date: 9-19-95

Equipment Used: Grundfos BMI/MP1 Pump with Teflon-line PVC tubing  No. of Samples Collected: Two (2)  Container Size: qt Amber qt Plastic voce VOAs

| Sample No. | Sample Location | Time | Depth (Well Depth (FT) *1) | Type of Material | EIS Lab No. | Analysis Requested |
|---|---|---|---|---|---|---|
| WT112A+MS/DMS | Monitoring well WT112A, North of landfill area | 9:50Am | (Shallow well) ≈ 18' | Groundwater. Extra volume collected for MS/DMS. | 24148 | VOC, SVOC (BNA), Pest/PCB, metals, Cyanide. |
| WT112B | Monitoring well WT112B. ~~east~~ of WT112A. | 16:10 | (Deeper well) ≈ 62.3' | Groundwater from monitoring well. | 24149 | " " |
| | — End of Record 9-19-95 — | | | | | |

Comment: The above samples were split-sampled with U.S. Army Corps. of Engineers. Actual sample collection was performed by U.S. Army Corps. of Engineers. See Field Observation/Split-Sampling Records for additional details. *'Well Depths are relative to Top of well casing per M. Benak (USACE).

Collectors Name: USACE [Sample collection observed by J.C. Sporleder].

(e) (s)

Sheet 1 1

Project No. 8135-95

# SAMPLE LOG

Client: Bayer Corporation  Site Location: Himco Dump Site Area, Elkhart, Indiana  Date: 9-20-95

Equipment Used: Grundfos Pump with Teflon-lined PVC Tubing  No. of Samples Collected: One (1)  Container Size: 40 ml Amber & Plastic VOC Vials

| Sample No. | Sample Location | Time | Depth (Well Depth) (FT)* | Type of Material | EIS Lab No. | Analysis Requested |
|---|---|---|---|---|---|---|
| WT102B | Monitoring well WT102 | 13:20 | 67.5 | Groundwater from Monitoring well. | 29159 | VOC, SVOC (BNA), Pest/PCB, metals, Cyanide. |
| | — End of Record — | | | | | |

Comment: The above samples were split-sampled with U.S. Army Corps. of Engineers. Actual sample collection was performed by U.S. Army Corps. of Engineers. See Field Observation/Split-Sampling Records for additional details. * Well depths are relative to top of well casing per M. Benak (USACE).

Collectors Name USACE {Sample collection observed by J.L. Sporleder (EIS)}.

Sheet 1 1

Project No. 8135-95

# SAMPLE LOG

Client: Bayer Corporation

Site Location: Himco Dump Site Area, Elkhart, Indiana

Date 9-20-95

Equipment Used: Grundfos Pump with Teflon lined PVC Tubing

No. of Samples Collected: One (1)

Container Size: Qt Amber Qt Plastic 40cc Vials

| Sample No. | Sample Location | Time | Depth (well Depth *1) (ft) | Type of Material | EIS Lab No. | Analysis Requested |
|---|---|---|---|---|---|---|
| WT 102 A | Well located in area between trees and [illegible] field [illegible] South Bound Lane of John Weaver Rd. ~1 mile from light. | Begins 14:56 | 18.0 ft | Monitoring Well Ground Water Sample | 29158 | VOC, SVOC (BNA), Pest/PCB, metals, Cyanide. |
| " " | | " " | " " | " " | " " | " " |
| | — End of Record — | | | | | |

Comment: The above samples were split-sampled with U.S. Army Corps. of Engineers. Actual sample collection was performed by U.S. Army Corps. of Engineers. See Field Observation/Split-Sampling Records for additional details. *1 Sampling Depth (+ 2 ft = total depth) MAN. Well depths are relative to Top of well casing per M. Benak (USACE).

Collectors Name USACE. [Sample collection observed by Mike Martorano (EIS)].

Sheet 1

Project No. 8135-95

# SAMPLE LOG

Client: Bayer Corporation

Site Location: Himco Dump Site Area, Elkhart, Indiana

Date 9/21/95

Equipment Used Grundfos BMI/MPI Pump with Teflon Lined PVC Tubing

No. of Samples Collected Two (2)

Container Size Qt Amber at Plastic 40cc Vials

| Sample No. | Sample Location | Time | Depth* (Well Depth (ft)) | Type of Material | EIS Lab No. | Analysis Requested |
|---|---|---|---|---|---|---|
| WT 114B | Grassy Area Adjacent to N. Ground Lane of John Weaver Rd ~1/4 Mile North of Light | 10:35 | 67'7" | Monitoring well Ground Water | 29208 | VOC, SVOC (BNA), Pest/PCB, metals, Cyanide. |
| WT 114A | " | 14:10 | 24'6" | Monitoring well Ground Water | 29207 | VOC, SVOC (BNA) Pest/PCB, Metals, Cyanide |
| | — End of Record — | | | | | |

Comment: The above samples were split-sampled with U.S. Army Corps. of Engineers. Actual sample collection was performed by U.S. Army Corps. of Engineers. See Field Observation/Split-Sampling Records for additional details. *Depths are total depths, Dump was raised 3ft from these depths to be in the center of the screened interval. Well depths are relative to Top of well casing per M. Berak (USACE).

Collectors Name: USACE (See Comment) [Sample collection observed by Mike Martorano (EIS)]

Sheet 1 of 1

Project No. 8135-95

# SAMPLE LOG

Client: Bayer Corporation

Site Location: Himco Dump Site Area, Elkhart, Indiana

Date 9-21-95

Equipment Used Grundfos Pump with Teflon-lined PVC tubing

No. of Samples Collected Three (3)

Container Size Qt Amber Qt Plastic 40cc Vials

| Sample No. | Sample Location | Time | Depth (well depth*) (Ft) | Type of Material | EIS Lab No. | Analysis Requested |
|---|---|---|---|---|---|---|
| WT116A | Monitoring well WT116A South side landfill area. | 10:25 | ≈15 | Groundwater from Monitoring well. | 29210 | VOC, SVOC (BNA), Pest/PCB, metals, Cyanide. |
| FD1 | " " | 10:25 | ≈15 | Field Duplicate of WT116A groundwater. | 29211 | " " |
| " " | " " | " " | " " | Sample Containers of same type filled at same time | " " | " " |
| " " | " " | " " | " " | as containers for WT116A | " " | " " |
| WT116 B | " " well WT116B | 14:50 | 60.5 | Groundwater from monitoring well. | 29212 | |

— End of Record 9-21-95 —

J.C.S.

Comment: The above samples were split-sampled with U.S. Army Corps. of Engineers. Actual sample collection was performed by U.S. Army Corps. of Engineers. See Field Observation/Split-Sampling Records for additional details. *Well depths are relative to top of well casing per M. Benak (USACE).

Collectors Name: USACE [Sample collection observed by J.C. Sporleder (EIS)].

Sheet 1 of 1

Project No. 8135-95

# SAMPLE LOG

Client: Bayer Corporation  Site Location: Himco Dump Site Area, Elkhart, Indiana  Date 9-22-95

Equipment Used: Grundfos Pump with Teflon-lined PVC Tubing.  No. of Samples Collected One (1)  Container Size Qt Amber & Plastic VOC Vials

| Sample No. | Sample Location | Time | Depth (FT *' well) | Type of Material | EIS Lab No. | Analysis Requested |
|---|---|---|---|---|---|---|
| WT111A | Monitoring well along south to southwest part of landfill area. | 1150 AM | :21 | Groundwater from monitoring well. | 29765 | VOC, SVOC (BNA), Pest/PCB, metals, Cyanide. |
| | - End of Record 9-22-95 - | | | | | |

Comment: The above samples were split-sampled with U.S. Army Corps. of Engineers. Actual sample collection was performed by U.S. Army Corps. of Engineers. See Field Observation/Split-Sampling Records for additional details. *'well depth is relative to Top of well casing per M. Benak (USACE).

Collectors Name: USACE. [Sample collection observed by J.C. Sporleder (EIS)].

(e)(i)(s)

Sheet 1 of 1

Project No. 8135-95

# SAMPLE LOG

Client: Bayer Corporation  Site Location: Himco Dump Site Area, Elkhart, Indiana  Date 9/22/95

Equipment Used Grundfos BMI/MPI Pump with Teflon Lined PVC Tubing  No. of Samples Collected ~~8~~ one (1) from site.  Container Size Qt Amber Qt Plastic 40cc Vials

| Sample No. | Sample Location | Time | Depth (Well Depth Ft) * | Type of Material | EIS Lab No. | Analysis Requested |
|---|---|---|---|---|---|---|
| WT 01 | Grassy Area at Fringe of Tree Line West to S Pond Lane of Joan Weaver, [illegible] South Lighter | 12:03 | 29.2' ~~20~~ | Monitoring Well Ground Water Sample | 29250 | VOC, SVOC (BNA), Pest/PCB, metals, Cyanide. |
| " " | | " " | " " | " " | " " | " " |
| TB 5B | EIS Lab. | 8:30 | — | DI water Trip Blank | 29251 | " |
| | — End of Record — | | | | | |

Comment: The above samples were split-sampled with U.S. Army Corps. of Engineers. Actual sample collection was performed by U.S. Army Corps. of Engineers. See Field Observation/Split-Sampling Records for additional details. *Depth to bottom of well relative to top of casing per M. Benak (USACE).

Collectors Name: USACE. [Sample collection observed by Mike Martorano (EIS)]

eis

Sheet 1 1

Project No. 8135-95

SAMPLE LOG

Client: Bayer Corporation

Site Location: Himco Dump Site Area, Elkhart, Indiana

Date 9-25-95

Equipment Used Grundfos Pump with Teflon-lined PVC Tubing.

No. of Samples Collected Two (2)

Container Size Qt Amber Qt Plastic VOCC Vials

| Sample No. | Sample Location | Time | Depth (well Ft*) | Type of Material | EIS Lab No. | Analysis Requested |
|---|---|---|---|---|---|---|
| WT118B | well nested with WT111A (there is no well WT118B) | 12:00pm | ≈65 | Monitoring well Groundwater | 29288 | VOC, SVOC (BNA), Pest/PCB, metals, Cyanide. |
| " " | Along South edge of landfill area. | " " | " " | " " | " " | " " |
| WT115A | Single monitoring well, South part of landfill | 15:00pm | ≈19.75 | " " | 29287 | " " |
| | — End of Record 9-25-95 — | | | | | |

Comment: The above samples were split-sampled with U.S. Army Corps. of Engineers. Actual sample collection was performed by U.S. Army Corps. of Engineers. See Field Observation/Split-Sampling Records for additional details.

*well depths relative to top of well casing per Michelle Benak (USACE).

" " " USACE [S. [illegible] collection observed by J.C. Sporleder (EIS)]

eis

Sheet 1

Project No. 8135-95

# SAMPLE LOG

Client: Bayer Corporation

Site Location: Himco Dump Site Area, Elkhart, Indiana

Date 9-25-95

Equipment Used Grundfos BT1/MP1 Pump with Teflon lined PVC Tubing

No. of Samples Collected ~~27~~ Three (3) from Site.

Container Size Qt Amber Qt Plastic 40cc Vials

| Sample No. | Sample Location | Time | Depth (Well Depth) (ft) x3 | Type of Material | EIS Lab No. | Analysis Requested |
|---|---|---|---|---|---|---|
| F101A-FMS/DMS | ~100 yards North of CR 10 Rd Near entrance to dump (right side of entrance) | 10:29 | 18.7 | Monitoring well Ground Water | 29290 | VOC, SVOC (BNA), Pest/PCB, metals, Cyanide. |
| WT 101 B | " | 14 46 | 100 | Monitoring well Ground Water | 29291 | VOC, SVOC (BNA) Pest/PCB, metals, Cyanide |
| FD#2 | Field Duplicate of well WT101B Sample. | 14:10 | 100 | Monitoring well Ground Water | 29292 | VOC, SVOC (BNA) Pest/PCB, Metals, Cyanide |
| TB-6B | EIS Lab. | 4/22/95 8 30AM | - | Trip Blank. (D1 water) | 29293 | VOC, SVOC (BNA) Pest/PCB, Metals Cyanide |

— End of Record —

Comment: The above samples were split-sampled with U.S. Army Corps. of Engineers. Actual sample collection was performed by U.S. Army Corps. of Engineers. See Field Observation/Split-Sampling Records for additional details. * Pump pulled up 2 ft for sampling from this depth.

* Well depth is relative to Top of Casing per M. Benak.

eis

Sheet 1

Project No. 8135-95

# SAMPLE LOG

Client: Bayer Corporation

Site Location: Himco Dump Site Area, Elkhart, Indiana

Date 9-26-95

Equipment Used: Grundfos pump with Teflon-lined PVC tubing

No. of Samples Collected Three (3)

Container Size at Amber at Plastic 40cc Vials

| Sample No. | Sample Location | Time | Depth (FT, well *') | Type of Material | EIS Lab No. | Analysis Requested |
|---|---|---|---|---|---|---|
| WT117A | Monitoring well WT117A, The east well in nest, south to | 10:20Am | 18.4 | Monitoring well Groundwater | 29329 | VOC, SVOC (BNA), Pest/PCB, metals, Cyanide. |
| " " | southwest part of general landfill area. | " " | " " | " " | " " | " " |
| FERB-1 | At well WT117A (above). | 11:30Am | -NA- | Field Equipment rinse blank. Collect with deionized water | 29331 | " " |
| " " | " " | " " | " " | supplied by USACE Pumped from glass Jar through Pump | " " | " " |
| " " | " " | " " | " " | used to sample WT117A after decon. Also Pumped through | " " | " " |
| " " | " " | " " | " " | a piece of tubing (New section) of the type used at WT117A. | " " | " " |
| WT117 B | Monitoring well WT117B, about 10 feet west of | 14:00Pm | 63.4 | Monitoring well Groundwater. | 29330 | " " |
| " " | well WT117A, see above. | " " | " " | " " | " " | " " |
| | - End of Record - | | | | | |

Comment: The above samples were split-sampled with U.S. Army Corps. of Engineers. Actual sample collection was performed by U.S. Army Corps. of Engineers. See Field Observation/Split-Sampling Records for additional details. *' Well depth is relative to top of well casing per M. Benak (USACE).

eis

Sheet 1 of 1

Project No. 8135-95

# SAMPLE LOG

Client: Bayer Corporation

Site Location: Himco Dump Site Area, Elkhart, Indiana

Date 9/26/95

Equipment Used [illegible]

No. of Samples Collected: Two (2) from Site.

Container Size: at Amber at Plastic voce vials

| Sample No. | Sample Location | Time | Depth*1 (Well Depth) (ft) | Type of Material | EIS Lab No. | Analysis Requested |
|---|---|---|---|---|---|---|
| WT E1 | GRASSY AREA ~ SOUTH NORTHERN NORTH SIDE CR 10 APPROXIMATELY 1/2 MILE FROM LIGHT ON JOHN WEAVER RD | 13:03 | 81 | Monitoring well GROUND WATER SAMPLE | 29326 | VOC, SVOC (BNA), Pest/PCB, metals, Cyanide. |
| FERB-2 | " " | 15:25 | — | Field Equipment Rinse Blank DI Water *2 | 29327 | VOC, SVOC (BNA) Pest/PCB, Metals, Cyanide |
| TB-7B | EIS Lab | 9/26/95 08:30 | — | Trip Blank DI | 29328 | VOC |
| | — End of Record — | | | | | |

*2 FERB-2 collected with deionized water supplied by USACE Pumped from glass jar through Pump used to sample WTE1 after decon also through section of tubing of type used at WTE1. (S.C.S.)

Comment: The above samples were split-sampled with U.S. Army Corps. of Engineers. Actual sample collection was performed by U.S. Army Corps. of Engineers. See Field Observation/Split-Sampling Records for additional details. *1 Pump raised 5ft from this (total) depth. Intake therefore is 76ft. Well depth is relative to Top of well casing per M. Benak (USACE).

Collectors Name: USACE. [Sample collection observed by J.C. Sporleder (EIS)]

# APPENDIX D
# FIELD OBSERVATION/SPLIT-SAMPLING REPORTS

# FIELD OBSERVATION/SPLIT-SAMPLING REPORT
# MONITORING WELL SAMPLING

**Well I.D.:** WT113A **EIS Client Name:** Bayer Corporation
**Well Location:** General Himco Landfill Area **EIS Project Number:** 8135-95
Elkhart, IN (see site map)
**EIS Observer Name:** J.C. Sporleder, C.P.G.
**Sampler/Affiliation Name:** Steve Pearson, /U.S. Army Corps of Engineers (USACE)
Michelle Benak and Carolyn Schwafel

**Purge:**

Time/Date: 11:35 A.M. / 9-18-95
Volume: 10 gal. (well depth from top of casing = 25 ft. per Steve Pearson).
Equipment: Grundfos BMI/MPI Pump with Teflon-lined PVC Tubing.
Procedure: Checked air with HNU PID and explosion meter after well cap removal. Groundwater pumped through QED "Purge Saver" meter while doing field tests for stabilization.

**Field Tests:**

| Test | Yes/No | Equipment | Comment |
|---|---|---|---|
| Static Water Level | Yes | Slope Indicator | --- |
| Well Depth | Yes | Water Level Indicator | See "Other Notes" Below |
| pH | Yes | QED "Purge Saver" | During Purge (in-line) |
| Conductivity | Yes | QED "Purge Saver" | During Purge (in-line) |
| DO | Yes | QED "Purge Saver" | During Purge (in-line) |
| Temperature | Yes | QED "Purge Saver" | During Purge (in-line) |
| Turbidity | Yes | HF Scientific DRT 15C | During Purge (at discharge) |

**Sampling:**

Time/Date: 12:45 P.M. / 9-18-95
Weather: 60°F to 70°F, mostly clear, 5 - 10 mph wind.
Equipment: Grundfos BMI/MPI Pump with Teflon-lined PVC Tubing.
Procedure: Equipment placed on new plastic sheeting. Work zone delineated around well with caution tape. USACE samplers collected sample sets for both USACE and EIS split-samples. Samplers wore new disposable gloves and Tyvek during sample collection. Containers of like type for both USACE and EIS sets were collected at the same time. Samples for metals were not filtered in field. Flow reduced for sampling. USACE vial caps used as cups during sample collection; EIS caps were not.
Containers Collected: USACE: Vials = 2, Qt. Amber = 4, Qt. Plastic = 2.
EIS: Vials = 2, Qt. Amber = 3, Qt. Plastic ($HNO_3$) = 1, Qt. Plastic (NaOH) = 1
Container Packing Procedure: Containers were bagged and put in iced cooler. Preservatives were added in field for USACE vials and plastic containers.

Decon. Procedure: Liquinox detergent wash in plastic tray, then distilled water rinse in plastic tray, followed by deionized water spray from plastic pump sprayer with metal wand. Water indicator decon'd with detergent soaked paper towel and distilled water soaked paper towel during removal from well. Pump taken apart for decon. Equipment placed in plastic bags after decon.
Waste Liquid Handling: Purge and decon fluids contained in totes on USACE trucks for later pumping to large tank at site.

**Well I.D.:** WT113A **EIS Client Name:** Bayer Corporation

Other Notes: Well depth was checked 9/16/95 per Steve Pearson 9/18/95. End of sampling tube contacted ground during purge but was sprayed with deionized water prior to sampling. Generator about 25 ft. SE of well, apparently downwind. Black liquid flowed out of pump housing during decon. Mr. Schneider indicated that the pump should only contain deionized water lubricant and suggested that the black liquid may have come from degradation of pump parts within the pump housing.

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The above field report is based on field records made at the Site by the indicated EIS observer. This report has been reviewed by:

J. C. [signature] (Observer Name)

10-12-95 (Date)

# FIELD OBSERVATION/SPLIT-SAMPLING REPORT
# MONITORING WELL SAMPLING

**Well I.D.:** WT113B **EIS Client Name:** Bayer Corporation
**Well Location:** General Himco Landfill Area **EIS Project Number:** 8135-95
Elkhart, IN (see site map)
**EIS Observer Name:** J.C. Sporleder, C.P.G.
**Sampler/Affiliation Name:** Scott Schneider, /U.S. Army Corps of Engineers (USACE)
Michelle Benak, Steve Pearson and Carolyn Schwafel

**Purge:**

Time/Date: 15:10 P.M. / 9-18-95
Volume: ≈56 gal. (well depth from top of casing = 70 ft. per Steve Pearson).
Equipment: Grundfos BMI/MPI Pump with Teflon-lined PVC Tubing.
Procedure: Checked air with HNU PID and explosion meter after well cap removal. Groundwater pumped through QED "Purge Saver" meter while doing field tests for stabilization.

**Field Tests:**

| Test | Yes/No | Equipment | Comment |
|---|---|---|---|
| Static Water Level | Yes | Slope Indicator | --- |
| Well Depth | Yes | Water Level Indicator | See "Other Notes" Below |
| pH | Yes | QED "Purge Saver" | During Purge (in-line) |
| Conductivity | Yes | QED "Purge Saver" | During Purge (in-line) |
| DO | Yes | QED "Purge Saver" | During Purge (in-line) |
| Temperature | Yes | QED "Purge Saver" | During Purge (in-line) |
| Turbidity | Yes | LaMotte Chemical Model 2008 | During Purge (at discharge) |

**Sampling:**

Time/Date: 16:25 P.M. / 9-18-95
Weather: 60's°F, partly cloudy, 5 - 10 mph wind.
Equipment: Grundfos BMI/MPI Pump with Teflon-lined PVC Tubing.
Procedure: Equipment placed on new plastic sheeting. Work zone delineated around well with caution tape. USACE samplers collected sample sets for both USACE and EIS split-samples. Samplers wore new disposable gloves and Tyvek during sample collection. Containers of like type for both USACE and EIS sets were collected at the same time. Samples for metals were not filtered in field. Flow reduced for sampling. USACE vial caps used as cups during sample collection; EIS caps were not. Flow reduced for sampling.
Containers Collected: USACE: Vials = 2, Qt. Amber = 4, Qt. Plastic = 2.
EIS: Vials = 2, Qt. Amber = 3, Qt. Plastic ($HNO_3$) = 1, Qt. Plastic (NaOH) = 1
Container Packing Procedure: Containers were bagged and put in iced cooler. Preservatives added in field for USACE vials and plastic containers.

Decon. Procedure: Liquinox detergent wash in plastic tray, then distilled water rinse in plastic tray, followed by deionized water spray from plastic pump sprayer with metal wand. Water indicator decon'd with detergent soaked paper towel and distilled water soaked paper towel during removal from well. Pump taken apart for decon. Equipment placed in plastic bags after decon.
Waste Liquid Handling: Purge and decon fluids contained in totes on USACE trucks for later pumping to large tank at site.

**Well I.D.:** WT113B **EIS Client Name:** Bayer Corporation

Other Notes: Well depth was checked 9/16/95 per Steve Pearson 9/18/95. Sample tubing occasionally touched sampler's boots and edge of containment bucket. Samplers walked on and off plastic sheeting prior to placement of sampling tubing on same sheet. Generator was about 25 feet SE of well, generally downwind; however, wind was erratic and generator was at times upwind. Well was found uncapped, but locked at start of procedures.

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The above field report is based on field records made at the Site by the indicated EIS observer. This report has been reviewed by:

J.C. [signature] (Observer Name)

10-12-95 (Date)

# FIELD OBSERVATION/SPLIT-SAMPLING REPORT
# MONITORING WELL SAMPLING

**Well I.D.:** WT112A (&MS/DMS) **EIS Client Name:** Bayer Corporation
**Well Location:** General Himco Landfill Area **EIS Project Number:** 8135-95
Elkhart, IN (see site map)
**EIS Observer Name:** J.C. Sporleder, C.P.G.
**Sampler/Affiliation Name:** Steve Pearson, /U.S. Army Corps of Engineers (USACE)
Carolyn Schwafel and Scott Schneider

**Purge:**

Time/Date: 8:40 A.M. / 9-19-95
Volume: 5+ gal. (well depth from top of casing = 18 ft. per Steve Pearson).
Equipment: Grundfos BMI/MPI Pump with Teflon-lined PVC Tubing.
Procedure: Checked air with HNU PID and explosion meter after well cap removal. Groundwater pumped through QED "Purge Saver" meter while doing field tests for stabilization.

**Field Tests:**

| Test | Yes/No | Equipment | Comment |
|---|---|---|---|
| Static Water Level | Yes | Slope Indicator | --- |
| Well Depth | Yes | Water Level Indicator | See "Other Notes" Below |
| pH | Yes | QED "Purge Saver" | During Purge (in-line) |
| Conductivity | Yes | QED "Purge Saver" | During Purge (in-line) |
| DO | Yes | QED "Purge Saver" | During Purge (in-line) |
| Temperature | Yes | QED "Purge Saver" | During Purge (in-line) |
| Turbidity | Yes | HF Scientific DRT 15C | During Purge (at discharge) |

**Sampling:**

Time/Date: 9:50 A.M. / 9-19-95
Weather: 50s°F, Wind <5 mph. Hazy, overcast.
Equipment: Grundfos BMI/MPI Pump with Teflon-lined PVC Tubing.
Procedure: Equipment placed on new plastic sheeting. Work zone delineated around well with caution tape. USACE samplers collected sample sets for both USACE and EIS split-samples. Samplers wore new disposable gloves and Tyvek during sample collection. Containers of like type for both USACE and EIS sets were collected at the same time. Samples for metals were not filtered in field. Flow reduced for sampling. USACE vial caps used as cups during sample collection; EIS caps were not.
Containers Collected: USACE: Vials = 8, Qt. Amber = 12, Qt. Plastic = ?
EIS: Vials = 4, Qt. Amber = 6, Qt. Plastic ($HNO_3$) = 2, Qt. Plastic (NaOH) = 2
Container Packing Procedure: Containers were bagged and put in iced cooler. USACE vials and plastic containers were pre-preserved, and the plastic containers were field checked with test paper.

Decon. Procedure: Liquinox detergent wash in plastic tray, then distilled water rinse in plastic tray, followed by deionized water spray from plastic pump sprayer with metal wand. Water indicator decon'd with detergent soaked paper towel and distilled water soaked paper towel during removal from well. Pump taken apart for decon. Equipment placed in plastic bags after decon.
Waste Liquid Handling: Purge and decon fluids contained in totes on USACE trucks for later pumping to large tank at site.

**Well I.D.:** WT112A (&MS/DMS) **EIS Client Name:** Bayer Corporation

Other Notes: Well depth was checked 9/16/95 per Steve Pearson 9/18/95. Extra volume collected from this well for MS/DMS. Generator placed about 35 feet west of well using extension cord.

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The above field report is based on field records made at the Site by the indicated EIS observer. This report has been reviewed by:

J. C. [signature] (Observer Name)

10-12-95 (Date)

# FIELD OBSERVATION/SPLIT-SAMPLING REPORT
# MONITORING WELL SAMPLING

**Well I.D.:** WT112B **EIS Client Name:** Bayer Corporation
**Well Location:** General Himco Landfill Area **EIS Project Number:** 8135-95
Elkhart, IN (see site map)
**EIS Observer Name:** J.C. Sporleder, C.P.G.
**Sampler/Affiliation Name:** Michelle Benak and /U.S. Army Corps of Engineers (USACE)
Scott Schneider

**Purge:**

Time/Date: 14:00 P.M. / 9-19-95
Volume: ≈50 gal. (well depth from top of casing = 62.3 ft. per Michelle Benak).
Equipment: Grundfos BMI/MPT Pump with Teflon-lined PVC Tubing.
Procedure: Checked air with HNU PID and explosion meter after well cap removal. Groundwater pumped through QED "Purge Saver" meter while doing field tests for stabilization.

**Field Tests:**

| Test | Yes/No | Equipment | Comment |
|---|---|---|---|
| Static Water Level | Yes | Slope Indicator | --- |
| Well Depth | Yes | Water Level Indicator | See "Other Notes" Below |
| pH | Yes | QED "Purge Saver" | During Purge (in-line) |
| Conductivity | Yes | QED "Purge Saver" | During Purge (in-line) |
| DO | Yes | QED "Purge Saver" | During Purge (in-line) |
| Temperature | Yes | QED "Purge Saver" | During Purge (in-line) |
| Turbidity | Yes | LaMotte Chemical Model 2008 | During Purge (at discharge) |

**Sampling:**

Time/Date: 16:10 P.M. / 9-19-95
Weather: ≈55-60° F, overcast, wind <5 mph.
Equipment: Grundfos BMT/MPI Pump with Teflon-lined PVC Tubing.
Procedure: Equipment placed on new plastic sheeting. Work zone delineated around well with caution tape. USACE samplers collected sample sets for both USACE and EIS split-samples. Samplers wore new disposable gloves and Tyvek during sample collection. Containers of like type for both USACE and EIS sets were collected at the same time. Samples for metals were not filtered in field. Flow reduced for sampling. USACE vial caps used as cups during sample collection; EIS caps were not. Flow reduced for sampling.
Containers Collected: USACE: Vials = 2, Qt. Amber = 4, Qt. Plastic = 2.
EIS: Vials = 2, Qt. Amber = 3, Qt. Plastic ($HNO_3$) = 1, Qt. Plastic (NaOH) = 1
Container Packing Procedure: Containers were bagged and put in iced cooler. USACE vials and plastic containers pre-preserved and were not field checked with test paper.

Decon. Procedure: Liquinox detergent wash in plastic tray, then distilled water rinse in plastic tray, followed by deionized water spray from plastic pump sprayer with metal wand. Water indicator decon'd with detergent soaked paper towel and distilled water soaked paper towel during removal from well. Pump taken apart for decon. Equipment placed in plastic bags after decon.
Waste Liquid Handling: Purge and decon fluids contained in totes on USACE trucks for later pumping to large tank at site.

**Well I.D.:** WT112B **EIS Client Name:** Bayer Corporation

Other Notes: Well depth was checked 9/16/95 per Steve Pearson 9/18/95. Tubing became tangled and kinked and touched the ground, procover and bollards during placement. The end of tubing that touched ground was cut off before purging. Pump was set about 2.5 feet from bottom of well. Generator was 15 to 20 feet southwest from well (the extension cord used at WT112A was used by other sampling team).

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The above field report is based on field records made at the Site by the indicated EIS observer. This report has been reviewed by:

J.C. Upchurch (Observer Name) 10-12-95 (Date)

# FIELD OBSERVATION/SPLIT-SAMPLING REPORT
# MONITORING WELL SAMPLING

**Well I.D.:** WT102A **EIS Client Name:** Bayer Corporation
**Well Location:** General Himco Landfill Area **EIS Project Number:** 8135-95
Elkhart, IN (see site map)
**EIS Observer Name:** Michael A. Martorano
**Sampler/Affiliation Name:** Steve Pearson and /U.S. Army Corps of Engineers (USACE)
Carolyn Schwafel

**Purge:**

Time/Date: 14:25 P.M. / 9-20-95
Volume: 5 gal. (well depth from top of casing = 18.02 ft. per Steve Pearson).
Equipment: Grundfos BTI/MPI Pump with Teflon-lined PVC Tubing.
Procedure: Checked air with HNU PID and explosion meter after well cap removal. Groundwater pumped through QED "Purge Saver" meter while doing field tests for stabilization.

**Field Tests:**

| Test | Yes/No | Equipment | Comment |
|---|---|---|---|
| Static Water Level | Yes | Slope Indicator | --- |
| Well Depth | Yes | Water Level Indicator | See "Other Notes" Below |
| pH | Yes | QED "Purge Saver" | During Purge (in-line) |
| Conductivity | Yes | QED "Purge Saver" | During Purge (in-line) |
| DO | Yes | QED "Purge Saver" | During Purge (in-line) |
| Temperature | Yes | QED "Purge Saver" | During Purge (in-line) |
| Turbidity | Yes | HF Scientific DRT15C | During Purge (at discharge) |

**Sampling:**

Time/Date: 14:56 P.M. / 9-20-95
Weather: ≈65-70°F, overcast, wind 0-5 mph.
Equipment: Grundfos BTI/MPI Pump with Teflon-lined PVC Tubing.
Procedure: Equipment placed on new plastic sheeting. Work zone delineated around well with caution tape. USACE samplers collected sample sets for both USACE and EIS split-samples. Samplers wore new disposable gloves and Tyvek during sample collection. Containers of like type for both USACE and EIS sets were collected at the same time. Samples for metals were not filtered in field. USACE vial caps used as cups during sample collection; EIS caps were not. Pump rate slowed prior to sampling.
Containers Collected: USACE: Vials = 2, Qt. Amber = 4, Qt. Plastic = 2
EIS: Vials = 2, Qt. Amber = 3, Qt. Plastic ($HNO_3$) = 1, Qt. Plastic (NaOH) = 1
Container Packing Procedure: Containers were bagged and put in iced cooler.

Decon. Procedure: Liquinox detergent wash in plastic tray, then distilled water rinse in plastic tray, followed by deionized water spray from plastic pump sprayer with metal wand. Water indicator decon'd with detergent soaked paper towel and distilled water soaked paper towel during removal from well. Pump taken apart for decon. Equipment placed in plastic bags after decon.
Waste Liquid Handling: Purge and decon fluids contained in totes on USACE trucks for later pumping to large tank at site.

**Well I.D.:** WT102A **EIS Client Name:** Bayer Corporation

Other Notes: Well depth was checked 9/16/95 per Steve Pearson 9/18/95. Knife used to cut end of sample tubing was not decontaminated, but was pulled directly from USACE worker's pocket. Sample tubing at times contacted metal well cover.

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The above field report is based on field records made at the Site by the indicated EIS observer. This report has been reviewed by:

Michael A. Martinez (Observer Name) 10/12/95 (Date)

# FIELD OBSERVATION/SPLIT-SAMPLING REPORT
# MONITORING WELL SAMPLING

**Well I.D.:** WT102B **EIS Client Name:** Bayer Corporation
**Well Location:** General Himco Landfill Area **EIS Project Number:** 8135-95
Elkhart, IN (see site map)
**EIS Observer Name:** J.C. Sporleder, C.P.G.
**Sampler/Affiliation Name:** Michelle Benak and /U.S. Army Corps of Engineers (USACE)
Scott Schneider

**Purge:**

Time/Date: 11:20 A.M. / 9-20-95
Volume: ≈55 gal. (well depth from top of casing = 67.5 ft. per Michelle Benak).
Equipment: Grundfos BMI/MPI Pump with Teflon-lined PVC Tubing.
Procedure: Checked air with HNU PID and explosion meter after well cap removal. Groundwater pumped through QED "Purge Saver" meter while doing field tests for stabilization.

**Field Tests:**

| Test | Yes/No | Equipment | Comment |
|---|---|---|---|
| Static Water Level | Yes | Slope Indicator | --- |
| Well Depth | Yes | Water Level Indicator | See "Other Notes" Below |
| pH | Yes | QED "Purge Saver" | During Purge (in-line) |
| Conductivity | Yes | QED "Purge Saver" | During Purge (in-line) |
| DO | Yes | QED "Purge Saver" | During Purge (in-line) |
| Temperature | Yes | QED "Purge Saver" | During Purge (in-line) |
| Turbidity | Yes | HF Scientific DRT 15C | During Purge (at discharge) |

**Sampling:**

Time/Date: 13:20 A.M. / 9-20-95
Weather: 55-60°F, overcast, wind 0 - 5 mph from the east.
Equipment: Grundfos BMI/MPI Pump with Teflon-lined PVC Tubing.
Procedure: Equipment placed on new plastic sheeting. Work zone delineated around well with caution tape. USACE samplers collected sample sets for both USACE and EIS split-samples. Samplers wore new disposable gloves and Tyvek during sample collection. Containers of like type for both USACE and EIS sets were collected at the same time. Samples for metals were not filtered in field. Pump flow reduced for sampling. USACE vial caps used as cups during sample collection; EIS caps were not. USACE containers were pre-preserved.
Containers Collected: USACE: Vials = 2, Qt. Amber = 4, Qt. Plastic = 2
EIS: Vials = 2, Qt. Amber = 3, Qt. Plastic ($HNO_3$) = 1, Qt. Plastic (NaOH) = 1
Container Packing Procedure: Containers were bagged and put in iced cooler.

Decon. Procedure: Liquinox detergent wash in plastic tray, then distilled water rinse in plastic tray, followed by deionized water spray from plastic pump sprayer with metal wand. Water indicator decon'd with detergent soaked paper towel and distilled water soaked paper towel during removal from well. Pump taken apart for decon. Equipment placed in plastic bags after decon.
Waste Liquid Handling: Purge and decon fluids contained in totes on USACE trucks for later pumping to large tank at site.

**Well I.D.:** WT102B **EIS Client Name:** Bayer Corporation

Other Notes: Well depth was checked 9/16/95 per Steve Pearson 9/18/95. Pump encountered obstructions at three depths and had to be "bounced" to allow passage to greater depths. Pump was set at ≈2.5 ft. from bottom of well. Generator was about 20 feet southwest of well.

The above field report is based on field records made at the Site by the indicated EIS observer. This report has been reviewed by:

[signature] 10-12-95

(Observer Name) (Date)

# FIELD OBSERVATION/SPLIT-SAMPLING REPORT
# MONITORING WELL SAMPLING

**Well I.D.:** WT114A **EIS Client Name:** Bayer Corporation
**Well Location:** General Himco Landfill Area **EIS Project Number:** 8135-95
Elkhart, IN (see site map)
**EIS Observer Name:** Michael A. Martorano
**Sampler/Affiliation Name:** Scott Schneider and /U.S. Army Corps of Engineers (USACE)
Michelle Benak

**Purge:**

Time/Date: 13:15 P.M. / 9-21-95
Volume: 10 gal. (well depth from top of casing = 24.5 ft. per Michelle Benak).
Equipment: Grundfos BMI/MPI Pump with Teflon-lined PVC Tubing.
Procedure: Checked air with HNU PID and explosion meter after well cap removal. Groundwater pumped through QED "Purge Saver" meter while doing field tests for stabilization.

**Field Tests:**

| Test | Yes/No | Equipment | Comment |
|---|---|---|---|
| Static Water Level | Yes | Slope Indicator | --- |
| Well Depth | Yes | Water Level Indicator | See "Other Notes" Below |
| pH | Yes | QED "Purge Saver" | During Purge (in-line) |
| Conductivity | Yes | QED "Purge Saver" | During Purge (in-line) |
| DO | Yes | QED "Purge Saver" | During Purge (in-line) |
| Temperature | Yes | QED "Purge Saver" | During Purge (in-line) |
| Turbidity | Yes | LaMotte Chemical 2008 Turbidity Meter | During Purge (at discharge) |

**Sampling:**

Time/Date: 14:10 P.M. / 9-21-95
Weather: ≈50-60°F, overcast, light rain, wind 0-5 mph.
Equipment: Grundfos BMI/MPI Pump with Teflon-lined PVC Tubing.
Procedure: Equipment placed on new plastic sheeting. Work zone delineated around well with caution tape. USACE samplers collected sample sets for both USACE and EIS split-samples. Samplers wore new disposable gloves and Tyvek during sample collection. Containers of like type for both USACE and EIS sets were collected at the same time. Samples for metals were not filtered in field. USACE vial caps used as cups during sample collection; EIS caps were not. Pump rate slowed prior to sampling.
Containers Collected: USACE: Vials = 2, Qt. Amber = 4, Qt. Plastic = 2
EIS: Vials = 2, Qt. Amber = 3, Qt. Plastic ($HNO_3$) = 1, Qt. Plastic (NaOH) = 1
Container Packing Procedure: Containers were bagged and put in iced cooler.

Decon. Procedure: Liquinox detergent wash in plastic tray, then distilled water rinse in plastic tray, followed by deionized water spray from plastic pump sprayer with metal wand. Water indicator decon'd with detergent soaked paper towel and distilled water soaked paper towel during removal from well. Pump taken apart for decon. Equipment placed in plastic bags after decon.
Waste Liquid Handling: Purge and decon fluids contained in totes on USACE trucks for later pumping to large tank at site.

**Well I.D.:** WT114A **EIS Client Name:** Bayer Corporation

Other Notes: Well depth was checked 9/16/95 per Steve Pearson 9/18/95. There was an attempt to sample this well on 9-19-95 which was halted due to generator failure. Exhaust fumes from passing traffic were strong at times at this nest.

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The above field report is based on field records made at the Site by the indicated EIS observer. This report has been reviewed by:

Michael A. Martinano (Observer Name) 10/12/95 (Date)

# FIELD OBSERVATION/SPLIT-SAMPLING REPORT
# MONITORING WELL SAMPLING

**Well I.D.:** WT114B **EIS Client Name:** Bayer Corporation
**Well Location:** General Himco Landfill Area **EIS Project Number:** 8135-95
Elkhart, IN (see site map)
**EIS Observer Name:** Michael A. Martorano
**Sampler/Affiliation Name:** Scott Schneider and /U.S. Army Corps of Engineers (USACE)
Michelle Benak

**Purge:**

Time/Date: 09:27 A.M. / 9-21-95
Volume: 50 gal. (well depth from top of casing = 67.6 ft. per Michelle Benak).
Equipment: Grundfos BMI/MPI Pump with Teflon-lined PVC Tubing.
Procedure: Checked air with HNU PID and explosion meter after well cap removal. Groundwater pumped through QED "Purge Saver" meter while doing field tests for stabilization.

**Field Tests:**

| Test | Yes/No | Equipment | Comment |
|---|---|---|---|
| Static Water Level | Yes | Slope Indicator | --- |
| Well Depth | Yes | Water Level Indicator | See "Other Notes" Below |
| pH | Yes | QED "Purge Saver" | During Purge (in-line) |
| Conductivity | Yes | QED "Purge Saver" | During Purge (in-line) |
| DO | Yes | QED "Purge Saver" | During Purge (in-line) |
| Temperature | Yes | QED "Purge Saver" | During Purge (in-line) |
| Turbidity | Yes | LaMotte Chemical 2008 Turbidity Meter | During Purge (at discharge) |

**Sampling:**

Time/Date: 10:35 A.M. / 9-21-95
Weather: ≈60° F, overcast, wind 0-5 mph.
Equipment: Grundfos BMI/MPI Pump with Teflon-lined PVC Tubing.
Procedure: Equipment placed on new plastic sheeting. Work zone delineated around well with caution tape. USACE samplers collected sample sets for both USACE and EIS split-samples. Samplers wore new disposable gloves and Tyvek during sample collection. Containers of like type for both USACE and EIS sets were collected at the same time. Samples for metals were not filtered in field. USACE vial caps used as cups during sample collection; EIS caps were not. Pump rate slowed prior to sampling.
Containers Collected: USACE: Vials = 2, Qt. Amber = 4, Qt. Plastic = 2
EIS: Vials = 2, Qt. Amber = 3, Qt. Plastic ($HNO_3$) = 1, Qt. Plastic (NaOH) = 1
Container Packing Procedure: Containers were bagged and put in iced cooler.

Decon. Procedure: Liquinox detergent wash in plastic tray, then distilled water rinse in plastic tray, followed by deionized water spray from plastic pump sprayer with metal wand. Water indicator decon'd with detergent soaked paper towel and distilled water soaked paper towel during removal from well. Pump taken apart for decon. Equipment placed in plastic bags after decon.
Waste Liquid Handling: Purge and decon fluids contained in totes on USACE trucks for later pumping to large tank at site.

**Well I.D.:** WT114B **EIS Client Name:** Bayer Corporation

Other Notes: Well depth was checked 9/16/95 per Steve Pearson 9/18/95. Exhaust fumes from passing traffic were strong at times in the area of this nest. Sample tubing contacted orange marker posts surrounding the well at times during lowering of the pump.

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The above field report is based on field records made at the Site by the indicated EIS observer. This report has been reviewed by:

Michael A. Martorano (Observer Name) 10/12/95 (Date)

# FIELD OBSERVATION/SPLIT-SAMPLING REPORT
# MONITORING WELL SAMPLING

**Well I.D.:** WT116A (&FD-1) **EIS Client Name:** Bayer Corporation
**Well Location:** General Himco Landfill Area **EIS Project Number:** 8135-95
Elkhart, IN (see site map)
**EIS Observer Name:** J.C. Sporleder, C.P.G.
**Sampler/Affiliation Name:** Steve Pearson, /U.S. Army Corps of Engineers (USACE)
Carolyn Schwafel and Joni Rhiner

**Purge:**

Time/Date: 9:15 A.M. / 9-21-95
Volume: 13 gal. (well depth from top of casing = 15 ft. per Steve Pearson).
Equipment: Grundfos BTI/MPI Pump with Teflon-lined PVC Tubing.
Procedure: Checked air with HNU PID and explosion meter after well cap removal. Groundwater pumped through QED "Purge Saver" meter while doing field tests for stabilization.

**Field Tests:**

| Test | Yes/No | Equipment | Comment |
|---|---|---|---|
| Static Water Level | Yes | Slope Indicator | --- |
| Well Depth | Yes | Water Level Indicator | See "Other Notes" Below |
| pH | Yes | QED "Purge Saver" | During Purge (in-line) |
| Conductivity | Yes | QED "Purge Saver" | During Purge (in-line) |
| DO | Yes | QED "Purge Saver" | During Purge (in-line) |
| Temperature | Yes | QED "Purge Saver" | During Purge (in-line) |
| Turbidity | Yes | HF Scientific DRT 15C | During Purge (at discharge) |

**Sampling:**

Time/Date: 10:25 A.M. / 9-21-95
Weather: ≈55°F, overcast, <5 mph wind, variable directions.
Equipment: Grundfos BTI/MPI Pump with Teflon-lined PVC Tubing.
Procedure: Equipment placed on new plastic sheeting. Work zone delineated around well with caution tape. USACE samplers collected sample sets for both USACE and EIS split-samples. Samplers wore new disposable gloves and Tyvek during sample collection. Containers of like type for both USACE and EIS sets were collected at the same time. Samples for metals were not filtered in field. USACE vial caps used as cups during sample collection; EIS caps were not. Flow slowed for sampling.
Containers Collected: USACE: Vials = 4, Qt. Amber = 8, Qt. Plastic = 4
EIS: Vials = 4, Qt. Amber = 6, Qt. Plastic ($HNO_3$) = 2, Qt. Plastic (NaOH) = 2
Container Packing Procedure: Containers were bagged and put in iced cooler.

Decon. Procedure: Liquinox detergent wash in plastic tray, then distilled water rinse in plastic tray, followed by deionized water spray from plastic pump sprayer with metal wand. Water indicator decon'd with detergent soaked paper towel and distilled water soaked paper towel during removal from well. Pump taken apart for decon. Equipment placed in plastic bags after decon.
Site Liquid Handling: Purge and decon fluids contained in totes on USACE trucks for later pumping to large tank at site.

**Well I.D.:** WT116A (&FD-1) **EIS Client Name:** Bayer Corporation

Other Notes: Well depth was checked 9/16/95 per Steve Pearson 9/18/95. A Field Duplicate was collected at the same time as regular set. [EIS I.D. was FD1; the USACE I.D. was EARQO (organics) and MEAF67 (inorganics.)] Pump placed 1 ft. from bottom. Purge water was black to gray with strong unusual odor. Generator about 20 ft. northeast of well. Carolyn Schwafel indicated that the PID gave elevated responses in air about 10-15 ft. northeast of well, toward the generator, but not directly over the odorous purge water.

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The above field report is based on field records made at the Site by the indicated EIS observer. This report has been reviewed by: J.C. [signature] 10-12-95

(Observer Name) (Date)

# FIELD OBSERVATION/SPLIT-SAMPLING REPORT
# MONITORING WELL SAMPLING

**Well I.D.:** WT116B **EIS Client Name:** Bayer Corporation
**Well Location:** General Himco Landfill Area **EIS Project Number:** 8135-95
Elkhart, IN (see site map)
**EIS Observer Name:** J.C. Sporleder, C.P.G.
**Sampler/Affiliation Name:** Steve Pearson, /U.S. Army Corps of Engineers (USACE)
Carolyn Schwafel and (Joni Rhiner for purge only)

**Purge:**

Time/Date: 13:05 P.M. / 9-21-95
Volume: ≈45 gal. (well depth from top of casing = 60.49 ft. per Steve Pearson).
Equipment: Grundfos BTI/MPI Pump with Teflon-lined PVC Tubing.
Procedure: Checked air with HNU PID and explosion meter after well cap removal. Groundwater pumped through QED "Purge Saver" meter while doing field tests for stabilization.

**Field Tests:**

| Test | Yes/No | Equipment | Comment |
|---|---|---|---|
| Static Water Level | Yes | Slope Indicator | --- |
| Well Depth | Yes | Water Level Indicator | See "Other Notes" Below |
| pH | Yes | QED "Purge Saver" | During Purge (in-line) |
| Conductivity | Yes | QED "Purge Saver" | During Purge (in-line) |
| DO | Yes | QED "Purge Saver" | During Purge (in-line) |
| Temperature | Yes | QED "Purge Saver" | During Purge (in-line) |
| Turbidity | Yes | HF Scientific DRT 15C | During Purge (at discharge) |

**Sampling:**

Time/Date: 14:50 P.M. / 9-21-95
Weather: ≈54°F, steady drizzle to light rain, 0-5 mph wind with reversing directions.
Equipment: Grundfos BTI/MPI Pump with Teflon-lined PVC Tubing.
Procedure: Equipment placed on new plastic sheeting. Work zone delineated around well with caution tape. USACE samplers collected sample sets for both USACE and EIS split-samples. Samplers wore new disposable gloves and Tyvek during sample collection. Containers of like type for both USACE and EIS sets were collected at the same time. Samples for metals were not filtered in field. USACE vial caps used as cups during sample collection; EIS caps were not. Flow slowed for sampling.
Containers Collected: USACE: Vials = 2, Qt. Amber = 4, Qt. Plastic = 2
EIS: Vials = 2, Qt. Amber = 3, Qt. Plastic ($HNO_3$) = 1, Qt. Plastic (NaOH) = 1
Container Packing Procedure: Containers were bagged and put in iced cooler.

Decon. Procedure: Liquinox detergent wash in plastic tray, then distilled water rinse in plastic tray, followed by deionized water spray from plastic pump sprayer with metal wand. Water indicator decon'd with detergent soaked paper towel and distilled water soaked paper towel during removal from well. Pump taken apart for decon. Equipment placed in plastic bags after decon.
Waste Liquid Handling: Purge and decon fluids contained in totes on USACE trucks for later pumping to large tank at site.

**Well I.D.:** WT116B **EIS Client Name:** Bayer Corporation

Other Notes: Well depth was checked 9/16/95 per Steve Pearson 9/18/95. Pump set 2 ft. from well bottom. Tubing became tangled and kinked and touched bollards during placement. The generator was about 20 ft. northwest of well. Shifting wind directions sometimes placed well downwind of generator; however, strings hung on branches indicated still air during the filling of vials. Water appeared clear from start of purge and did not have an odor per Mr. Pearson.

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The above field report is based on field records made at the Site by the indicated EIS observer. This report has been reviewed by: J.C. [signature] 10-12-95

(Observer Name) (Date)

# FIELD OBSERVATION/SPLIT-SAMPLING REPORT
# MONITORING WELL SAMPLING

**Well I.D.:** WT01 **EIS Client Name:** Bayer Corporation
**Well Location:** General Himco Landfill Area **EIS Project Number:** 8135-95
Elkhart, IN (see site map)
**EIS Observer Name:** Michael A. Martorano
**Sampler/Affiliation Name:** Scott Schneider and /U.S. Army Corps of Engineers (USACE)
Carolyn Schwafel

**Purge:**

Time/Date: 10:45 A.M. / 9-22-95
Volume: 17 gal. (well depth from top of casing = 29.2 ft. per Scott Schneider).
Equipment: Grundfos BMI/MPI Pump with Teflon-lined PVC Tubing.
Procedure: Checked air with HNU PID and explosion meter after well cap removal. Groundwater pumped through QED "Purge Saver" meter while doing field tests for stabilization.

**Field Tests:**

| Test | Yes/No | Equipment | Comment |
|---|---|---|---|
| Static Water Level | Yes | Slope Indicator | --- |
| Well Depth | Yes | Water Level Indicator | See "Other Notes" Below |
| pH | Yes | QED "Purge Saver" | During Purge (in-line) |
| Conductivity | Yes | QED "Purge Saver" | During Purge (in-line) |
| DO | Yes | QED "Purge Saver" | During Purge (in-line) |
| Temperature | Yes | QED "Purge Saver" | During Purge (in-line) |
| Turbidity | Yes | LaMotte Chemical 2008 Turbidity Meter | During Purge (at discharge) |

**Sampling:**

Time/Date: 12:03 P.M. / 9-22-95
Weather: ≈50-60°F, clear, wind 5-10 mph.
Equipment: Grundfos BMI/MPI Pump with Teflon-lined PVC Tubing.
Procedure: Equipment placed on new plastic sheeting. Work zone delineated around well with caution tape. USACE samplers collected sample sets for both USACE and EIS split-samples. Samplers wore new disposable gloves and Tyvek during sample collection. Containers of like type for both USACE and EIS sets were collected at the same time. Samples for metals were not filtered in field. USACE vial caps used as cups during sample collection; EIS caps were not. Pump rate slowed prior to sampling.
Containers Collected: USACE: Vials = 2, Qt. Amber = 4, Qt. Plastic = 2
EIS: Vials = 2, Qt. Amber = 3, Qt. Plastic ($HNO_3$) = 1, Qt. Plastic (NaOH) = 1
Container Packing Procedure: Containers were bagged and put in iced cooler.

Decon. Procedure: Liquinox detergent wash in plastic tray, then distilled water rinse in plastic tray, followed by deionized water spray from plastic pump sprayer with metal wand. Water indicator decon'd with detergent soaked paper towel and distilled water soaked paper towel during removal from well. Pump taken apart for decon. Equipment placed in plastic bags after decon.

Waste Liquid Handling: Purge and decon fluids contained in totes on USACE trucks for later pumping to large tank at site.

**Well I.D.:** WT01 **EIS Client Name:** Bayer Corporation

Other Notes: Well depth was checked 9/16/95 per Steve Pearson 9/18/95. This well was a flush-mount installed by the USGS. Pump tubing came into contact with weeds and tall grass adjacent to well while pump was being lowered.

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The above field report is based on field records made at the Site by the indicated EIS observer. This report has been reviewed by:

Michael A. Martorano (Observer Name) 10/12/95 (Date)

# FIELD OBSERVATION/SPLIT-SAMPLING REPORT
# MONITORING WELL SAMPLING

**Well I.D.:** WT111A **EIS Client Name:** Bayer Corporation
**Well Location:** General Himco Landfill Area **EIS Project Number:** 8135-95
Elkhart, IN (see site map)
**EIS Observer Name:** J.C. Sporleder, C.P.G.
**Sampler/Affiliation Name:** Michelle Benak and /U.S. Army Corps of Engineers (USACE)
Steve Pearson

**Purge:**

Time/Date: 10:40 A.M. / 9-22-95
Volume: ≈11 gal. (well depth from top of casing = 21 ft. per Steve Pearson).
Equipment: Grundfos BTI/MPI Pump with Teflon-lined PVC Tubing.
Procedure: Checked air with HNU PID and explosion meter after well cap removal. Groundwater pumped through QED "Purge Saver" meter while doing field tests for stabilization.

**Field Tests:**

| Test | Yes/No | Equipment | Comment |
|---|---|---|---|
| Static Water Level | Yes | Slope Indicator | --- |
| Well Depth | Yes | Water Level Indicator | See "Other Notes" Below |
| pH | Yes | QED "Purge Saver" | During Purge (in-line) |
| Conductivity | Yes | QED "Purge Saver" | During Purge (in-line) |
| DO | Yes | QED "Purge Saver" | During Purge (in-line) |
| Temperature | Yes | QED "Purge Saver" | During Purge (in-line) |
| Turbidity | Yes | HF Scientific DRT 15C | During Purge (at discharge) |

**Sampling:**

Time/Date: 11:50 A.M. / 9-22-95
Weather: ≈50°F, partly sunny, 5-10 mph wind with 20 mph gusts, mostly from west.
Equipment: Grundfos BTI/MPI Pump with Teflon-lined PVC Tubing.
Procedure: Equipment placed on new plastic sheeting. Work zone delineated around well with caution tape. USACE samplers collected sample sets for both USACE and EIS split-samples. Samplers wore new disposable gloves and Tyvek during sample collection. Containers of like type for both USACE and EIS sets were collected at the same time. Samples for metals were not filtered in field. USACE vial caps used as cups during sample collection; EIS caps were not. Flow slowed for sampling. USACE containers pre-preserved.
Containers Collected: USACE: Vials = 2, Qt. Amber = 4, Qt. Plastic = 2
EIS: Vials = 2, Qt. Amber = 3, Qt. Plastic ($HNO_3$) = 1, Qt. Plastic (NaOH) = 1
Container Packing Procedure: Containers were bagged and put in iced cooler.

Decon. Procedure: Liquinox detergent wash in plastic tray, then distilled water rinse in plastic tray, followed by deionized water spray from plastic pump sprayer with metal wand. Water indicator decon'd with detergent soaked paper towel and distilled water soaked paper towel during removal from well. Pump taken apart for decon. Equipment placed in plastic bags after decon.
.ste Liquid Handling: Purge and decon fluids contained in totes on USACE trucks for later pumping to large tank at site.

**Well I.D.:** WT111A **EIS Client Name:** Bayer Corporation

Other Notes: Well depth was checked 9/16/95 per Steve Pearson 9/18/95. Pump set at 3 ft. from bottom of well. Generator was 20 ft. northeast of well; wind direction variable but mostly from west. A field equipment blank was attempted after sampling this well, but was not collected because pump wiring was cut during decon.

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The above field report is based on field records made at the Site by the indicated EIS observer. This report has been reviewed by:

J.C. [signature] 10-12-95

(Observer Name) (Date)

# FIELD OBSERVATION/SPLIT-SAMPLING REPORT
# MONITORING WELL SAMPLING

**Well I.D.:** WT115A **EIS Client Name:** Bayer Corporation
**Well Location:** General Himco Landfill Area **EIS Project Number:** 8135-95
Elkhart, IN (see site map)
**EIS Observer Name:** J.C. Sporleder, C.PG.
**Sampler/Affiliation Name:** Michelle Benak and /U.S. Army Corps of Engineers (USACE)
Scott Schneider

**Purge:**

Time/Date: 14:10 P.M. / 9-25-95
Volume: ≈5.5 gal. (well depth from top of casing = 19.75 ft. per Michelle Benak).
Equipment: Grundfos BMI/MPI Pump with Teflon-lined PVC Tubing.
Procedure: Checked air with HNU PID and explosion meter after well cap removal. Groundwater pumped through QED "Purge Saver" meter while doing field tests for stabilization.

**Field Tests:**

| Test | Yes/No | Equipment | Comment |
|---|---|---|---|
| Static Water Level | Yes | Slope Indicator | --- |
| Well Depth | Yes | Water Level Indicator | See "Other Notes" Below |
| pH | Yes | QED "Purge Saver" | During Purge (in-line) |
| Conductivity | Yes | QED "Purge Saver" | During Purge (in-line) |
| DO | Yes | QED "Purge Saver" | During Purge (in-line) |
| Temperature | Yes | QED "Purge Saver" | During Purge (in-line) |
| Turbidity | Yes | LaMotte Chemical Model 2008 | During Purge (at discharge) |

**Sampling:**

Time/Date: 15:00 P.M. / 9-25-95
Weather: ≈68°F, mostly clear, slight <5 mph wind from south or southwest.
Equipment: Grundfos BMI/MPI Pump with Teflon-lined PVC Tubing.
Procedure: Equipment placed on new plastic sheeting. Work zone delineated around well with caution tape. USACE samplers collected sample sets for both USACE and EIS split-samples. Samplers wore new disposable gloves and Tyvek during sample collection. Containers of like type for both USACE and EIS sets were collected at the same time. Samples for metals were not filtered in field. USACE vial caps used as cups during sample collection; EIS caps were not. Flow slowed during collection. USACE containers pre-preserved.
Containers Collected: USACE: Vials = 2, Qt. Amber = 4, Qt. Plastic = 2
EIS: Vials = 2, Qt: Amber = 3, Qt. Plastic ($HNO_3$) = 1, Qt. Plastic (NaOH) = 1
Container Packing Procedure: Containers were bagged and put in iced cooler.

Decon. Procedure: Liquinox detergent wash in plastic tray, then distilled water rinse in plastic tray, followed by deionized water spray from plastic pump sprayer with metal wand. Water indicator decon'd with detergent soaked paper towel and distilled water soaked paper towel during removal from well. Pump taken apart for decon. Equipment placed in plastic bags after decon.
Waste Liquid Handling: Purge and decon fluids contained in totes on USACE trucks for later pumping to large tank at site.

Well I.D.: **WT115A** EIS Client Name: **Bayer Corporation**

Other Notes: Well depth was checked 9/16/95 per Steve Pearson 9/18/95. Pump set about 2.5 ft. from well bottom. Generator placed ≈20 ft. north of well.

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The above field report is based on field records made at the Site by the indicated EIS observer. This report has been reviewed by:

J. C. [signature] (Observer Name)

10-12-95 (Date)

# FIELD OBSERVATION/SPLIT-SAMPLING REPORT
# MONITORING WELL SAMPLING

**Well I.D.:** WT118B **EIS Client Name:** Bayer Corporation
**Well Location:** General Himco Landfill Area **EIS Project Number:** 8135-95
Elkhart, IN (see site map)
**EIS Observer Name:** J.C. Sporleder, C.P.G.
**Sampler/Affiliation Name:** Michelle Benak and /U.S. Army Corps of Engineers (USACE)
Scott Schneider

**Purge:**

Time/Date: 10:20 A.M. / 9-25-95
Volume: ≈60 gal. (well depth from top of casing = 65 ft. per Michelle Benak).
Equipment: Grundfos BMI/MPI Pump with Teflon-lined PVC Tubing.
Procedure: Checked air with HNU PID and explosion meter after well cap removal. Groundwater pumped through QED "Purge Saver" meter while doing field tests for stabilization.

**Field Tests:**

| Test | Yes/No | Equipment | Comment |
|---|---|---|---|
| Static Water Level | Yes | Slope Indicator | --- |
| Well Depth | Yes | Water Level Indicator | See "Other Notes" Below |
| pH | Yes | QED "Purge Saver" | During Purge (in-line) |
| Conductivity | Yes | QED "Purge Saver" | During Purge (in-line) |
| DO | Yes | QED "Purge Saver" | During Purge (in-line) |
| Temperature | Yes | QED "Purge Saver" | During Purge (in-line) |
| Turbidity | Yes | LaMotte Chemical Model 2008 | During Purge (at discharge) |

**Sampling:**

Time/Date: 12:00 P.M. / 9-25-95
Weather: ≈68°F, mostly sunny, slight <5 mph breeze from south to southwest.
Equipment: Grundfos BMI/MPI Pump with Teflon-lined PVC Tubing.
Procedure: Equipment placed on new plastic sheeting. Work zone delineated around well with caution tape. USACE samplers collected sample sets for both USACE and EIS split-samples. Samplers wore new disposable gloves and Tyvek during sample collection. Containers of like type for both USACE and EIS sets were collected at the same time. Samples for metals were not filtered in field. USACE vial caps used as cups during sample collection; EIS caps were not. Flow slowed during collection. USACE containers pre-preserved.
Containers Collected: USACE: Vials = 2, Qt. Amber = 4, Qt. Plastic = 2
EIS: Vials = 2, Qt. Amber = 3, Qt. Plastic ($HNO_3$) = 1, Qt. Plastic (NaOH) = 1
Container Packing Procedure: Containers were bagged and put in iced cooler. USACE vials and plastic containers pre-preserved, but field checked with test paper.

Decon. Procedure: Liquinox detergent wash in plastic tray, then distilled water rinse in plastic tray, followed by deionized water spray from plastic pump sprayer with metal wand. Water indicator decon'd with detergent soaked paper towel and distilled water soaked paper towel during removal from well. Pump taken apart for decon. Equipment placed in plastic bags after decon.
Waste Liquid Handling: Purge and decon fluids contained in totes on USACE trucks for later pumping to large tank at site.

**Well I.D.:** WT118B **EIS Client Name:** Bayer Corporation

Other Notes: Well depth was checked 9/16/95 per Steve Pearson 9/18/95. USACE was set up at this well prior to EIS arrival on site. Well WT118B is nested with well WT111A. Per Michelle Benak, there are no wells identified as WT111B or WT118A. Pump set 2.5 ft. from well bottom. Generator initially placed 20 feet northwest of well, but was moved north of well before sampling after Mr. Schneider reported smelling exhaust within the work zone.

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The above field report is based on field records made at the Site by the indicated EIS observer. This report has been reviewed by:

J. C. [signature] (Observer Name) 10-12-95 (Date)

# FIELD OBSERVATION/SPLIT-SAMPLING REPORT
# MONITORING WELL SAMPLING

**Well I.D.:** WT101A (& MS/DMS) **EIS Client Name:** Bayer Corporation
**Well Location:** General Himco Landfill Area **EIS Project Number:** 8135-95
Elkhart, IN (see site map)
**EIS Observer Name:** Michael A. Martorano
**Sampler/Affiliation Name:** Steve Pearson and /U.S. Army Corps of Engineers (USACE)
Carolyn Schwafel

**Purge:**

Time/Date: 10:29 A.M. / 9-25-95
Volume: 4.5 gal. (well depth from top of casing = 18.7 ft. per Steve Pearson).
Equipment: Grundfos BTI/MPI Pump with Teflon-lined PVC Tubing.
Procedure: Checked air with HNU PID and explosion meter after well cap removal. Groundwater pumped through QED "Purge Saver" meter while doing field tests for stabilization.

**Field Tests:**

| Test | Yes/No | Equipment | Comment |
|---|---|---|---|
| Static Water Level | Yes | Slope Indicator | --- |
| Well Depth | Yes | Water Level Indicator | See "Other Notes" Below |
| pH | Yes | QED "Purge Saver" | During Purge (in-line) |
| Conductivity | Yes | QED "Purge Saver" | During Purge (in-line) |
| DO | Yes | QED "Purge Saver" | During Purge (in-line) |
| Temperature | Yes | QED "Purge Saver" | During Purge (in-line) |
| Turbidity | Yes | HF Scientific DRT15C | During Purge (at discharge) |

**Sampling:**

Time/Date: 10:52 A.M. / 9-25-95
Weather: ≈60-65°F, clear, wind 0-5 mph
Equipment: Grundfos BTI/MPI Pump with Teflon-lined PVC Tubing.
Procedure: Equipment placed on new plastic sheeting. Work zone delineated around well with caution tape. USACE samplers collected sample sets for both USACE and EIS split-samples. Samplers wore new disposable gloves and Tyvek during sample collection. Containers of like type for both USACE and EIS sets were collected at the same time. Samples for metals were not filtered in field. USACE vial caps used as cups during sample collection; EIS caps were not. Pump rate slowed prior to sampling.
Containers Collected: USACE: Vials = 8, Qt. Amber = 12, Qt. Plastic = 2
EIS: Vials = 4, Qt. Amber = 6, Qt. Plastic ($HNO_3$) = 2, Qt. Plastic (NaOH) = 2
Container Packing Procedure: Containers were bagged and put in iced cooler.

Decon. Procedure: Liquinox detergent wash in plastic tray, then distilled water rinse in plastic tray, followed by deionized water spray from plastic pump sprayer with metal wand. Water indicator decon'd with detergent soaked paper towel and distilled water soaked paper towel during removal from well. Pump taken apart for decon. Equipment placed in plastic bags after decon.
Waste Liquid Handling: Purge and decon fluids contained in totes on USACE trucks for later pumping to large tank at site.

**Well I.D.:** WT101A (& MS/DMS) **EIS Client Name:** Bayer Corporation

Other Notes: Well depth was checked 9/16/95 per Steve Pearson 9/18/95. MS/DMS taken at this well. USACE was set up at this well prior to EIS arrival on site.

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The above field report is based on field records made at the Site by the indicated EIS observer. This report has been reviewed by:

Michael A. Martinez (Observer Name)

10/12/95 (Date)

# FIELD OBSERVATION/SPLIT-SAMPLING REPORT
# MONITORING WELL SAMPLING

**Well I.D.:** WT101B (&FD-2) **EIS Client Name:** Bayer Corporation
**Well Location:** General Himco Landfill Area **EIS Project Number:** 8135-95
Elkhart, IN (see site map)
**EIS Observer Name:** Michael A. Martorano
**Sampler/Affiliation Name:** Steve Pearson and /U.S. Army Corps of Engineers (USACE)
Carolyn Schwafel

**Purge:**

Time/Date: 13:20 P.M. / 9-25-95
Volume: 75 gal. (well depth from top of casing = 100 ft. per Steve Pearson).
Equipment: Grundfos BTI/MPI Pump with Teflon-lined PVC Tubing.
Procedure: Checked air with HNU PID and explosion meter after well cap removal. Groundwater pumped through QED "Purge Saver" meter while doing field tests for stabilization.

**Field Tests:**

| Test | Yes/No | Equipment | Comment |
|---|---|---|---|
| Static Water Level | Yes | Slope Indicator | --- |
| Well Depth | Yes | Water Level Indicator | See "Other Notes" Below |
| pH | Yes | QED "Purge Saver" | During Purge (in-line) |
| Conductivity | Yes | QED "Purge Saver" | During Purge (in-line) |
| DO | Yes | QED "Purge Saver" | During Purge (in-line) |
| Temperature | Yes | QED "Purge Saver" | During Purge (in-line) |
| Turbidity | Yes | HF Scientific DRT15C | During Purge (at discharge) |

**Sampling:**

Time/Date: 14:46 P.M. / 9-25-95
Weather: ≈60-65°F, clear, wind 0-5 mph
Equipment: Grundfos BTI/MPI Pump with Teflon-lined PVC Tubing.
Procedure: Equipment placed on new plastic sheeting. Work zone delineated around well with caution tape. USACE samplers collected sample sets for both USACE and EIS split-samples. Samplers wore new disposable gloves and Tyvek during sample collection. Containers of like type for both USACE and EIS sets were collected at the same time. Samples for metals were not filtered in field. USACE vial caps used as cups during sample collection; EIS caps were not. Pump rate slowed prior to sampling.
Containers Collected: USACE: Vials = 4, Qt. Amber = 8, Qt. Plastic = 4
EIS: Vials = 4, Qt. Amber = 6, Qt. Plastic ($HNO_3$) = 2, Qt. Plastic (NaOH) = 2
Container Packing Procedure: Containers were bagged and put in iced cooler.

Decon. Procedure: Liquinox detergent wash in plastic tray, then distilled water rinse in plastic tray, followed by deionized water spray from plastic pump sprayer with metal wand. Water indicator decon'd with detergent soaked paper towel and distilled water soaked paper towel during removal from well. Pump taken apart for decon. Equipment placed in plastic bags after decon.
te Liquid Handling: Purge and decon fluids contained in totes on USACE trucks for later pumping to large tank at site.

ell I.D.: WT101B (& FD-2) EIS Client Name: Bayer Corporation

Other Notes: Well depth was checked 9/16/95 per Steve Pearson 9/18/95. Field Duplicate (FD- 2) taken from this well. A slight unusual odor could be noticed as purge water was dumped into the large tank on the USACE vehicle.

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The above field report is based on field records made at the Site by the indicated EIS observer. This report has been reviewed by:

Michael A. Martrano (Observer Name)

10/12/95 (Date)

# FIELD OBSERVATION/SPLIT-SAMPLING REPORT
# MONITORING WELL SAMPLING

**Well I.D.:** WTEI (& FERB-2) **EIS Client Name:** Bayer Corporation
**Well Location:** General Himco Landfill Area **EIS Project Number:** 8135-95
Elkhart, IN (see site map)
**EIS Observer Name:** Michael A. Martorano
**Sampler/Affiliation Name:** Steve Pearson and Carolyn Schwafel /U.S. Army Corps of Engineers (USACE)

**Purge:**

Time/Date: 09:58 A.M. / 9-26-95
Volume: ≈350 gal. (well depth from top of casing = 81 ft. per Steve Pearson).
Equipment: Grundfos BTI/MPI Pump with Teflon-lined PVC Tubing.
Procedure: Checked air with HNU PID and explosion meter after well cap removal. Groundwater pumped through QED "Purge Saver" meter while doing field tests for stabilization.

**Field Tests:**

| Test | Yes/No | Equipment | Comment |
|---|---|---|---|
| Static Water Level | Yes | Slope Indicator | --- |
| Well Depth | Yes | Water Level Indicator | See "Other Notes" Below |
| pH | Yes | QED "Purge Saver" | During Purge (in-line) |
| Conductivity | Yes | QED "Purge Saver" | During Purge (in-line) |
| DO | Yes | QED "Purge Saver" | During Purge (in-line) |
| Temperature | Yes | QED "Purge Saver" | During Purge (in-line) |
| Turbidity | Yes | HF Scientific DRT15C | During Purge (at discharge) |

**Sampling:**

Time/Date: 13:03 P.M. / 9-26-95
Weather: ≈60-70°F, clear, wind 0-5 mph
Equipment: Grundfos BTI/MPI Pump with Teflon-lined PVC Tubing.
Procedure: Equipment placed on new plastic sheeting. Work zone delineated around well with caution tape. USACE samplers collected sample sets for both USACE and EIS split-samples. Samplers wore new disposable gloves and Tyvek during sample collection. Containers of like type for both USACE and EIS sets were collected at the same time. Samples for metals were not filtered in field. USACE vial caps used as cups during sample collection; EIS caps were not. Pump rate slowed prior to sampling.
Containers Collected: USACE: Vials = 2, Qt. Amber = 4, Qt. Plastic = 2
EIS: Vials = 2, Qt. Amber = 3, Qt. Plastic ($HNO_3$) = 1, Qt. Plastic (NaOH) = 1
Container Packing Procedure: Containers were bagged and put in iced cooler.

Decon. Procedure: Liquinox detergent wash in plastic tray, then distilled water rinse in plastic tray, followed by deionized water spray from plastic pump sprayer with metal wand. Water indicator decon'd with detergent soaked paper towel and distilled water soaked paper towel during removal from well. Pump taken apart for decon. Equipment placed in plastic bags after decon.
Site Liquid Handling: Purge and decon fluids contained in totes on USACE trucks for later pumping to large tank at site.

Well I.D.: WTEI (& FERB-2) EIS Client Name: Bayer Corporation

Other Notes: Well depth was checked 9/16/95 per Steve Pearson 9/18/95. USACE was set up at this well prior to EIS arrival. Well WTEI is a 5 inch well installed by the USGS. The purge rate was higher than normal at this well (≈2.1 gpm) due to the large purge volume. Upon completion of sampling, equipment was decon'd in the usual manner, and a field equipment rise blank (FERB-2) taken. The FERB-2 sample consisted of deionized water brought to the site by the USACE. The pump used for prior sampling was placed in a tall glass jar which was kept full by Steve Pearson as the pump discharged. Samples were collected through a new section of teflon lined PVC tubing connected to the pump. Discharge during the collection of this rinse blank was more turbulent than in prior sampling. Per USACE, a steady flow could not be achieved due to the lack of head above the pump.

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The above field report is based on field records made at the Site by the indicated EIS observer. This report has been reviewed by:

Michael A. Mastrano (Observer Name) 10/12/95 (Date)

# FIELD OBSERVATION/SPLIT-SAMPLING REPORT
# MONITORING WELL SAMPLING

**Well I.D.:** WT117A (& FERB-1) **EIS Client Name:** Bayer Corporation
**Well Location:** General Himco Landfill Area **EIS Project Number:** 8135-95
Elkhart, IN (see site map)
**EIS Observer Name:** J.C. Sporleder, C.P.G.
**Sampler/Affiliation Name:** Michelle Benak and /U.S. Army Corps of Engineers (USACE)
Scott Schneider (Joni Rhiner assisted with FERB-1)

**Purge:**

Time/Date: 9:20 A.M. / 9-26-95

Volume: ≈8 gal. (well depth from top of casing = 18.4 ft. per Michelle Benak).

Equipment: Grundfos BMI/MPI Pump with Teflon-lined PVC Tubing.

Procedure: Checked air with HNU PID and explosion meter after well cap removal. Groundwater pumped through QED "Purge Saver" meter while doing field tests for stabilization.

**Field Tests:**

| Test | Yes/No | Equipment | Comment |
|---|---|---|---|
| Static Water Level | Yes | Slope Indicator | --- |
| Well Depth | Yes | Water Level Indicator | See "Other Notes" Below |
| pH | Yes | QED "Purge Saver" | During Purge (in-line) |
| Conductivity | Yes | QED "Purge Saver" | During Purge (in-line) |
| DO | Yes | QED "Purge Saver" | During Purge (in-line) |
| Temperature | Yes | QED "Purge Saver" | During Purge (in-line) |
| Turbidity | Yes | LaMotte Chemical Model 2008 | During Purge (at discharge) |

**Sampling:**

Time/Date: 10:20 A.M. / 9-26-95

Weather: ≈60 - 65°F, 0 - 5 mph wind from south/southwest, mostly clear.

Equipment: Grundfos BMI/MPI Pump with Teflon-lined PVC Tubing.

Procedure: Equipment placed on new plastic sheeting. Work zone delineated around well with caution tape. USACE samplers collected sample sets for both USACE and EIS split-samples. Samplers wore new disposable gloves and Tyvek during sample collection. Containers of like type for both USACE and EIS sets were collected at the same time. Samples for metals were not filtered in field. USACE vial caps used as cups during sample collection; EIS caps were not. Flow slowed for sampling of well (but not for FERB-1; see below).

Containers Collected: USACE: Vials = 4, Qt. Amber = 8, Qt. Plastic = 4
EIS: Vials = 4, Qt. Amber = 6, Qt. Plastic ($HNO_3$) = 2, Qt. Plastic (NaOH) = 2

Container Packing Procedure: Containers were bagged and put in iced cooler.

Decon. Procedure: Liquinox detergent wash in plastic tray, then distilled water rinse in plastic tray, followed by deionized water spray from plastic pump sprayer with metal wand. Water indicator decon'd with detergent soaked paper towel and distilled water soaked paper towel during removal from well. Pump taken apart for decon. Equipment placed in plastic bags after decon.

Waste Liquid Handling: Purge and decon fluids contained in totes on USACE trucks for later pumping to large tank at site.

**.l I.D.: WT117A** **EIS Client Name: Bayer Corporation**

Other Notes: Well depth was checked 9/16/95 per Steve Pearson 9/18/95. USACE was set up at this well prior to EIS arrival on site. Pump set at 1.5 ft. from bottom of well. Generator was 20 ft. northeast of well. Equipment Rinse Blank (EIS I.D. = FERB-1) was collected from pump used at this well after standard decon. The FERB-1 was collected by placing the pump, fitted with a section of new tubing, into a tall glass jar. Deionized water was poured into jar to keep up with pump flow. The deionized water containers were several light-blue plastic jugs labeled "Deep Rock Water" and one green plastic "jerry-can." Per Michelle Benak, the deionized water was sourced from the USACE Missouri River Division lab. Flow rate was noticeably faster during the collection of FERB-1 in comparison to flow rates for well sampling. Some splashing and agitation of water was observed during the collection of FERB-1 as a result of the faster flow rate. Per Ms. Rhiner, the pump speed was set as low as possible but the flow could not be slowed because there was not enough head in the glass jar. Two USACE vial caps were dropped on the ground during the collection of FERB-1, and one of these caps was placed on the sample vial.

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The above field report is based on field records made at the Site by the indicated EIS observer. This report has been reviewed by:

J. C. Mueller — (Observer Name)

10-12-95 — (Date)

# FIELD OBSERVATION/SPLIT-SAMPLING REPORT
# MONITORING WELL SAMPLING

**Well I.D.:** WT117B
**EIS Client Name:** Bayer Corporation
**Well Location:** General Himco Landfill Area
Elkhart, IN (see site map)
**EIS Project Number:** 8135-95
**EIS Observer Name:** J.C. Sporleder, C.P.G.
**Sampler/Affiliation Name:** Michelle Benak and Scott Schneider /U.S. Army Corps of Engineers (USACE)

**Purge:**

Time/Date: 12:37 P.M. / 9-26-95

Volume: ≈50 gal. (well depth from top of casing = 63.4 ft. per Michelle Benak).

Equipment: Grundfos BMI/MPI Pump with Teflon-lined PVC Tubing.

Procedure: Checked air with HNU PID and explosion meter after well cap removal. Groundwater pumped through QED "Purge Saver" meter while doing field tests for stabilization.

**Field Tests:**

| Test | Yes/No | Equipment | Comment |
|---|---|---|---|
| Static Water Level | Yes | Slope Indicator | --- |
| Well Depth | Yes | Water Level Indicator | See "Other Notes" Below |
| pH | Yes | QED "Purge Saver" | During Purge (in-line) |
| Conductivity | Yes | QED "Purge Saver" | During Purge (in-line) |
| DO | Yes | QED "Purge Saver" | During Purge (in-line) |
| Temperature | Yes | QED "Purge Saver" | During Purge (in-line) |
| Turbidity | Yes | LaMotte Chemical Model 2008 | During Purge (at discharge) |

**Sampling:**

Time/Date: 14:00 P.M. / 9-26-95

Weather: ≈70-75°F, 5-10 mph wind from southwest, clear.

Equipment: Grundfos BMI/MPI Pump with Teflon-lined PVC Tubing.

Procedure: Equipment placed on new plastic sheeting. Work zone delineated around well with caution tape. USACE samplers collected sample sets for both USACE and EIS split-samples. Samplers wore new disposable gloves and Tyvek during sample collection. Containers of like type for both USACE and EIS sets were collected at the same time. Samples for metals were not filtered in field. USACE vial caps used as cups during sample collection; EIS caps were not. Flow slowed for sampling.

Containers Collected: USACE: Vials = 2, Qt. Amber = 4, Qt. Plastic = 2
EIS: Vials = 2, Qt. Amber = 3, Qt. Plastic ($HNO_3$) = 1, Qt. Plastic (NaOH) = 1

Container Packing Procedure: Containers were bagged and put in iced cooler.

Decon. Procedure: Liquinox detergent wash in plastic tray, then distilled water rinse in plastic tray, followed by deionized water spray from plastic pump sprayer with metal wand. Water indicator decon'd with detergent soaked paper towel and distilled water soaked paper towel during removal from well. Pump taken apart for decon. Equipment placed in plastic bags after decon.

Waste Liquid Handling: Purge and decon fluids contained in totes on USACE trucks for later pumping to large tank at site.

Well I.D.: WT117B EIS Client Name: Bayer Corporation

Other Notes: Well depth was checked 9/16/95 per Steve Pearson 9/18/95. Pump set about 2.5 ft. from well bottom. Purge and sampling water was clear. Generator placed about 20 ft. northeast of well.

The above field report is based on field records made at the Site by the indicated EIS observer. This report has been reviewed by: J.C. [signature] 10-12-95

(Observer Name) (Date)

# ATTACHMENT 2, APPENDIX B
# SUPPLEMENTAL INFORMATION TO EIS REPORT

RECEIVED
MAR 12 1996
R. LENNIE SCOTT

March 8, 1996

Lennie Scott, P.E.
Bayer Corporation
1884 Miles Avenue
Elkhart, IN 46514

**RE: Updated HIMCO Site Report**

Dear Lennie:

Enclosed please find the re-evaluated report with lower detection limits. This report is Enclosure 1. Also present is Enclosure 2, a summary listing of VOC prepared at the time when we were assembling data for the original report. Enclosure 2 lists all VOC found by EIS. The brackets indicate estimated values (values shown are high). The letter P = Present and is used because no commercially available standard exists for this Freon.

I will briefly point out some items which constitute differences between the Corps results and EIS.

Metals

- Aluminum varies quite a bit between results. This metal is somewhat difficult to repeat properly.

- Background water (upgradient) appears to contain Nickel, Cobalt, Silver, Antimony and Vanadium according to the Corps report. EIS found Nickel and Antimony in only the WT102A&B samples. The following is a summary of these metals, which are rather unusual in a non-impacted water supply.

| | Nickel | | Cobalt | | Silver | | Antimony | | Vanadium | |
|---|---|---|---|---|---|---|---|---|---|---|
| Well | Corp | EIS | Corp | EIS | Corp | EIS | Corp | EIS | Corp | EIS |
| WT102A | 40.6 | 8.9 | 13.1 | <5 | 19.5 | <0.5 | 21.7 | 3.1 | 26.5 | <5 |
| WT102B | | | 12.4 | <5 | | | 29.7 | 2.8 | 13.2 | <5 |
| WT112A | 10.0 | <2 | | | | | | | 9.80 | <5 |
| WT112B | | | | | | | | | | |
| WT113A | | | 6.9 | <5 | | | | | 11.1 | <5 |
| WT113B | | | | | 4.9 | <0.5 | | | | |

As seen above, EIS did not detect Vanadium, Cobalt or Silver.

**Volatiles**

Some differences evident with respect to VOC are the following:

- Well WT116A and its Field Duplicate showed the presence of Benzene at 16µg/l in the EIS data. Benzene was not reported by the Corps, nor was the Corps Field Duplicate data available for review. We also found Vinyl Chloride in this sample, which again was not reported by the Corps.

- Well WT101A was found to have Benzene at 1.9 µg/l by EIS. No Benzene was reported by the Corps.

- Well WT118B was found to have Vinyl Chloride at 9.1 µg/l by EIS. No Vinyl Chloride was reported by the Corps.

- Field Equipment Rinse Blanks showed the presence of Trihalomethanes, indicating that the Corp did not use distilled/deionized water in their decontamination procedures. In addition, the Field Blank labeled FERB2 showed the presence of 1,2-Dichloropropane (as did one well water).

- No Corps data as available for Field Blank, Trip Blank or Field Duplicate screening with respect to analysis done by the Corps.

- Methylene Chloride and Carbon Disulfide were found by the Corps in various samples. EIS did not find these. These compounds may indicate a contamination problem at the lab doing the Corps analysis.

- Non-CLP-specified compounds were found by EIS. These included Diethyl Ether and various Freons. These are part of our "Target List." Whether the CLP lab was required to address these as "Tentatively Identified Compounds (TIC)" is not known to EIS.

Should you require any other information or further assistance by EIS, please contact me.

Sincerely,

EIS ENVIRONMENTAL ENGINEERS, INC.

Andris Rozite, Vice President
Laboratory Director

AR:lcs
Enclosures

# Enclosure 1

| Well # | Chemical Class | Chemical | All units are in µg/L | | |
|---|---|---|---|---|---|
| | | | EPA Value | Original EIS Value | Revised EIS Value |
| WT102A | inorganic | Aluminum | 268 | <200 | 111 |
| (Background) | inorganic | Antimony | 21.7 | <60 | 3.10 |
| | inorganic | Barium | 53.3 | <200 | 46.9 |
| | inorganic | Beryllium, total | 1.30 | <5.0 | <0.5 |
| | inorganic | Chromium | 23.9 | <10 | 1.95 |
| | inorganic | Cobalt | 13.1 | <50 | <5.0 |
| | inorganic | Copper | 17.9 | <25 | 3.3 |
| | inorganic | Iron | 39.0 | <100 | 46.3 |
| | inorganic | Nickel | 40.6 | <40 | 6.9 |
| | inorganic | Potassium | 2070 | <5000 | 1920 |
| | inorganic | Silver | 19.5 | <10 | <0.5 |
| | inorganic | Vanadium | 26.5 | <50 | <5.0 |
| | inorganic | Zinc | 4.10 | <20 | 4.36 |
| | | | | | |
| WT102B | inorganic | Aluminum | 161 | <200 | 117 |
| (Background) | inorganic | Antimony | 29.7 | <60 | 2.76 |
| | inorganic | Arsenic, total | 4.80 | <10 | <2.0 |
| | inorganic | Barium | 91.0 | <200 | 90.6 |
| | inorganic | Cobalt | 12.4 | <50 | <5.0 |
| | inorganic | Potassium | 1870 | <5000 | 1580 |
| | inorganic | Vanadium | 13.2 | <50 | <5.0 |
| | inorganic | Zinc | 3.50 | <20 | 4.77 |
| | | | | | |
| WT112A | inorganic | Aluminum | 169 | <200 | 84.2 |
| (Background) | inorganic | Barium | 35.1 | <200 | 30.5 |
| | inorganic | Iron | 16.0 | <100 | 42.3 |
| | inorganic | Manganese | 4.00 | <15 | <3.0 |
| | inorganic | Nickel | 10.00 | <40 | <2.0 |
| | inorganic | Potassium | 2000 | <5000 | 1830 |
| | inorganic | Vanadium | 9.60 | <50 | <5.0 |
| | inorganic | Zinc | 7.70 | <20 | 6.70 |
| | | | | | |
| WT112B | inorganic | Aluminum | 65.2 | <200 | 38.3 |
| (Background) | inorganic | Barium | 92.5 | <200 | 94.1 |
| | inorganic | Potassium | 1300 | <5000 | 1330 |
| | | | | | |
| WT113A | inorganic | Aluminum | 161 | <200 | 41.2 |
| (Background) | inorganic | Barium | 14.3 | <200 | 11.6 |
| | inorganic | Cobalt | 6.9 | <50 | <5.0 |
| | inorganic | Iron | 4.7 | <100 | 35.5 |
| | inorganic | Manganese | 2.3 | <15 | <3.0 |
| | inorganic | Potassium | 1200 | <5000 | 1260 |
| | inorganic | Vanadium | 11.1 | <50.0 | <5.0 |
| | inorganic | Zinc | 8.0 | <20 | 4.52 |
| | | | | | |

Enclosure 1

| Well # | Chemical Class | Chemical | All units are in µg/L | | |
|---|---|---|---|---|---|
| | | | EPA Value | Original EIS Value | Revised EIS Value |
| WT113B | inorganic | Aluminum | 80.5 | <200 | 94.1 |
| (Background) | inorganic | Barium | 78.1 | <200 | 77.6 |
| | inorganic | Beryllium, total | 0.50 | <5.0 | <0.5 |
| | inorganic | Chromium | 5.60 | <10 | 1.83 |
| | inorganic | Copper | 3.70 | <25 | 2.42 |
| | inorganic | Potassium | 1900 | <5000 | 2000 |
| | inorganic | Silver | 4.90 | <10 | <0.5 |
| | inorganic | Zinc | 3.50 | <20 | 5.35 |
| | | | | | |
| WT114A | inorganic | Aluminum | 145 | <200 | 62.2 |
| | inorganic | Cadmium | 1.70 | <5 | <0.5 |
| | inorganic | Cobalt | 13.8 | <50 | 8.67 |
| | inorganic | Nickel | 19 | <40 | 10.6 |
| | inorganic | Thallium | 6.70 | <10 | 2.79 |
| | inorganic | Vanadium | 10.40 | <50 | <6.0 |
| | inorganic | Zinc | 7.60 | <20 | 8.20 |
| | volatile | 1,1-Dichloroethane | 5.00 | <10 | 5.4 |
| | volatile | Benzene | 2.00 | <10 | 2.6 |
| | volatile | Carbon Disulfide | 0.70 | <10 | <0.5 |
| | | | | | |
| WT114B | inorganic | Aluminum | 230 | <200 | <26 |
| | inorganic | Arsenic, total | 18.5 | <10 | 8.39 |
| | inorganic | Barium | 194 | <200 | 173 |
| | inorganic | Cobalt | 11.1 | <50 | <5.0 |
| | inorganic | Cyanide | 11.4 | <10 | <5.0 |
| | inorganic | Nickel | 19.7 | <40 | <2.0 |
| | inorganic | Vanadium | 23.2 | <50 | <5.0 |
| | inorganic | Zinc | 4.5 | <20 | 4.63 |
| | pesticides | alpha BHC | 0.01 | <0.05 | 0.005 |
| | semivolatile | Butylbenzylphthalate | 0.2J | <10 | <0.6 |
| | volatile | 1,1-Dichloroethane | 1.0 | <10 | 1.3 |
| | volatile | 1,2-Dichloroethene (total) | 1.0 | <10 | 1.2 |
| | volatile | Carbon Disulfide | 2.0 | <10 | <0.5 |
| | | | | | |
| WT01 | inorganic | Aluminum | 115 | <200 | 43.7 |
| | inorganic | Barium | 74.3 | <200 | 69.5 |
| | inorganic | Iron | 21.6 | <100 | 86.8 |
| | inorganic | Potassium | 1950 | <5000 | 1920 |
| | inorganic | Vanadium | 6.90 | <50 | <5.0 |
| | inorganic | Zinc | 2.10 | <20 | <3.0 |
| | semivolatile | Bis(2 ethylhexyl)phthalate | | <10 | |
| | volatile | Methylene Chloride | 8.0 | <10 | <0.5 |
| | | | | | |
| WT101B | inorganic | Aluminum | 206 | <200 | 123 |
| | inorganic | Barium | 184 | <200 | 158 |
| | inorganic | Beryllium, total | 1.1 | <5 | <0.5 |
| | inorganic | Chromium | 20.6 | <10 | 0.9 |
| | inorganic | Cobalt | 9.6 | <50 | <5.0 |
| | inorganic | Copper | 16.0 | <25 | 2.66 |
| | inorganic | Nickel | 14.4 | <40 | <2.0 |
| | inorganic | Potassium | 5110 | 5000 | 5000 |
| | inorganic | Silver | 18.2 | <10 | <0.5 |

Enclosure 1

| Well # | Chemical Class | Chemical | All units are in µg/L | | |
|---|---|---|---|---|---|
| | | | EPA Value | Original EIS Value | Revised EIS Value |
| | inorganic | Vanadium | 17.8 | <50 | <5.0 |
| | inorganic | Zinc | 2.8 | <20 | <3.0 |
| | volatile | Chloroethane | 6.0 | <10 | 8.4 |
| | volatile | Methylene Chloride | 1.0 | <10 | <0.5 |
| | | | | | |
| WT116B | inorganic | Aluminum | 40.4 | <200 | 48.9 |
| | inorganic | Barium | 174 | <200 | 164 |
| | volatile | Carbon Disulfide | 2.0 | <10 | <0.5 |
| | | | | | |
| WT117B | inorganic | Aluminum | 133 | <200 | 98.9 |
| | inorganic | Barium | 36.8 | <200 | 30.8 |
| | inorganic | Potassium | 1440 | <5000 | 1750 |
| | inorganic | Zinc | 9.8 | <20 | <3.0 |
| | inorganic | Methylene Chloride | 1.0 | <10 | <0.5 |
| | volatile | | | | |
| | | | | | |
| WT118B | inorganic | Aluminum | 229 | <200 | 49.6 |
| | inorganic | Beryllium, total | 0.92 | <5 | <0.5 |
| | inorganic | Chromium | 14.4 | <10 | 1.21 |
| | inorganic | Cobalt | 12.9 | <50 | <5.0 |
| | inorganic | Copper | 7.9 | <25 | 2.72 |
| | inorganic | Nickel | 20.2 | <40 | <2.0 |
| | inorganic | Silver | 10.9 | <10 | <0.5 |
| | inorganic | Thallium | 9.0 | <10 | <2.0 |
| | inorganic | Vanadium | 16.6 | <50 | <5.0 |
| | inorganic | Zinc | 6.3 | <20 | <3.0 |
| | semivolatile | Bis(2 ethylhexyl)phthalate | 3.0 | <10 | 0.8 |
| | volatile | Methylene Chloride | 1.0 | <10 | <0.5 |
| | | | | | |
| WTE1 | inorganic | Aluminum | 66 | <200 | 60.2 |
| | inorganic | Barium | 47 | <200 | 40.8 |
| | inorganic | Zinc | 3.6 | <20 | 3.0 |
| | volatile | Methylene Chloride | 2.0 | <10 | <0.5 |
| | | | | | |
| WT101A | inorganic | Aluminum | 321 | <200 | 34.6 |
| | inorganic | Arsenic, total | 7.8 | <10 | 3.32 |
| | inorganic | Barium | 116 | <200 | 96.0 |
| | inorganic | Cadmium | 1.1 | <5 | <0.8 |
| | inorganic | Cobalt | 10.9 | <50 | <5.0 |
| | inorganic | Nickel | 23.6 | <40 | <2.0 |
| | inorganic | Vanadium | 20.9 | <50 | <5.0 |
| | inorganic | Zinc | 1.8 | <20 | <3.0 |
| | semivolatile | Bis(2 ethylhexyl)phthalate | 5.0 | <10 | 0.5 |
| | semivolatile | Diethylphthalate | 11 | <10 | 9.1 |
| | volatile | 1,1-Dichloroethane | 6.0 | <10 | 5.1 |
| | volatile | Methylene Chloride | 0.7 | <10 | <0.5 |
| | | | | | |
| WT111A | inorganic | Barium | 103 | <200 | 94.7 |
| | inorganic | Cobalt | 11.9 | <50 | 8.09 |
| | inorganic | Magnesium | 2520 | <5000 | 2540 |
| | inorganic | Nickel | 16 | <40 | 9.31 |
| | inorganic | Potassium | 1690 | <5000 | 1830 |

# Enclosure 1

| Well # | Chemical Class | Chemical | All units are in µg/L | | |
|---|---|---|---|---|---|
| | | | EPA Value | Original EIS Value | Revised EIS Value |
| | inorganic | Sodium | 2860 | <5000 | 2750 |
| | inorganic | Vanadium | 11.9 | <50 | <5.0 |
| | inorganic | Zinc | 17.5 | <20 | 16.1 |
| | pesticides | alpha BHC | 0.1 | <0.05 | 0.006 |
| | semivolatile | Bis(2 ethylhexyl)phthalate | 0.3 | <10 | 0.3 |
| | volatile | Methylene Chloride | 5.0 | <10 | <0.5 |
| | | | | | |
| WT115A | inorganic | Aluminum | 132 | <200 | 107 |
| | inorganic | Barium | 50.1 | <200 | 46.2 |
| | inorganic | Thallium | 5.3 | <10 | 6.66 |
| | inorganic | Zinc | 31.1 | <20 | <3.0 |
| | semivolatile | Bis(2 ethylhexyl)phthalate | 0.4 | <10 | 0.4 |
| | volatile | Benzene | 1.0 | <10 | 2.2 |
| | volatile | Methylene Chloride | 1.0 | <10 | <0.5 |
| | | | | | |
| WT116A | inorganic | Aluminum | 393 | <200 | 66.6 |
| | inorganic | Barium | 136 | <200 | 120 |
| | inorganic | Chromium | 7.1 | <10 | 0.56 |
| | inorganic | Zinc | 45.4 | <20 | <3.0 |
| | semivolatile | Acenaphthene | 3.0 | <10 | 3.8 |
| | semivolatile | Anthracene | 0.3 | <10 | 0.3 |
| | semivolatile | Bis(2 ethylhexyl)phthalate | 15 | <10 | 1.8 |
| | semivolatile | Carbazole | 6.0 | <10 | 8.9 |
| | semivolatile | Dibenzofuran | 2.0 | <10 | 2.5 |
| | semivolatile | Fluorene | 3.0 | <10 | 3.0 |
| | semivolatile | Naphthalene | 0.4 | <10 | 0.6 |
| | volatile | 1,1-Dichloroethane | 7.0 | <10 | 7.4 |
| | volatile | 1,2-Dichloroethene (total) | 1.0 | <10 | 1.5 |
| | volatile | 1,2-Dichloropropane | 4.0 | <10 | 5.7 |
| | volatile | Ethylbenzene | 0.7 | <10 | 1.2 |
| | volatile | Trichloroethene | 0.9 | <10 | 1.2 |
| | | | | | |
| WT117A | inorganic | Antimony | 2.90 | <60 | 5.24 |
| | inorganic | Barium | 59.1 | <200 | 54.0 |
| | inorganic | Chromium | 4.2 | <10 | 5.9 |
| | inorganic | Copper | 8.0 | <25 | 11.1 |
| | inorganic | Nickel | 7.0 | <40 | 6.35 |
| | inorganic | Potassium | 1660 | <5000 | 2580 |
| | inorganic | Sodium | 2940 | <5000 | 2800 |
| | inorganic | Vanadium | 10.1 | <50 | 9.1 |
| | inorganic | Zinc | 20.9 | <20 | 14.3 |
| | volatile | Methylene Chloride | 1.0 | <10 | <0.5 |
| | | | | | |

# ENCLOSURE 2

| | | Benzene | Bromodichloromethane | Chlorodibromoethane | Chloroethane | Chloroform | 1,1-Dichloroethane | c-1,2-Dichloroethene | t-1,2-Dichloroethene | Dichlorofluoromethane | 1,2-Dichloropropane | Diethyl Ether | Ethyl Benzene | Tetrahydrofuran | Trichloroethene | Vinyl Chloride | Chlorodifluoromethane | Chlorofluoromethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 29113 | WT113A | | | | | | | | | | | | | | | | | |
| 29114 | WT113B | | | | | | | | | | | | | | | | | |
| 29115 | TB 1A | | | | | | | | | | | | | | | | | |
| 29148 | WT112A | | | | | | | | | | | | | | | | | |
| 29149 | WT112B | | | | | | | | | | | | | | | | | |
| 29150 | TB 2A | | | | | | | | | | | | | | | | | |
| 29158 | WT102A | | | | | | | | | | | | | | | | | |
| 29159 | WT102B | | | | | | | | | | | | | | | | | |
| 29160 | TB 3A | | | | | | | | | | | | | | | | | |
| 29207 | WT114A | 2.6 | | | | | 5.4 | | | (15) | | 46 | | | | | (12) | P |
| 29208 | WT114B | | | | | | 1.3 | 1.2 | | (20) | | 54 | | | | | (25) | P |
| 209 | TB 4B | | | | | | | | | | | | | | | | | |
| 29210 | WT116A | 16 | | | | | 7.2 | 1.5 | | (32) | 5.7 | 133 | 1.2 | | 1.2 | 4.1 | (45) | P |
| 29211 | FD 1 | 16 | | | | | 7.4 | 1.5 | | (33) | 5.7 | 132 | 1.2 | | 1.2 | 4.0 | (46) | P |
| 29212 | WT116B | | | | | | | | | | | 68 | | 26 | | | (12) | P |
| 29213 | TB 4A | | | | | | | | | | | | | | | | | |
| 29250 | WT 01 | | | | | | | | | | | | | | | | | |
| 29251 | TB 5B | | | | | | | | | | | | | | | | | |
| 29265 | WT111A | | | | | | | | | | | | | | | | | |
| 29266 | TB 5A | | | | | | | | | | | | | | | | | |
| 29287 | WT115A | 2.2 | | | | | | | | (44) | | 38 | | | | | (11) | P |
| 29288 | WT118B | | | | | | 1.3 | | | (47) | | 198 | | | | 9.1 | (59) | P |
| 29289 | TB 6A | | | | | | | | | | | | | | | | | |
| 29290 | WT101A | 1.9 | | | | | 5.1 | | | (46) | | 88 | | | | | (14) | P |
| 29291 | WT101B | | | | 8.4 | | | | | | | 48 | | | | | (18) | P |
| 29292 | FD 2 | | | | 8.5 | | | | | | | 51 | | | | | (18) | P |
| 29293 | TB 6B | | | | | | | | | | | | | | | | | |
| 29326 | WT E1 | | | | | | | | | | | 32 | | | | | | |
| 29327 | FERB 2 | | 11 | 2.2 | | 58 | | | | | 2.7 | | | | | | | |
| 29328 | TB 7B | | | | | | | | | | | | | | | | | |
| 29329 | WT117A | | | | | | | | | | | | | | | | | |
| 29330 | WT117B | | | | | | | | | | | | | | | | | |
| 29331 | FERB 1 | | 2.6 | | | 15 | | | | | | | | | | | | |
| 29332 | TB 7A | | | | | | | | | | | | | | | | | |

# APPENDIX C
# Quality Assurance Review of USEPA Well Sampling Data

# APPENDIX C
# QUALITY ASSURANCE REVIEW OF WELL SAMPLING DATA

## I. INTRODUCTION

### A. Background

Field personnel from the U.S. Army Corps of Engineers, Omaha District, ("USACE") conducted ground water monitoring at the Himco Landfill Site in Elkhart, Indiana in September 1995 as contractors to Region V of the U.S. Environmental Protection Agency (USEPA). Scientists in and contractors to USEPA Region V conducted a partial quality assurance review of the analytical data for these well water samples. In addition, USEPA Region V provided supplemental information regarding the sampling, chemical analysis, and the quality assurance review in response to questions posed by Mr. Lennie Scott of Bayer Corporation. For convenience, the original case narratives, the analytical data, and the supplemental information provided by USEPA are enclosed as Appendix A to this report.

### B. Purpose and Scope

ENVIRON Corporation (ENVIRON) reviewed the materials enclosed in Appendix A of this report (i.e., the case narratives and associated laboratory reports and the supplemental information provided by USEPA) and compared the laboratory performance and the analytical results to the quality control (QC) criteria outlined in the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review* and *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*. The USEPA guidelines are collectively referred to herein as the "Functional Guidelines". ENVIRON then compared the data qualifiers assigned by the USEPA data reviewer(s) to determine whether the qualifiers were appropriately applied as described in the Functional Guidelines. ENVIRON modified the qualifiers in instances where, in its judgement, the Functional Guidelines were not properly applied and identified additional qualifications in instances where the available documentation provided a reasonable and appropriate basis for extending the quality assurance review beyond that reported by USEPA Region V.

This appendix summarizes the USEPA data validation effort and the actions taken as a result of ENVIRON's review. Specifically, this report summarizes the data qualifications identified in the case narrative, additional qualifications outlined in USEPA's response to questions, and additional data qualifications proposed by ENVIRON, based upon its review of the available documentation.

## C. Classification of Data

Data validation is a review process that evaluates the results, the laboratory performance, and the report documentation for laboratory analyses of environmental samples. Based on this evaluation, a data useability determination is made. Data classification, the final step in the validation process, establishes the purposes for which the data may be used.

### 1. Unqualified Data

Data that meet all of the criteria set forth in the Functional Guidelines are classified as unqualified data. These data are identified by the absence of any data qualifiers in the QC flag column, or by the flag "U", which indicates that the analyte was not detected at the associated concentration. For unqualified data, the identity of the analyte is considered to be certain and the concentration is considered to be accurate and precise. On this basis, unqualified data may be used to determine the nature and extent of chemical contamination at a site.

### 2. Qualified Data

Data that do not meet all of the criteria set forth in the Functional Guidelines have been classified as qualified. Two types of qualified data have been identified in this exercise: (1) data with reported concentrations that are considered to be estimated quantities (qualification flag "J" for detects and "UJ" for non-detects) due to precision and/or accuracy statistics outside the ranges specified in the Functional Guidelines; and (2) data flagged as non-detects ("U") under the USEPA guidelines, but considered by ENVIRON to be qualified because of associated blank contamination.

The first type of qualified data is known to be of lower quality (in terms of accuracy and/or precision) than unqualified data, but the identity of the chemical is considered to be certain. This type of qualified data is suitable for use in determining the presence or absence of chemicals, but is less reliable than unqualified data for quantitative purposes (i.e., determining the nature and extent of chemical contamination at a site).

The second type of qualified data has been flagged as non-detect ("U") under USEPA guidelines, although ENVIRON has classified these data as qualified due to associated blank contamination. The analyses in this category are those in which a chemical was detected at a concentration less than five times higher than the concentration of the same chemical in an associated blank sample. Because the origin

of the chemical found in the blank and the sample cannot be determined with certainty, these data do not clearly establish the presence or absence of the chemical in the specific well water sample, although they do suggest upper limits on the concentration in the sample.

### 3. Unusable Data

Data that were obtained by uncontrolled analyses, as indicated by excursions from the QC limits established in the Functional Guidelines, are classified as "unusable" (qualification flag "R"). Additional data may be needed to confirm the presence or absence of chemical contamination or to determine concentrations of chemicals in the samples that provided unusable data.

## D. Quality Control Criteria

ENVIRON reviewed the analytical results presented on the laboratory report forms using the QC criteria listed and described below. These QC criteria were set forth in the Functional Guidelines. For organic analyses, ENVIRON reviewed the data validation for the following QC parameters:

- sample holding times;
- continuing calibration;
- blanks;
- surrogate spike recovery;
- matrix spike/matrix spike duplicate (MS/MSD) percent recoveries;
- MS/MSD relative percent difference (RPD); and
- duplicate relative percent differences.

For inorganic analyses, ENVIRON reviewed the data validation for the following QC parameters:

- blanks;
- matrix spike percent recoveries; and
- duplicate relative percent difference (RPD).

These QC parameters and the impact of each parameter on the quality of the analytical results are described below. Data qualification flags used to indicate QC concerns are also noted.

**1. Holding Times**

The accuracy of analytical results may depend upon analysis within the sample holding times specified in the Functional Guidelines or the analytical method. In general, an excessive holding time is assumed to result in a less accurate measurement due to the potential for loss or degradation of the analyte over time. The qualification of samples analyzed outside holding times is based upon professional judgment regarding the severity of the impact of the holding time on the results. Depending upon the holding time, the nature of the analyte, and the analytical method, data generally are qualified either as estimated quantities ("J" or "UJ") or as unusable ("R").

**2. Continuing Calibration**

Continuing calibration standards are used to ensure that the instrument is capable of producing acceptable qualitative and quantitative data. Calibration outliers call into question the reliability of the associated data. If the difference between the initial and continuing calibration (%D) or the relative response factor (RRF) does not meet QC criteria, sample data are considered to be either estimated ("J" or "UJ") or unusable ("R"). As presented in the Functional Guidelines, the decision rules for accepting or rejecting data depend upon the severity of the %D or RRF failure. During this review, the raw calibration and response factor data were not available to ENVIRON (only %D and RRF values for the continuing calibration outliers); hence, ENVIRON was unable to conduct a thorough independent review.

**3. Blanks**

Blanks are artificial samples designed to evaluate the nature and extent of contamination of environmental samples that may be introduced by field or laboratory procedures. Accuracy of the analytical results is evaluated by comparing results for the analysis of field (e.g., rinsate and source water), trip, continuing calibration, preparation, and method blank samples to the results for investigative samples. Contaminant concentrations in blanks should be less than detection or reporting limits. If a contaminant is found in a blank and the concentration of the same analyte in an associated sample is less than five times that detected in the blank (or ten times in the

cases of methylene chloride, acetone, 2-butanone, and phthalates), then the associated result is considered a non-detect ("U"). If the result is greater than five times the concentration in the blank (or greater than ten times in the cases of methylene chloride, acetone, 2-butanone, and phthalates), no data qualification is required.

**4. Surrogate Spike Recovery**

A surrogate standard is a distinct chemical that behaves similarly to a target chemical and is purposely added to the sample prior to cleanup and extraction. The amount of the surrogate detected in the analysis is compared to the amount added and the percent recovery is determined. The recovery of the surrogate spike is assumed to reflect the recovery of the target chemical from the sample matrix. In this way, the accuracy of reported measurements for the target chemical can be evaluated.

The Functional Guidelines identify decision rules for accepting or rejecting data depending upon the severity of the failure of the surrogate spike recovery. If surrogate recoveries do not meet QC criteria, sample data are considered estimated quantities ("J" or "UJ") or unusable ("R").

**5. Matrix Spike Recovery**

The analytical recovery of a target chemical can be directly assessed by performing matrix spikes. A known amount of a target chemical is purposely added to each of one or more samples prior to cleanup and extraction. For each sample, the amount of the substance detected in the analysis is compared to the amount added and the percent recovery is determined. If deviations outside the QC limits for percent recovery are judged to have affected the quality of the associated sample results, then the associated analytical results are considered estimated quantities (qualified "J" or "UJ"); i.e., the accuracy is questioned. Precision of a set of chemical analyses is evaluated by determining the relative percent difference (RPD) for the matrix spike and matrix spike duplicate (MS/MSD) analyses. If deviations outside the QC limits for RPDs are judged to have affected the quality of the associated sample results, then the associated analytical results are considered estimated quantities (qualified "J" or "UJ").

## II. QUALITY ASSURANCE REVIEW AND DATA VALIDATION

The validation narrative below discusses the QC deficiencies and the resulting classifications of the September 1995 well water sampling data obtained by the USACE/USEPA. Data were classified as unqualified, qualified but usable, or unusable based upon the QC criteria discussed in the previous section. The qualification flags used for the three classes of data are as follows:

- Unusable data are indicated by the qualification flag "R".

- Qualified data are indicated by the qualification flag "J" and "UJ" for data with precision and/or accuracy statistics of the allowable ranges, and "U" for samples with associated blank contamination.

- Unqualified data are indicated by the absence of any qualification flags, or by the flag "U" alone, which indicates that the analyte was not detected at the associated reporting limit.

The well water samples were analyzed as different sample delivery groups (SDGs) and the case narratives enclosed in Appendix A are organized by SDG. The remainder of this appendix is organized by analyte category (VOCs, SVOCs, pesticides/PCBs, and metals) rather than SDG, because the Rinsate Blanks and Source Water Blanks were analyzed in one SDG, but apply to all samples. Within each analyte category, a chronological summary of the data validation is provided.

### A. Volatile Organic Compounds (VOCs)

1. According to the case narrative and associated laboratory reports, the following data qualifications were added by the laboratory or by the USEPA's reviewers.

    - The laboratory qualified the following sample results "J" (estimated), due to detection below the contract required quantitation limit ("CRQL"):

- 1,1-dichloroethane in samples EARQ0, EARQ1, EARQ2, EARQ4, and EARR3;
- 1,1-dichloroethene (total) in samples EARQ0, EARQ1, and EARQ2;
- 1,2-dichloropropane in samples EARQ8 and EARR7;
- 4-methyl-2-pentanone in sample EARR9;
- benzene in samples EARQ4 and EARQ9;
- bromodichloromethane in samples EARQ8 and EARR7;
- carbon disulfide in samples EARQ2, EARQ3, and EARQ4;
- chloroethane in samples EARR4 and EARR5;
- chloroform in samples EARP0, EARP3, EARP7, and EARP9;
- ethylbenzene and trichloroethene in samples EARQ0 and EARQ1; and
- methylene chloride in samples EARQ8, EARR7, EARR8, and EARR9.

Although the case narrative did indicate that trip blank contamination was present, field blanks were not considered, and affected samples were not identified.

2. Supplemental information regarding the VOC results was provided by USEPA Region V in a letter dated February 29, 1996 (see Attachment 5, Appendix A), as follows:

- The following samples were affected by methylene chloride contamination in the trip and rinsate blanks, and were qualified "U" (non-detected) for methylene chloride with a CRQL of 10 $\mu$g/L: EARQ6, EARQ7, EARQ9, EARR0, EARR1, EARR3, EARR4, EARR5, EARR6, and EARS0.

- Chloroform and bromodichloromethane were detected in rinsate blanks affecting sample EARS0. The results for the two analytes were qualified "U" (non-detect), and the CRQL raised to 10 $\mu$g/L.

- Samples EARQ0 and EARQ1 were affected by 1,2-dichloropropane contamination in associated blanks. The results for 1,2-dichloropropane in the two samples were qualified "U for non-detect, and the CRQL raised to 10 $\mu$g/L.

3. ENVIRON modified and/or added to the above VOC data qualifiers as explained below.

- In addition to the blank contamination outlined above, the reported result for methylene chloride in sample EARR2 should be changed from 1J $\mu$g/L (i.e., a reported detection) to 10U $\mu$g/L (i.e., a non-detect), as sample EARR2 contained methylene chloride at levels less than ten times that in the associated trip and rinsate blanks.

- Bromodichloromethane, chloroform, and methylene chloride were also detected in the source water blank (sample EARS0). However, there was no need for further data qualification for these three analytes because the reported concentrations in EARS0 were already qualified as non-detect (i.e., changed to 10U $\mu$g/L) by the original reviewer due to the rinsate and/or trip blanks associated with EARS0 (as described above).

- According to the case narrative, no laboratory duplicate samples were identified. Two sets of field duplicates were analyzed, however:

EARR4/EARR5 and EARQ0/EARQ1. ENVIRON identified no major discrepancies between the field duplicate results for VOCs.

## B. Semivolatile Organic Compounds (SVOCs)

1. According to the case narrative, the following data qualifications were added by the laboratory or the USEPA's reviewers.

- Sample EARS0 was extracted after the fourteen-day holding time allowed for SVOC analysis. Because no target compounds were found in the sample, all semi-volatile target results were flagged "R" (unusable) and the values for the two tentatively identified compounds (TICs) were qualified "J" (estimated concentration).

- Due to method blank (MB) contamination, the following analytes and several TICs in the associated samples were qualified "B" (or "BJ", if the concentration detected was less than the CRQL) by the laboratory and further qualified U by the original reviewer. If the reported value was less than the CRQL, it was deleted and raised to the CRQL by the reviewer:

  - bis(2-ethylhexyl)phthalate in samples EARQ8, EARR0, EARR1, EARR3, EARR4, EARR5, and EARR6 associated with MB SBLKP1; EARS0 associated with MB SBLKP4; and EARP1, EARP2, EARP4, EARP5, EARP6, EARP8, EARQ0, EARQ2, EARQ3, and EARQ4 associated with MB SBLKM1; and

  - diethylphthalate in samples EARP1, EARP2, EARP4, EARQ0, and EARQ4 associated with MB SBLKM1.

- In addition, sample EARQ1 was qualified "B" by the laboratory due to contamination in the associated method blank SBLKM1; however, because the concentration in the sample was greater than ten times that in the blank, the EPA reviewer did not further qualify the result.

- Due to low recovery of 1,2,4-trichlorobenzene in the matrix spike (MS) of EARP4 and the non-detect result of the analyte in the sample, the result for 1,2,4-trichlorobenzene in EARP4 was qualified "UJ" (estimated quantitation limit).

- The laboratory qualified the following sample results "J" (estimated) due to detection below the CRQL:

    - 2-methylnaphthalene and phenanthrene in sample EARQ0;

    - acenaphthene, carbazole, dibenzofuran, and fluorene in samples EARQ0 and EARQ1;

    - anthracene and naphthalene in sample EARQ1;

    - bis(2-ethylhexyl)phthalate in samples EARQ7, EARQ9, and EARR2; and

    - butylbenzylphthalate in sample EARQ2.

- The following TIC results were qualified "B" due to contamination in an associated blank:

    - unknown alcohol in sample EARR7;

    - 1,2-cyclohexandiol (trans) in samples EARP4 and EARP5;

    - unknown trichloropropene in sample EARQ6 and EARQ7; and

    - unknown alkene in sample EARQ7.

Although the case narrative indicated that there were calibration outliers, the affected samples were not identified.

2. Supplemental information regarding the SVOC results was provided by USEPA Region V in a letter dated February 29, 1996 (see Attachment 5, Appendix A), as follows:

- Due to continuing calibration outliers, the following sample results were considered estimated and were qualified "J" for positive results and "UJ" for non-positive quantitation limits:

  - benzo(g,h,i)perylene in samples EARP1, EARP2, EARP4, and EARP5;

  - acetone in samples EARQ8, EARR0, EARR1, EARR4, EARR5, EARR6, EARR7, EARR8, and EARR9;

  - carbon tetrachloride and tetrachloroethene in samples EARS0 and EARS1; and

  - 2,2-oxybis(1-chloropropane), 2,4-dinitrophenol, and pentachlorophenol in samples EARQ8, EARR0, EARR1, EARR3, EARR4, EARR5, EARR6, and EARR7.

3. ENVIRON has modified and/or added to the above SVOC data qualifiers as explained below.

- Because bis(2-ethylhexyl)phthalate was detected in samples EARR3 and EARQ1 at levels greater than ten times that detected in the associated blanks, the "B" is not appropriate and has been removed by ENVIRON. The result for these samples should read 5J and 15 $\mu$g/L, respectively. In addition, the original reviewer qualified reported values of bis(2-ethylhexyl)phthalate less than ten times that in the associated blank as "JBU" (not detected at a concentration significantly greater than that in blanks). The "B" is not necessary and has been removed, and the results

are qualified "UJ" (non-detect with an estimated sample quantitation limit).

- According to the case narrative, no duplicate samples were identified. Although the laboratory was not required to perform any duplicate analyses, two sets of field duplicates were analyzed: EARR4/EARR5 and EARQ0/EARQ1. There was no discrepancy in the SVOC results for samples EARR4 and EARR5. On the other hand, bis(2-ethylhexyl) phthalate was reported as detected in EARQ1 at a concentration of 15 $\mu$g/L, but was reported as not detected (at a CRQL of 10 $\mu$g/L) in the associated duplicate EARQ0. Because no QC criteria for SVOC duplicate results exist in the (national) Functional Guidelines and ENVIRON is unaware of any such QC criteria developed by USEPA Region V, these results are not qualified. Data users should, nevertheless, be aware of this discrepancy.

- According to the Functional Guidelines, all TICs are automatically qualified "NJ"(tentatively identified); it is, therefore, not necessary to flag TICs "J" based on QC violations.

- TIC results which are not sufficiently above the level in the blank should not be reported. The following TIC results should be removed on this basis:

    - unknown alcohol in sample EARR7;

    - 1,2-cyclohexandiol (trans) in samples EARP4 and EARP5;

    - unknown trichloropropene in sample EARQ6 and EARQ7; and

    - unknown alkene in sample EARQ7.

## C. Pesticides/PCBs

According to the case narrative and associated laboratory reports the following data qualifiers were added to the pesticide results by USEPA's reviewers.

- No pesticide/PCB target analytes were detected in samples EARQ0, EARQ1, and EARR0. Due to low surrogate recovery of decachlorobiphenyl (DCB), all pesticide/PCB results for these samples were considered "UJ" (i.e., non-detects with estimated sample quantitation limits).

- The laboratory qualified the α-BHC results in samples EARQ2 and EARQ7 "J" (estimated) due to detection below the CRQL.

## D. Metals

1. According to the case narrative the following data qualifiers were added to the metal results by the USEPA's reviewers.

    - The original reviewer noted several QC problems resulting in the following data being qualified as "J" (estimated):

        - calcium and magnesium results in samples MEAFH6, MEAFH7, MEAFJ2, and MEAFJ4; and

        - sodium results in all samples.

        The laboratory originally flagged the above results "E", estimated because of the presence of interferences. Because serial dilution results were not provided, ENVIRON was unable to conduct a thorough independent review.

    - Due to preparation blank (PB) or continuing calibration blank (CCB) contamination at levels less than the CRQL, the following results are qualified "J" (estimated):

- aluminum in samples MEAFG1, MEAFG2, MEAFG3, MEAFG4, MEAFG5, MEAFG6, MEAFG7, MEAFG8, MEAFG9, MEAFH0, MEAFH1, MEAFH2, MEAFH3, MEAFH4, MEAFH5, MEAFH7, MEAFH8, MEAFH9, MEAFJ0, MEAFJ1, MEAFJ2, MEAFJ3, and MEAFJ4;

- barium in sample MEAFJ3;

- beryllium in samples MEAFG2, MEAFG6, MEAFH8, MEAFJ0, and MEAFJ1;

- calcium in samples MEAFH4 and MEAFJ3;

- chromium in samples MEAFG2, MEAFG6, MEAFG8, MEAFH8, MEAFJ0, and MEAFJ1;

- copper in samples MEAFG2, MEAFG6, MEAFH8, MEAFJ0, MEAFJ1, and MEAFJ3;

- iron in samples MEAFG1, MEAFG3, MEAFG6, MEAFH2, MEAFH4, and MEAFJ3;

- magnesium in samples MEAFH4 and MEAFJ3;

- manganese in samples MEAFG1, MEAFG3, MEAFH4, and MEAFJ3;

- nickel in samples MEAFG3, MEAFG6, MEAFG7, MEAFG9, MEAFH1, MEAFH3, MEAFH4, MEAFH8, MEAFH9, MEAFJ0, and MEAFJ1;

- potassium in samples MEAFH4 and MEAFJ3;

- silver in samples MEAFG2, MEAFG6, MEAFH6, MEAFH8, MEAFJ0, and MEAFJ1;

- thallium in samples MEAFG2, MEAFG5, MEAFG7, MEAFH1, MEAFH5, MEAFH8, and MEAFJ3;

- vanadium in samples MEAFG1, MEAFG3, MEAFG5, MEAFG6, MEAFG7, MEAFG9, MEAFH1, MEAFH2, MEAFH3, MEAFH8, MEAFH9, MEAFJ0, and MEAFJ1; and

- zinc in samples MEAFG1, MEAFG2, MEAFG4, MEAFG5, MEAFG6, MEAFG7, MEAFG9, MEAFH2, MEAFH4, MEAFH6, MEAFH7, MEAFH8, MEAFH9, MEAFJ0, MEAFJ1, MEAFJ2, MEAFJ3, and MEAFJ4.

2. Supplemental information regarding the metals results was provided by USEPA Region V in a letter dated February 29, 1996 (see Attachment 5, Appendix A), as follows:

   - The two field blanks (MEAFJ3 and MEAFH4) associated with SDG #MEAFG1 contained several of the target metals. However, because all of the results in the blanks are already qualified "J" due to PB and CCB contamination and it is not possible to know the actual amount of contamination present in the blanks, it is not appropriate to qualify the associated samples as having constituent concentrations at levels significantly below that detected in the blanks. Therefore, the associated samples are not qualified further on the basis of this blank contamination.

3. ENVIRON has modified and/or added to the above data qualifiers for metals as explained below.

   - The laboratory provided "B" flags for metal results detected below the CRQL. ENVIRON has changed all "B" flags for metal results to "J" to

indicate the result is an estimated concentration. The following sample results are affected by this change:

- antimony in MEAFG5, MEAFG6, MEAFG7, MEAFH6, and MEAFJ1;
- arsenic in MEAFG5 and MEAFH9;
- barium in MEAFG1, MEAFG2, MEAFG3, MEAFG4, MEAFG5, MEAFG6, MEAFG7, MEAFG8, MEAFG9, MEAFH0, MEAFH2, MEAFH3, MEAFH5, MEAFH6, MEAFH7, MEAFH9, MEAFJ0, MEAFJ1, MEAFJ2, and MEAFJ4;
- cadmium in samples MEAFH1 and MEAFH9;
- chromium, copper, nickel, and vanadium in sample MEAFH6;
- cobalt in samples MEAFG1, MEAFG5, MEAFG6, MEAFG9, MEAFH1, MEAFH3, MEAFH8, MEAFH9, MEAFJ0, and MEAFJ1;
- iron and manganese in sample MEAFJ4;
- magnesium in sample MEAFH3;
- potassium in samples MEAFG1, MEAFG2, MEAFG3, MEAFG4, MEAFG5, MEAFG6, MEAFH2, MEAFH3, MEAFH6, MEAFH7, MEAFJ2, and MEAFJ4; and
- zinc in samples MEAFG3, MEAFH1, MEAFH2, MEAFH3, MEAFH4, MEAFH7, MEAFH8, and MEAFH9.

- The original reviewer considered duplicate analyses performed by the laboratory. Field duplicates were not considered, however. A significant discrepancy noted by ENVIRON entails the results for zinc in field duplicate samples MEAFG7 and MEAFG8, which are 4.3 and 45.4 $\mu$g/L, respectively. All samples in SDG #MEAFG1 are potentially affected by these field duplicate results. All but two of the associated samples (MEAFH5 and MEAFG8) have already been qualified "J" (estimated concentration) for other reasons. Based upon the field duplicate results, the zinc results for these latter two samples could also be considered to be estimated concentrations. However, because no QC criteria for metals duplicate results exist in the (national) Functional Guidelines and ENVIRON is unaware of any such QC criteria developed by USEPA Region V, these results are not qualified. Data users should, nevertheless, be aware of this discrepancy.

For the SDG #MEAFH6, the spike was added to the source water blank. According to the Functional Guidelines, samples identified as field blanks cannot be used for spike sample analysis. Because the spike was added by laboratory personnel to a blank sample, instead of an authentic ground water sample,[1] it is not known what effects the actual sample matrix has on these analyses.

Because the spike, duplicate, CCB, and PB results were not provided to ENVIRON for SDG #MEAFG1, an independent review of the original data validation was not possible for samples in that SDG.

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[1] Based on the chain of custody, it does not appear that the laboratory was aware that the sample was a blank and not a sample of authentic well water.

# APPENDIX D
# Comparison of Split Sampling Data Incorporating the Results of ENVIRON's Quality Assurance Review

**Well: WT101A**

***Chemical Class: inorganic***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Aluminum | MEAFH9 | 321.00 | J | ug/L | 34.60 | | ug/L |
| Antimony | MEAFH9 | 12.80 | U | ug/L | 60.00 | U | ug/L |
| Arsenic, total | MEAFH9 | 7.80 | J | ug/L | 3.32 | | ug/L |
| Barium | MEAFH9 | 116.00 | J | ug/L | 96.00 | | ug/L |
| Beryllium, total | MEAFH9 | 0.40 | U | ug/L | 5.00 | U | ug/L |
| Cadmium | MEAFH9 | 1.10 | J | ug/L | 0.50 | U | ug/L |
| Calcium | MEAFH9 | 249,000.00 | | ug/L | 260,000.00 | | ug/L |
| Chromium | MEAFH9 | 4.00 | U | ug/L | 10.00 | U | ug/L |
| Cobalt | MEAFH9 | 10.90 | J | ug/L | 5.00 | U | ug/L |
| Copper | MEAFH9 | 1.70 | U | ug/L | 25.00 | U | ug/L |
| Cyanide | MEAFH9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Iron | MEAFH9 | 12,700.00 | | ug/L | 12,300.00 | | ug/L |
| Lead | MEAFH9 | 1.70 | U | ug/L | 6.00 | | ug/L |
| Magnesium | MEAFH9 | 25,200.00 | | ug/L | 24,000.00 | | ug/L |
| Manganese | MEAFH9 | 1,060.00 | | ug/L | 818.00 | | ug/L |
| Mercury | MEAFH9 | 0.20 | U | ug/L | 0.20 | U | ug/L |
| Nickel | MEAFH9 | 23.80 | J | ug/L | 2.00 | U | ug/L |
| Potassium | MEAFH9 | 8,060.00 | | ug/L | 8,200.00 | | ug/L |
| Selenium | MEAFH9 | 3.60 | U | ug/L | 16.00 | | ug/L |
| Silver | MEAFH9 | 2.50 | U | ug/L | 10.00 | U | ug/L |
| Sodium | MEAFH9 | 44,100.00 | J | ug/L | 41,600.00 | | ug/L |
| Thallium | MEAFH9 | 4.70 | U | ug/L | 10.00 | U | ug/L |
| Vanadium | MEAFH9 | 20.90 | J | ug/L | 5.00 | U | ug/L |
| Zinc | MEAFH9 | 1.80 | J | ug/L | 3.00 | U | ug/L |

**Well: WT101A**

***Chemical Class: pesticides***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 4,4-DDD | EARR3 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| 4,4-DDE | EARR3 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| 4,4-DDT | EARR3 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Aldrin | EARR3 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Aroclor-1016 | EARR3 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1221 | EARR3 | 2.00 | U | ug/L | 2.00 | U | ug/L |
| Aroclor-1232 | EARR3 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1242 | EARR3 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1248 | EARR3 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1254 | EARR3 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1260 | EARR3 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Dieldrin | EARR3 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endosulfan I | EARR3 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Endosulfan II | EARR3 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endosulfan sulfate | EARR3 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin | EARR3 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin aldehyde | EARR3 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin ketone | EARR3 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Heptachlor | EARR3 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Heptachlor epoxide | EARR3 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Methoxychlor | EARR3 | 0.50 | U | ug/L | 0.50 | U | ug/L |
| Toxaphene | EARR3 | 5.00 | U | ug/L | 5.00 | U | ug/L |
| alpha BHC | EARR3 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| alpha Chlordane | EARR3 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| beta BHC | EARR3 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| delta BHC | EARR3 | 0.05 | U | ug/L | 0.05 | U | ug/L |

**Well: WT101A**

***Chemical Class: pesticides***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| gamma BHC (Lindane) | EARR3 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| gamma Chlordane | EARR3 | 0.05 | U | ug/L | 0.05 | U | ug/L |

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichlorobenzene | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,3-Dichlorobenzene | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,4-Dichlorobenzene | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,2'-oxybis(1-Chloropropane) | EARR3 | 10.00 | UJ | ug/L | 10.00 | U | ug/L |
| 2,4,5-Trichlorophenol | EARR3 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2,4,6-Trichlorophenol | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dichlorophenol | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dimethylphenol | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dinitrophenol | EARR3 | 25.00 | UJ | ug/L | 25.00 | U | ug/L |
| 2,4-Dinitrotoluene | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,6-Dinitrotoluene | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Chloronaphthalene | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Chlorophenol | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Methylnaphthalene | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Methylphenol | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Nitroaniline | EARR3 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2-Nitrophenol | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 3,3'-Dichlorobenzidine | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 3-Nitroaniline | EARR3 | 25.00 | U | ug/L | 25.00 | U | ug/L |

**Well: WT101A**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 4,6-Dinitro-2-methylphenol | EARR3 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4-Bromophenyl-phenylether | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chloro-3-methylphenol | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chloroaniline | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chlorophenyl-phenylether | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Methylphenol | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Nitroaniline | EARR3 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4-Nitrophenol | EARR3 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| Acenaphthene | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Acenaphthylene | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Anthracene | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[a]anthracene | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[a]pyrene | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[b]fluoranthene | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[g,h,i]perylene | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[k]fluoranthene | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2 ethylhexyl)phthalate | EARR3 | 5.00 | J | ug/L | 0.50 | | ug/L |
| Bis(2-Chloroethoxy)methane | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2-chloroethyl)ether | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Butylbenzylphthalate | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbazole | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chrysene | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Di-n-Butylphthalate | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Di-n-octylphthalate | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibenz[a,h]anthracene | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibenzofuran | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT101A**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Diethylphthalate | EARR3 | 11.00 | | ug/L | 9.10 | | ug/L |
| Dimethylphthalate | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Fluoranthene | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Fluorene | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorobenzene | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorobutadiene | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorocyclopentadiene | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachloroethane | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Indeno[1,2,3 cd]pyrene | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Isophorone | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| N-Nitroso-di-n-propylamine | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| N-Nitrosodiphenylamine | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Naphthalene | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Nitrobenzene | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Pentachlorophenol | EARR3 | 25.00 | UJ | ug/L | 25.00 | U | ug/L |
| Phenanthrene | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Phenol | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Pyrene | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1,2,2-Tetrachloroethane | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1,2-Trichloroethane | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1-Dichloroethane | EARR3 | 5.00 | J | ug/L | 5.10 | | ug/L |

**Well: WT101A**

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloroethane | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloroethene (total) | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloropropane | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Butanone | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Hexanone | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Methyl-2-Pentanone | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Acetone | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzene | EARR3 | 10.00 | U | ug/L | 1.90 | | ug/L |
| Bromodichloromethane | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromoform | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromomethane | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbon Disulfide | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbon Tetrachloride | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chlorobenzene | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloroethane | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloroform | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloromethane | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibromochloromethane | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Ethylbenzene | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Methylene Chloride | EARR3 | 10.00 | U | ug/L | 0.50 | U | ug/L |
| Styrene | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Tetrachloroethene | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Toluene | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Trichloroethene | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Vinyl Chloride | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT101A**

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Xylene (total) | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| cis-1,3-Dichloropropene | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| trans-1,3-Dichloropropene | EARR3 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT101B**

***Chemical Class: inorganic***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Aluminum | MEAFJ0 | 206.00 | J | ug/L | 123.00 | | ug/L |
| Antimony | MEAFJ0 | 12.80 | U | ug/L | 60.00 | U | ug/L |
| Arsenic, total | MEAFJ0 | 3.80 | U | ug/L | 10.00 | U | ug/L |
| Barium | MEAFJ0 | 184.00 | J | ug/L | 158.00 | | ug/L |
| Beryllium, total | MEAFJ0 | 1.10 | J | ug/L | 0.50 | U | ug/L |
| Cadmium | MEAFJ0 | 1.10 | U | ug/L | 5.00 | U | ug/L |
| Calcium | MEAFJ0 | 126,000.00 | | ug/L | 140,000.00 | | ug/L |
| Chromium | MEAFJ0 | 20.60 | J | ug/L | 0.90 | | ug/L |
| Cobalt | MEAFJ0 | 9.60 | J | ug/L | 5.00 | U | ug/L |
| Copper | MEAFJ0 | 16.00 | J | ug/L | 2.66 | | ug/L |
| Cyanide | MEAFJ0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Iron | MEAFJ0 | 3,080.00 | | ug/L | 3,100.00 | | ug/L |
| Lead | MEAFJ0 | 1.70 | U | ug/L | 7.00 | | ug/L |
| Magnesium | MEAFJ0 | 47,300.00 | | ug/L | 46,300.00 | | ug/L |
| Manganese | MEAFJ0 | 49.30 | | ug/L | 36.00 | | ug/L |
| Mercury | MEAFJ0 | 0.20 | U | ug/L | 0.20 | U | ug/L |
| Nickel | MEAFJ0 | 14.40 | J | ug/L | 2.00 | U | ug/L |
| Potassium | MEAFJ0 | 5,110.00 | | ug/L | 5,000.00 | | ug/L |

**Well: WT101B**

***Chemical Class: inorganic***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Selenium | MEAFJ0 | 3.60 | U | ug/L | 5.00 | U | ug/L |
| Silver | MEAFJ0 | 18.20 | J | ug/L | 0.50 | U | ug/L |
| Sodium | MEAFJ0 | 47,400.00 | J | ug/L | 44,300.00 | | ug/L |
| Thallium | MEAFJ0 | 4.70 | U | ug/L | 10.00 | U | ug/L |
| Vanadium | MEAFJ0 | 17.80 | J | ug/L | 5.00 | U | ug/L |
| Zinc | MEAFJ0 | 2.60 | J | ug/L | 3.00 | U | ug/L |

***Chemical Class: pesticides***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 4,4-DDD | EARR4 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| 4,4-DDE | EARR4 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| 4,4-DDT | EARR4 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Aldrin | EARR4 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Aroclor-1016 | EARR4 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1221 | EARR4 | 2.00 | U | ug/L | 2.00 | U | ug/L |
| Aroclor-1232 | EARR4 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1242 | EARR4 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1248 | EARR4 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1254 | EARR4 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1260 | EARR4 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Dieldrin | EARR4 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endosulfan I | EARR4 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Endosulfan II | EARR4 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endosulfan sulfate | EARR4 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin | EARR4 | 0.10 | U | ug/L | 0.10 | U | ug/L |

**Well: WT101B**

***Chemical Class: pesticides***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Endrin aldehyde | EARR4 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin ketone | EARR4 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Heptachlor | EARR4 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Heptachlor epoxide | EARR4 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Methoxychlor | EARR4 | 0.50 | U | ug/L | 0.50 | U | ug/L |
| Toxaphene | EARR4 | 5.00 | U | ug/L | 5.00 | U | ug/L |
| alpha BHC | EARR4 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| alpha Chlordane | EARR4 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| beta BHC | EARR4 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| delta BHC | EARR4 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| gamma BHC (Lindane) | EARR4 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| gamma Chlordane | EARR4 | 0.05 | U | ug/L | 0.05 | U | ug/L |

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichlorobenzene | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,3-Dichlorobenzene | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,4-Dichlorobenzene | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,2'-oxybis(1-Chloropropane) | EARR4 | 10.00 | UJ | ug/L | 10.00 | U | ug/L |
| 2,4,5-Trichlorophenol | EARR4 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2,4,6-Trichlorophenol | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dichlorophenol | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dimethylphenol | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dinitrophenol | EARR4 | 25.00 | UJ | ug/L | 25.00 | U | ug/L |

**Well: WT101B**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 2,4-Dinitrotoluene | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,6-Dinitrotoluene | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Chloronaphthalene | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Chlorophenol | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Methylnaphthalene | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Methylphenol | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Nitroaniline | EARR4 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2-Nitrophenol | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 3,3'-Dichlorobenzidine | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 3-Nitroaniline | EARR4 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4,6-Dinitro-2-methylphenol | EARR4 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4-Bromophenyl-phenylether | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chloro-3-methylphenol | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chloroaniline | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chlorophenyl-phenylether | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Methylphenol | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Nitroaniline | EARR4 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4-Nitrophenol | EARR4 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| Acenaphthene | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Acenaphthylene | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Anthracene | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[a]anthracene | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[a]pyrene | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[b]fluoranthene | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[g,h,i]perylene | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[k]fluoranthene | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT101B**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Bis(2 ethylhexyl)phthalate | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2-Chloroethoxy)methane | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2-chloroethyl)ether | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Butylbenzylphthalate | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbazole | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chrysene | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Di-n-Butylphthalate | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Di-n-octylphthalate | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibenz[a,h]anthracene | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibenzofuran | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Diethylphthalate | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dimethylphthalate | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Fluoranthene | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Fluorene | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorobenzene | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorobutadiene | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorocyclopentadiene | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachloroethane | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Indeno[1,2,3 cd]pyrene | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Isophorone | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| N-Nitroso-di-n-propylamine | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| N-Nitrosodiphenylamine | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Naphthalene | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Nitrobenzene | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Pentachlorophenol | EARR4 | 25.00 | UJ | ug/L | 25.00 | U | ug/L |
| Phenanthrene | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT101B**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Phenol | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Pyrene | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1,2,2-Tetrachloroethane | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1,2-Trichloroethane | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1-Dichloroethane | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1-Dichloroethene | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloroethane | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloroethene (total) | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloropropane | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Butanone | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Hexanone | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Methyl-2-Pentanone | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Acetone | EARR4 | 10.00 | UJ | ug/L | 10.00 | U | ug/L |
| Benzene | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromodichloromethane | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromoform | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromomethane | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbon Disulfide | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbon Tetrachloride | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chlorobenzene | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloroethane | EARR4 | 6.00 | J | ug/L | 8.40 | | ug/L |

**Well: WT101B**

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Chloroform | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloromethane | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibromochloromethane | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Ethylbenzene | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Methylene Chloride | EARR4 | 10.00 | U | ug/L | 0.50 | U | ug/L |
| Styrene | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Tetrachloroethene | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Toluene | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Trichloroethene | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Vinyl Chloride | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Xylene (total) | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| cis-1,3-Dichloropropene | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| trans-1,3-Dichloropropene | EARR4 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT102A**

***Chemical Class: inorganic***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Aluminum | MEAFG6 | 268.00 | J | ug/L | 111.00 | | ug/L |
| Antimony | MEAFG6 | 21.70 | J | ug/L | 3.10 | | ug/L |
| Arsenic, total | MEAFG6 | 3.80 | U | ug/L | 10.00 | U | ug/L |
| Barium | MEAFG6 | 53.30 | J | ug/L | 45.90 | | ug/L |
| Beryllium, total | MEAFG6 | 1.30 | J | ug/L | 0.50 | U | ug/L |
| Cadmium | MEAFG6 | 1.10 | U | ug/L | 5.00 | U | ug/L |
| Calcium | MEAFG6 | 157,000.00 | | ug/L | 170,000.00 | | ug/L |
| Chromium | MEAFG6 | 23.90 | J | ug/L | 1.95 | | ug/L |

**Well: WT102A**

***Chemical Class: inorganic***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Cobalt | MEAFG6 | 13.10 | J | ug/L | 5.00 | U | ug/L |
| Copper | MEAFG6 | 17.90 | J | ug/L | 3.30 | | ug/L |
| Cyanide | MEAFG6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Iron | MEAFG6 | 39.00 | J | ug/L | 45.30 | | ug/L |
| Lead | MEAFG6 | 1.70 | U | ug/L | 3.00 | U | ug/L |
| Magnesium | MEAFG6 | 15,900.00 | | ug/L | 16,200.00 | | ug/L |
| Manganese | MEAFG6 | 30.20 | | ug/L | 21.00 | | ug/L |
| Mercury | MEAFG6 | 0.20 | U | ug/L | 0.20 | U | ug/L |
| Nickel | MEAFG6 | 40.60 | J | ug/L | 6.90 | | ug/L |
| Potassium | MEAFG6 | 2,070.00 | J | ug/L | 1,920.00 | | ug/L |
| Selenium | MEAFG6 | 3.60 | U | ug/L | 5.00 | U | ug/L |
| Silver | MEAFG6 | 19.50 | J | ug/L | 0.50 | U | ug/L |
| Sodium | MEAFG6 | 52,300.00 | J | ug/L | 50,000.00 | | ug/L |
| Thallium | MEAFG6 | 4.70 | U | ug/L | 20.00 | | ug/L |
| Vanadium | MEAFG6 | 26.50 | J | ug/L | 5.00 | U | ug/L |
| Zinc | MEAFG6 | 4.10 | J | ug/L | 4.38 | | ug/L |

***Chemical Class: pesticides***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 4,4-DDD | EARP8 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| 4,4-DDE | EARP8 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| 4,4-DDT | EARP8 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Aldrin | EARP8 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Aroclor-1016 | EARP8 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1221 | EARP8 | 2.00 | U | ug/L | 2.00 | U | ug/L |

**Well: WT102A**

***Chemical Class: pesticides***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Aroclor-1232 | EARP8 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1242 | EARP8 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1248 | EARP8 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1254 | EARP8 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1260 | EARP8 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Dieldrin | EARP8 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endosulfan I | EARP8 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Endosulfan II | EARP8 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endosulfan sulfate | EARP8 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin | EARP8 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin aldehyde | EARP8 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin ketone | EARP8 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Heptachlor | EARP8 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Heptachlor epoxide | EARP8 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Methoxychlor | EARP8 | 0.50 | U | ug/L | 0.50 | U | ug/L |
| Toxaphene | EARP8 | 5.00 | U | ug/L | 5.00 | U | ug/L |
| alpha BHC | EARP8 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| alpha Chlordane | EARP8 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| beta BHC | EARP8 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| delta BHC | EARP8 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| gamma BHC (Lindane) | EARP8 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| gamma Chlordane | EARP8 | 0.05 | U | ug/L | 0.05 | U | ug/L |

**Well: WT102A**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichlorobenzene | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,3-Dichlorobenzene | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,4-Dichlorobenzene | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,2'-oxybis(1-Chloropropane) | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4,5-Trichlorophenol | EARP8 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2,4,6-Trichlorophenol | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dichlorophenol | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dimethylphenol | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dinitrophenol | EARP8 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2,4-Dinitrotoluene | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,6-Dinitrotoluene | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Chloronaphthalene | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Chlorophenol | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Methylnaphthalene | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Methylphenol | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Nitroaniline | EARP8 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2-Nitrophenol | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 3,3'-Dichlorobenzidine | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 3-Nitroaniline | EARP8 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4,6-Dinitro-2-methylphenol | EARP8 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4-Bromophenyl-phenylether | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chloro-3-methylphenol | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chloroaniline | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chlorophenyl-phenylether | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Methylphenol | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT102A**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 4-Nitroaniline | EARP8 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4-Nitrophenol | EARP8 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| Acenaphthene | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Acenaphthylene | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Anthracene | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[a]anthracene | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[a]pyrene | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[b]fluoranthene | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[g,h,i]perylene | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[k]fluoranthene | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2 ethylhexyl)phthalate | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2-Chloroethoxy)methane | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2-chloroethyl)ether | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Butylbenzylphthalate | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbazole | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chrysene | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Di-n-Butylphthalate | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Di-n-octylphthalate | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibenz[a,h]anthracene | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibenzofuran | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Diethylphthalate | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dimethylphthalate | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Fluoranthene | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Fluorene | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorobenzene | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorobutadiene | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT102A**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Hexachlorocyclopentadiene | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachloroethane | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Indeno[1,2,3 cd]pyrene | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Isophorone | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| N-Nitroso-di-n-propylamine | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| N-Nitrosodiphenylamine | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Naphthalene | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Nitrobenzene | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Pentachlorophenol | EARP8 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| Phenanthrene | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Phenol | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Pyrene | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1,2,2-Tetrachloroethane | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1,2-Trichloroethane | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1-Dichloroethane | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1-Dichloroethene | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloroethane | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloroethene (total) | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloropropane | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Butanone | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Hexanone | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT102A**

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Acetone | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzene | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromodichloromethane | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromoform | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromomethane | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbon Disulfide | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbon Tetrachloride | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chlorobenzene | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloroethane | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloroform | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloromethane | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibromochloromethane | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Ethylbenzene | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Methylene Chloride | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Styrene | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Tetrachloroethene | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Toluene | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Trichloroethene | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Vinyl Chloride | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Xylene (total) | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| cis-1,3-Dichloropropene | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| trans-1,3-Dichloropropene | EARP8 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT102B**

***Chemical Class: inorganic***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Aluminum | MEAFG5 | 161.00 | J | ug/L | 117.00 | | ug/L |
| Antimony | MEAFG5 | 29.70 | J | ug/L | 2.78 | | ug/L |
| Arsenic, total | MEAFG5 | 4.80 | J | ug/L | 2.00 | U | ug/L |
| Barium | MEAFG5 | 91.00 | J | ug/L | 90.80 | | ug/L |
| Beryllium, total | MEAFG5 | 0.40 | U | ug/L | 5.00 | U | ug/L |
| Cadmium | MEAFG5 | 1.10 | U | ug/L | 5.00 | U | ug/L |
| Calcium | MEAFG5 | 61,200.00 | | ug/L | 67,100.00 | | ug/L |
| Chromium | MEAFG5 | 4.00 | U | ug/L | 10.00 | U | ug/L |
| Cobalt | MEAFG5 | 12.40 | J | ug/L | 5.00 | U | ug/L |
| Copper | MEAFG5 | 1.70 | U | ug/L | 25.00 | U | ug/L |
| Cyanide | MEAFG5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Iron | MEAFG5 | 490.00 | | ug/L | 493.00 | | ug/L |
| Lead | MEAFG5 | 1.70 | U | ug/L | 3.00 | U | ug/L |
| Magnesium | MEAFG5 | 20,400.00 | | ug/L | 21,900.00 | | ug/L |
| Manganese | MEAFG5 | 87.30 | | ug/L | 79.00 | | ug/L |
| Mercury | MEAFG5 | 0.20 | U | ug/L | 0.20 | U | ug/L |
| Nickel | MEAFG5 | 9.50 | U | ug/L | 40.00 | U | ug/L |
| Potassium | MEAFG5 | 1,870.00 | J | ug/L | 1,580.00 | | ug/L |
| Selenium | MEAFG5 | 3.60 | U | ug/L | 5.00 | U | ug/L |
| Silver | MEAFG5 | 2.50 | U | ug/L | 10.00 | U | ug/L |
| Sodium | MEAFG5 | 27,800.00 | J | ug/L | 27,700.00 | | ug/L |
| Thallium | MEAFG5 | 5.70 | J | ug/L | 14.00 | | ug/L |
| Vanadium | MEAFG5 | 13.20 | J | ug/L | 5.00 | U | ug/L |
| Zinc | MEAFG5 | 3.50 | J | ug/L | 4.77 | | ug/L |

**Well: WT102B**

***Chemical Class: pesticides***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 4,4-DDD | EARP6 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| 4,4-DDE | EARP6 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| 4,4-DDT | EARP6 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Aldrin | EARP6 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Aroclor-1016 | EARP6 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1221 | EARP6 | 2.00 | U | ug/L | 2.00 | U | ug/L |
| Aroclor-1232 | EARP6 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1242 | EARP6 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1248 | EARP6 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1254 | EARP6 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1260 | EARP6 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Dieldrin | EARP6 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endosulfan I | EARP6 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Endosulfan II | EARP6 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endosulfan sulfate | EARP6 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin | EARP6 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin aldehyde | EARP6 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin ketone | EARP6 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Heptachlor | EARP6 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Heptachlor epoxide | EARP6 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Methoxychlor | EARP6 | 0.50 | U | ug/L | 0.50 | U | ug/L |
| Toxaphene | EARP6 | 5.00 | U | ug/L | 5.00 | U | ug/L |
| alpha BHC | EARP6 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| alpha Chlordane | EARP6 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| beta BHC | EARP6 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| delta BHC | EARP6 | 0.05 | U | ug/L | 0.05 | U | ug/L |

**Well: WT102B**

***Chemical Class: pesticides***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| gamma BHC (Lindane) | EARP6 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| gamma Chlordane | EARP6 | 0.05 | U | ug/L | 0.05 | U | ug/L |

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichlorobenzene | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,3-Dichlorobenzene | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,4-Dichlorobenzene | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,2'-oxybis(1-Chloropropane) | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4,5-Trichlorophenol | EARP6 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2,4,6-Trichlorophenol | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dichlorophenol | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dimethylphenol | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dinitrophenol | EARP6 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2,4-Dinitrotoluene | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,6-Dinitrotoluene | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Chloronaphthalene | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Chlorophenol | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Methylnaphthalene | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Methylphenol | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Nitroaniline | EARP6 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2-Nitrophenol | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 3,3'-Dichlorobenzidine | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 3-Nitroaniline | EARP6 | 25.00 | U | ug/L | 25.00 | U | ug/L |

**Well: WT102B**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 4,6-Dinitro-2-methylphenol | EARP6 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4-Bromophenyl-phenylether | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chloro-3-methylphenol | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chloroaniline | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chlorophenyl-phenylether | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Methylphenol | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Nitroaniline | EARP6 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4-Nitrophenol | EARP6 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| Acenaphthene | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Acenaphthylene | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Anthracene | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[a]anthracene | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[a]pyrene | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[b]fluoranthene | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[g,h,i]perylene | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[k]fluoranthene | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2 ethylhexyl)phthalate | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2-Chloroethoxy)methane | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2-chloroethyl)ether | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Butylbenzylphthalate | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbazole | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chrysene | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Di-n-Butylphthalate | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Di-n-octylphthalate | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibenz[a,h]anthracene | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibenzofuran | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT102B**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Diethylphthalate | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dimethylphthalate | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Fluoranthene | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Fluorene | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorobenzene | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorobutadiene | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorocyclopentadiene | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachloroethane | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Indeno[1,2,3 cd]pyrene | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Isophorone | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| N-Nitroso-di-n-propylamine | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| N-Nitrosodiphenylamine | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Naphthalene | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Nitrobenzene | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Pentachlorophenol | EARP6 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| Phenanthrene | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Phenol | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Pyrene | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1,2,2-Tetrachloroethane | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1,2-Trichloroethane | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1-Dichloroethane | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT102B**

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloroethane | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloroethene (total) | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloropropane | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Butanone | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Hexanone | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Methyl-2-Pentanone | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Acetone | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzene | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromodichloromethane | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromoform | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromomethane | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbon Disulfide | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbon Tetrachloride | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chlorobenzene | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloroethane | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloroform | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloromethane | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibromochloromethane | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Ethylbenzene | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Methylene Chloride | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Styrene | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Tetrachloroethene | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Toluene | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Trichloroethene | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Vinyl Chloride | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT102B**

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Xylene (total) | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| cis-1,3-Dichloropropene | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| trans-1,3-Dichloropropene | EARP6 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT111A**

***Chemical Class: inorganic***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Aluminum | MEAFH3 | 450.00 | J | ug/L | 336.00 | | ug/L |
| Antimony | MEAFH3 | 12.80 | U | ug/L | 60.00 | U | ug/L |
| Arsenic, total | MEAFH3 | 3.80 | U | ug/L | 10.00 | U | ug/L |
| Barium | MEAFH3 | 103.00 | J | ug/L | 94.70 | | ug/L |
| Beryllium, total | MEAFH3 | 0.40 | U | ug/L | 5.00 | U | ug/L |
| Cadmium | MEAFH3 | 1.10 | U | ug/L | 5.00 | U | ug/L |
| Calcium | MEAFH3 | 6,170.00 | | ug/L | 6,740.00 | | ug/L |
| Chromium | MEAFH3 | 4.00 | U | ug/L | 10.00 | U | ug/L |
| Cobalt | MEAFH3 | 11.90 | J | ug/L | 8.09 | | ug/L |
| Copper | MEAFH3 | 1.70 | U | ug/L | 25.00 | U | ug/L |
| Cyanide | MEAFH3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Iron | MEAFH3 | 1,760.00 | | ug/L | 1,590.00 | | ug/L |
| Lead | MEAFH3 | 1.70 | U | ug/L | 3.00 | | ug/L |
| Magnesium | MEAFH3 | 2,520.00 | J | ug/L | 2,540.00 | | ug/L |
| Manganese | MEAFH3 | 201.00 | | ug/L | 175.00 | | ug/L |
| Mercury | MEAFH3 | 0.20 | U | ug/L | 0.20 | U | ug/L |
| Nickel | MEAFH3 | 16.00 | J | ug/L | 9.31 | | ug/L |
| Potassium | MEAFH3 | 1,690.00 | J | ug/L | 1,830.00 | | ug/L |

**Well: WT111A**

***Chemical Class: inorganic***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Selenium | MEAFH3 | 3.60 | U | ug/L | 5.00 | U | ug/L |
| Silver | MEAFH3 | 2.50 | U | ug/L | 10.00 | U | ug/L |
| Sodium | MEAFH3 | 2,560.00 | J | ug/L | 2,750.00 | | ug/L |
| Thallium | MEAFH3 | 4.70 | U | ug/L | 10.00 | U | ug/L |
| Vanadium | MEAFH3 | 11.90 | J | ug/L | 5.00 | U | ug/L |
| Zinc | MEAFH3 | 17.50 | J | ug/L | 16.10 | | ug/L |

***Chemical Class: pesticides***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 4,4-DDD | EARQ7 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| 4,4-DDE | EARQ7 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| 4,4-DDT | EARQ7 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Aldrin | EARQ7 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Aroclor-1016 | EARQ7 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1221 | EARQ7 | 2.00 | U | ug/L | 2.00 | U | ug/L |
| Aroclor-1232 | EARQ7 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1242 | EARQ7 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1248 | EARQ7 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1254 | EARQ7 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1260 | EARQ7 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Dieldrin | EARQ7 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endosulfan I | EARQ7 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Endosulfan II | EARQ7 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endosulfan sulfate | EARQ7 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin | EARQ7 | 0.10 | U | ug/L | 0.10 | U | ug/L |

**Well: WT111A**

***Chemical Class: pesticides***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Endrin aldehyde | EARQ7 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin ketone | EARQ7 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Heptachlor | EARQ7 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Heptachlor epoxide | EARQ7 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Methoxychlor | EARQ7 | 0.50 | U | ug/L | 0.50 | U | ug/L |
| Toxaphene | EARQ7 | 5.00 | U | ug/L | 5.00 | U | ug/L |
| alpha BHC | EARQ7 | 0.01 | JP | ug/L | 0.01 | | ug/L |
| alpha Chlordane | EARQ7 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| beta BHC | EARQ7 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| delta BHC | EARQ7 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| gamma BHC (Lindane) | EARQ7 | 0.05 | U | ug/L | 0.05 | | ug/L |
| gamma Chlordane | EARQ7 | 0.05 | U | ug/L | 0.05 | U | ug/L |

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichlorobenzene | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,3-Dichlorobenzene | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,4-Dichlorobenzene | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,2'-oxybis(1-Chloropropane) | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4,5-Trichlorophenol | EARQ7 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2,4,6-Trichlorophenol | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dichlorophenol | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dimethylphenol | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dinitrophenol | EARQ7 | 25.00 | U | ug/L | 25.00 | U | ug/L |

**Well: WT111A**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 2,4-Dinitrotoluene | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,6-Dinitrotoluene | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Chloronaphthalene | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Chlorophenol | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Methylnaphthalene | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Methylphenol | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Nitroaniline | EARQ7 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2-Nitrophenol | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 3,3'-Dichlorobenzidine | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 3-Nitroaniline | EARQ7 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4,6-Dinitro-2-methylphenol | EARQ7 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4-Bromophenyl-phenylether | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chloro-3-methylphenol | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chloroaniline | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chlorophenyl-phenylether | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Methylphenol | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Nitroaniline | EARQ7 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4-Nitrophenol | EARQ7 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| Acenaphthene | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Acenaphthylene | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Anthracene | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[a]anthracene | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[a]pyrene | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[b]fluoranthene | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[g,h,i]perylene | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[k]fluoranthene | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT111A**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Bis(2 ethylhexyl)phthalate | EARQ7 | 0.30 | J | ug/L | 0.30 | | ug/L |
| Bis(2-Chloroethoxy)methane | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2-chloroethyl)ether | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Butylbenzylphthalate | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbazole | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chrysene | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Di-n-Butylphthalate | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Di-n-octylphthalate | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibenz[a,h]anthracene | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibenzofuran | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Diethylphthalate | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dimethylphthalate | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Fluoranthene | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Fluorene | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorobenzene | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorobutadiene | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorocyclopentadiene | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachloroethane | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Indeno[1,2,3 cd]pyrene | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Isophorone | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| N-Nitroso-di-n-propylamine | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| N-Nitrosodiphenylamine | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Naphthalene | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Nitrobenzene | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Pentachlorophenol | EARQ7 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| Phenanthrene | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT111A**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Phenol | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Pyrene | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1,2,2-Tetrachloroethane | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1,2-Trichloroethane | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1-Dichloroethane | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1-Dichloroethene | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloroethane | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloroethene (total) | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloropropane | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Butanone | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Hexanone | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Methyl-2-Pentanone | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Acetone | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzene | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromodichloromethane | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromoform | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromomethane | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbon Disulfide | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbon Tetrachloride | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chlorobenzene | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloroethane | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT111A**

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Chloroform | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloromethane | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibromochloromethane | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Ethylbenzene | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Methylene Chloride | EARQ7 | 10.00 | U | ug/L | 0.50 | U | ug/L |
| Styrene | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Tetrachloroethene | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Toluene | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Trichloroethene | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Vinyl Chloride | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Xylene (total) | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| cis-1,3-Dichloropropene | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| trans-1,3-Dichloropropene | EARQ7 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT112A**

***Chemical Class: inorganic***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Aluminum | MEAFG3 | 169.00 | J | ug/L | 84.20 | | ug/L |
| Antimony | MEAFG3 | 12.80 | U | ug/L | 60.00 | U | ug/L |
| Arsenic, total | MEAFG3 | 3.80 | U | ug/L | 10.00 | U | ug/L |
| Barium | MEAFG3 | 35.10 | J | ug/L | 30.50 | | ug/L |
| Beryllium, total | MEAFG3 | 0.40 | U | ug/L | 5.00 | U | ug/L |
| Cadmium | MEAFG3 | 1.10 | U | ug/L | 5.00 | U | ug/L |
| Calcium | MEAFG3 | 179,000.00 | | ug/L | 190,000.00 | | ug/L |
| Chromium | MEAFG3 | 4.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT112A**

***Chemical Class: inorganic***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Cobalt | MEAFG3 | 5.90 | U | ug/L | 50.00 | U | ug/L |
| Copper | MEAFG3 | 1.70 | U | ug/L | 25.00 | U | ug/L |
| Cyanide | MEAFG3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Iron | MEAFG3 | 15.00 | J | ug/L | 42.30 | | ug/L |
| Lead | MEAFG3 | 1.70 | U | ug/L | 9.00 | | ug/L |
| Magnesium | MEAFG3 | 15,200.00 | | ug/L | 14,200.00 | | ug/L |
| Manganese | MEAFG3 | 4.00 | J | ug/L | 3.00 | U | ug/L |
| Mercury | MEAFG3 | 0.20 | U | ug/L | 0.20 | U | ug/L |
| Nickel | MEAFG3 | 10.00 | J | ug/L | 2.00 | U | ug/L |
| Potassium | MEAFG3 | 2,000.00 | J | ug/L | 1,830.00 | | ug/L |
| Selenium | MEAFG3 | 3.60 | U | ug/L | 18.00 | | ug/L |
| Silver | MEAFG3 | 2.50 | U | ug/L | 10.00 | U | ug/L |
| Sodium | MEAFG3 | 12,300.00 | J | ug/L | 10,800.00 | | ug/L |
| Thallium | MEAFG3 | 4.70 | U | ug/L | 14.00 | | ug/L |
| Vanadium | MEAFG3 | 9.60 | J | ug/L | 5.00 | U | ug/L |
| Zinc | MEAFG3 | 7.70 | J | ug/L | 6.70 | | ug/L |

***Chemical Class: pesticides***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 4,4-DDD | EARP4 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| 4,4-DDE | EARP4 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| 4,4-DDT | EARP4 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Aldrin | EARP4 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Aroclor-1016 | EARP4 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1221 | EARP4 | 2.00 | U | ug/L | 2.00 | U | ug/L |

**Well: WT112A**

***Chemical Class: pesticides***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Aroclor-1232 | EARP4 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1242 | EARP4 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1248 | EARP4 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1254 | EARP4 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1260 | EARP4 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Dieldrin | EARP4 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endosulfan I | EARP4 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Endosulfan II | EARP4 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endosulfan sulfate | EARP4 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin | EARP4 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin aldehyde | EARP4 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin ketone | EARP4 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Heptachlor | EARP4 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Heptachlor epoxide | EARP4 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Methoxychlor | EARP4 | 0.50 | U | ug/L | 0.50 | U | ug/L |
| Toxaphene | EARP4 | 5.00 | U | ug/L | 5.00 | U | ug/L |
| alpha BHC | EARP4 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| alpha Chlordane | EARP4 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| beta BHC | EARP4 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| delta BHC | EARP4 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| gamma BHC (Lindane) | EARP4 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| gamma Chlordane | EARP4 | 0.05 | U | ug/L | 0.05 | U | ug/L |

**Well: WT112A**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | EARP4 | 10.00 | UJ | ug/L | 10.00 | U | ug/L |
| 1,2-Dichlorobenzene | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,3-Dichlorobenzene | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,4-Dichlorobenzene | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,2'-oxybis(1-Chloropropane) | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4,5-Trichlorophenol | EARP4 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2,4,6-Trichlorophenol | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dichlorophenol | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dimethylphenol | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dinitrophenol | EARP4 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2,4-Dinitrotoluene | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,6-Dinitrotoluene | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Chloronaphthalene | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Chlorophenol | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Methylnaphthalene | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Methylphenol | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Nitroaniline | EARP4 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2-Nitrophenol | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 3,3'-Dichlorobenzidine | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 3-Nitroaniline | EARP4 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4,6-Dinitro-2-methylphenol | EARP4 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4-Bromophenyl-phenylether | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chloro-3-methylphenol | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chloroaniline | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chlorophenyl-phenylether | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Methylphenol | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT112A**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 4-Nitroaniline | EARP4 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4-Nitrophenol | EARP4 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| Acenaphthene | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Acenaphthylene | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Anthracene | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[a]anthracene | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[a]pyrene | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[b]fluoranthene | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[g,h,i]perylene | EARP4 | 10.00 | UJ | ug/L | 10.00 | U | ug/L |
| Benzo[k]fluoranthene | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2 ethylhexyl)phthalate | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2-Chloroethoxy)methane | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2-chloroethyl)ether | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Butylbenzylphthalate | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbazole | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chrysene | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Di-n-Butylphthalate | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Di-n-octylphthalate | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibenz[a,h]anthracene | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibenzofuran | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Diethylphthalate | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dimethylphthalate | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Fluoranthene | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Fluorene | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorobenzene | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorobutadiene | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT112A**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Hexachlorocyclopentadiene | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachloroethane | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Indeno[1,2,3 cd]pyrene | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Isophorone | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| N-Nitroso-di-n-propylamine | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| N-Nitrosodiphenylamine | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Naphthalene | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Nitrobenzene | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Pentachlorophenol | EARP4 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| Phenanthrene | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Phenol | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Pyrene | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1,2,2-Tetrachloroethane | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1,2-Trichloroethane | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1-Dichloroethane | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1-Dichloroethene | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloroethane | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloroethene (total) | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloropropane | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Butanone | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Hexanone | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT112A**

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Acetone | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzene | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromodichloromethane | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromoform | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromomethane | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbon Disulfide | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbon Tetrachloride | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chlorobenzene | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloroethane | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloroform | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloromethane | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibromochloromethane | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Ethylbenzene | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Methylene Chloride | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Styrene | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Tetrachloroethene | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Toluene | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Trichloroethene | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Vinyl Chloride | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Xylene (total) | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| cis-1,3-Dichloropropene | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| trans-1,3-Dichloropropene | EARP4 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT112B**

***Chemical Class: inorganic***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Aluminum | MEAFG4 | 65.20 | J | ug/L | 36.30 | | ug/L |
| Antimony | MEAFG4 | 12.80 | U | ug/L | 60.00 | U | ug/L |
| Arsenic, total | MEAFG4 | 3.80 | U | ug/L | 10.00 | U | ug/L |
| Barium | MEAFG4 | 92.50 | J | ug/L | 94.10 | | ug/L |
| Beryllium, total | MEAFG4 | 0.40 | U | ug/L | 5.00 | U | ug/L |
| Cadmium | MEAFG4 | 1.10 | U | ug/L | 5.00 | U | ug/L |
| Calcium | MEAFG4 | 65,800.00 | | ug/L | 71,400.00 | | ug/L |
| Chromium | MEAFG4 | 4.00 | U | ug/L | 10.00 | U | ug/L |
| Cobalt | MEAFG4 | 5.90 | U | ug/L | 50.00 | U | ug/L |
| Copper | MEAFG4 | 1.70 | U | ug/L | 25.00 | U | ug/L |
| Cyanide | MEAFG4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Iron | MEAFG4 | 774.00 | | ug/L | 2,750.00 | | ug/L |
| Lead | MEAFG4 | 1.70 | U | ug/L | 4.00 | | ug/L |
| Magnesium | MEAFG4 | 21,100.00 | | ug/L | 21,800.00 | | ug/L |
| Manganese | MEAFG4 | 119.00 | | ug/L | 115.00 | | ug/L |
| Mercury | MEAFG4 | 0.20 | U | ug/L | 0.20 | U | ug/L |
| Nickel | MEAFG4 | 9.50 | U | ug/L | 40.00 | U | ug/L |
| Potassium | MEAFG4 | 1,330.00 | J | ug/L | 1,330.00 | | ug/L |
| Selenium | MEAFG4 | 3.60 | U | ug/L | 6.00 | | ug/L |
| Silver | MEAFG4 | 2.50 | U | ug/L | 10.00 | U | ug/L |
| Sodium | MEAFG4 | 21,200.00 | J | ug/L | 20,200.00 | | ug/L |
| Thallium | MEAFG4 | 4.70 | U | ug/L | 21.00 | | ug/L |
| Vanadium | MEAFG4 | 4.50 | U | ug/L | 50.00 | U | ug/L |
| Zinc | MEAFG4 | 2.10 | J | ug/L | 38.00 | | ug/L |

**Well: WT112B**

***Chemical Class: pesticides***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 4,4-DDD | EARP5 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| 4,4-DDE | EARP5 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| 4,4-DDT | EARP5 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Aldrin | EARP5 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Aroclor-1016 | EARP5 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1221 | EARP5 | 2.00 | U | ug/L | 2.00 | U | ug/L |
| Aroclor-1232 | EARP5 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1242 | EARP5 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1248 | EARP5 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1254 | EARP5 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1260 | EARP5 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Dieldrin | EARP5 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endosulfan I | EARP5 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Endosulfan II | EARP5 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endosulfan sulfate | EARP5 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin | EARP5 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin aldehyde | EARP5 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin ketone | EARP5 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Heptachlor | EARP5 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Heptachlor epoxide | EARP5 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Methoxychlor | EARP5 | 0.50 | U | ug/L | 0.50 | U | ug/L |
| Toxaphene | EARP5 | 5.00 | U | ug/L | 5.00 | U | ug/L |
| alpha BHC | EARP5 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| alpha Chlordane | EARP5 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| beta BHC | EARP5 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| delta BHC | EARP5 | 0.05 | U | ug/L | 0.05 | U | ug/L |

**Well: WT112B**

***Chemical Class: pesticides***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| gamma BHC (Lindane) | EARP5 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| gamma Chlordane | EARP5 | 0.05 | U | ug/L | 0.05 | U | ug/L |

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichlorobenzene | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,3-Dichlorobenzene | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,4-Dichlorobenzene | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,2'-oxybis(1-Chloropropane) | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4,5-Trichlorophenol | EARP5 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2,4,6-Trichlorophenol | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dichlorophenol | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dimethylphenol | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dinitrophenol | EARP5 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2,4-Dinitrotoluene | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,6-Dinitrotoluene | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Chloronaphthalene | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Chlorophenol | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Methylnaphthalene | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Methylphenol | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Nitroaniline | EARP5 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2-Nitrophenol | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 3,3'-Dichlorobenzidine | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 3-Nitroaniline | EARP5 | 25.00 | U | ug/L | 25.00 | U | ug/L |

**Well: WT112B**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 4,6-Dinitro-2-methylphenol | EARP5 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4-Bromophenyl-phenylether | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chloro-3-methylphenol | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chloroaniline | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chlorophenyl-phenylether | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Methylphenol | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Nitroaniline | EARP5 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4-Nitrophenol | EARP5 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| Acenaphthene | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Acenaphthylene | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Anthracene | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[a]anthracene | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[a]pyrene | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[b]fluoranthene | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[g,h,i]perylene | EARP5 | 10.00 | UJ | ug/L | 10.00 | U | ug/L |
| Benzo[k]fluoranthene | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2 ethylhexyl)phthalate | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2-Chloroethoxy)methane | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2-chloroethyl)ether | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Butylbenzylphthalate | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbazole | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chrysene | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Di-n-Butylphthalate | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Di-n-octylphthalate | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibenz[a,h]anthracene | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibenzofuran | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT112B**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Diethylphthalate | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dimethylphthalate | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Fluoranthene | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Fluorene | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorobenzene | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorobutadiene | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorocyclopentadiene | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachloroethane | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Indeno[1,2,3 cd]pyrene | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Isophorone | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| N-Nitroso-di-n-propylamine | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| N-Nitrosodiphenylamine | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Naphthalene | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Nitrobenzene | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Pentachlorophenol | EARP5 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| Phenanthrene | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Phenol | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Pyrene | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1,2,2-Tetrachloroethane | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1,2-Trichloroethane | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1-Dichloroethane | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT112B**

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloroethane | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloroethene (total) | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloropropane | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Butanone | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Hexanone | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Methyl-2-Pentanone | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Acetone | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzene | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromodichloromethane | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromoform | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromomethane | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbon Disulfide | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbon Tetrachloride | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chlorobenzene | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloroethane | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloroform | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloromethane | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibromochloromethane | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Ethylbenzene | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Methylene Chloride | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Styrene | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Tetrachloroethene | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Toluene | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Trichloroethene | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Vinyl Chloride | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT112B**

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Xylene (total) | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| cis-1,3-Dichloropropene | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| trans-1,3-Dichloropropene | EARP5 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT113A**

***Chemical Class: inorganic***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Aluminum | MEAFG1 | 161.00 | J | ug/L | 41.20 | | ug/L |
| Antimony | MEAFG1 | 12.80 | U | ug/L | 60.00 | U | ug/L |
| Arsenic, total | MEAFG1 | 3.80 | U | ug/L | 10.00 | U | ug/L |
| Barium | MEAFG1 | 14.30 | J | ug/L | 11.60 | | ug/L |
| Beryllium, total | MEAFG1 | 0.40 | U | ug/L | 5.00 | U | ug/L |
| Cadmium | MEAFG1 | 1.10 | U | ug/L | 5.00 | U | ug/L |
| Calcium | MEAFG1 | 45,700.00 | | ug/L | 45,300.00 | | ug/L |
| Chromium | MEAFG1 | 4.00 | U | ug/L | 10.00 | U | ug/L |
| Cobalt | MEAFG1 | 6.90 | J | ug/L | 5.00 | U | ug/L |
| Copper | MEAFG1 | 1.70 | U | ug/L | 25.00 | U | ug/L |
| Cyanide | MEAFG1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Iron | MEAFG1 | 4.70 | J | ug/L | 35.50 | | ug/L |
| Lead | MEAFG1 | 1.70 | U | ug/L | 3.00 | U | ug/L |
| Magnesium | MEAFG1 | 11,400.00 | | ug/L | 11,200.00 | | ug/L |
| Manganese | MEAFG1 | 2.30 | J | ug/L | 3.00 | U | ug/L |
| Mercury | MEAFG1 | 0.20 | U | ug/L | 0.20 | U | ug/L |
| Nickel | MEAFG1 | 9.50 | U | ug/L | 40.00 | U | ug/L |
| Potassium | MEAFG1 | 1,200.00 | J | ug/L | 1,250.00 | | ug/L |

**Well: WT113A**

***Chemical Class: inorganic***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Selenium | MEAFG1 | 3.60 | U | ug/L | 8.00 | | ug/L |
| Silver | MEAFG1 | 2.50 | U | ug/L | 10.00 | U | ug/L |
| Sodium | MEAFG1 | 6,340.00 | J | ug/L | 6,100.00 | | ug/L |
| Thallium | MEAFG1 | 4.70 | U | ug/L | 30.00 | | ug/L |
| Vanadium | MEAFG1 | 11.10 | J | ug/L | 5.00 | U | ug/L |
| Zinc | MEAFG1 | 5.00 | J | ug/L | 4.52 | | ug/L |

***Chemical Class: pesticides***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 4,4-DDD | EARP1 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| 4,4-DDE | EARP1 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| 4,4-DDT | EARP1 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Aldrin | EARP1 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Aroclor-1016 | EARP1 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1221 | EARP1 | 2.00 | U | ug/L | 2.00 | U | ug/L |
| Aroclor-1232 | EARP1 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1242 | EARP1 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1248 | EARP1 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1254 | EARP1 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1260 | EARP1 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Dieldrin | EARP1 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endosulfan I | EARP1 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Endosulfan II | EARP1 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endosulfan sulfate | EARP1 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin | EARP1 | 0.10 | U | ug/L | 0.10 | U | ug/L |

**Well: WT113A**

***Chemical Class: pesticides***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Endrin aldehyde | EARP1 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin ketone | EARP1 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Heptachlor | EARP1 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Heptachlor epoxide | EARP1 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Methoxychlor | EARP1 | 0.50 | U | ug/L | 0.50 | U | ug/L |
| Toxaphene | EARP1 | 5.00 | U | ug/L | 5.00 | U | ug/L |
| alpha BHC | EARP1 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| alpha Chlordane | EARP1 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| beta BHC | EARP1 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| delta BHC | EARP1 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| gamma BHC (Lindane) | EARP1 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| gamma Chlordane | EARP1 | 0.05 | U | ug/L | 0.05 | U | ug/L |

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichlorobenzene | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,3-Dichlorobenzene | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,4-Dichlorobenzene | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,2'-oxybis(1-Chloropropane) | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4,5-Trichlorophenol | EARP1 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2,4,6-Trichlorophenol | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dichlorophenol | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dimethylphenol | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dinitrophenol | EARP1 | 25.00 | U | ug/L | 25.00 | U | ug/L |

**Well: WT113A**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 2,4-Dinitrotoluene | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,6-Dinitrotoluene | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Chloronaphthalene | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Chlorophenol | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Methylnaphthalene | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Methylphenol | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Nitroaniline | EARP1 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2-Nitrophenol | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 3,3'-Dichlorobenzidine | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 3-Nitroaniline | EARP1 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4,6-Dinitro-2-methylphenol | EARP1 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4-Bromophenyl-phenylether | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chloro-3-methylphenol | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chloroaniline | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chlorophenyl-phenylether | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Methylphenol | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Nitroaniline | EARP1 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4-Nitrophenol | EARP1 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| Acenaphthene | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Acenaphthylene | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Anthracene | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[a]anthracene | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[a]pyrene | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[b]fluoranthene | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[g,h,i]perylene | EARP1 | 10.00 | UJ | ug/L | 10.00 | U | ug/L |
| Benzo[k]fluoranthene | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT113A**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Bis(2 ethylhexyl)phthalate | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2-Chloroethoxy)methane | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2-chloroethyl)ether | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Butylbenzylphthalate | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbazole | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chrysene | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Di-n-Butylphthalate | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Di-n-octylphthalate | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibenz[a,h]anthracene | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibenzofuran | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Diethylphthalate | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dimethylphthalate | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Fluoranthene | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Fluorene | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorobenzene | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorobutadiene | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorocyclopentadiene | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachloroethane | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Indeno[1,2,3 cd]pyrene | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Isophorone | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| N-Nitroso-di-n-propylamine | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| N-Nitrosodiphenylamine | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Naphthalene | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Nitrobenzene | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Pentachlorophenol | EARP1 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| Phenanthrene | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT113A**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Phenol | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Pyrene | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1,2,2-Tetrachloroethane | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1,2-Trichloroethane | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1-Dichloroethane | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1-Dichloroethene | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloroethane | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloroethene (total) | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloropropane | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Butanone | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Hexanone | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Methyl-2-Pentanone | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Acetone | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzene | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromodichloromethane | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromoform | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromomethane | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbon Disulfide | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbon Tetrachloride | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chlorobenzene | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloroethane | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT113A**

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Chloroform | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloromethane | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibromochloromethane | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Ethylbenzene | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Methylene Chloride | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Styrene | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Tetrachloroethene | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Toluene | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Trichloroethene | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Vinyl Chloride | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Xylene (total) | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| cis-1,3-Dichloropropene | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| trans-1,3-Dichloropropene | EARP1 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT113B**

***Chemical Class: inorganic***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Aluminum | MEAFG2 | 80.50 | J | ug/L | 94.10 | | ug/L |
| Antimony | MEAFG2 | 12.80 | U | ug/L | 60.00 | U | ug/L |
| Arsenic, total | MEAFG2 | 3.80 | U | ug/L | 10.00 | U | ug/L |
| Barium | MEAFG2 | 78.10 | J | ug/L | 77.60 | | ug/L |
| Beryllium, total | MEAFG2 | 0.50 | J | ug/L | 0.50 | U | ug/L |
| Cadmium | MEAFG2 | 1.10 | U | ug/L | 5.00 | U | ug/L |
| Calcium | MEAFG2 | 93,300.00 | | ug/L | 97,000.00 | | ug/L |
| Chromium | MEAFG2 | 5.60 | J | ug/L | 1.83 | | ug/L |

**Well: WT113B**

***Chemical Class: inorganic***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Cobalt | MEAFG2 | 5.90 | U | ug/L | 50.00 | U | ug/L |
| Copper | MEAFG2 | 3.70 | J | ug/L | 2.42 | | ug/L |
| Cyanide | MEAFG2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Iron | MEAFG2 | 703.00 | | ug/L | 622.00 | | ug/L |
| Lead | MEAFG2 | 1.70 | U | ug/L | 3.00 | U | ug/L |
| Magnesium | MEAFG2 | 23,000.00 | | ug/L | 22,900.00 | | ug/L |
| Manganese | MEAFG2 | 148.00 | | ug/L | 127.00 | | ug/L |
| Mercury | MEAFG2 | 0.20 | U | ug/L | 0.20 | U | ug/L |
| Nickel | MEAFG2 | 9.50 | U | ug/L | 40.00 | U | ug/L |
| Potassium | MEAFG2 | 1,900.00 | J | ug/L | 2,000.00 | | ug/L |
| Selenium | MEAFG2 | 3.60 | U | ug/L | 7.00 | | ug/L |
| Silver | MEAFG2 | 4.90 | J | ug/L | 0.50 | U | ug/L |
| Sodium | MEAFG2 | 13,300.00 | J | ug/L | 12,500.00 | | ug/L |
| Thallium | MEAFG2 | 5.00 | J | ug/L | 29.00 | | ug/L |
| Vanadium | MEAFG2 | 4.50 | U | ug/L | 50.00 | U | ug/L |
| Zinc | MEAFG2 | 3.50 | J | ug/L | 5.35 | | ug/L |

***Chemical Class: pesticides***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 4,4-DDD | EARP2 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| 4,4-DDE | EARP2 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| 4,4-DDT | EARP2 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Aldrin | EARP2 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Aroclor-1016 | EARP2 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1221 | EARP2 | 2.00 | U | ug/L | 2.00 | U | ug/L |

**Well: WT113B**

***Chemical Class: pesticides***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Aroclor-1232 | EARP2 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1242 | EARP2 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1248 | EARP2 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1254 | EARP2 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1260 | EARP2 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Dieldrin | EARP2 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endosulfan I | EARP2 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Endosulfan II | EARP2 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endosulfan sulfate | EARP2 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin | EARP2 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin aldehyde | EARP2 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin ketone | EARP2 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Heptachlor | EARP2 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Heptachlor epoxide | EARP2 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Methoxychlor | EARP2 | 0.50 | U | ug/L | 0.50 | U | ug/L |
| Toxaphene | EARP2 | 5.00 | U | ug/L | 5.00 | U | ug/L |
| alpha BHC | EARP2 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| alpha Chlordane | EARP2 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| beta BHC | EARP2 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| delta BHC | EARP2 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| gamma BHC (Lindane) | EARP2 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| gamma Chlordane | EARP2 | 0.05 | U | ug/L | 0.05 | U | ug/L |

**Well: WT113B**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichlorobenzene | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,3-Dichlorobenzene | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,4-Dichlorobenzene | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,2'-oxybis(1-Chloropropane) | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4,5-Trichlorophenol | EARP2 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2,4,6-Trichlorophenol | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dichlorophenol | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dimethylphenol | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dinitrophenol | EARP2 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2,4-Dinitrotoluene | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,6-Dinitrotoluene | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Chloronaphthalene | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Chlorophenol | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Methylnaphthalene | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Methylphenol | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Nitroaniline | EARP2 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2-Nitrophenol | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 3,3'-Dichlorobenzidine | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 3-Nitroaniline | EARP2 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4,6-Dinitro-2-methylphenol | EARP2 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4-Bromophenyl-phenylether | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chloro-3-methylphenol | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chloroaniline | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chlorophenyl-phenylether | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Methylphenol | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT113B**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 4-Nitroaniline | EARP2 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4-Nitrophenol | EARP2 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| Acenaphthene | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Acenaphthylene | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Anthracene | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[a]anthracene | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[a]pyrene | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[b]fluoranthene | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[g,h,i]perylene | EARP2 | 10.00 | UJ | ug/L | 10.00 | U | ug/L |
| Benzo[k]fluoranthene | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2 ethylhexyl)phthalate | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2-Chloroethoxy)methane | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2-chloroethyl)ether | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Butylbenzylphthalate | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbazole | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chrysene | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Di-n-Butylphthalate | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Di-n-octylphthalate | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibenz[a,h]anthracene | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibenzofuran | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Diethylphthalate | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dimethylphthalate | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Fluoranthene | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Fluorene | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorobenzene | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorobutadiene | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT113B**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Hexachlorocyclopentadiene | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachloroethane | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Indeno[1,2,3 cd]pyrene | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Isophorone | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| N-Nitroso-di-n-propylamine | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| N-Nitrosodiphenylamine | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Naphthalene | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Nitrobenzene | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Pentachlorophenol | EARP2 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| Phenanthrene | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Phenol | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Pyrene | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1,2,2-Tetrachloroethane | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1,2-Trichloroethane | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1-Dichloroethane | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1-Dichloroethene | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloroethane | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloroethene (total) | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloropropane | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Butanone | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Hexanone | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT113B**

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Acetone | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzene | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromodichloromethane | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromoform | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromomethane | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbon Disulfide | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbon Tetrachloride | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chlorobenzene | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloroethane | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloroform | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloromethane | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibromochloromethane | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Ethylbenzene | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Methylene Chloride | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Styrene | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Tetrachloroethene | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Toluene | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Trichloroethene | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Vinyl Chloride | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Xylene (total) | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| cis-1,3-Dichloropropene | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| trans-1,3-Dichloropropene | EARP2 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT114A**

***Chemical Class: inorganic***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Aluminum | MEAFH1 | 145.00 | J | ug/L | 62.20 | | ug/L |
| Antimony | MEAFH1 | 12.80 | U | ug/L | 60.00 | U | ug/L |
| Arsenic, total | MEAFH1 | 23.30 | | ug/L | 11.00 | | ug/L |
| Barium | MEAFH1 | 237.00 | | ug/L | 216.00 | | ug/L |
| Beryllium, total | MEAFH1 | 0.40 | U | ug/L | 5.00 | U | ug/L |
| Cadmium | MEAFH1 | 1.70 | J | ug/L | 0.50 | U | ug/L |
| Calcium | MEAFH1 | 243,000.00 | | ug/L | 280,000.00 | | ug/L |
| Chromium | MEAFH1 | 4.00 | U | ug/L | 10.00 | U | ug/L |
| Cobalt | MEAFH1 | 13.80 | J | ug/L | 8.67 | | ug/L |
| Copper | MEAFH1 | 1.70 | U | ug/L | 25.00 | U | ug/L |
| Cyanide | MEAFH1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Iron | MEAFH1 | 19,000.00 | | ug/L | 20,000.00 | | ug/L |
| Lead | MEAFH1 | 1.70 | U | ug/L | 7.00 | | ug/L |
| Magnesium | MEAFH1 | 23,400.00 | | ug/L | 23,900.00 | | ug/L |
| Manganese | MEAFH1 | 393.00 | | ug/L | 312.00 | | ug/L |
| Mercury | MEAFH1 | 0.20 | U | ug/L | 0.20 | U | ug/L |
| Nickel | MEAFH1 | 19.00 | J | ug/L | 10.60 | | ug/L |
| Potassium | MEAFH1 | 5,110.00 | | ug/L | 5,700.00 | | ug/L |
| Selenium | MEAFH1 | 3.60 | U | ug/L | 10.00 | | ug/L |
| Silver | MEAFH1 | 2.50 | U | ug/L | 10.00 | U | ug/L |
| Sodium | MEAFH1 | 122,000.00 | J | ug/L | 140,000.00 | | ug/L |
| Thallium | MEAFH1 | 6.70 | J | ug/L | 2.79 | | ug/L |
| Vanadium | MEAFH1 | 10.40 | J | ug/L | 5.00 | U | ug/L |
| Zinc | MEAFH1 | 7.60 | J | ug/L | 8.20 | | ug/L |

**Well: WT114A**

***Chemical Class: pesticides***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 4,4-DDD | EARQ4 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| 4,4-DDE | EARQ4 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| 4,4-DDT | EARQ4 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Aldrin | EARQ4 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Aroclor-1016 | EARQ4 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1221 | EARQ4 | 2.00 | U | ug/L | 2.00 | U | ug/L |
| Aroclor-1232 | EARQ4 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1242 | EARQ4 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1248 | EARQ4 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1254 | EARQ4 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1260 | EARQ4 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Dieldrin | EARQ4 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endosulfan I | EARQ4 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Endosulfan II | EARQ4 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endosulfan sulfate | EARQ4 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin | EARQ4 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin aldehyde | EARQ4 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin ketone | EARQ4 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Heptachlor | EARQ4 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Heptachlor epoxide | EARQ4 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Methoxychlor | EARQ4 | 0.50 | U | ug/L | 0.50 | U | ug/L |
| Toxaphene | EARQ4 | 5.00 | U | ug/L | 5.00 | U | ug/L |
| alpha BHC | EARQ4 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| alpha Chlordane | EARQ4 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| beta BHC | EARQ4 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| delta BHC | EARQ4 | 0.05 | U | ug/L | 0.05 | U | ug/L |

**Well: WT114A**

***Chemical Class: pesticides***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| gamma BHC (Lindane) | EARQ4 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| gamma Chlordane | EARQ4 | 0.05 | U | ug/L | 0.05 | U | ug/L |

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichlorobenzene | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,3-Dichlorobenzene | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,4-Dichlorobenzene | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,2'-oxybis(1-Chloropropane) | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4,5-Trichlorophenol | EARQ4 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2,4,6-Trichlorophenol | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dichlorophenol | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dimethylphenol | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dinitrophenol | EARQ4 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2,4-Dinitrotoluene | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,6-Dinitrotoluene | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Chloronaphthalene | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Chlorophenol | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Methylnaphthalene | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Methylphenol | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Nitroaniline | EARQ4 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2-Nitrophenol | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 3,3'-Dichlorobenzidine | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 3-Nitroaniline | EARQ4 | 25.00 | U | ug/L | 25.00 | U | ug/L |

**Well: WT114A**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 4,6-Dinitro-2-methylphenol | EARQ4 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4-Bromophenyl-phenylether | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chloro-3-methylphenol | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chloroaniline | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chlorophenyl-phenylether | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Methylphenol | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Nitroaniline | EARQ4 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4-Nitrophenol | EARQ4 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| Acenaphthene | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Acenaphthylene | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Anthracene | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[a]anthracene | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[a]pyrene | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[b]fluoranthene | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[g,h,i]perylene | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[k]fluoranthene | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2 ethylhexyl)phthalate | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2-Chloroethoxy)methane | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2-chloroethyl)ether | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Butylbenzylphthalate | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbazole | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chrysene | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Di-n-Butylphthalate | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Di-n-octylphthalate | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibenz[a,h]anthracene | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibenzofuran | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT114A**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Diethylphthalate | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dimethylphthalate | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Fluoranthene | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Fluorene | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorobenzene | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorobutadiene | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorocyclopentadiene | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachloroethane | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Indeno[1,2,3 cd]pyrene | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Isophorone | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| N-Nitroso-di-n-propylamine | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| N-Nitrosodiphenylamine | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Naphthalene | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Nitrobenzene | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Pentachlorophenol | EARQ4 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| Phenanthrene | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Phenol | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Pyrene | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1,2,2-Tetrachloroethane | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1,2-Trichloroethane | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1-Dichloroethane | EARQ4 | 5.00 | J | ug/L | 5.40 | | ug/L |

**Well: WT114A**

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloroethane | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloroethene (total) | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloropropane | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Butanone | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Hexanone | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Methyl-2-Pentanone | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Acetone | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzene | EARQ4 | 2.00 | J | ug/L | 2.60 | | ug/L |
| Bromodichloromethane | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromoform | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromomethane | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbon Disulfide | EARQ4 | 0.70 | J | ug/L | 0.50 | U | ug/L |
| Carbon Tetrachloride | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chlorobenzene | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloroethane | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloroform | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloromethane | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibromochloromethane | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Ethylbenzene | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Methylene Chloride | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Styrene | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Tetrachloroethene | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Toluene | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Trichloroethene | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Vinyl Chloride | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT114A**

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Xylene (total) | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| cis-1,3-Dichloropropene | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| trans-1,3-Dichloropropene | EARQ4 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT114B**

***Chemical Class: inorganic***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Aluminum | MEAFG9 | 230.00 | J | ug/L | 26.00 | U | ug/L |
| Antimony | MEAFG9 | 12.80 | U | ug/L | 60.00 | U | ug/L |
| Arsenic, total | MEAFG9 | 18.50 | | ug/L | 8.39 | | ug/L |
| Barium | MEAFG9 | 194.00 | J | ug/L | 173.00 | | ug/L |
| Beryllium, total | MEAFG9 | 0.40 | U | ug/L | 5.00 | U | ug/L |
| Cadmium | MEAFG9 | 1.10 | U | ug/L | 5.00 | U | ug/L |
| Calcium | MEAFG9 | 219,000.00 | | ug/L | 230,000.00 | | ug/L |
| Chromium | MEAFG9 | 4.00 | U | ug/L | 10.00 | U | ug/L |
| Cobalt | MEAFG9 | 11.10 | J | ug/L | 5.00 | U | ug/L |
| Copper | MEAFG9 | 1.70 | U | ug/L | 25.00 | U | ug/L |
| Cyanide | MEAFG9 | 11.40 | | ug/L | 5.00 | U | ug/L |
| Iron | MEAFG9 | 13,300.00 | | ug/L | 13,200.00 | | ug/L |
| Lead | MEAFG9 | 1.70 | U | ug/L | 5.00 | | ug/L |
| Magnesium | MEAFG9 | 30,500.00 | | ug/L | 29,600.00 | | ug/L |
| Manganese | MEAFG9 | 182.00 | | ug/L | 144.00 | | ug/L |
| Mercury | MEAFG9 | 0.20 | U | ug/L | 0.20 | U | ug/L |
| Nickel | MEAFG9 | 19.70 | J | ug/L | 2.00 | U | ug/L |
| Potassium | MEAFG9 | 5,110.00 | | ug/L | 5,000.00 | | ug/L |

**Well: WT114B**

***Chemical Class: inorganic***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Selenium | MEAFG9 | 3.60 | U | ug/L | 7.00 | | ug/L |
| Silver | MEAFG9 | 2.50 | U | ug/L | 10.00 | U | ug/L |
| Sodium | MEAFG9 | 30,100.00 | J | ug/L | 26,900.00 | | ug/L |
| Thallium | MEAFG9 | 4.70 | U | ug/L | 10.00 | U | ug/L |
| Vanadium | MEAFG9 | 23.20 | J | ug/L | 5.00 | U | ug/L |
| Zinc | MEAFG9 | 4.50 | J | ug/L | 4.53 | | ug/L |

***Chemical Class: pesticides***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 4,4-DDD | EARQ2 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| 4,4-DDE | EARQ2 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| 4,4-DDT | EARQ2 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Aldrin | EARQ2 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Aroclor-1016 | EARQ2 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1221 | EARQ2 | 2.00 | U | ug/L | 2.00 | U | ug/L |
| Aroclor-1232 | EARQ2 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1242 | EARQ2 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1248 | EARQ2 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1254 | EARQ2 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1260 | EARQ2 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Dieldrin | EARQ2 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endosulfan I | EARQ2 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Endosulfan II | EARQ2 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endosulfan sulfate | EARQ2 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin | EARQ2 | 0.10 | U | ug/L | 0.10 | U | ug/L |

**Well: WT114B**

***Chemical Class: pesticides***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Endrin aldehyde | EARQ2 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin ketone | EARQ2 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Heptachlor | EARQ2 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Heptachlor epoxide | EARQ2 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Methoxychlor | EARQ2 | 0.50 | U | ug/L | 0.50 | U | ug/L |
| Toxaphene | EARQ2 | 5.00 | U | ug/L | 5.00 | U | ug/L |
| alpha BHC | EARQ2 | 0.01 | J | ug/L | 0.01 | | ug/L |
| alpha Chlordane | EARQ2 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| beta BHC | EARQ2 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| delta BHC | EARQ2 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| gamma BHC (Lindane) | EARQ2 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| gamma Chlordane | EARQ2 | 0.05 | U | ug/L | 0.05 | U | ug/L |

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichlorobenzene | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,3-Dichlorobenzene | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,4-Dichlorobenzene | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,2'-oxybis(1-Chloropropane) | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4,5-Trichlorophenol | EARQ2 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2,4,6-Trichlorophenol | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dichlorophenol | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dimethylphenol | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dinitrophenol | EARQ2 | 25.00 | U | ug/L | 25.00 | U | ug/L |

**Well: WT114B**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 2,4-Dinitrotoluene | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,6-Dinitrotoluene | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Chloronaphthalene | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Chlorophenol | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Methylnaphthalene | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Methylphenol | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Nitroaniline | EARQ2 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2-Nitrophenol | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 3,3'-Dichlorobenzidine | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 3-Nitroaniline | EARQ2 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4,6-Dinitro-2-methylphenol | EARQ2 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4-Bromophenyl-phenylether | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chloro-3-methylphenol | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chloroaniline | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chlorophenyl-phenylether | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Methylphenol | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Nitroaniline | EARQ2 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4-Nitrophenol | EARQ2 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| Acenaphthene | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Acenaphthylene | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Anthracene | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[a]anthracene | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[a]pyrene | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[b]fluoranthene | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[g,h,i]perylene | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[k]fluoranthene | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT114B**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Bis(2 ethylhexyl)phthalate | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2-Chloroethoxy)methane | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2-chloroethyl)ether | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Butylbenzylphthalate | EARQ2 | 0.20 | J | ug/L | 0.80 | U | ug/L |
| Carbazole | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chrysene | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Di-n-Butylphthalate | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Di-n-octylphthalate | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibenz[a,h]anthracene | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibenzofuran | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Diethylphthalate | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dimethylphthalate | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Fluoranthene | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Fluorene | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorobenzene | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorobutadiene | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorocyclopentadiene | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachloroethane | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Indeno[1,2,3 cd]pyrene | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Isophorone | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| N-Nitroso-di-n-propylamine | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| N-Nitrosodiphenylamine | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Naphthalene | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Nitrobenzene | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Pentachlorophenol | EARQ2 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| Phenanthrene | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT114B**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Phenol | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Pyrene | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1,2,2-Tetrachloroethane | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1,2-Trichloroethane | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1-Dichloroethane | EARQ2 | 1.00 | J | ug/L | 1.30 | | ug/L |
| 1,1-Dichloroethene | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloroethane | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloroethene (total) | EARQ2 | 1.00 | J | ug/L | 1.20 | | ug/L |
| 1,2-Dichloropropane | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Butanone | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Hexanone | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Methyl-2-Pentanone | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Acetone | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzene | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromodichloromethane | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromoform | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromomethane | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbon Disulfide | EARQ2 | 2.00 | J | ug/L | 0.50 | U | ug/L |
| Carbon Tetrachloride | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chlorobenzene | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloroethane | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT114B**

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Chloroform | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloromethane | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibromochloromethane | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Ethylbenzene | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Methylene Chloride | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Styrene | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Tetrachloroethene | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Toluene | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Trichloroethene | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Vinyl Chloride | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Xylene (total) | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| cis-1,3-Dichloropropene | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| trans-1,3-Dichloropropene | EARQ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT115A**

***Chemical Class: inorganic***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Aluminum | MEAFH5 | 132.00 | J | ug/L | 107.00 | | ug/L |
| Antimony | MEAFH5 | 12.80 | U | ug/L | 60.00 | U | ug/L |
| Arsenic, total | MEAFH5 | 3.80 | U | ug/L | 10.00 | U | ug/L |
| Barium | MEAFH5 | 50.10 | J | ug/L | 46.20 | | ug/L |
| Beryllium, total | MEAFH5 | 0.40 | U | ug/L | 5.00 | U | ug/L |
| Cadmium | MEAFH5 | 1.10 | U | ug/L | 5.00 | U | ug/L |
| Calcium | MEAFH5 | 197,000.00 | | ug/L | 210,000.00 | | ug/L |
| Chromium | MEAFH5 | 4.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT115A**

***Chemical Class: inorganic***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Cobalt | MEAFH5 | 5.90 | U | ug/L | 50.00 | U | ug/L |
| Copper | MEAFH5 | 1.70 | U | ug/L | 25.00 | U | ug/L |
| Cyanide | MEAFH5 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Iron | MEAFH5 | 1,360.00 | | ug/L | 1,050.00 | | ug/L |
| Lead | MEAFH5 | 1.70 | U | ug/L | 3.00 | U | ug/L |
| Magnesium | MEAFH5 | 27,200.00 | | ug/L | 26,400.00 | | ug/L |
| Manganese | MEAFH5 | 413.00 | | ug/L | 306.00 | | ug/L |
| Mercury | MEAFH5 | 0.20 | U | ug/L | 0.20 | U | ug/L |
| Nickel | MEAFH5 | 9.50 | U | ug/L | 40.00 | U | ug/L |
| Potassium | MEAFH5 | 5,580.00 | | ug/L | 6,300.00 | | ug/L |
| Selenium | MEAFH5 | 3.60 | U | ug/L | 5.00 | U | ug/L |
| Silver | MEAFH5 | 2.50 | U | ug/L | 10.00 | U | ug/L |
| Sodium | MEAFH5 | 43,600.00 | J | ug/L | 41,200.00 | | ug/L |
| Thallium | MEAFH5 | 5.30 | J | ug/L | 6.66 | | ug/L |
| Vanadium | MEAFH5 | 4.50 | U | ug/L | 50.00 | U | ug/L |
| Zinc | MEAFH5 | 31.10 | J | ug/L | 3.00 | U | ug/L |

***Chemical Class: pesticides***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 4,4-DDD | EARQ9 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| 4,4-DDE | EARQ9 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| 4,4-DDT | EARQ9 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Aldrin | EARQ9 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Aroclor-1016 | EARQ9 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1221 | EARQ9 | 2.00 | U | ug/L | 2.00 | U | ug/L |

**Well: WT115A**

***Chemical Class: pesticides***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Aroclor-1232 | EARQ9 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1242 | EARQ9 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1248 | EARQ9 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1254 | EARQ9 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1260 | EARQ9 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Dieldrin | EARQ9 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endosulfan I | EARQ9 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Endosulfan II | EARQ9 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endosulfan sulfate | EARQ9 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin | EARQ9 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin aldehyde | EARQ9 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin ketone | EARQ9 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Heptachlor | EARQ9 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Heptachlor epoxide | EARQ9 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Methoxychlor | EARQ9 | 0.50 | U | ug/L | 0.50 | U | ug/L |
| Toxaphene | EARQ9 | 5.00 | U | ug/L | 5.00 | U | ug/L |
| alpha BHC | EARQ9 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| alpha Chlordane | EARQ9 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| beta BHC | EARQ9 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| delta BHC | EARQ9 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| gamma BHC (Lindane) | EARQ9 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| gamma Chlordane | EARQ9 | 0.05 | U | ug/L | 0.05 | U | ug/L |

**Well: WT115A**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichlorobenzene | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,3-Dichlorobenzene | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,4-Dichlorobenzene | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,2'-oxybis(1-Chloropropane) | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4,5-Trichlorophenol | EARQ9 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2,4,6-Trichlorophenol | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dichlorophenol | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dimethylphenol | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dinitrophenol | EARQ9 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2,4-Dinitrotoluene | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,6-Dinitrotoluene | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Chloronaphthalene | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Chlorophenol | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Methylnaphthalene | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Methylphenol | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Nitroaniline | EARQ9 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2-Nitrophenol | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 3,3'-Dichlorobenzidine | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 3-Nitroaniline | EARQ9 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4,6-Dinitro-2-methylphenol | EARQ9 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4-Bromophenyl-phenylether | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chloro-3-methylphenol | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chloroaniline | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chlorophenyl-phenylether | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Methylphenol | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT115A**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 4-Nitroaniline | EARQ9 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4-Nitrophenol | EARQ9 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| Acenaphthene | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Acenaphthylene | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Anthracene | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[a]anthracene | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[a]pyrene | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[b]fluoranthene | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[g,h,i]perylene | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[k]fluoranthene | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2 ethylhexyl)phthalate | EARQ9 | 0.40 | J | ug/L | 0.40 | | ug/L |
| Bis(2-Chloroethoxy)methane | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2-chloroethyl)ether | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Butylbenzylphthalate | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbazole | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chrysene | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Di-n-Butylphthalate | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Di-n-octylphthalate | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibenz[a,h]anthracene | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibenzofuran | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Diethylphthalate | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dimethylphthalate | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Fluoranthene | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Fluorene | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorobenzene | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorobutadiene | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT115A**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Hexachlorocyclopentadiene | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachloroethane | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Indeno[1,2,3 cd]pyrene | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Isophorone | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| N-Nitroso-di-n-propylamine | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| N-Nitrosodiphenylamine | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Naphthalene | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Nitrobenzene | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Pentachlorophenol | EARQ9 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| Phenanthrene | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Phenol | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Pyrene | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1,2,2-Tetrachloroethane | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1,2-Trichloroethane | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1-Dichloroethane | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1-Dichloroethene | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloroethane | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloroethene (total) | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloropropane | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Butanone | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Hexanone | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT115A**

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Acetone | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzene | EARQ9 | 1.00 | J | ug/L | 2.20 | | ug/L |
| Bromodichloromethane | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromoform | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromomethane | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbon Disulfide | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbon Tetrachloride | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chlorobenzene | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloroethane | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloroform | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloromethane | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibromochloromethane | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Ethylbenzene | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Methylene Chloride | EARQ9 | 10.00 | U | ug/L | 0.50 | U | ug/L |
| Styrene | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Tetrachloroethene | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Toluene | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Trichloroethene | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Vinyl Chloride | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Xylene (total) | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| cis-1,3-Dichloropropene | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| trans-1,3-Dichloropropene | EARQ9 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT116A**

***Chemical Class: inorganic***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Aluminum | MEAFG8 | 393.00 | J | ug/L | 65.60 | | ug/L |
| Antimony | MEAFG8 | 12.80 | U | ug/L | 60.00 | U | ug/L |
| Arsenic, total | MEAFG8 | 3.80 | U | ug/L | 10.00 | U | ug/L |
| Barium | MEAFG8 | 136.00 | J | ug/L | 120.00 | | ug/L |
| Beryllium, total | MEAFG8 | 0.40 | U | ug/L | 5.00 | U | ug/L |
| Cadmium | MEAFG8 | 1.10 | U | ug/L | 5.00 | U | ug/L |
| Calcium | MEAFG8 | 518,000.00 | | ug/L | 580,000.00 | | ug/L |
| Chromium | MEAFG8 | 7.10 | J | ug/L | 0.56 | | ug/L |
| Cobalt | MEAFG8 | 5.90 | U | ug/L | 50.00 | U | ug/L |
| Copper | MEAFG8 | 1.70 | U | ug/L | 25.00 | U | ug/L |
| Cyanide | MEAFG8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Iron | MEAFG8 | 5,710.00 | | ug/L | 6,670.00 | | ug/L |
| Lead | MEAFG8 | 1.70 | U | ug/L | 3.00 | U | ug/L |
| Magnesium | MEAFG8 | 53,500.00 | | ug/L | 57,400.00 | | ug/L |
| Manganese | MEAFG8 | 670.00 | | ug/L | 469.00 | | ug/L |
| Mercury | MEAFG8 | 0.20 | U | ug/L | 0.20 | U | ug/L |
| Nickel | MEAFG8 | 9.50 | U | ug/L | 40.00 | U | ug/L |
| Potassium | MEAFG8 | 36,000.00 | | ug/L | 38,000.00 | | ug/L |
| Selenium | MEAFG8 | 3.60 | U | ug/L | 9.00 | | ug/L |
| Silver | MEAFG8 | 2.50 | U | ug/L | 10.00 | U | ug/L |
| Sodium | MEAFG8 | 195,000.00 | J | ug/L | 210,000.00 | | ug/L |
| Thallium | MEAFG8 | 4.70 | U | ug/L | 14.00 | | ug/L |
| Vanadium | MEAFG8 | 4.50 | U | ug/L | 50.00 | U | ug/L |
| Zinc | MEAFG8 | 45.40 | J | ug/L | 3.00 | U | ug/L |

**Well: WT116A**

***Chemical Class: pesticides***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 4,4-DDD | EARQ1 | 0.10 | UJ | ug/L | 0.10 | U | ug/L |
| 4,4-DDE | EARQ1 | 0.10 | UJ | ug/L | 0.10 | U | ug/L |
| 4,4-DDT | EARQ1 | 0.10 | UJ | ug/L | 0.10 | U | ug/L |
| Aldrin | EARQ1 | 0.05 | UJ | ug/L | 0.05 | U | ug/L |
| Aroclor-1016 | EARQ1 | 1.00 | UJ | ug/L | 1.00 | U | ug/L |
| Aroclor-1221 | EARQ1 | 2.00 | UJ | ug/L | 2.00 | U | ug/L |
| Aroclor-1232 | EARQ1 | 1.00 | UJ | ug/L | 1.00 | U | ug/L |
| Aroclor-1242 | EARQ1 | 1.00 | UJ | ug/L | 1.00 | U | ug/L |
| Aroclor-1248 | EARQ1 | 1.00 | UJ | ug/L | 1.00 | U | ug/L |
| Aroclor-1254 | EARQ1 | 1.00 | UJ | ug/L | 1.00 | U | ug/L |
| Aroclor-1260 | EARQ1 | 1.00 | UJ | ug/L | 1.00 | U | ug/L |
| Dieldrin | EARQ1 | 0.10 | UJ | ug/L | 0.10 | U | ug/L |
| Endosulfan I | EARQ1 | 0.05 | UJ | ug/L | 0.05 | U | ug/L |
| Endosulfan II | EARQ1 | 0.10 | UJ | ug/L | 0.10 | U | ug/L |
| Endosulfan sulfate | EARQ1 | 0.10 | UJ | ug/L | 0.10 | U | ug/L |
| Endrin | EARQ1 | 0.10 | UJ | ug/L | 0.10 | U | ug/L |
| Endrin aldehyde | EARQ1 | 0.10 | UJ | ug/L | 0.10 | U | ug/L |
| Endrin ketone | EARQ1 | 0.10 | UJ | ug/L | 0.10 | U | ug/L |
| Heptachlor | EARQ1 | 0.05 | UJ | ug/L | 0.05 | U | ug/L |
| Heptachlor epoxide | EARQ1 | 0.05 | UJ | ug/L | 0.05 | U | ug/L |
| Methoxychlor | EARQ1 | 0.50 | UJ | ug/L | 0.50 | U | ug/L |
| Toxaphene | EARQ1 | 5.00 | UJ | ug/L | 5.00 | U | ug/L |
| alpha BHC | EARQ1 | 0.05 | UJ | ug/L | 0.05 | U | ug/L |
| alpha Chlordane | EARQ1 | 0.05 | UJ | ug/L | 0.05 | U | ug/L |
| beta BHC | EARQ1 | 0.05 | UJ | ug/L | 0.05 | U | ug/L |
| delta BHC | EARQ1 | 0.05 | UJ | ug/L | 0.05 | U | ug/L |

**Well: WT116A**

***Chemical Class: pesticides***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| gamma BHC (Lindane) | EARQ1 | 0.05 | UJ | ug/L | 0.05 | U | ug/L |
| gamma Chlordane | EARQ1 | 0.05 | UJ | ug/L | 0.05 | U | ug/L |

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichlorobenzene | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,3-Dichlorobenzene | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,4-Dichlorobenzene | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,2'-oxybis(1-Chloropropane) | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4,5-Trichlorophenol | EARQ1 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2,4,6-Trichlorophenol | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dichlorophenol | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dimethylphenol | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dinitrophenol | EARQ1 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2,4-Dinitrotoluene | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,6-Dinitrotoluene | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Chloronaphthalene | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Chlorophenol | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Methylnaphthalene | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Methylphenol | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Nitroaniline | EARQ1 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2-Nitrophenol | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 3,3'-Dichlorobenzidine | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 3-Nitroaniline | EARQ1 | 25.00 | U | ug/L | 25.00 | U | ug/L |

**Well: WT116A**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 4,6-Dinitro-2-methylphenol | EARQ1 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4-Bromophenyl-phenylether | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chloro-3-methylphenol | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chloroaniline | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chlorophenyl-phenylether | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Methylphenol | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Nitroaniline | EARQ1 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4-Nitrophenol | EARQ1 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| Acenaphthene | EARQ1 | 3.00 | J | ug/L | 3.80 | | ug/L |
| Acenaphthylene | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Anthracene | EARQ1 | 0.30 | J | ug/L | 0.30 | | ug/L |
| Benzo[a]anthracene | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[a]pyrene | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[b]fluoranthene | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[g,h,i]perylene | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[k]fluoranthene | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2 ethylhexyl)phthalate | EARQ1 | 15.00 | | ug/L | 1.80 | | ug/L |
| Bis(2-Chloroethoxy)methane | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2-chloroethyl)ether | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Butylbenzylphthalate | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbazole | EARQ1 | 6.00 | J | ug/L | 8.90 | | ug/L |
| Chrysene | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Di-n-Butylphthalate | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Di-n-octylphthalate | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibenz[a,h]anthracene | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibenzofuran | EARQ1 | 2.00 | J | ug/L | 2.50 | | ug/L |

**Well: WT116A**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Diethylphthalate | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dimethylphthalate | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Fluoranthene | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Fluorene | EARQ1 | 3.00 | J | ug/L | 3.00 | | ug/L |
| Hexachlorobenzene | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorobutadiene | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorocyclopentadiene | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachloroethane | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Indeno[1,2,3 cd]pyrene | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Isophorone | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| N-Nitroso-di-n-propylamine | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| N-Nitrosodiphenylamine | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Naphthalene | EARQ1 | 0.40 | J | ug/L | 0.60 | | ug/L |
| Nitrobenzene | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Pentachlorophenol | EARQ1 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| Phenanthrene | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Phenol | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Pyrene | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1,2,2-Tetrachloroethane | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1,2-Trichloroethane | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1-Dichloroethane | EARQ1 | 7.00 | J | ug/L | 7.40 | | ug/L |

**Well: WT116A**

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloroethane | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloroethene (total) | EARQ1 | 1.00 | J | ug/L | 1.50 | | ug/L |
| 1,2-Dichloropropane | EARQ1 | 10.00 | U | ug/L | 5.70 | U | ug/L |
| 2-Butanone | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Hexanone | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Methyl-2-Pentanone | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Acetone | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzene | EARQ1 | 15.00 | | ug/L | 16.00 | | ug/L |
| Bromodichloromethane | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromoform | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromomethane | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbon Disulfide | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbon Tetrachloride | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chlorobenzene | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloroethane | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloroform | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloromethane | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibromochloromethane | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Ethylbenzene | EARQ1 | 0.70 | J | ug/L | 1.20 | | ug/L |
| Methylene Chloride | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Styrene | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Tetrachloroethene | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Toluene | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Trichloroethene | EARQ1 | 0.90 | J | ug/L | 1.20 | | ug/L |
| Vinyl Chloride | EARQ1 | 10.00 | U | ug/L | 4.10 | | ug/L |

**Well: WT116A**

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Xylene (total) | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| cis-1,3-Dichloropropene | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| trans-1,3-Dichloropropene | EARQ1 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT116B**

***Chemical Class: inorganic***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Aluminum | MEAFH0 | 40.40 | J | ug/L | 48.30 | | ug/L |
| Antimony | MEAFH0 | 12.80 | U | ug/L | 60.00 | U | ug/L |
| Arsenic, total | MEAFH0 | 3.80 | U | ug/L | 10.00 | U | ug/L |
| Barium | MEAFH0 | 174.00 | J | ug/L | 164.00 | | ug/L |
| Beryllium, total | MEAFH0 | 0.40 | U | ug/L | 5.00 | U | ug/L |
| Cadmium | MEAFH0 | 1.10 | U | ug/L | 5.00 | U | ug/L |
| Calcium | MEAFH0 | 184,000.00 | | ug/L | 200,000.00 | | ug/L |
| Chromium | MEAFH0 | 4.00 | U | ug/L | 10.00 | U | ug/L |
| Cobalt | MEAFH0 | 5.90 | U | ug/L | 50.00 | U | ug/L |
| Copper | MEAFH0 | 1.70 | U | ug/L | 25.00 | U | ug/L |
| Cyanide | MEAFH0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Iron | MEAFH0 | 2,740.00 | | ug/L | 2,230.00 | | ug/L |
| Lead | MEAFH0 | 1.70 | U | ug/L | 3.00 | | ug/L |
| Magnesium | MEAFH0 | 35,200.00 | | ug/L | 34,300.00 | | ug/L |
| Manganese | MEAFH0 | 203.00 | | ug/L | 167.00 | | ug/L |
| Mercury | MEAFH0 | 0.20 | U | ug/L | 0.20 | U | ug/L |
| Nickel | MEAFH0 | 9.50 | U | ug/L | 40.00 | U | ug/L |
| Potassium | MEAFH0 | 7,080.00 | | ug/L | 7,800.00 | | ug/L |

**Well: WT116B**

***Chemical Class: inorganic***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Selenium | MEAFH0 | 3.60 | U | ug/L | 5.00 | U | ug/L |
| Silver | MEAFH0 | 2.50 | U | ug/L | 10.00 | U | ug/L |
| Sodium | MEAFH0 | 43,200.00 | J | ug/L | 40,900.00 | | ug/L |
| Thallium | MEAFH0 | 4.70 | U | ug/L | 12.00 | | ug/L |
| Vanadium | MEAFH0 | 4.50 | U | ug/L | 50.00 | U | ug/L |
| Zinc | MEAFH0 | 0.90 | U | ug/L | 20.00 | U | ug/L |

***Chemical Class: pesticides***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 4,4-DDD | EARQ3 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| 4,4-DDE | EARQ3 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| 4,4-DDT | EARQ3 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Aldrin | EARQ3 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Aroclor-1016 | EARQ3 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1221 | EARQ3 | 2.00 | U | ug/L | 2.00 | U | ug/L |
| Aroclor-1232 | EARQ3 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1242 | EARQ3 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1248 | EARQ3 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1254 | EARQ3 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1260 | EARQ3 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Dieldrin | EARQ3 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endosulfan I | EARQ3 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Endosulfan II | EARQ3 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endosulfan sulfate | EARQ3 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin | EARQ3 | 0.10 | U | ug/L | 0.10 | U | ug/L |

**Well: WT116B**

***Chemical Class: pesticides***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Endrin aldehyde | EARQ3 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin ketone | EARQ3 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Heptachlor | EARQ3 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Heptachlor epoxide | EARQ3 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Methoxychlor | EARQ3 | 0.50 | U | ug/L | 0.50 | U | ug/L |
| Toxaphene | EARQ3 | 5.00 | U | ug/L | 5.00 | U | ug/L |
| alpha BHC | EARQ3 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| alpha Chlordane | EARQ3 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| beta BHC | EARQ3 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| delta BHC | EARQ3 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| gamma BHC (Lindane) | EARQ3 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| gamma Chlordane | EARQ3 | 0.05 | U | ug/L | 0.05 | U | ug/L |

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichlorobenzene | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,3-Dichlorobenzene | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,4-Dichlorobenzene | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,2'-oxybis(1-Chloropropane) | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4,5-Trichlorophenol | EARQ3 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2,4,6-Trichlorophenol | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dichlorophenol | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dimethylphenol | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dinitrophenol | EARQ3 | 25.00 | U | ug/L | 25.00 | U | ug/L |

**Well: WT116B**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 2,4-Dinitrotoluene | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,6-Dinitrotoluene | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Chloronaphthalene | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Chlorophenol | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Methylnaphthalene | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Methylphenol | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Nitroaniline | EARQ3 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2-Nitrophenol | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 3,3'-Dichlorobenzidine | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 3-Nitroaniline | EARQ3 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4,6-Dinitro-2-methylphenol | EARQ3 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4-Bromophenyl-phenylether | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chloro-3-methylphenol | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chloroaniline | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chlorophenyl-phenylether | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Methylphenol | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Nitroaniline | EARQ3 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4-Nitrophenol | EARQ3 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| Acenaphthene | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Acenaphthylene | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Anthracene | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[a]anthracene | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[a]pyrene | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[b]fluoranthene | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[g,h,i]perylene | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[k]fluoranthene | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT116B**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Bis(2 ethylhexyl)phthalate | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2-Chloroethoxy)methane | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2-chloroethyl)ether | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Butylbenzylphthalate | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbazole | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chrysene | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Di-n-Butylphthalate | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Di-n-octylphthalate | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibenz[a,h]anthracene | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibenzofuran | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Diethylphthalate | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dimethylphthalate | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Fluoranthene | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Fluorene | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorobenzene | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorobutadiene | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorocyclopentadiene | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachloroethane | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Indeno[1,2,3 cd]pyrene | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Isophorone | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| N-Nitroso-di-n-propylamine | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| N-Nitrosodiphenylamine | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Naphthalene | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Nitrobenzene | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Pentachlorophenol | EARQ3 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| Phenanthrene | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT116B**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Phenol | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Pyrene | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1,2,2-Tetrachloroethane | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1,2-Trichloroethane | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1-Dichloroethane | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1-Dichloroethene | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloroethane | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloroethene (total) | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloropropane | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Butanone | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Hexanone | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Methyl-2-Pentanone | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Acetone | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzene | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromodichloromethane | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromoform | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromomethane | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbon Disulfide | EARQ3 | 2.00 | J | ug/L | 0.50 | U | ug/L |
| Carbon Tetrachloride | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chlorobenzene | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloroethane | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT116B**

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Chloroform | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloromethane | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibromochloromethane | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Ethylbenzene | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Methylene Chloride | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Styrene | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Tetrachloroethene | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Toluene | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Trichloroethene | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Vinyl Chloride | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Xylene (total) | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| cis-1,3-Dichloropropene | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| trans-1,3-Dichloropropene | EARQ3 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT117A**

***Chemical Class: inorganic***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Aluminum | MEAFH6 | 4,330.00 | | ug/L | 5,340.00 | | ug/L |
| Antimony | MEAFH6 | 2.90 | J | ug/L | 5.24 | | ug/L |
| Arsenic, total | MEAFH6 | 3.80 | U | ug/L | 10.00 | U | ug/L |
| Barium | MEAFH6 | 59.10 | J | ug/L | 54.00 | | ug/L |
| Beryllium, total | MEAFH6 | 0.40 | U | ug/L | 5.00 | U | ug/L |
| Cadmium | MEAFH6 | 1.10 | U | ug/L | 5.00 | U | ug/L |
| Calcium | MEAFH6 | 49,000.00 | J | ug/L | 51,100.00 | | ug/L |
| Chromium | MEAFH6 | 4.20 | J | ug/L | 5.90 | | ug/L |

**Well: WT117A**

***Chemical Class: inorganic***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Cobalt | MEAFH6 | 3.10 | U | ug/L | 50.00 | U | ug/L |
| Copper | MEAFH6 | 8.00 | J | ug/L | 11.10 | | ug/L |
| Cyanide | MEAFH6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Iron | MEAFH6 | 1,690.00 | | ug/L | 1,460.00 | | ug/L |
| Lead | MEAFH6 | 3.40 | | ug/L | 10.00 | | ug/L |
| Magnesium | MEAFH6 | 9,160.00 | J | ug/L | 9,550.00 | | ug/L |
| Manganese | MEAFH6 | 230.00 | | ug/L | 193.00 | | ug/L |
| Mercury | MEAFH6 | 0.20 | U | ug/L | 0.20 | U | ug/L |
| Nickel | MEAFH6 | 7.00 | J | ug/L | 6.35 | | ug/L |
| Potassium | MEAFH6 | 1,860.00 | J | ug/L | 2,580.00 | | ug/L |
| Selenium | MEAFH6 | 3.60 | U | ug/L | 5.00 | U | ug/L |
| Silver | MEAFH6 | 2.50 | U | ug/L | 10.00 | U | ug/L |
| Sodium | MEAFH6 | 2,940.00 | J | ug/L | 2,800.00 | | ug/L |
| Thallium | MEAFH6 | 4.70 | U | ug/L | 10.00 | U | ug/L |
| Vanadium | MEAFH6 | 10.10 | J | ug/L | 9.10 | | ug/L |
| Zinc | MEAFH6 | 20.60 | J | ug/L | 14.30 | | ug/L |

***Chemical Class: pesticides***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 4,4-DDD | EARR0 | 0.10 | UJ | ug/L | 0.10 | U | ug/L |
| 4,4-DDE | EARR0 | 0.10 | UJ | ug/L | 0.10 | U | ug/L |
| 4,4-DDT | EARR0 | 0.10 | UJ | ug/L | 0.10 | U | ug/L |
| Aldrin | EARR0 | 0.05 | UJ | ug/L | 0.05 | U | ug/L |
| Aroclor-1016 | EARR0 | 1.00 | UJ | ug/L | 1.00 | U | ug/L |
| Aroclor-1221 | EARR0 | 2.00 | UJ | ug/L | 2.00 | U | ug/L |

**Well: WT117A**

***Chemical Class: pesticides***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Aroclor-1232 | EARR0 | 1.00 | UJ | ug/L | 1.00 | U | ug/L |
| Aroclor-1242 | EARR0 | 1.00 | UJ | ug/L | 1.00 | U | ug/L |
| Aroclor-1248 | EARR0 | 1.00 | UJ | ug/L | 1.00 | U | ug/L |
| Aroclor-1254 | EARR0 | 1.00 | UJ | ug/L | 1.00 | U | ug/L |
| Aroclor-1260 | EARR0 | 1.00 | UJ | ug/L | 1.00 | U | ug/L |
| Dieldrin | EARR0 | 0.10 | UJ | ug/L | 0.10 | U | ug/L |
| Endosulfan I | EARR0 | 0.05 | UJ | ug/L | 0.05 | U | ug/L |
| Endosulfan II | EARR0 | 0.10 | UJ | ug/L | 0.10 | U | ug/L |
| Endosulfan sulfate | EARR0 | 0.10 | UJ | ug/L | 0.10 | U | ug/L |
| Endrin | EARR0 | 0.10 | UJ | ug/L | 0.10 | U | ug/L |
| Endrin aldehyde | EARR0 | 0.10 | UJ | ug/L | 0.10 | U | ug/L |
| Endrin ketone | EARR0 | 0.10 | UJ | ug/L | 0.10 | U | ug/L |
| Heptachlor | EARR0 | 0.05 | UJ | ug/L | 0.05 | U | ug/L |
| Heptachlor epoxide | EARR0 | 0.05 | UJ | ug/L | 0.05 | U | ug/L |
| Methoxychlor | EARR0 | 0.50 | UJ | ug/L | 0.50 | U | ug/L |
| Toxaphene | EARR0 | 5.00 | UJ | ug/L | 5.00 | U | ug/L |
| alpha BHC | EARR0 | 0.05 | UJ | ug/L | 0.05 | U | ug/L |
| alpha Chlordane | EARR0 | 0.05 | UJ | ug/L | 0.05 | U | ug/L |
| beta BHC | EARR0 | 0.05 | UJ | ug/L | 0.05 | U | ug/L |
| delta BHC | EARR0 | 0.05 | UJ | ug/L | 0.05 | U | ug/L |
| gamma BHC (Lindane) | EARR0 | 0.05 | UJ | ug/L | 0.05 | U | ug/L |
| gamma Chlordane | EARR0 | 0.05 | UJ | ug/L | 0.05 | U | ug/L |

**Well: WT117A**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichlorobenzene | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,3-Dichlorobenzene | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,4-Dichlorobenzene | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,2'-oxybis(1-Chloropropane) | EARR0 | 10.00 | UJ | ug/L | 10.00 | U | ug/L |
| 2,4,5-Trichlorophenol | EARR0 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2,4,6-Trichlorophenol | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dichlorophenol | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dimethylphenol | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dinitrophenol | EARR0 | 25.00 | UJ | ug/L | 25.00 | U | ug/L |
| 2,4-Dinitrotoluene | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,6-Dinitrotoluene | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Chloronaphthalene | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Chlorophenol | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Methylnaphthalene | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Methylphenol | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Nitroaniline | EARR0 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2-Nitrophenol | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 3,3'-Dichlorobenzidine | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 3-Nitroaniline | EARR0 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4,6-Dinitro-2-methylphenol | EARR0 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4-Bromophenyl-phenylether | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chloro-3-methylphenol | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chloroaniline | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chlorophenyl-phenylether | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Methylphenol | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT117A**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 4-Nitroaniline | EARR0 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4-Nitrophenol | EARR0 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| Acenaphthene | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Acenaphthylene | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Anthracene | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[a]anthracene | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[a]pyrene | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[b]fluoranthene | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[g,h,i]perylene | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[k]fluoranthene | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2 ethylhexyl)phthalate | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2-Chloroethoxy)methane | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2-chloroethyl)ether | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Butylbenzylphthalate | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbazole | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chrysene | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Di-n-Butylphthalate | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Di-n-octylphthalate | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibenz[a,h]anthracene | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibenzofuran | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Diethylphthalate | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dimethylphthalate | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Fluoranthene | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Fluorene | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorobenzene | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorobutadiene | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT117A**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Hexachlorocyclopentadiene | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachloroethane | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Indeno[1,2,3 cd]pyrene | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Isophorone | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| N-Nitroso-di-n-propylamine | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| N-Nitrosodiphenylamine | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Naphthalene | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Nitrobenzene | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Pentachlorophenol | EARR0 | 25.00 | UJ | ug/L | 25.00 | U | ug/L |
| Phenanthrene | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Phenol | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Pyrene | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1,2,2-Tetrachloroethane | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1,2-Trichloroethane | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1-Dichloroethane | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1-Dichloroethene | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloroethane | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloroethene (total) | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloropropane | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Butanone | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Hexanone | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT117A**

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Acetone | EARR0 | 10.00 | UJ | ug/L | 10.00 | U | ug/L |
| Benzene | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromodichloromethane | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromoform | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromomethane | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbon Disulfide | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbon Tetrachloride | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chlorobenzene | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloroethane | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloroform | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloromethane | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibromochloromethane | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Ethylbenzene | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Methylene Chloride | EARR0 | 10.00 | U | ug/L | 0.50 | U | ug/L |
| Styrene | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Tetrachloroethene | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Toluene | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Trichloroethene | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Vinyl Chloride | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Xylene (total) | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| cis-1,3-Dichloropropene | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| trans-1,3-Dichloropropene | EARR0 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT117B**

***Chemical Class: inorganic***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Aluminum | MEAFH7 | 133.00 | J | ug/L | 98.90 | | ug/L |
| Antimony | MEAFH7 | 1.90 | U | ug/L | 60.00 | U | ug/L |
| Arsenic, total | MEAFH7 | 3.80 | U | ug/L | 10.00 | U | ug/L |
| Barium | MEAFH7 | 35.80 | J | ug/L | 30.80 | | ug/L |
| Beryllium, total | MEAFH7 | 0.40 | U | ug/L | 5.00 | U | ug/L |
| Cadmium | MEAFH7 | 1.10 | U | ug/L | 5.00 | U | ug/L |
| Calcium | MEAFH7 | 108,000.00 | J | ug/L | 110,000.00 | | ug/L |
| Chromium | MEAFH7 | 4.00 | U | ug/L | 10.00 | U | ug/L |
| Cobalt | MEAFH7 | 3.10 | U | ug/L | 50.00 | U | ug/L |
| Copper | MEAFH7 | 1.70 | U | ug/L | 25.00 | U | ug/L |
| Cyanide | MEAFH7 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Iron | MEAFH7 | 1,700.00 | | ug/L | 1,280.00 | | ug/L |
| Lead | MEAFH7 | 1.70 | U | ug/L | 13.00 | | ug/L |
| Magnesium | MEAFH7 | 21,700.00 | J | ug/L | 21,100.00 | | ug/L |
| Manganese | MEAFH7 | 61.20 | | ug/L | 50.00 | | ug/L |
| Mercury | MEAFH7 | 0.20 | U | ug/L | 0.20 | U | ug/L |
| Nickel | MEAFH7 | 5.50 | U | ug/L | 40.00 | U | ug/L |
| Potassium | MEAFH7 | 1,440.00 | J | ug/L | 1,750.00 | | ug/L |
| Selenium | MEAFH7 | 3.60 | U | ug/L | 5.00 | U | ug/L |
| Silver | MEAFH7 | 2.50 | U | ug/L | 10.00 | U | ug/L |
| Sodium | MEAFH7 | 12,200.00 | J | ug/L | 12,100.00 | | ug/L |
| Thallium | MEAFH7 | 4.70 | U | ug/L | 10.00 | U | ug/L |
| Vanadium | MEAFH7 | 4.50 | U | ug/L | 50.00 | U | ug/L |
| Zinc | MEAFH7 | 9.80 | J | ug/L | 3.00 | U | ug/L |

**Well: WT117B**

***Chemical Class: pesticides***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 4,4-DDD | EARR1 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| 4,4-DDE | EARR1 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| 4,4-DDT | EARR1 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Aldrin | EARR1 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Aroclor-1016 | EARR1 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1221 | EARR1 | 2.00 | U | ug/L | 2.00 | U | ug/L |
| Aroclor-1232 | EARR1 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1242 | EARR1 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1248 | EARR1 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1254 | EARR1 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1260 | EARR1 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Dieldrin | EARR1 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endosulfan I | EARR1 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Endosulfan II | EARR1 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endosulfan sulfate | EARR1 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin | EARR1 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin aldehyde | EARR1 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin ketone | EARR1 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Heptachlor | EARR1 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Heptachlor epoxide | EARR1 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Methoxychlor | EARR1 | 0.50 | U | ug/L | 0.50 | U | ug/L |
| Toxaphene | EARR1 | 5.00 | U | ug/L | 5.00 | U | ug/L |
| alpha BHC | EARR1 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| alpha Chlordane | EARR1 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| beta BHC | EARR1 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| delta BHC | EARR1 | 0.05 | U | ug/L | 0.05 | U | ug/L |

**Well: WT117B**

***Chemical Class: pesticides***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| gamma BHC (Lindane) | EARR1 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| gamma Chlordane | EARR1 | 0.05 | U | ug/L | 0.05 | U | ug/L |

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichlorobenzene | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,3-Dichlorobenzene | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,4-Dichlorobenzene | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,2'-oxybis(1-Chloropropane) | EARR1 | 10.00 | UJ | ug/L | 10.00 | U | ug/L |
| 2,4,5-Trichlorophenol | EARR1 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2,4,6-Trichlorophenol | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dichlorophenol | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dimethylphenol | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dinitrophenol | EARR1 | 25.00 | UJ | ug/L | 25.00 | U | ug/L |
| 2,4-Dinitrotoluene | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,6-Dinitrotoluene | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Chloronaphthalene | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Chlorophenol | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Methylnaphthalene | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Methylphenol | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Nitroaniline | EARR1 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2-Nitrophenol | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 3,3'-Dichlorobenzidine | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 3-Nitroaniline | EARR1 | 25.00 | U | ug/L | 25.00 | U | ug/L |

**Well: WT117B**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 4,6-Dinitro-2-methylphenol | EARR1 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4-Bromophenyl-phenylether | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chloro-3-methylphenol | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chloroaniline | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chlorophenyl-phenylether | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Methylphenol | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Nitroaniline | EARR1 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4-Nitrophenol | EARR1 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| Acenaphthene | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Acenaphthylene | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Anthracene | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[a]anthracene | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[a]pyrene | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[b]fluoranthene | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[g,h,i]perylene | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[k]fluoranthene | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2 ethylhexyl)phthalate | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2-Chloroethoxy)methane | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2-chloroethyl)ether | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Butylbenzylphthalate | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbazole | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chrysene | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Di-n-Butylphthalate | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Di-n-octylphthalate | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibenz[a,h]anthracene | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibenzofuran | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT117B**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Diethylphthalate | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dimethylphthalate | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Fluoranthene | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Fluorene | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorobenzene | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorobutadiene | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorocyclopentadiene | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachloroethane | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Indeno[1,2,3 cd]pyrene | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Isophorone | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| N-Nitroso-di-n-propylamine | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| N-Nitrosodiphenylamine | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Naphthalene | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Nitrobenzene | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Pentachlorophenol | EARR1 | 25.00 | UJ | ug/L | 25.00 | U | ug/L |
| Phenanthrene | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Phenol | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Pyrene | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1,2,2-Tetrachloroethane | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1,2-Trichloroethane | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1-Dichloroethane | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT117B**

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloroethane | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloroethene (total) | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloropropane | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Butanone | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Hexanone | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Methyl-2-Pentanone | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Acetone | EARR1 | 10.00 | UJ | ug/L | 10.00 | U | ug/L |
| Benzene | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromodichloromethane | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromoform | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromomethane | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbon Disulfide | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbon Tetrachloride | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chlorobenzene | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloroethane | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloroform | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloromethane | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibromochloromethane | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Ethylbenzene | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Methylene Chloride | EARR1 | 10.00 | U | ug/L | 0.50 | U | ug/L |
| Styrene | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Tetrachloroethene | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Toluene | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Trichloroethene | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Vinyl Chloride | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT117B**

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Xylene (total) | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| cis-1,3-Dichloropropene | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| trans-1,3-Dichloropropene | EARR1 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT118B**

***Chemical Class: inorganic***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Aluminum | MEAFH8 | 229.00 | J | ug/L | 49.60 | | ug/L |
| Antimony | MEAFH8 | 12.80 | U | ug/L | 60.00 | U | ug/L |
| Arsenic, total | MEAFH8 | 3.80 | U | ug/L | 10.00 | U | ug/L |
| Barium | MEAFH8 | 347.00 | | ug/L | 304.00 | | ug/L |
| Beryllium, total | MEAFH8 | 0.92 | J | ug/L | 0.50 | U | ug/L |
| Cadmium | MEAFH8 | 1.10 | U | ug/L | 5.00 | U | ug/L |
| Calcium | MEAFH8 | 306,000.00 | | ug/L | 360,000.00 | | ug/L |
| Chromium | MEAFH8 | 14.40 | J | ug/L | 1.21 | | ug/L |
| Cobalt | MEAFH8 | 12.90 | J | ug/L | 5.00 | U | ug/L |
| Copper | MEAFH8 | 7.90 | J | ug/L | 2.72 | | ug/L |
| Cyanide | MEAFH8 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Iron | MEAFH8 | 8,680.00 | | ug/L | 9,200.00 | | ug/L |
| Lead | MEAFH8 | 1.70 | U | ug/L | 4.00 | | ug/L |
| Magnesium | MEAFH8 | 29,600.00 | | ug/L | 30,600.00 | | ug/L |
| Manganese | MEAFH8 | 76.90 | | ug/L | 57.00 | | ug/L |
| Mercury | MEAFH8 | 0.20 | U | ug/L | 0.20 | U | ug/L |
| Nickel | MEAFH8 | 20.20 | J | ug/L | 2.00 | U | ug/L |
| Potassium | MEAFH8 | 16,300.00 | | ug/L | 18,000.00 | | ug/L |

**Well: WT118B**

***Chemical Class: inorganic***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Selenium | MEAFH8 | 3.60 | U | ug/L | 5.00 | U | ug/L |
| Silver | MEAFH8 | 10.90 | J | ug/L | 0.50 | U | ug/L |
| Sodium | MEAFH8 | 69,900.00 | J | ug/L | 81,800.00 | | ug/L |
| Thallium | MEAFH8 | 8.00 | J | ug/L | 2.00 | U | ug/L |
| Vanadium | MEAFH8 | 18.80 | J | ug/L | 5.00 | U | ug/L |
| Zinc | MEAFH8 | 6.30 | J | ug/L | 3.00 | U | ug/L |

***Chemical Class: pesticides***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 4,4-DDD | EARR2 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| 4,4-DDE | EARR2 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| 4,4-DDT | EARR2 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Aldrin | EARR2 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Aroclor-1016 | EARR2 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1221 | EARR2 | 2.00 | U | ug/L | 2.00 | U | ug/L |
| Aroclor-1232 | EARR2 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1242 | EARR2 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1248 | EARR2 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1254 | EARR2 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1260 | EARR2 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Dieldrin | EARR2 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endosulfan I | EARR2 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Endosulfan II | EARR2 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endosulfan sulfate | EARR2 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin | EARR2 | 0.10 | U | ug/L | 0.10 | U | ug/L |

**Well: WT118B**

***Chemical Class: pesticides***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Endrin aldehyde | EARR2 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin ketone | EARR2 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Heptachlor | EARR2 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Heptachlor epoxide | EARR2 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Methoxychlor | EARR2 | 0.50 | U | ug/L | 0.50 | U | ug/L |
| Toxaphene | EARR2 | 5.00 | U | ug/L | 5.00 | U | ug/L |
| alpha BHC | EARR2 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| alpha Chlordane | EARR2 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| beta BHC | EARR2 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| delta BHC | EARR2 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| gamma BHC (Lindane) | EARR2 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| gamma Chlordane | EARR2 | 0.05 | U | ug/L | 0.05 | U | ug/L |

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichlorobenzene | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,3-Dichlorobenzene | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,4-Dichlorobenzene | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,2'-oxybis(1-Chloropropane) | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4,5-Trichlorophenol | EARR2 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2,4,6-Trichlorophenol | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dichlorophenol | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dimethylphenol | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dinitrophenol | EARR2 | 25.00 | U | ug/L | 25.00 | U | ug/L |

**Well: WT118B**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 2,4-Dinitrotoluene | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,6-Dinitrotoluene | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Chloronaphthalene | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Chlorophenol | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Methylnaphthalene | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Methylphenol | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Nitroaniline | EARR2 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2-Nitrophenol | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 3,3'-Dichlorobenzidine | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 3-Nitroaniline | EARR2 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4,6-Dinitro-2-methylphenol | EARR2 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4-Bromophenyl-phenylether | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chloro-3-methylphenol | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chloroaniline | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chlorophenyl-phenylether | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Methylphenol | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Nitroaniline | EARR2 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4-Nitrophenol | EARR2 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| Acenaphthene | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Acenaphthylene | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Anthracene | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[a]anthracene | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[a]pyrene | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[b]fluoranthene | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[g,h,i]perylene | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[k]fluoranthene | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT118B**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Bis(2 ethylhexyl)phthalate | EARR2 | 3.00 | J | ug/L | 0.80 | | ug/L |
| Bis(2-Chloroethoxy)methane | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2-chloroethyl)ether | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Butylbenzylphthalate | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbazole | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chrysene | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Di-n-Butylphthalate | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Di-n-octylphthalate | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibenz[a,h]anthracene | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibenzofuran | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Diethylphthalate | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dimethylphthalate | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Fluoranthene | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Fluorene | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorobenzene | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorobutadiene | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorocyclopentadiene | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachloroethane | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Indeno[1,2,3 cd]pyrene | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Isophorone | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| N-Nitroso-di-n-propylamine | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| N-Nitrosodiphenylamine | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Naphthalene | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Nitrobenzene | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Pentachlorophenol | EARR2 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| Phenanthrene | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT118B**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Phenol | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Pyrene | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1,2,2-Tetrachloroethane | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1,2-Trichloroethane | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1-Dichloroethane | EARR2 | 10.00 | U | ug/L | 1.30 | | ug/L |
| 1,1-Dichloroethene | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloroethane | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloroethene (total) | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloropropane | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Butanone | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Hexanone | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Methyl-2-Pentanone | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Acetone | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzene | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromodichloromethane | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromoform | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromomethane | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbon Disulfide | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbon Tetrachloride | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chlorobenzene | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloroethane | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WT118B**

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Chloroform | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloromethane | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibromochloromethane | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Ethylbenzene | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Methylene Chloride | EARR2 | 10.00 | U | ug/L | 0.50 | U | ug/L |
| Styrene | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Tetrachloroethene | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Toluene | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Trichloroethene | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Vinyl Chloride | EARR2 | 10.00 | U | ug/L | 9.10 | | ug/L |
| Xylene (total) | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| cis-1,3-Dichloropropene | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| trans-1,3-Dichloropropene | EARR2 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WTE1**

***Chemical Class: inorganic***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Aluminum | MEAFJ2 | 86.00 | J | ug/L | 60.20 | | ug/L |
| Antimony | MEAFJ2 | 1.90 | U | ug/L | 60.00 | U | ug/L |
| Arsenic, total | MEAFJ2 | 3.80 | U | ug/L | 10.00 | U | ug/L |
| Barium | MEAFJ2 | 47.00 | J | ug/L | 40.80 | | ug/L |
| Beryllium, total | MEAFJ2 | 0.40 | U | ug/L | 5.00 | U | ug/L |
| Cadmium | MEAFJ2 | 1.10 | U | ug/L | 5.00 | U | ug/L |
| Calcium | MEAFJ2 | 158,000.00 | J | ug/L | 150,000.00 | | ug/L |
| Chromium | MEAFJ2 | 4.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WTE1**

***Chemical Class: inorganic***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Cobalt | MEAFJ2 | 3.10 | U | ug/L | 50.00 | U | ug/L |
| Copper | MEAFJ2 | 1.70 | U | ug/L | 25.00 | U | ug/L |
| Cyanide | MEAFJ2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Iron | MEAFJ2 | 3,640.00 | | ug/L | 3,470.00 | | ug/L |
| Lead | MEAFJ2 | 1.70 | U | ug/L | 4.00 | | ug/L |
| Magnesium | MEAFJ2 | 39,800.00 | J | ug/L | 38,400.00 | | ug/L |
| Manganese | MEAFJ2 | 156.00 | | ug/L | 127.00 | | ug/L |
| Mercury | MEAFJ2 | 0.20 | U | ug/L | 0.20 | U | ug/L |
| Nickel | MEAFJ2 | 5.50 | U | ug/L | 40.00 | U | ug/L |
| Potassium | MEAFJ2 | 4,470.00 | J | ug/L | 5,200.00 | | ug/L |
| Selenium | MEAFJ2 | 3.60 | U | ug/L | 5.00 | U | ug/L |
| Silver | MEAFJ2 | 2.50 | U | ug/L | 10.00 | U | ug/L |
| Sodium | MEAFJ2 | 18,100.00 | J | ug/L | 17,600.00 | | ug/L |
| Thallium | MEAFJ2 | 4.70 | U | ug/L | 10.00 | U | ug/L |
| Vanadium | MEAFJ2 | 4.50 | U | ug/L | 50.00 | U | ug/L |
| Zinc | MEAFJ2 | 3.60 | J | ug/L | 3.00 | | ug/L |

***Chemical Class: pesticides***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 4,4-DDD | EARR6 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| 4,4-DDE | EARR6 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| 4,4-DDT | EARR6 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Aldrin | EARR6 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Aroclor-1016 | EARR6 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1221 | EARR6 | 2.00 | U | ug/L | 2.00 | U | ug/L |

**Well: WTE1**

***Chemical Class: pesticides***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Aroclor-1232 | EARR6 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1242 | EARR6 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1248 | EARR6 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1254 | EARR6 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1260 | EARR6 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Dieldrin | EARR6 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endosulfan I | EARR6 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Endosulfan II | EARR6 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endosulfan sulfate | EARR6 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin | EARR6 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin aldehyde | EARR6 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin ketone | EARR6 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Heptachlor | EARR6 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Heptachlor epoxide | EARR6 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Methoxychlor | EARR6 | 0.50 | U | ug/L | 0.50 | U | ug/L |
| Toxaphene | EARR6 | 5.00 | U | ug/L | 5.00 | U | ug/L |
| alpha BHC | EARR6 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| alpha Chlordane | EARR6 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| beta BHC | EARR6 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| delta BHC | EARR6 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| gamma BHC (Lindane) | EARR6 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| gamma Chlordane | EARR6 | 0.05 | U | ug/L | 0.05 | U | ug/L |

**Well: WTE1**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichlorobenzene | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,3-Dichlorobenzene | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,4-Dichlorobenzene | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,2'-oxybis(1-Chloropropane) | EARR6 | 10.00 | UJ | ug/L | 10.00 | U | ug/L |
| 2,4,5-Trichlorophenol | EARR6 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2,4,6-Trichlorophenol | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dichlorophenol | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dimethylphenol | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dinitrophenol | EARR6 | 25.00 | UJ | ug/L | 25.00 | U | ug/L |
| 2,4-Dinitrotoluene | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,6-Dinitrotoluene | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Chloronaphthalene | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Chlorophenol | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Methylnaphthalene | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Methylphenol | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Nitroaniline | EARR6 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2-Nitrophenol | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 3,3'-Dichlorobenzidine | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 3-Nitroaniline | EARR6 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4,6-Dinitro-2-methylphenol | EARR6 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4-Bromophenyl-phenylether | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chloro-3-methylphenol | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chloroaniline | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chlorophenyl-phenylether | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Methylphenol | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WTE1**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 4-Nitroaniline | EARR6 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4-Nitrophenol | EARR6 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| Acenaphthene | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Acenaphthylene | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Anthracene | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[a]anthracene | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[a]pyrene | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[b]fluoranthene | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[g,h,i]perylene | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[k]fluoranthene | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2 ethylhexyl)phthalate | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2-Chloroethoxy)methane | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2-chloroethyl)ether | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Butylbenzylphthalate | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbazole | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chrysene | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Di-n-Butylphthalate | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Di-n-octylphthalate | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibenz[a,h]anthracene | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibenzofuran | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Diethylphthalate | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dimethylphthalate | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Fluoranthene | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Fluorene | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorobenzene | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorobutadiene | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WTE1**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Hexachlorocyclopentadiene | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachloroethane | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Indeno[1,2,3 cd]pyrene | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Isophorone | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| N-Nitroso-di-n-propylamine | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| N-Nitrosodiphenylamine | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Naphthalene | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Nitrobenzene | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Pentachlorophenol | EARR6 | 25.00 | UJ | ug/L | 25.00 | U | ug/L |
| Phenanthrene | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Phenol | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Pyrene | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1,2,2-Tetrachloroethane | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1,2-Trichloroethane | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1-Dichloroethane | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1-Dichloroethene | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloroethane | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloroethene (total) | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloropropane | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Butanone | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Hexanone | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WTE1**

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Acetone | EARR6 | 10.00 | UJ | ug/L | 10.00 | U | ug/L |
| Benzene | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromodichloromethane | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromoform | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromomethane | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbon Disulfide | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbon Tetrachloride | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chlorobenzene | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloroethane | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloroform | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloromethane | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibromochloromethane | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Ethylbenzene | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Methylene Chloride | EARR6 | 10.00 | U | ug/L | 0.50 | U | ug/L |
| Styrene | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Tetrachloroethene | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Toluene | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Trichloroethene | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Vinyl Chloride | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Xylene (total) | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| cis-1,3-Dichloropropene | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| trans-1,3-Dichloropropene | EARR6 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WTO1**

***Chemical Class: inorganic***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Aluminum | MEAFH2 | 115.00 | J | ug/L | 43.70 | | ug/L |
| Antimony | MEAFH2 | 12.80 | U | ug/L | 60.00 | U | ug/L |
| Arsenic, total | MEAFH2 | 3.80 | U | ug/L | 10.00 | U | ug/L |
| Barium | MEAFH2 | 74.30 | J | ug/L | 69.50 | | ug/L |
| Beryllium, total | MEAFH2 | 0.40 | U | ug/L | 5.00 | U | ug/L |
| Cadmium | MEAFH2 | 1.10 | U | ug/L | 5.00 | U | ug/L |
| Calcium | MEAFH2 | 104,000.00 | | ug/L | 110,000.00 | | ug/L |
| Chromium | MEAFH2 | 4.00 | U | ug/L | 10.00 | U | ug/L |
| Cobalt | MEAFH2 | 5.90 | U | ug/L | 50.00 | U | ug/L |
| Copper | MEAFH2 | 1.70 | U | ug/L | 25.00 | U | ug/L |
| Cyanide | MEAFH2 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Iron | MEAFH2 | 21.60 | J | ug/L | 85.80 | | ug/L |
| Lead | MEAFH2 | 1.70 | U | ug/L | 3.00 | U | ug/L |
| Magnesium | MEAFH2 | 26,100.00 | | ug/L | 25,900.00 | | ug/L |
| Manganese | MEAFH2 | 205.00 | | ug/L | 177.00 | | ug/L |
| Mercury | MEAFH2 | 0.20 | U | ug/L | 0.20 | U | ug/L |
| Nickel | MEAFH2 | 9.50 | U | ug/L | 40.00 | U | ug/L |
| Potassium | MEAFH2 | 1,950.00 | J | ug/L | 1,920.00 | | ug/L |
| Selenium | MEAFH2 | 3.60 | U | ug/L | 5.00 | U | ug/L |
| Silver | MEAFH2 | 2.50 | U | ug/L | 10.00 | U | ug/L |
| Sodium | MEAFH2 | 12,500.00 | J | ug/L | 11,700.00 | | ug/L |
| Thallium | MEAFH2 | 4.70 | U | ug/L | 13.00 | | ug/L |
| Vanadium | MEAFH2 | 6.90 | J | ug/L | 5.00 | U | ug/L |
| Zinc | MEAFH2 | 2.10 | J | ug/L | 3.00 | U | ug/L |

**Well: WTO1**

***Chemical Class: pesticides***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 4,4-DDD | EARQ6 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| 4,4-DDE | EARQ6 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| 4,4-DDT | EARQ6 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Aldrin | EARQ6 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Aroclor-1016 | EARQ6 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1221 | EARQ6 | 2.00 | U | ug/L | 2.00 | U | ug/L |
| Aroclor-1232 | EARQ6 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1242 | EARQ6 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1248 | EARQ6 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1254 | EARQ6 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Aroclor-1260 | EARQ6 | 1.00 | U | ug/L | 1.00 | U | ug/L |
| Dieldrin | EARQ6 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endosulfan I | EARQ6 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Endosulfan II | EARQ6 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endosulfan sulfate | EARQ6 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin | EARQ6 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin aldehyde | EARQ6 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Endrin ketone | EARQ6 | 0.10 | U | ug/L | 0.10 | U | ug/L |
| Heptachlor | EARQ6 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Heptachlor epoxide | EARQ6 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| Methoxychlor | EARQ6 | 0.50 | U | ug/L | 0.50 | U | ug/L |
| Toxaphene | EARQ6 | 5.00 | U | ug/L | 5.00 | U | ug/L |
| alpha BHC | EARQ6 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| alpha Chlordane | EARQ6 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| beta BHC | EARQ6 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| delta BHC | EARQ6 | 0.05 | U | ug/L | 0.05 | U | ug/L |

**Well: WTO1**

***Chemical Class: pesticides***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| gamma BHC (Lindane) | EARQ6 | 0.05 | U | ug/L | 0.05 | U | ug/L |
| gamma Chlordane | EARQ6 | 0.05 | U | ug/L | 0.05 | U | ug/L |

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichlorobenzene | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,3-Dichlorobenzene | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,4-Dichlorobenzene | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,2'-oxybis(1-Chloropropane) | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4,5-Trichlorophenol | EARQ6 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2,4,6-Trichlorophenol | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dichlorophenol | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dimethylphenol | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,4-Dinitrophenol | EARQ6 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2,4-Dinitrotoluene | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2,6-Dinitrotoluene | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Chloronaphthalene | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Chlorophenol | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Methylnaphthalene | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Methylphenol | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Nitroaniline | EARQ6 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 2-Nitrophenol | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 3,3'-Dichlorobenzidine | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 3-Nitroaniline | EARQ6 | 25.00 | U | ug/L | 25.00 | U | ug/L |

**Well: WTO1**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 4,6-Dinitro-2-methylphenol | EARQ6 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4-Bromophenyl-phenylether | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chloro-3-methylphenol | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chloroaniline | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Chlorophenyl-phenylether | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Methylphenol | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Nitroaniline | EARQ6 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| 4-Nitrophenol | EARQ6 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| Acenaphthene | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Acenaphthylene | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Anthracene | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[a]anthracene | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[a]pyrene | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[b]fluoranthene | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[g,h,i]perylene | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzo[k]fluoranthene | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2 ethylhexyl)phthalate | EARQ6 | 13.00 | | ug/L | 10.00 | U | ug/L |
| Bis(2-Chloroethoxy)methane | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bis(2-chloroethyl)ether | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Butylbenzylphthalate | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbazole | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chrysene | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Di-n-Butylphthalate | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Di-n-octylphthalate | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibenz[a,h]anthracene | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibenzofuran | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WTO1**

***Chemical Class: semivolatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Diethylphthalate | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dimethylphthalate | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Fluoranthene | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Fluorene | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorobenzene | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorobutadiene | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachlorocyclopentadiene | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Hexachloroethane | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Indeno[1,2,3 cd]pyrene | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Isophorone | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| N-Nitroso-di-n-propylamine | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| N-Nitrosodiphenylamine | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Naphthalene | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Nitrobenzene | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Pentachlorophenol | EARQ6 | 25.00 | U | ug/L | 25.00 | U | ug/L |
| Phenanthrene | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Phenol | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Pyrene | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1,2,2-Tetrachloroethane | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1,2-Trichloroethane | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,1-Dichloroethane | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WTO1**

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloroethane | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloroethene (total) | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 1,2-Dichloropropane | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Butanone | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 2-Hexanone | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| 4-Methyl-2-Pentanone | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Acetone | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Benzene | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromodichloromethane | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromoform | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Bromomethane | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbon Disulfide | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Carbon Tetrachloride | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chlorobenzene | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloroethane | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloroform | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Chloromethane | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Dibromochloromethane | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Ethylbenzene | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Methylene Chloride | EARQ6 | 10.00 | U | ug/L | 0.50 | U | ug/L |
| Styrene | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Tetrachloroethene | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Toluene | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Trichloroethene | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| Vinyl Chloride | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |

**Well: WTO1**

***Chemical Class: volatile***

| Chemical | EPA Sample | EPA Conc. | QA Flag | EPA Units | EIS Conc. | QA Flag | EIS Units |
|---|---|---|---|---|---|---|---|
| Xylene (total) | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| cis-1,3-Dichloropropene | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |
| trans-1,3-Dichloropropene | EARQ6 | 10.00 | U | ug/L | 10.00 | U | ug/L |

# APPENDIX E
# Overview of Life Systems' Baseline Health Risk Assessment for the Himco Landfill Site

# APPENDIX E
# OVERVIEW OF LSI's BASELINE HEALTH RISK ASSESSMENT

Life Systems, Inc. (LSI) conducted a baseline human health risk assessment to estimate non-cancer hazard quotient ("HQ") values and excess lifetime cancer risk ("LCR") values for 87 chemical substances, each of which was detected in at least one on-site soil, groundwater, leachate, surface water, or sediment sample during the remedial investigation ("RI") that was conducted by SEC Donohue between 1990 and 1991. A comprehensive set of exposure pathways was evaluated for both current land use and hypothetical future land use conditions.

The baseline risk assessment concluded that the landfill does not pose an unacceptable health risk for current land use and existing exposure scenarios. LSI also conducted a health risk assessment for hypothetical future land use and exposure scenarios, which assumed that individuals consumed on-site leachate and ground water for a substantial portion of a lifetime; LSI concluded that the health risks under these assumed exposure conditions would exceed one per ten thousand ($1 \times 10^{-4}$), the upper end of the acceptable risk range as set by the National Contingency Plan ("NCP"). In its Record of Decision (ROD), USEPA Region V proposed a remedy for the Site to mitigate this hypothetical future on-site threat associated with residential development on the landfill mass.

LSI's assessment of the ground water pathway considered both direct exposures (ingestion of and dermal contact with leachate and ground water) and indirect exposures (inhalation of volatiles from ground water and leachate during showering) to ground water and leachate. LSI's assessment focussed upon four hypothetical locations for future residential land use and ground water consumption:

- Residents living on the landfill mass and drinking shallow ground water and leachate;[1]

- Residents living on-site south of the landfill mass and drinking shallow ground water;

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[1] Residents living on the landfill were assumed by LSI to consume leachate (i.e., unfiltered water from within the waste mass, but well above the ground water table) as well as ground water from shallow monitoring wells on the landfill.

- Residents living on-site south of the landfill mass and drinking deep ground water; and,

- Residents living north of the landfill and drinking background (upgradient) ground water.[2]

Tables E-1 and E-2 summarizes the excess lifetime cancer risk (LCR) estimates and noncancer hazard quotient (HQ) values obtained by LSI for adult residents at these exposure locations. Table E-1 includes results for every carcinogen for which LSI calculated a LCR value equal to or greater than one per million ($1 \times 10^{-6}$) for any of the four exposure locations. Table E-2 includes results for every non-carcinogen for which LSI calculated a HQ value equal to or greater than 0.1 (one-tenth) for any of the four exposure locations.

According to the Agency's *Risk Assessment Guidance for Superfund*, an early step in the health risk assessment process is to identify site-related chemicals of potential concern based, in part, upon an evaluation of frequency of detection and the magnitude and spatial pattern of detected concentrations (USEPA 1989). In the case of ground water monitoring data, this step should include a rigorous comparison of the concentrations detected in upgradient versus downgradient wells (USEPA 1989, 1992). The intent of this screening is that only site-related (hazardous) substances should be considered in determining the need for remedial action under CERCLA.[3] LSI's risk assessment did not identify site-related chemicals of concern according to this approach. Instead, LSI identified as "site related" practically all substances detected in any sample or medium. It also did not correct down-gradient exposure concentrations for any background contribution. Consequently, the values of LCR and non-cancer HQ obtained by LSI (and shown in Tables E-1 and E-2, respectively) do not represent incremental risks demonstrably related to the Site and past landfilling operations.

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[2] Although this scenario is not discussed in the text of the risk assessment, excess lifetime cancer risks are calculated in Appendix 5 (pp. A5-230, A5-231, SEC Donohue 1992, Vol. 5).

[3] As summarized in Sections III.D and III.E of the main report, the RI and September 1995 data provide no basis for concluding that any of the carcinogenic substances shown in Table E-1 is a site-related chemical of concern in ground water. Of the non-carcinogenic substances shown in Table E-2, only barium was determined to possibly be a site-related chemical of concern in ground water.

**TABLE E-1**

**Excess Lifetime Cancer Risk (LCR) Values Estimated by Life Systems for Four Hypothetical Locations of Ground Water Exposure**

| Detection Group | Chemical of Potential Concern | LCR Values for Respective Groundwater Exposure Locations | | | |
|---|---|---|---|---|---|
| | | Background[1] | On Landfill[2] | South Landfill (Shallow)[3] | South Landfill (Deep)[4] |
| Volatiles | 1,1-Dichloroethene | 0.00E+00 | 2.92E-04 | 5.05E-05 | 5.04E-05 |
| | Benzene | 0.00E+00 | 4.03E-05 | 3.02E-06 | 4.03E-06 |
| | Bromodichloromethane | 8.06E-06 | 3.02E-05 | 7.04E-06 | 7.03E-06 |
| | Chloroform | 8.31E-06 | 6.20E-05 | 8.30E-06 | 7.30E-06 |
| | Methylene Chloride | 1.51E-06 | 2.81E-05 | 2.71E-07 | 6.02E-07 |
| | Styrene | 0.00E+00 | 1.15E-06 | 2.28E-06 | 2.28E-06 |
| | Tetrachloroethene | 0.00E+00 | 1.15E-05 | 3.30E-06 | 3.30E-06 |
| | Trichloroethene | 7.10E-07 | 6.04E-05 | 1.21E-06 | 1.21E-06 |
| | Vinyl Chloride | 0.00E+00 | 8.04E-04 | 1.31E-04 | 1.31E-04 |
| **Group Subtotal** | | **1.86E-05** | **1.33E-03** | **2.07E-04** | **2.07E-04** |
| Semivolatiles | 1,4-Dichlorobenzene | 0.00E+00 | 2.10E-06 | 1.08E-06 | 1.08E-06 |
| | Benzo[a]pyrene | 0.00E+00 | 5.00E-04 | 7.00E-04 | 7.00E-04 |
| | Benzo[b]fluoranthene | 0.00E+00 | 7.00E-04 | 7.00E-04 | 7.00E-04 |
| | Benzo[k]fluoranthene | 0.00E+00 | 3.00E-04 | 7.00E-04 | 7.00E-04 |
| | Bis(2 ethylhexyl)phthalate | 4.40E-06 | 3.10E-06 | 8.20E-06 | 5.10E-07 |
| | Chrysene | 0.00E+00 | 5.00E-04 | 7.00E-04 | 7.00E-04 |
| | Indeno[1,2,3 cd]pyrene | 0.00E+00 | 3.00E-04 | 7.00E-04 | 7.00E-04 |
| **Group Subtotal** | | **4.40E-06** | **2.31E-03** | **3.51E-03** | **3.50E-03** |
| Pesticides | 4,4-DDE | 0.00E+00 | 1.30E-06 | 1.10E-06 | 2.40E-07 |
| | 4,4-DDT | 0.00E+00 | 1.40E-06 | 2.70E-07 | 2.70E-07 |
| | Aldrin | 0.00E+00 | 2.00E-05 | 5.01E-06 | 5.01E-06 |
| | alpha Chlordane | 0.00E+00 | 3.30E-05 | 2.30E-05 | 3.30E-05 |
| | beta BHC | 0.00E+00 | 1.02E-06 | 5.10E-07 | 5.09E-07 |
| | Dieldrin | 0.00E+00 | 1.02E-05 | 4.06E-05 | 9.10E-06 |
| | gamma Chlordane | 0.00E+00 | 4.40E-07 | 3.30E-06 | 3.30E-06 |
| | Heptachlor | 0.00E+00 | 3.03E-06 | 1.01E-06 | 1.01E-06 |
| **Group Subtotal** | | **0.00E+00** | **7.04E-05** | **7.48E-05** | **5.24E-05** |
| Metals | Arsenic, total | 9.01E-05 | 3.00E-04 | 5.01E-04 | 1.00E-04 |
| | Beryllium, total | 5.00E-04 | 2.00E-01 | 2.00E-04 | 1.80E-04 |
| **Group Subtotal** | | **5.90E-04** | **2.00E-01** | **7.01E-04** | **2.80E-04** |
| **Grand Total** | | **6.13E-04** | **2.04E-01** | **4.49E-03** | **4.04E-03** |

[1]Data based on two samples taken at each of seven wells: WB1, WB2, WB3, WB4, WTP102A, WTP102B, WTP103C. Risks compiled from Appendix 5, pp. A5-230 and A5-231 (Volume 5, SEC Donohue, 1992).

[2]Data based on one leachate sample taken at trench TL1, one at trench TL2, either one or two at trench TL4, and two groundwater monitoring well samples each taken at wells WTCP-1 and WT-103A. Risks compiled from Appendix 5, pp. A5-128 and A5-129 (Volume 5, SEC Donohue, 1992).

[3]Data based on one sample taken at well WT-101A and two samples taken at each of three wells: WTE-2, WTM-2 and WT-111A. Risks compiled from Appendix 5, pp. A5-156 and A5-157 (Volume 5, SEC Donohue, 1992).

[4]Data based on one sample taken at well WTE-3 and two samples taken at each of three wells: WTM-1, WT-101B and WT-101C. Risks compiled from Appendix 5, pp. A5-201 and A5-202 (Volume 5, SEC Donohue, 1992).

**TABLE E-2**

**Noncancer Hazard Quotient (HQ) Values Estimated by Life Systems for Four Hypothetical Locations of Ground Water Exposure**

| Detection Group | Chemical of Potential Concern | Non-Cancer HQ Values for Respective Groundwater Exposure Locations | | | |
|---|---|---|---|---|---|
| | | Background[1] | On Landfill[2] | South Landfill (Shallow)[3] | South Landfill (Deep)[4] |
| Volatiles | Carbon Disulfide | 0.0 | 1 | 0.09103 | 0.08103 |
| | Chlorobenzene | 0.0 | 0.02208 | 0.0572 | 0.0562 |
| **Group Subtotal** | | **0.0** | **1** | **0.14823** | **0.13723** |
| Metals | Antimony, Total | 3 | 406 | 1 | 2 |
| | Barium, Total | 0.071 | 0.0303 | 0.0706 | 0.0807 |
| | Cadmium, Total | 0.0 | 60 | 0.1009 | 0.1009 |
| | Chromium, Total | 0.104 | 20 | 0.306 | 0.0407 |
| | Silver, Total | 0.083 | 0.0305 | 0.0508 | 0.0407 |
| | Vanadium, Total | 0.054 | 9 | 0.208 | 0.042 |
| **Group Subtotal** | | **3** | **496** | **2** | **2** |
| Other | Nitrite/Nitrate[5] | 2 | 0.0 | 5 | 0.1001 |
| **Group Subtotal** | | **2** | **0.0** | **5** | **0.1001** |
| **Grand Total** | | **5** | **497** | **7** | **3** |

[1]Data based on two samples taken at each of seven wells: WB1, WB2, WB3, WB4, WTP102A, WTP102B, WTP103C. Risks compiled from Appendix 5, pp. A5-230 and A5-231 (Volume 5, SEC Donohue, 1992).

[2]Data based on one leachate sample taken at trench TL1, one at trench TL2, either one or two at trench TL4, and two groundwater monitoring well samples each taken at wells WTCP-1 and WT-103A. Risks compiled from Appendix 5, pp. A5-128 and A5-129 (Volume 5, SEC Donohue, 1992).

[3]Data based on one sample taken at well WT-101A and two samples taken at each of three wells: WTE-2, WTM-2 and WT-111A. Risks compiled from Appendix 5, pp. A5-156 and A5-157 (Volume 5, SEC Donohue, 1992).

[4]Data based on one sample taken at well WTE-3 and two samples taken at each of three wells: WTM-1, WT-101B and WT-101C. Risks compiled from Appendix 5, pp. A5-201 and A5-202 (Volume 5, SEC Donohue, 1992).

[5]Although leachate was sampled for nitrite/nitrate, sampling results were qualified with an "R" flag indicating that the results are unusable.

Many of the substances identified by LSI as chemicals of concern were not detected during the RI (or in September 1995) in any on-site or down-gradient monitoring well. In evaluating exposures to ground water, LSI made the following assumptions regarding the interpretation of non-detect samples during the RI:

- Substances detected in one or more leachate samples, but not detected in any well water (groundwater) samples, were assumed to be present in every downgradient well water sample at a concentration equal to one-half the respective detection limit.

- Substances detected in one or more soil samples, but not detected in any well water (groundwater) samples, were assumed to be present in every downgradient well water sample at a concentration equal to one-half the respective detection limit.

- Substances detected in one or more groundwater sample(s) were assumed to be present in every downgradient well water sample. For samples with a non-detect result, the substance concentration was assumed to be equal to one-half the respective detection limit.

To facilitate an interpretation of LSI's risk assessment relative to detected and non-detected substances, ENVIRON re-organized LSI's risk measures that are reported in Tables E-1 and E-2. The re-organized values are shown in Tables 20 and 21 of the main report. LSI's baseline risk assessment is discussed further in Section IV of the main report, with an emphasis on identifying any site-related chemicals of concern given the September 1995 ground water monitoring results.

**References**

SEC Donohue. 1992. *Volume 5 Final Remedial Investigation Report: Himco Dump Remedial Investigation/Feasibility Study*. August.

# APPENDIX F
# Statistical Analyses of Ground Water Quality Data for Selected Substances

about the substance concentration for non-detect samples. In addition, when the the frequency of non-detects is high enough, the sample concentrations will not exhibit a normal distribution (as assumed by the T-test, for example). In these circumstances, non-parametic tests, which do not rely upon distributional assumptions regarding the sample concentrations, are preferred.

The Wilcoxon Rank Sum Test is a non-parametric test in which all concentration data from the background set and a group of downgradient wells are ordered by rank from lowest to highest. If the ranks of the downgradient results are large relative to ranks of the background results, then it can be concluded that a statistical difference exists between the two sets of data. The Wilcoxon Rank Sum Test is recommended by USEPA (1992) for making comparisons between a pool of downgradient wells versus a pool of background wells in cases where the frequency of non-detect samples is substantial (i.e., greater than 15%) or where the assumptions of classical (parametric) analysis of variance (ANOVA) tests are not met.

ENVIRON used the Wilcoxon Rank Sum Test in the cases of arsenic, benzene, beryllium, cadmium, and carbon sulfide due to their relatively low frequency of detection. In addition, ENVIRON determined that the concentration data for arsenic and beryllium did not meet the assumptions for parametric ANOVA. Because barium was detected in every sample during the RI and the September 1995 sampling events, ENVIRON used the T-test in the case of barium.

The results of these statistcal analyses are shown in Table F-1. Results of the Wilcoxon test indicated that arsenic, benzene, beryllium, cadmium, and carbon disulfide concentrations were not significantly elevated in downgradient wells relative to background levels (using a confidence level, $\alpha$, of 5%; $Z_{crit} = 1.645$). Results of the T-test indicate that barium is not elevated in the "on landfill" wells that are closest to the landfill mass, but are elevated in the on-site wells south of the landfill relative to the upgradient wells (using a confidence level, $\alpha$, of 5%). Identical findings resulted for barium when the Wilcoxon Test was applied instead of the T-test.

## References

U.S. Environmental Protection Agency (USEPA). 1992. *Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities: Addendum to Interim Final Guidance.* Washington, DC: Office of Solid Waste. July.

**Table F-1**
**Summary of Statistical Comparisons of Downgradient Sample Concentrations Versus Upgradient (Background) Sample Concentrations**

| Chemical Substance | Statistical Information Shown in Indicated Row | Group of Downgradient Wells for Comparison to Upgradient Well Data | | |
|---|---|---|---|---|
| | | On Landfill Wells (n= 8 sam es) | South of Landfill-Shallow Wells (n = 12 sam ) | South of Landfill-Deep Wells (n = 11 sam es) |
| Arsenic | Wilcoxon Z-statistic | 1.44 | 1.14 | 1.46 |
| | Significance | NS | NS | NS |
| Barium | T-statistic | 1.26 | 3.51 | 3.86 |
| | Significance | NS | P < 0.05 | P < 0.05 |
| Benzene | Wilcoxon Z-statistic | -1.74 | -1.10 | -0.38 |
| | Significance | NS | NS | NS |
| Beryllium | Wilcoxon Z-statistic | -1.88 | -0.60 | -0.98 |
| | Significance | NS | NS | NS |
| Cadmium | Wilcoxon Z-statistic | 1.26 | 0.48 | 0.02 |
| | Significance | NS | NS | NS |
| Carbon Disulfide | Wilcoxon Z-statistic | -2.28 | 0.45 | 0.14 |
| | Significance | NS | NS | NS |

*Footnotes:*

Table 1 of the main report identifies the wells assigned to each group. Figure 1 of the main report shows the locations of these wells. There was a total of 18 background samples (m = 18) for the two sampling events.

A negative value for the T- or Z-statistic indicates that the group of downgradient wells had lower sample concentrations or ranks, respectively, than the group of upgradient wells.

NS = not significant

For the Wilcoxon test, the critical value of the Z-statistic ($Z_{crit}$) is 1.645 for a confidence level ($\alpha$) of 5%. For the t- test, the critical value of the T-statistic ($T_{crit}$) depends upon the sample sizes (i.e., total number of degrees of freedom); it is approximately 2.05 for the three comparisons shown above.

P < 0.05 means there is less than a 5% chance that a difference as large and positive as that observed in the T- or Z-statistic could have occurred randomly if the two populations (downgradient and upgradient concentrations) were identically distributed (i.e., same population mean and variance).