ALUMINUM COMPANY OF AMERICA
MASSENA, NEW YORK

REMEDIATION PROJECTS ORGANIZATION

# CLEANUP VERIFICATION SAMPLING AND ANALYSIS REPORT

FOR THE

DENNISON CROSS ROAD SITE

January 12, 1996

Prepared by

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Review/Comments
Completed

# CERTIFICATION WITH SUBMITTAL OF CLEANUP VERIFICATION SAMPLING AND ANALYSIS REPORT FOR THE DENNISON CROSS ROAD SITE

All information contained in this document is to the best of our knowledge, factual and represents CDM's total understanding of the conditions and circumstances at the Alcoa facility and impacted area. The conclusions and recommendations contained in this document represent CDM's best professional engineering judgement on remediation that meets those applicable or relevant and appropriate requirements and represents sound engineering practices and principles to protect public health and the environment.

Signature: _____

Joseph E. Mihm, P.E.
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Date: January 12, 1996

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# Section 1
# Introduction

## 1.1 Intent of Document

Camp Dresser & McKee (CDM) prepared this *Cleanup Verification Sampling and Analysis Report for the Dennison Cross Road Site* for the Aluminum Company of America (Alcoa) in Massena, New York to document the remedial excavation activities performed at the Dennison Cross Road Site (DCR). This report presents the results of the cleanup verification testing to assess cleanup standard attainment. This work was performed in substantial compliance with the approved remedial design document *Soil Cleanup Verification Plan for the Dennison Cross Road Site* (CDM, Revised October 1995).

The DCR remediation work involved establishing survey controls, excavation of visible waste and waste contaminated soils, disposal of excavated materials either in Cell 1 or Cell 2 of the onsite Secure Landfill (SLF) or sent offsite for disposal and cleanup verification testing.

## 1.2 Site Description

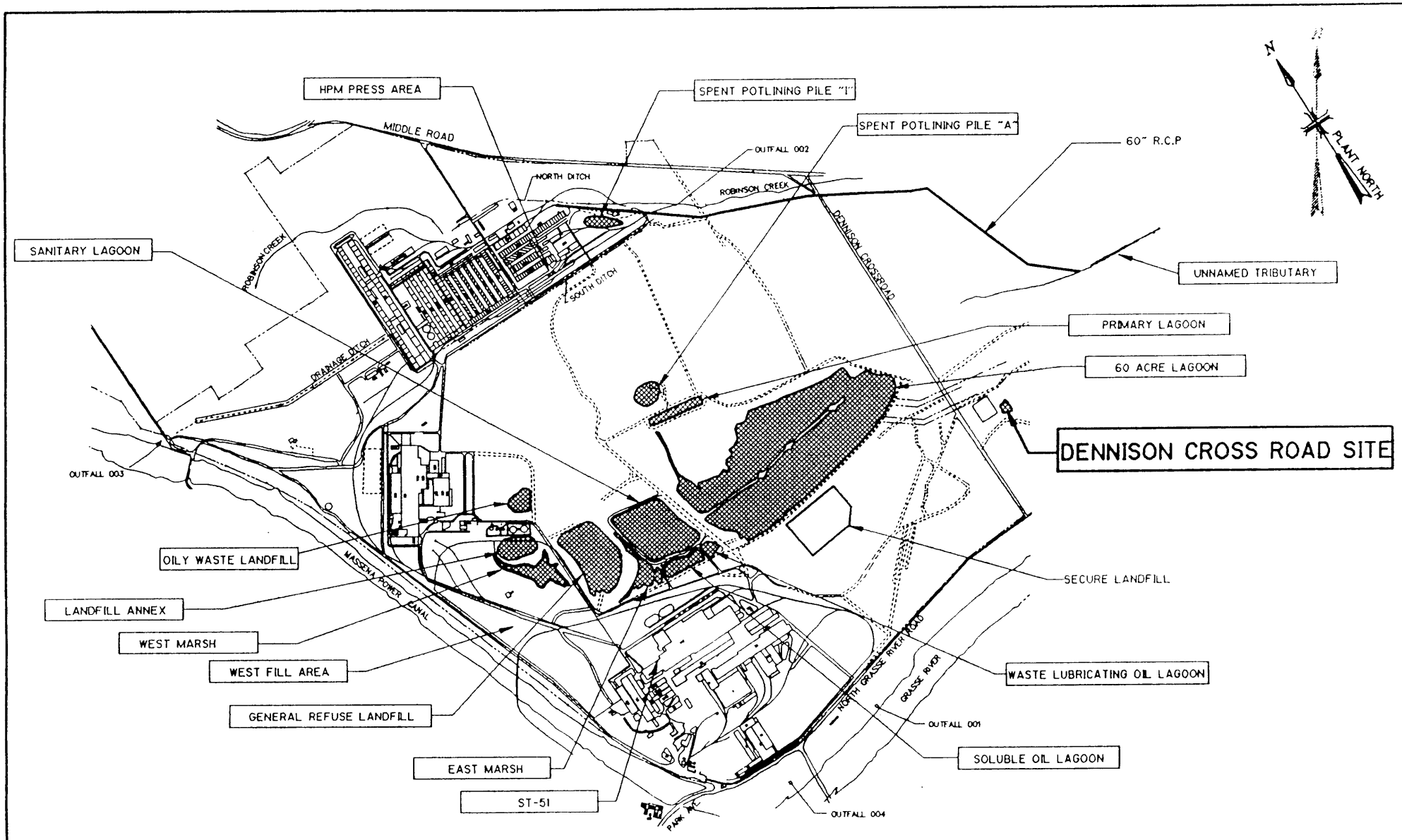
The DCR site (New York State Department of Environmental Conservation [NYSDEC] Site No. 645004) was a 1 3/4-acre area that formerly operated as a disposal area for various mill pit solids, solvent degreasing bottoms, drawings and soluble oil sludges, and debris containing chlorinated solvents. The DCR site is located east of Dennison Road on the Alcoa property, but outside the Alcoa facility boundary. Figure 1-1 shows the location of the DCR site.

## 1.3 Objectives

The objective of this report is to:

- document the sampling work performed as required by the *Soil Cleanup Verification Plan for the Dennison Cross Road Site* (CDM, Revised October 1995);
- present the analytical results of the field screening and laboratory testing performed on the samples collected; and
- present the statistical analysis performed on the cleanup verification samples to demonstrate that the cleanup goals were attained during the DCR remediation.

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# SITE LOCATION PLAN DENNISON CROSS ROAD SITE

FIGURE 1-1

## 1.4 Report Organization

The remainder of this report is organized into five sections. Section 2 provides a summary of the approved cleanup verification work plan and any deviations during execution of the work. Section 3 documents the sampling work that was performed and the results of the field screening and laboratory testing. Section 4 presents a summary of the results and the statistical analysis performed on the cleanup verification samples to demonstrate that the remediation was successful in meeting the cleanup goals. Section 5 provides a summary and conclusions. Section 6 provides a list of references.

# Section 2
# Dennison Cross Road Site
# Cleanup Verification Program

## 2.1 Introduction

The *Soil Cleanup Verification Plan for the Dennison Cross Road Site* (CDM, Revised October 1995) outlined the sampling design and activities necessary to verify that the post-excavation soil concentrations achieved soil cleanup goals during the DCR remediation. Based on conditions encountered in the field during remediation the following changes were incorporated in this work plan:

- Design Change Order No. 4 (CDM, August 1995) which revised the cleanup verification plan to modify the density and alignment of the cleanup verification sampling grids so that the samples are collected along the alignment of the former drum disposal area.

- Design Change Order No. 5 (CDM, October 1995) which revised the cleanup verification plan with the addition of sampling grids located north of Area 2 where additional waste was discovered.

The information presented herein is based on this final revised document.

The work plan divided the DCR into three excavation areas for the statistical evaluation. The areas developed for this statistical evaluation were based on the existing data, information gained during remediation construction, and the likelihood of attaining cleanup goals throughout those areas. A general description of the areas are as follows:

- Area 1 is defined as the southern portion of the former ravine surrounding the drum disposal area where cleanup goals were exceeded.

- Area 2 is defined as the northern portion of the former ravine surrounding the drum disposal area where cleanup goals were exceeded.

- Southern swale is defined as the drainage swale which outlets to the south where cleanup goals were exceeded.

Area 1 was to consist of samples collected at the center of 17 selected grid blocks (grids 1 through 17). Samples were to be collected at the 3-to 12-inch interval. All samples were to be field screened for polychlorinated biphenyls (PCBs) and total organic vapors. Nine of the 17 grids were randomly selected (grids 2, 3, 4, 6, 7, 12, 13, 14 and 17) to be laboratory analyzed for PCBs, polycyclic aromatic hydrocarbons (PAHs) and volatile organic compounds (VOCs).

Area 2 was to consist of samples collected at the center of 12 selected grid blocks (grids 18 through 27, 48 and 49). Samples were to be collected at the 3-to 12-inch interval. All samples were to be field screened for PCBs and total organic vapors and laboratory analyzed for PCBs, PAHs and VOCs.

The southern swale was to consist of samples collected at the center of 20 selected grid blocks (grids 28 through 47). Samples were to be collected at the 3-to 12-inch interval. All samples were to be field screened for PCBs and laboratory analyzed for PCBs and PAHs.

The required cleanup verification sampling locations for the DCR are shown in Figures 2-1 and 2-2.

## 2.2 Cleanup Goals

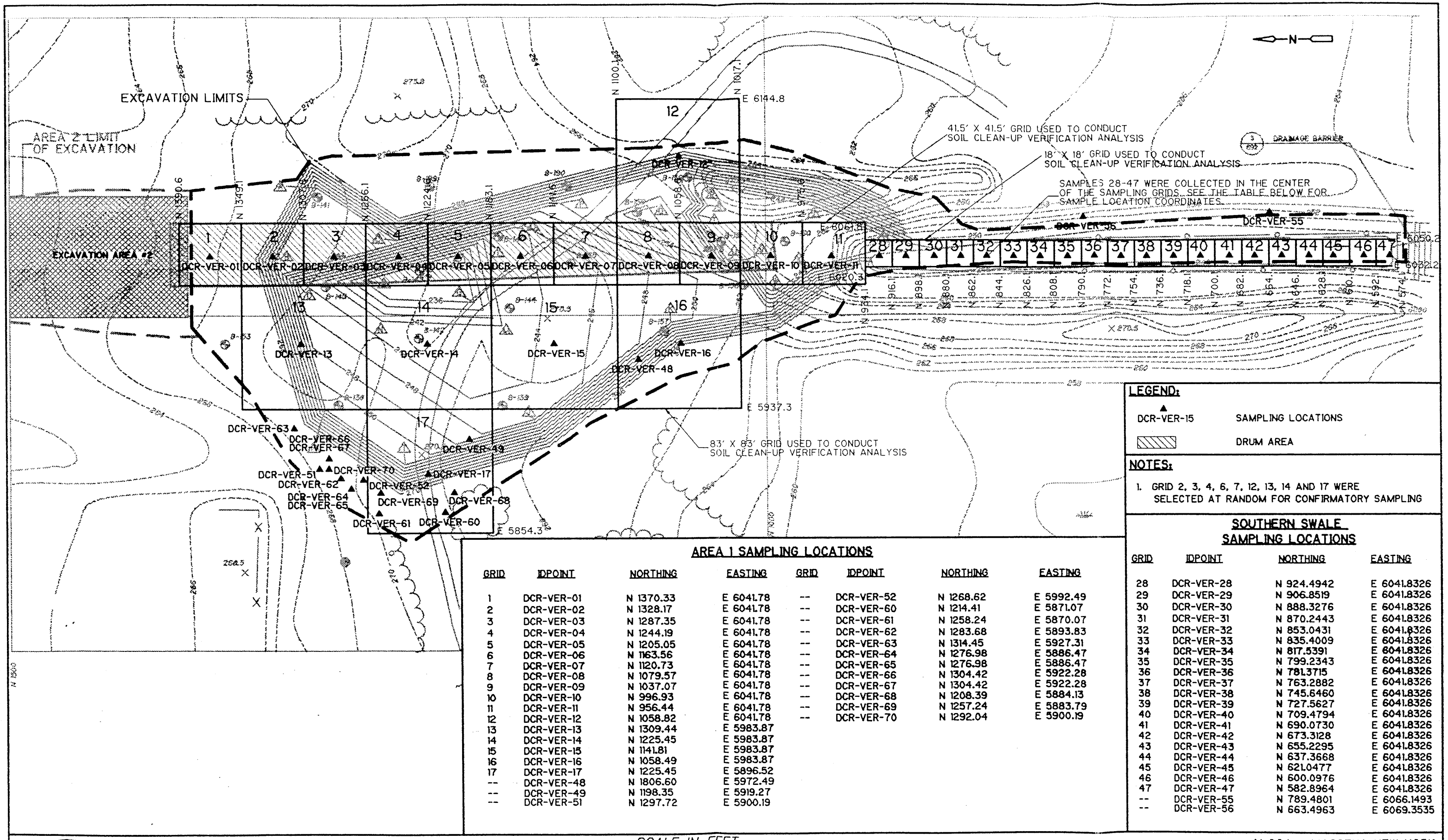
The contaminants of concern in DCR soils are PCBs, PAHs and VOCs. The cleanup goals established in the March 1991 Record of Decision (ROD) for the remediated DCR site are:

| Constituent | Soil Cleanup Goal |
|---|---|
| Total PCBs | 1 mg/kg |
| Phenanthrene | 2.2 mg/kg |
| Pyrene | 6.6 mg/kg |
| Other PAHs | 0.3 mg/kg |
| 1,1,1 Trichloroethane | 0.76 mg/kg |
| Benzene | 0.04 mg/kg |
| Tetrachloroethene | 0.02 mg/kg |
| Trichloroethene | 0.13 mg/kg |
| Toluene | 0.15 mg/kg |
| Total Xylene | 0.12 mg/kg |

The objective of post-excavation sampling was to statistically demonstrate that the total PCB, PAH and VOC concentrations in the residual soils are at or below the ROD specified cleanup goals.

## 2.3 Conformance with the Work Plan

Field activities were completed in general accordance with the approved work plan. The following paragraphs discuss any variations.




## AREA 1 SAMPLING LOCATIONS

| GRID | IDPOINT | NORTHING | EASTING | GRID | IDPOINT | NORTHING | EASTING |
|---|---|---|---|---|---|---|---|
| 1 | DCR-VER-01 | N 1370.33 | E 6041.78 | -- | DCR-VER-52 | N 1268.62 | E 5992.49 |
| 2 | DCR-VER-02 | N 1328.17 | E 6041.78 | -- | DCR-VER-60 | N 1214.41 | E 5871.07 |
| 3 | DCR-VER-03 | N 1287.35 | E 6041.78 | -- | DCR-VER-61 | N 1258.24 | E 5870.07 |
| 4 | DCR-VER-04 | N 1244.19 | E 6041.78 | -- | DCR-VER-62 | N 1283.68 | E 5893.83 |
| 5 | DCR-VER-05 | N 1205.05 | E 6041.78 | -- | DCR-VER-63 | N 1314.45 | E 5927.31 |
| 6 | DCR-VER-06 | N 1163.56 | E 6041.78 | -- | DCR-VER-64 | N 1276.98 | E 5886.47 |
| 7 | DCR-VER-07 | N 1120.73 | E 6041.78 | -- | DCR-VER-65 | N 1276.98 | E 5886.47 |
| 8 | DCR-VER-08 | N 1079.57 | E 6041.78 | -- | DCR-VER-66 | N 1304.42 | E 5922.28 |
| 9 | DCR-VER-09 | N 1037.07 | E 6041.78 | -- | DCR-VER-67 | N 1304.42 | E 5922.28 |
| 10 | DCR-VER-10 | N 996.93 | E 6041.78 | -- | DCR-VER-68 | N 1208.39 | E 5884.13 |
| 11 | DCR-VER-11 | N 956.44 | E 6041.78 | -- | DCR-VER-69 | N 1257.24 | E 5883.79 |
| 12 | DCR-VER-12 | N 1058.82 | E 6041.78 | -- | DCR-VER-70 | N 1292.04 | E 5900.19 |
| 13 | DCR-VER-13 | N 1309.44 | E 5983.87 | | | | |
| 14 | DCR-VER-14 | N 1225.45 | E 5983.87 | | | | |
| 15 | DCR-VER-15 | N 1141.81 | E 5983.87 | | | | |
| 16 | DCR-VER-16 | N 1058.49 | E 5983.87 | | | | |
| 17 | DCR-VER-17 | N 1225.45 | E 5896.52 | | | | |
| -- | DCR-VER-48 | N 1806.60 | E 5972.49 | | | | |
| -- | DCR-VER-49 | N 1198.35 | E 5919.27 | | | | |
| -- | DCR-VER-51 | N 1297.72 | E 5900.19 | | | | |

**LEGEND:**

DCR-VER-15 ▲ SAMPLING LOCATIONS

DRUM AREA

**NOTES:**

1. GRID 2, 3, 4, 6, 7, 12, 13, 14 AND 17 WERE SELECTED AT RANDOM FOR CONFIRMATORY SAMPLING

## SOUTHERN SWALE SAMPLING LOCATIONS

| GRID | IDPOINT | NORTHING | EASTING |
|---|---|---|---|
| 28 | DCR-VER-28 | N 924.4942 | E 6041.8326 |
| 29 | DCR-VER-29 | N 906.8519 | E 6041.8326 |
| 30 | DCR-VER-30 | N 888.3276 | E 6041.8326 |
| 31 | DCR-VER-31 | N 870.2443 | E 6041.8326 |
| 32 | DCR-VER-32 | N 853.0431 | E 6041.8326 |
| 33 | DCR-VER-33 | N 835.4009 | E 6041.8326 |
| 34 | DCR-VER-34 | N 817.5391 | E 6041.8326 |
| 35 | DCR-VER-35 | N 799.2343 | E 6041.8326 |
| 36 | DCR-VER-36 | N 781.3715 | E 6041.8326 |
| 37 | DCR-VER-37 | N 763.2882 | E 6041.8326 |
| 38 | DCR-VER-38 | N 745.6460 | E 6041.8326 |
| 39 | DCR-VER-39 | N 727.5627 | E 6041.8326 |
| 40 | DCR-VER-40 | N 709.4794 | E 6041.8326 |
| 41 | DCR-VER-41 | N 690.0730 | E 6041.8326 |
| 42 | DCR-VER-42 | N 673.3128 | E 6041.8326 |
| 43 | DCR-VER-43 | N 655.2295 | E 6041.8326 |
| 44 | DCR-VER-44 | N 637.3668 | E 6041.8326 |
| 45 | DCR-VER-45 | N 621.0477 | E 6041.8326 |
| 46 | DCR-VER-46 | N 600.0976 | E 6041.8326 |
| 47 | DCR-VER-47 | N 582.8964 | E 6041.8326 |
| -- | DCR-VER-55 | N 789.4801 | E 6066.1493 |
| -- | DCR-VER-56 | N 663.4963 | E 6069.3535 |

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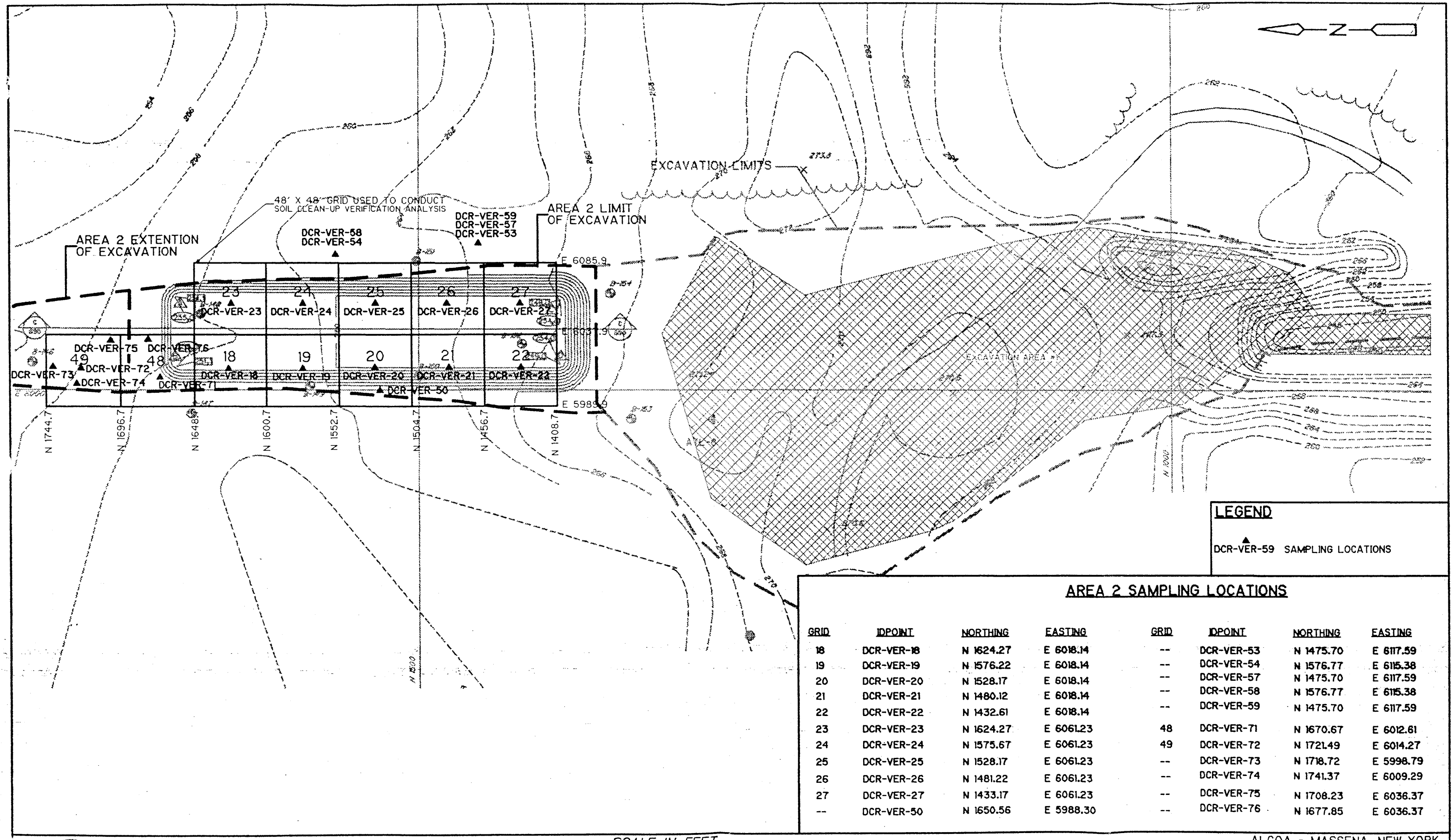
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# DENNISON CROSS ROAD SITE SAMPLING LOCATION PLAN AREA 1 AND THE SOUTHERN SWALE

FIGURE 2-1



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## LEGEND

▲ DCR-VER-59 SAMPLING LOCATIONS

## AREA 2 SAMPLING LOCATIONS

| GRID | IDPOINT | NORTHING | EASTING | GRID | IDPOINT | NORTHING | EASTING |
|---|---|---|---|---|---|---|---|
| 18 | DCR-VER-18 | N 1624.27 | E 6018.14 | -- | DCR-VER-53 | N 1475.70 | E 6117.59 |
| 19 | DCR-VER-19 | N 1576.22 | E 6018.14 | -- | DCR-VER-54 | N 1576.77 | E 6115.38 |
| 20 | DCR-VER-20 | N 1528.17 | E 6018.14 | -- | DCR-VER-57 | N 1475.70 | E 6117.59 |
| 21 | DCR-VER-21 | N 1480.12 | E 6018.14 | -- | DCR-VER-58 | N 1576.77 | E 6115.38 |
| 22 | DCR-VER-22 | N 1432.61 | E 6018.14 | -- | DCR-VER-59 | N 1475.70 | E 6117.59 |
| 23 | DCR-VER-23 | N 1624.27 | E 6061.23 | 48 | DCR-VER-71 | N 1670.67 | E 6012.61 |
| 24 | DCR-VER-24 | N 1575.67 | E 6061.23 | 49 | DCR-VER-72 | N 1721.49 | E 6014.27 |
| 25 | DCR-VER-25 | N 1528.17 | E 6061.23 | -- | DCR-VER-73 | N 1718.72 | E 5998.79 |
| 26 | DCR-VER-26 | N 1481.22 | E 6061.23 | -- | DCR-VER-74 | N 1741.37 | E 6009.29 |
| 27 | DCR-VER-27 | N 1433.17 | E 6061.23 | -- | DCR-VER-75 | N 1708.23 | E 6036.37 |
| -- | DCR-VER-50 | N 1650.56 | E 5988.30 | -- | DCR-VER-76 | N 1677.85 | E 6036.37 |

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# DENNISON CROSS ROAD SITE SAMPLING LOCATION PLAN AREA 2

FIGURE 2-2



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## Area 1

According to the work plan, samples were to be collected with a steel bowl and spoon. Since Area 1 was to be sampled for VOC laboratory analysis, the *Quality Assurance Project Plan* (QAPP) (CDM, July 1995) states that a hand auger must be used to collect samples designated for volatile analysis. Therefore a hand auger was used to collect all samples from Area 1.

If the field screening result for a sample was greater than 1 mg/kg total PCBs, or 5 ppm total organic vapors, the work plan indicates that a second sample would be collected from the same location, 6 inches deeper than the original sample. Additional excavation would be performed until the field screening results were below the soil cleanup goals. A split sample would then be collected from this post-excavation surface and sent to the laboratory for PCB, PAH and VOC analysis. In Area 1, 9 sampling grids (grids 4, 5, 7, 8, 9, 13, 14, 16 and 17) contained greater than 1 mg/kg PCBs and 4 sampling grids (grids 2, 4, 5 and 7) contained greater than 5 ppm total organic vapors, according to the field screen procedures. Due to the proximity of the field screening results to the cleanup goal, all samples were sent to the laboratory for analysis.

Subsequent laboratory analysis showed that grids 13 and 14 contained less than 1 mg/kg PCBs and grids 4 and 7 met the ROD specified VOC cleanup goals. The seven remaining grids that contained total PCB concentrations above 1 mg/kg and the 2 remaining grids that contained a VOC concentration above cleanup goals were excavated an additional 12-to 18-inches. Additional excavation and field screening were performed until the final excavation surface met the soil cleanup goals.

The NYSDEC onsite representative requested that additional field screening samples be collected from areas not specified in the work plan. In Area 1, two samples collected from the shelf adjacent to the decon pad (DCR-VER-51 and DCR-VER-52) contained greater than 1 mg/kg PCBs. Additional excavation and field screening were performed until the final excavation surface met the soil cleanup goals.

Any modifications to the sampling and analysis work were discussed and agreed upon with the onsite NYSDEC representative.

## Area 2

According to the work plan, samples were to be collected with a steel bowl and spoon. Since Area 2 was to be sampled for VOC laboratory analysis, the QAPP states that a hand auger must be used to collect samples designated for volatile analysis. Therefore a hand auger was used to collect all samples from Area 2.

If the field screening result for a sample was greater than 1 mg/kg total PCBs, or 5 ppm total organic vapors, the work plan indicates that a second sample would be collected from the same location, 6 inches deeper than the original sample. Additional excavation would be performed until the field screening results were below the soil cleanup goals. A split sample would then be collected from this post-excavation surface and sent to the laboratory for PCB, PAH and VOC analysis. In Area 2, 5 sampling grids (grids 18, 21, 22, 24 and 27) contained greater than 5 ppm total organic vapors, according to the field screen procedures. Due to the proximity of the field screening results to the cleanup goal, all samples were sent to the laboratory for analysis.

Subsequent laboratory analysis showed that all five grids met the ROD specified VOC cleanup goals. No additional excavation or field screening were required.

The NYSDEC onsite representative requested that additional field screening samples be collected from areas not specified in the work plan. In Area 2, two samples collected from the loading area (DCR-VER-53 and DCR-VER-54) contained greater than 1 mg/kg PCBs. Additional excavation and field screening were performed until the final excavation surface met the soil cleanup goals.

Any modifications to the sampling and analysis work were discussed and agreed upon with the onsite NYSDEC representative.

## Southern Swale

All sampling and analysis work was performed according to the proposed work plan.

## Additional Cleanup Verification Sampling

Outlying areas surrounding Area 1, Area 2 and the southern swale were field screened for PCBs to assess whether the areas contained residual contamination as a result of construction activities. These areas included the roll-off staging area, drum shredding area, decon pad, modular tank pad, overpack staging area, trailer parking area and service roads. The results of this verification sampling program were submitted under separate cover in the *Demobilization Sampling and Analysis Plan* (CDM, December 1995).

# Section 3
# Sampling Results

Samples required by the cleanup verification work plan were collected and analyzed as construction progressed. Soil samples were collected from all forty-nine sampling grids for field screening and from forty-one sampling grids for laboratory analysis. After soil samples were taken, the contractor took measures to ensure recontamination did not occur.

The following terminology will be used throughout the remainder of this report. The term "cleanup verification" refers to a sample which was field screened and then analyzed by the laboratory to determine if the remediated area achieved cleanup standards as required by the work plan. "Contingency sample" refers to a sample which was field screened and laboratory analyzed in addition to the samples required as part of the work plan. "PCB/VOC screen" refers to a sample that is field screened for PCBs and total organic vapors but not analyzed by laboratory procedures. "PCB screen" refers to a sample that was field screened for PCBs after the additional excavation in Areas 1 and 2 to confirm that the residual soil concentration was below 1 mg/kg total PCBs. "Immunoassay confirmation" refers to a sample that was laboratory analyzed for PCBs to confirm the results of the "PCB screen" samples. "Field duplicate" refers to a duplicate sample that was analyzed by the laboratory. "Rinsate blank" is a sample of deionized water that has been rinsed over the field decontaminated sampling equipment to detect any cross-contamination between samples. "Water field blank" is a deionized water sample that is transferred from one container to another in the field to detect any environmental contamination that may occur during the sample collection process.

## 3.1 Sample Collection Procedures

Prior to excavation, a survey control was established by Morrison Knudsen Environmental (MKE) to lay out the excavation limits and the center of the sampling grids.

Typically, the following standard sequence of events were followed. First, the contractor would excavate to grade. The Construction Quality Assurance Inspector (CQAI) would then verify that the excavation grade had been reached and inform Field Engineering (FE) that the grid was ready for cleanup verification sampling. FE would then collect the cleanup verification samples from the 3-to 12-inch interval below the excavated surface. Once collected, the samples were field screened by immunoassay and jar headspace procedures and then the cleanup verification and contingency samples were sent to the offsite laboratory for analysis.

All sampling equipment was decontaminated by CDM personnel in the designated decon area using a detergent wash, tap water rinse, methanol rinse, followed by a deionized water rinse. To ensure the decontamination procedure was effective, rinsate blanks were taken from the sampling equipment used to collect the laboratory cleanup verification samples.

Decontamination water and solvents were drummed, labeled and properly disposed of by Alcoa following their standard site procedures.

## 3.2 Analytical Protocols

The analytical protocols outlined in Section 3.2.4 in the *Soil Cleanup Verification Plan for the Dennison Cross Road Site* (CDM, Revised October 1995) were followed. All samples were analyzed for PCBs using an EnSys Samplepro PCB immunoassay test kit (Method 4020). A field screen for total organic vapors using a photoionization detector (PID) with a 11.8 ev ionization lamp was performed in accordance with the QAPP. Appendix A presents a summary of the field screening results.

All cleanup verification and contingency samples were analyzed using Superfund Contract Laboratory Procedures (CLP) for VOCs (Areas 1 and 2), PAHs and PCBs by New York State CLP methods 91-1, 91-2 and 91-3 respectively, in compliance with the 1991 NYSDEC Analytical Services Protocol (ASP) CLP technical requirements and deliverables. RECRA Environmental, Inc., a certified New York State Department of Health (NYSDOH) Environmental Laboratory Approved Program (ELAP) CLP laboratory was employed for the analysis. Appendix B presents seven RECRA CLP reports with SDG numbers VER2D, VER23, VER37, VER02C, VER26, VER05 and CRVER dated September 29, September 29, September 29, October 2, October 2, October 26, and November 11, 1995, respectively. The laboratory data for the DCR cleanup verification samples, were validated by Gradient Corporation. The validation results are discussed in Section 3.4 and copies of the validation reports are included in Appendix C.

Copies of the Chain of Custody (COC) forms, showing that the laboratory received the samples within two days of sampling, are included in the CLP reports. The validation report contains a table that reports the Verified Time of Sample Receipt (VTSR), extraction start and completion dates and analysis date for each sample.

## 3.3 Field Screening and Laboratory Results

The DCR site was excavated in portions, beginning with Area 1 and the southern swale then moving to the Area 2 excavation. Because the excavation was done in portions, the cleanup verification samples were collected on several different days. All samples required by the work plan and requested by the onsite NYSDEC representative were collected on September 1, 14, 18, 19, 20, 21, 25, 26 and 27, 1995 and October 12, 1995.

Three contingency samples were collected from Area 1 and Area 2 (DCR-VER-48 through DCR-VER-50) as requested by the onsite NYSDEC representative. The NYSDEC also requested

additional field screen samples from the loading areas, decon pad and excavation sideslopes (DCR-VER-51 through DCR-VER-56 and DCR-VER-73 through DCR-VER-76) from all three excavation areas.

Table 3-1 provides a summary of the sampling and field screening that was completed as part of the cleanup verification program. The laboratory results of the cleanup verification and contingency samples are summarized in Tables 3-2, 3-3 and 3-4.

### *3.3.1 Sampling Day September 1, 1995*

Excavation was performed to grade in a majority of Area 1, Area 2 and the southern swale. Completed grid blocks were sampled along with three contingency samples and six field screen samples requested by the onsite NYSDEC representative.

The following samples were collected:

| Area | Grid Number | Sample Number | Remarks |
|---|---|---|---|
| Area 1 | 2 | DCR-VER-02 | Cleanup verification |
| | | MW-546-01 | Rinsate blank |
| | | MW-546-03 | Field blank |
| | 3 | DCR-VER-03 | Cleanup verification |
| | | DCR-VER-200 | Field duplicate |
| | 4 | DCR-VER-04 | Cleanup verification |
| | 5 | DCR-VER-05 | PCB/VOC screen |
| | 6 | DCR-VER-06 | Cleanup verification |
| | 7 | DCR-VER-07 | Cleanup verification |
| | 8 | DCR-VER-08 | PCB/VOC screen |
| | 9 | DCR-VER-09 | PCB/VOC screen |
| | 10 | DCR-VER-10 | PCB/VOC screen |
| | 11 | DCR-VER-11 | PCB/VOC screen |
| | 12 | DCR-VER-12 | Cleanup verification |
| | 13 | DCR-VER-13 | Cleanup verification |
| | 14 | DCR-VER-14 | Cleanup verification |
| | 15 | DCR-VER-15 | PCB/VOC screen |

ALCOA REMEDIATION PROJECTS ORGANIZATION
DENNISON CROSS ROAD SITE
CLEANUP VERIFICATION SAMPLING AND ANALYSIS REPORT

**Table 3-1**

**Summary of Cleanup Verification Samples**

| Sample Number [1] | Sampling Area | Grid Number | Date Sampled | Sample Media | PCB Immunoassay Result [2] | VOC Jar Headspace Result [3] | Final Excavation Samples (Yes/No) | Sample Analysis [4] | Sample Reference |
|---|---|---|---|---|---|---|---|---|---|
| DCR-VER-01 | Area 1 | 1 | 9/27/95 | Soil | < 1 mg/kg | ND | Yes | PCB/VOC field screen | PCB VOC screen |
| DCR-VER-02 | Area 1 | 2 | 9/1/95 | Soil | < 1 mg/kg | 432 ppm | Yes | PCB, PAH, VOC | Cleanup verification |
| DCR-VER-03 | Area 1 | 3 | 9/1/95 | Soil | < 1 mg/kg | 2 ppm | Yes | PCB, PAH, VOC | Cleanup verification |
| DCR-VER-04 | Area 1 | 4 | 9/1/95 | Soil | > 1 mg/kg | 16 ppm | No, see DCR-VER-04-02 | PCB, PAH, VOC | Cleanup verification |
| DCR-VER-04-02 | Area 1 | 4 | 9/21/95 | Soil | > 1 mg/kg | --- | Yes | PCB field screen | PCB screen |
| DCR-VER-05 | Area 1 | 5 | 9/1/95 | Soil | > 1 mg/kg | 13 ppm | No, see DCR-VER-05-03 | PCB/VOC field screen | PCB VOC screen |
| DCR-VER-05-02 | Area 1 | 5 | 9/21/95 | Soil | > 1 mg/kg | --- | No, see DCR-VER-05-03 | PCB field screen | PCB screen |
| DCR-VER-05-03 | Area 1 | 5 | 9/25/95 | Soil | < 1 mg/kg | --- | Yes | PCB | Immunoassay confirmation |
| DCR-VER-06 | Area 1 | 6 | 9/1/95 | Soil | < 1 mg/kg | ND | Yes | PCB, PAH, VOC | Cleanup verification |
| DCR-VER-07 | Area 1 | 7 | 9/1/95 | Soil | > 1 mg/kg | 123 ppm | No, see DCR-VER-07-03 | PCB, PAH, VOC | Cleanup verification |
| DCR-VER-07-02 | Area 1 | 7 | 9/21/95 | Soil | > 1 mg/kg | --- | No, see DCR-VER-07-03 | PCB field screen | PCB screen |
| DCR-VER-07-03 | Area 1 | 7 | 9/25/95 | Soil | < 1 mg/kg | --- | Yes | PCB field screen | PCB screen |
| DCR-VER-08 | Area 1 | 8 | 9/1/95 | Soil | > 1 mg/kg | 2 ppm | No, see DCR-VER-08-02 | PCB/VOC field screen | PCB VOC screen |
| DCR-VER-08-02 | Area 1 | 8 | 9/21/95 | Soil | < 1 mg/kg | --- | Yes | PCB field screen | PCB screen |
| DCR-VER-09 | Area 1 | 9 | 9/1/95 | Soil | > 1 mg/kg | ND | No, see DCR-VER-09-03 | PCB/VOC field screen | PCB VOC screen |

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Table 3-1 *(Continued)*

Summary of Cleanup Verification Samples

| Sample Number [1] | Sampling Area | Grid Number | Date Sampled | Sample Media | PCB Immunoassay Result [2] | VOC Jar Headspace Result [3] | Final Excavation Samples (Yes/No) | Sample Analysis [4] | Sample Reference |
|---|---|---|---|---|---|---|---|---|---|
| DCR-VER-09-02 | Area 1 | 9 | 9/21/95 | Soil | > 1 mg/kg | --- | No, see DCR-VER-09-03 | PCB field screen | PCB screen |
| DCR-VER-09-03 | Area 1 | 9 | 9/25/95 | Soil | < 1 mg/kg | --- | Yes | PCB field screen | PCB screen |
| DCR-VER-10 | Area 1 | 10 | 9/1/95 | Soil | < 1 mg/kg | ND | Yes | PCB/VOC field screen | PCB VOC screen |
| DCR-VER-11 | Area 1 | 11 | 9/1/95 | Soil | < 1 mg/kg | ND | Yes | PCB/VOC field screen | PCB VOC screen |
| DCR-VER-12 | Area 1 | 12 | 9/1/95 | Soil | < 1 mg/kg | 2 ppm | Yes | PCB, PAH, VOC | Cleanup verification |
| DCR-VER-13 | Area 1 | 13 | 9/1/95 | Soil | > 1 mg/kg | 2 ppm | Yes | PCB, PAH, VOC | Cleanup verification |
| DCR-VER-14 | Area 1 | 14 | 9/1/95 | Soil | > 1 mg/kg | ND | Yes | PCB, PAH, VOC | Cleanup verification |
| DCR-VER-15 | Area 1 | 15 | 9/1/95 | Soil | < 1 mg/kg | ND | Yes | PCB VOC field screen | PCB VOC screen |
| DCR-VER-16 | Area 1 | 16 | 9/1/95 | Soil | > 1 mg/kg | ND | No, see DCR-VER-16-02 | PCB/VOC field screen | PCB VOC screen |
| DCR-VER-16-02 | Area 1 | 16 | 9/25/95 | Soil | < 1 mg/kg | --- | Yes | PCB field screen | PCB screen |
| DCR-VER-17 | Area 1 | 17 | 9/1/95 | Soil | > 1 mg/kg | ND | No, see DCR-VER-17-02 | PCB, PAH, VOC | Cleanup verification |
| DCR-VER-17-02 | Area 1 | 17 | 9/21/95 | Soil | < 1 mg/kg | --- | Yes | PCB field screen | PCB screen |
| DCR-VER-18 | Area 2 | 18 | 9/1/95 | Soil | < 1 mg/kg | 5.2 ppm | Yes | PCB, PAH, VOC | Cleanup verification |
| DCR-VER-19 | Area 2 | 19 | 9/1/95 | Soil | < 1 mg/kg | 2 ppm | Yes | PCB, PAH, VOC | Cleanup verification |
| DCR-VER-20 | Area 2 | 20 | 9/1/95 | Soil | < 1 mg/kg | ND | Yes | PCB, PAH, VOC | Cleanup verification |

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Table 3-1 *(Continued)*

Summary of Cleanup Verification Samples

| Sample Number [1] | Sampling Area | Grid Number | Date Sampled | Sample Media | PCB Immunoassay Result [2] | VOC Jar Headspace Result [3] | Final Excavation Samples (Yes/No) | Sample Analysis [4] | Sample Reference |
|---|---|---|---|---|---|---|---|---|---|
| DCR-VER-21 | Area 2 | 21 | 9/1/95 | Soil | < 1 mg/kg | 45 ppm | Yes | PCB, PAH, VOC | Cleanup verification |
| DCR-VER-22 | Area 2 | 22 | 9/1/95 | Soil | < 1 mg/kg | 6 ppm | Yes | PCB, PAH, VOC | Cleanup verification |
| DCR-VER-23 | Area 2 | 23 | 9/1/95 | Soil | < 1 mg/kg | ND | Yes | PCB, PAH, VOC | Cleanup verification |
| DCR-VER-24 | Area 2 | 24 | 9/1/95 | Soil | < 1 mg/kg | 32 ppm | Yes | PCB, PAH, VOC | Cleanup verification |
| DCR-VER-25 | Area 2 | 25 | 9/1/95 | Soil | < 1 mg/kg | 2 ppm | Yes | PCB, PAH, VOC | Cleanup verification |
| DCR-VER-26 | Area 2 | 26 | 9/1/95 | Soil | < 1 mg/kg | ND | Yes | PCB, PAH, VOC | Cleanup verification |
| DCR-VER-27 | Area 2 | 27 | 9/1/95 | Soil | < 1 mg/kg | 16 ppm | Yes | PCB, PAH, VOC | Cleanup verification |
| DCR-VER-28 | Southern Swale | 28 | 9/1/95 | Soil | < 1 mg/kg | --- | Yes | PCB, PAH | Cleanup verification |
| DCR-VER-29 | Southern Swale | 29 | 9/1/95 | Soil | < 1 mg/kg | --- | Yes | PCB, PAH | Cleanup verification |
| DCR-VER-30 | Southern Swale | 30 | 9/1/95 | Soil | < 1 mg/kg | --- | Yes | PCB, PAH | Cleanup verification |
| DCR-VER-31 | Southern Swale | 31 | 9/1/95 | Soil | < 1 mg/kg | --- | Yes | PCB, PAH | Cleanup verification |
| DCR-VER-32 | Southern Swale | 32 | 9/1/95 | Soil | < 1 mg/kg | --- | Yes | PCB, PAH | Cleanup verification |

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Table 3-1 *(Continued)*

Summary of Cleanup Verification Samples

| Sample Number [1] | Sampling Area | Grid Number | Date Sampled | Sample Media | PCB Immunoassay Result [2] | VOC Jar Headspace Result [3] | Final Excavation Samples (Yes/No) | Sample Analysis [4] | Sample Reference |
|---|---|---|---|---|---|---|---|---|---|
| DCR-VER-33 | Southern Swale | 33 | 9/1/95 | Soil | < 1 mg/kg | --- | Yes | PCB, PAH | Cleanup verification |
| DCR-VER-34 | Southern Swale | 34 | 9/1/95 | Soil | < 1 mg/kg | --- | Yes | PCB, PAH | Cleanup verification |
| DCR-VER-35 | Southern Swale | 35 | 9/1/95 | Soil | < 1 mg/kg | --- | Yes | PCB, PAH | Cleanup verification |
| DCR-VER-36 | Southern Swale | 36 | 9/1/95 | Soil | < 1 mg/kg | --- | Yes | PCB, PAH | Cleanup verification |
| DCR-VER-37 | Southern Swale | 37 | 9/1/95 | Soil | < 1 mg/kg | --- | Yes | PCB, PAH | Cleanup verification |
| DCR-VER-38 | Southern Swale | 38 | 9/1/95 | Soil | < 1 mg/kg | --- | Yes | PCB, PAH | Cleanup verification |
| DCR-VER-39 | Southern Swale | 39 | 9/1/95 | Soil | < 1 mg/kg | --- | Yes | PCB, PAH | Cleanup verification |
| DCR-VER-40 | Southern Swale | 40 | 9/1/95 | Soil | < 1 mg/kg | --- | Yes | PCB, PAH | Cleanup verification |
| DCR-VER-41 | Southern Swale | 41 | 9/1/95 | Soil | < 1 mg/kg | --- | Yes | PCB, PAH | Cleanup verification |
| DCR-VER-42 | Southern Swale | 42 | 9/1/95 | Soil | < 1 mg/kg | --- | Yes | PCB, PAH | Cleanup verification |
| DCR-VER-43 | Southern Swale | 43 | 9/1/95 | Soil | < 1 mg/kg | --- | Yes | PCB, PAH | Cleanup verification |
| DCR-VER-44 | Southern Swale | 44 | 9/1/95 | Soil | < 1 mg/kg | --- | Yes | PCB, PAH | Cleanup verification |
| DCR-VER-45 | Southern Swale | 45 | 9/1/95 | Soil | < 1 mg/kg | --- | Yes | PCB, PAH | Cleanup verification |

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Table 3-1 *(Continued)*

Summary of Cleanup Verification Samples

| Sample Number [1] | Sampling Area | Grid Number | Date Sampled | Sample Media | PCB Immunoassay Result [2] | VOC Jar Headspace Result [3] | Final Excavation Samples (Yes/No) | Sample Analysis [4] | Sample Reference |
|---|---|---|---|---|---|---|---|---|---|
| DCR-VER-46 | Southern Swale | 46 | 9/26/95 | Soil | < 1 mg/kg | --- | Yes | PCB, PAH | Cleanup verification |
| DCR-VER-47 | Southern Swale | 47 | 9/26/95 | Soil | < 1 mg/kg | --- | Yes | PCB, PAH | Cleanup verification |
| DCR-VER-48 | Area 1 sideslope | --- | 9/1/95 | Soil | < 1 mg/kg | ND | Yes | PCB, PAH, VOC | Contingency sample |
| DCR-VER-49 | Area 1 sideslope | --- | 9/1/95 | Soil | < 1 mg/kg | ND | Yes | PCB, PAH, VOC | Contingency sample |
| DCR-VER-50 | Area 2 sideslope | --- | 9/1/95 | Soil | < 1 mg/kg | 2 ppm | Yes | PCB, PAH, VOC | Contingency sample |
| DCR-VER-51 | Area 1 shelf | --- | 9/1/95 | Soil | > 1 mg/kg | 2 ppm | No, see DCR-VER-70 | PCB/VOC field screen | PCB VOC screen |
| DCR-VER-52 | Area 1 shelf | --- | 9/1/95 | Soil | > 1 mg/kg | 2 ppm | No, see DCR-VER-69 | PCB/VOC field screen | PCB VOC screen |
| DCR-VER-53 | Area 2 loading area | --- | 9/1/95 | Soil | > 1 mg/kg | ND | No, see DCR-VER-59 | PCB/VOC field screen | PCB VOC screen |
| DCR-VER-54 | Area 2 loading area | --- | 9/1/95 | Soil | > 1 mg/kg | ND | No, see DCR-VER-58 | PCB/VOC field screen | PCB VOC screen |
| DCR-VER-55 | Southern Swale loading area | --- | 9/1/95 | Soil | < 1 mg/kg | --- | Yes | PCB field screen | PCB screen |
| DCR-VER-56 | Southern Swale loading area | --- | 9/1/95 | Soil | < 1 mg/kg | --- | Yes | PCB field screen | PCB screen |
| DCR-VER-57 | Area 2 loading area | --- | 9/14/95 | Soil | > 1 mg/kg | --- | No, see DCR-VER-59 | PCB field screen | PCB screen |
| DCR-VER-58 | Area 2 loading area | --- | 9/14/95 | Soil | < 1 mg/kg | --- | Yes | PCB field screen | PCB screen |

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Table 3-1 *(Continued)*

Summary of Cleanup Verification Samples

| Sample Number [1] | Sampling Area | Grid Number | Date Sampled | Sample Media | PCB Immunoassay Result [2] | VOC Jar Headspace Result [3] | Final Excavation Samples (Yes/No) | Sample Analysis [4] | Sample Reference |
|---|---|---|---|---|---|---|---|---|---|
| DCR-VER-59 | Area 2 loading area | --- | 9/18/95 | Soil | < 1 mg/kg | --- | Yes | PCB field screen | PCB screen |
| DCR-VER-60 | Area 1 shelf | --- | 9/19/95 | Soil | > 1 mg/kg | --- | No, see DCR-VER-68 | PCB field screen | PCB screen |
| DCR-VER-61 | Area 1 shelf | --- | 9/19/95 | Soil | > 1 mg/kg | --- | No, see DCR-VER-69 | PCB field screen | PCB screen |
| DCR-VER-62 | Area 1 shelf | --- | 9/19/95 | Soil | > 1 mg/kg | --- | No, see DCR-VER-70 | PCB field screen | PCB screen |
| DCR-VER-63 | Area 1 shelf | --- | 9/19/95 | Soil | < 1 mg/kg | --- | Yes | PCB field screen | PCB screen |
| DCR-VER-64 | Area 1 shelf | --- | 9/20/95 | Soil | > 1 mg/kg | --- | No, see DCR-VER-70 | PCB field screen | PCB screen |
| DCR-VER-65 | Area 1 shelf | --- | 9/20/95 | Soil | > 1 mg/kg | --- | No, see DCR-VER-70 | PCB field screen | PCB screen |
| DCR-VER-66 | Area 1 shelf | --- | 9/20/95 | Soil | < 1 mg/kg | --- | Yes | PCB field screen | PCB screen |
| DCR-VER-67 | Area 1 shelf | --- | 9/20/95 | Soil | > 1 mg/kg | --- | No, see DCR-VER-70 | PCB field screen | PCB screen |
| DCR-VER-68 | Area 1 shelf | --- | 9/21/95 | Soil | < 1 mg/kg | --- | Yes | PCB field screen | PCB screen |
| DCR-VER-69 | Area 1 shelf | --- | 9/21/95 | Soil | < 1 mg/kg | --- | Yes | PCB field screen | PCB screen |
| DCR-VER-70 | Area 1 shelf | --- | 9/21/95 | Soil | < 1 mg/kg | --- | Yes | PCB field screen | PCB screen |
| DCR-VER-71 | Area 2 | 48 | 10/12/95 | Soil | < 1 mg/kg | 3 ppm | Yes | PCB, PAH, VOC | Cleanup verification |

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Table 3-1 *(Continued)*

Summary of Cleanup Verification Samples

| Sample Number [1] | Sampling Area | Grid Number | Date Sampled | Sample Media | PCB Immunoassay Result [2] | VOC Jar Headspace Result [3] | Final Excavation Samples (Yes/No) | Sample Analysis [4] | Sample Reference |
|---|---|---|---|---|---|---|---|---|---|
| DCR-VER-72 | Area 2 | 49 | 10/12/95 | Soil | < 1 mg/kg | 1 ppm | Yes | PCB, PAH, VOC | Cleanup verification |
| DCR-VER-73 | Area 2 sideslope | --- | 10/12/95 | Soil | < 1 mg/kg | 1 ppm | Yes | PCB VOC field screen | PCB VOC screen |
| DCR-VER-74 | Area 2 sideslope | --- | 10/12/95 | Soil | < 1 mg/kg | ND | Yes | PCB/VOC field screen | PCB VOC screen |
| DCR-VER-75 | Area 2 sideslope | --- | 10/12/95 | Soil | < 1 mg/kg | ND | Yes | PCB/VOC field screen | PCB VOC screen |
| DCR-VER-76 | Area 2 sideslope | --- | 10/12/95 | Soil | < 1 mg/kg | ND | Yes | PCB/VOC field screen | PCB VOC screen |
| DCR-VER-200 | Area 1 | 3 | 9/1/95 | Soil | < 1 mg/kg | ND | - - - | PCB, PAH, VOC | Field duplicate of DCR-VER-03 |
| DCR-VER-201 | Area 2 | 18 | 9/1/95 | Soil | < 1 mg/kg | ND | - - - | PCB, PAH, VOC | Field duplicate of DCR-VER-18 |
| DCR-VER-202 | Southern Swale | 28 | 9/1/95 | Soil | < 1 mg/kg | --- | - - - | PCB, PAH | Field duplicate of DCR-VER-28 |
| MW-546-01 | Area 1 | 2 | 9/1/95 | Water | --- | --- | - - - | PCB, PAH, VOC | Rinsate blank for DCR-VER-02 |
| MW-546-02 | Area 2 | 18 | 9/1/95 | Water | --- | --- | - - - | PCB, PAH, VOC | Rinsate blank for DCR-VER-18 |
| MW-546-03 | Area 1 | --- | 9/1/95 | Water | --- | --- | - - - | PCB, PAH, VOC | Field blank |
| MW-546-04 | Southern Swale | 28 | 9/1/95 | Water | --- | --- | - - - | PCB, PAH | Rinsate blank for DCR-VER-28 |

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Table 3-1 *(Continued)*

Summary of Cleanup Verification Samples

| Sample Number [1] | Sampling Area | Grid Number | Date Sampled | Sample Media | PCB Immunoassay Result [2] | VOC Jar Headspace Result [3] | Final Excavation Samples (Yes/No) | Sample Analysis [4] | Sample Reference |
|---|---|---|---|---|---|---|---|---|---|
| MW-546-05 | Area 2 | --- | 9/1/95 | Water | --- | --- | - - - | PCB, PAH, VOC | Field blank |
| MW-546-06 | Area 1 | 5 | 9/25/95 | Water | --- | --- | - - - | PCB, PAH, VOC | Rinsate blank for DCR-VER-05-03 |
| MW-546-07 | Area 1 | --- | 9/25/95 | Water | --- | --- | - - - | PCB, PAH, VOC | Field blank |
| MW-546-08 | Southern Swale | 46 | 9/26/95 | Water | --- | --- | - - - | PCB, PAH | Rinsate blank for DCR-VER-46 |
| MW-546-09 | Area 2 | 48 | 10/12/95 | Water | --- | --- | - - - | PCB, PAH, VOC | Rinsate blank for DCR-VER-71 |

Notes:

[1] See Figure 2-1 and Figure 2-2 for sample locations.

[2] The immunoassay test kit used for the PCB analysis was the EnSys Samplepro PCB Test Kit.

[3] The VOC jar headspace analysis was performed with a 11.8 eV lamp PID in accordance with the QAPP.

[4] All samples were field screened by PCB/VOC screening techniques. See Tables 3-2, 3-3 and 3-4 for results of the samples sent for offsite laboratory analysis.

ND - Non-detect

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Table 3-4

Summary of Laboratory Results for the Southern Swale [1] [2]

| Sample Number | Total PCBs (mg/kg) | Phenanthrene (mg/kg) | Pyrene (mg/kg) | Other PAHs (mg/kg) |
|---|---|---|---|---|
| DCR-VER-28 | 0.011 J | 0.300 U | 0.300 U | 0.009 J |
| DCR-VER-29 | 0.007 JP | 0.300 U | 0.300 U | 0.300 U |
| DCR-VER-30 | 0.035 U | 0.300 U | 0.300 U | 0.006 J |
| DCR-VER-31 | 0.011 JP | 0.300 U | 0.300 U | 0.011 J |
| DCR-VER-32 | 0.012 JP | 0.300 U | 0.300 U | 0.012 J |
| DCR-VER-33 | 0.035 U | 0.300 U | 0.300 U | 0.012 J |
| DCR-VER-34 | 0.014 JP | 0.300 U | 0.300 U | 0.006 J |
| DCR-VER-35 | 0.036 U | 0.300 U | 0.300 U | 0.006 J |
| DCR-VER-36 | 0.004 JP | 0.300 U | 0.300 U | 0.011 J |
| DCR-VER-37 | 0.017 JP | 0.300 U | 0.300 U | 0.300 U |
| DCR-VER-38 | 0.036 U | 0.300 U | 0.300 U | 0.016 J |
| DCR-VER-39 | 0.008 J | 0.300 U | 0.300 U | 0.016 J |
| DCR-VER-40 | 0.005 JP | 0.300 U | 0.300 U | 0.016 J |
| DCR-VER-41 | 0.036 U | 0.300 U | 0.300 U | 0.010 J |
| DCR-VER-42 | 0.015 J | 0.300 U | 0.300 U | 0.011 J |
| DCR-VER-43 | 0.035 U | 0.300 U | 0.300 U | 0.013 J |
| DCR-VER-44 | 0.035 U | 0.300 U | 0.300 U | 0.012 J |
| DCR-VER-45 | 0.035 U | 0.300 U | 0.300 U | 0.300 U |
| DCR-VER-46 | 0.035 U | 0.300 U | 0.300 U | 0.012 J |
| DCR-VER-47 | 0.036 U | 0.300 U | 0.300 U | 0.300 U |
| DCR-VER-202[3] | 0.012 JP | 0.300 U | 0.300 U | 0.300 U |

Notes:

[1] The laboratory analysis was performed by RECRA Environmental Inc.

[2] The samples for the southern swale were analyzed by NYSDEC Method 91-2 (PAH) and 91-3 (PCB). See Appendix B for complete lab reports.

[3] Field duplicate of DCR-VER-28.

U - Analyte was not detected. Value is the highest sample detection limit.

J - Indicates an estimated value.

P- The percent difference for detected concentrations between two GC columns were greater than 25 percent.

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Table 3-2

Summary of Laboratory Results for Area 1 [1][2]

| Sample Number | Total PCBs (mg/kg) | Phenanthrene (mg/kg) | Pyrene (mg/kg) | Other PAHs (mg/kg) | 1,1,1 Trichloro-ethane (mg/kg) | Benzene (mg/kg) | Trichloro-ethene (mg/kg) | Tetrachloro-ethene (mg/kg) | Toluene (mg/kg) | Total Xylene (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| DCR-VER-02 | 0.175 P | 0.300 U | 0.300 U | 0.097 J | 0.011 U | 0.011 U | 2.900 | 0.004 J | 0.021 | 0.004 J |
| DCR-VER-03 | 0.063 J | 0.300 U | 0.300 U | 0.015 J | 0.011 U | 0.011 U | 0.032 | 0.011 U | 0.011 U | 0.011 U |
| DCR-VER-04 | 2.870 P | 0.300 U | 0.300 U | 0.085 J | 0.011 U | 0.011 U | 0.014 | 0.011 U | 0.011 U | 0.011 U |
| DCR-VER-06 | 0.035 U | 0.300 U | 0.300 U | 0.028 J | 0.011 U | 0.011 U | 0.011 U | 0.011 U | 0.011 U | 0.011 U |
| DCR-VER-07 | 3.400 | 0.300 U | 0.300 U | 0.042 J | 0.010 U | 0.010 U | 0.011 | 0.010 U | 0.010 U | 0.010 U |
| DCR-VER-12 | 0.039 JP | 0.300 U | 0.300 U | 0.300 U | 0.011 U | 0.011 U | 0.014 | 0.011 U | 0.011 U | 0.011 U |
| DCR-VER-13 | 0.034 U | 0.300 U | 0.300 U | 0.300 U | 0.010 U | 0.010 U | 0.006 J | 0.010 U | 0.010 U | 0.010 U |
| DCR-VER-14 | 0.043 J | 0.300 U | 0.300 U | 0.300 U | 0.011 U | 0.011 U | 0.022 | 0.011 U | 0.011 U | 0.011 U |
| DCR-VER-17 | 3.400 P | 0.053 J | 0.120 J | 0.160 J | 0.011 U | 0.011 U | 0.016 | 0.011 U | 0.011 U | 0.011 U |
| DCR-VER-48 | 0.037 U | 0.300 U | 0.300 U | 0.300 U | 0.012 U | 0.012 U | 0.012 U | 0.012 U | 0.001 J | 0.012 U |
| DCR-VER-49 | 0.037 U | 0.300 U | 0.300 U | 0.008 J | 0.011 U | 0.011 U | 0.011 U | 0.011 U | 0.003 J | 0.011 U |
| DCR-VER-05-03[3] | 0.035 U | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| DCR-VER-200[4] | 0.035 U | 0.300 U | 0.300 U | 0.300 U | 0.011 U | 0.011 U | 0.036 | 0.011 U | 0.011 U | 0.011 U |

Notes:

[1] The laboratory analysis was performed by RECRA Environmental Inc.

[2] The samples for Area 1 were analyzed by NYSDEC Methods 91-1 (VOC), 91-2 (PAH), and 91-3 (PCB). See Appendix B for complete lab reports.

[3] This sample is a confirmation sample on the PCB immunoassay field screens performed after additional excavation in Area 1

[4] Field duplicate of DCR-VER-03.

U - Analyte was not detected. Value is the highest sample detection limit.

J - Indicates an estimated value.

P- The percent difference for detected concentrations between two GC columns were greater than 25%.

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## Table 3-3

## Summary of Laboratory Results for Area 2 [1] [2]

| Sample Number | Total PCBs (mg/kg) | Phenanthrene (mg/kg) | Pyrene (mg/kg) | Other PAHs (mg/kg) | 1,1,1 Trichloro-ethane (mg/kg) | Benzene (mg/kg) | Trichloro-ethene (mg/kg) | Tetrachloro-ethene (mg/kg) | Toluene (mg/kg) | Total Xylene (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| DCR-VER-18 | 0.036 U | 0.300 U | 0.300 U | 0.300 U | 0.011 U | 0.011 U | 0.011 U | 0.011 U | 0.011 U | 0.011 U |
| DCR-VER-19 | 0.021 JP | 0.300 U | 0.300 U | 0.300 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U |
| DCR-VER-20 | 0.036 U | 0.300 U | 0.300 U | 0.300 U | 0.011 U | 0.011 U | 0.011 U | 0.011 U | 0.011 U | 0.011 U |
| DCR-VER-21 | 0.037 U | 0.300 U | 0.300 U | 0.300 U | 0.011 U | 0.011 U | 0.011 U | 0.011 U | 0.011 U | 0.011 U |
| DCR-VER-22 | 0.227 P | 0.300 U | 0.300 U | 0.300 U | 0.012 U | 0.012 U | 0.012 U | 0.012 U | 0.012 U | 0.012 U |
| DCR-VER-23 | 0.920 U | 0.300 U | 0.300 U | 0.380 | 0.011 U | 0.011 U | 0.011 U | 0.011 U | 0.011 U | 0.011 U |
| DCR-VER-24 | 0.032 J | 0.300 U | 0.300 U | 0.025 J | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U | 0.010 U |
| DCR-VER-25 | 0.036 U | 0.300 U | 0.300 U | 0.140 J | 0.011 U | 0.011 U | 0.011 U | 0.011 U | 0.011 U | 0.011 U |
| DCR-VER-26 | 0.026 J | 0.300 U | 0.300 U | 0.042 J | 0.011 U | 0.011 U | 0.011 U | 0.011 U | 0.002 J | 0.011 U |
| DCR-VER-27 | 0.036 U | 0.300 U | 0.300 U | 0.240 J | 0.058 | 0.011 U | 0.080 | 0.011 U | 0.009 J | 0.011 U |
| DCR-VER-50 | 0.037 U | 0.300 U | 0.300 U | 0.300 U | 0.001 J | 0.011 U | 0.011 U | 0.011 U | 0.002 J | 0.011 U |
| DCR-VER-71 | 0.032 U | 0.300 U | 0.300 U | 0.015 J | 0.011 U | 0.011 U | 0.001 J | 0.002 J | 0.004 BJ | 0.002 J |
| DCR-VER-72 | 0.032 U | 0.810 | 0.880 | 0.920 | 0.011 U | 0.011 U | 0.011 U | 0.011 U | 0.011 U | 0.011 U |
| DCR-VER-201[3] | 0.035 U | 0.300 U | 0.300 U | 0.025 J | 0.011 U | 0.011 U | 0.011 U | 0.011 U | 0.011 U | 0.011 U |

Notes:

[1] The laboratory analysis was performed by RECRA Environmental Inc.

[2] The samples for Area 2 were analyzed by NYSDEC Methods 91-1 (VOC), 91-2 (PAH), and 91-3 (PCB). See Appendix B for complete lab reports.

[3] Field duplicate of DCR-VER-18.

U - Analyte was not detected. Value is the highest sample detection limit.

J - Indicates an estimated value.

B - The parameter was also present in the associated blank.

P- The percent difference for detected concentrations between two GC columns were greater than 25 percent.

| Area | Grid Number | Sample Number | Remarks |
|---|---|---|---|
| Area 1 | 16 | DCR-VER-16 | PCB/VOC screen |
| *(continued)* | 17 | DCR-VER-17 | Cleanup verification |
| | | DCR-VER-48 | Contingency sample |
| | | DCR-VER-49 | Contingency sample |
| | | DCR-VER-51 | PCB/VOC screen |
| | | DCR-VER-52 | PCB/VOC screen |
| Area 2 | 18 | DCR-VER-18 | Cleanup verification |
| | | DCR-VER-201 | Field duplicate |
| | | MW-546-02 | Rinsate blank |
| | | MW-546-05 | Field blank |
| | 19 | DCR-VER-19 | Cleanup verification |
| | 20 | DCR-VER-20 | Cleanup verification |
| | 21 | DCR-VER-21 | Cleanup verification |
| | 22 | DCR-VER-22 | Cleanup verification |
| | 23 | DCR-VER-23 | Cleanup verification |
| | 24 | DCR-VER-24 | Cleanup verification |
| | 25 | DCR-VER-25 | Cleanup verification |
| | 26 | DCR-VER-26 | Cleanup verification |
| | 27 | DCR-VER-27 | Cleanup verification |
| | | DCR-VER-50 | Contingency sample |
| | | DCR-VER-53 | PCB/VOC screen |
| | | DCR-VER-54 | PCB/VOC screen |
| Southern Swale | 28 | DCR-VER-28 | Cleanup verification |
| | | DCR-VER-202 | Field duplicate |
| | | MW-546-04 | Rinsate blank |
| | 29 | DCR-VER-29 | Cleanup verification |
| | 30 | DCR-VER-30 | Cleanup verification |
| | 31 | DCR-VER-31 | Cleanup verification |
| | 32 | DCR-VER-32 | Cleanup verification |
| | 33 | DCR-VER-33 | Cleanup verification |

| Area | Grid Number | Sample Number | Remarks |
|---|---|---|---|
| Southern Swale | 34 | DCR-VER-34 | Cleanup verification |
| *(continued)* | 35 | DCR-VER-35 | Cleanup verification |
| | 36 | DCR-VER-36 | Cleanup verification |
| | 37 | DCR-VER-37 | Cleanup verification |
| | 38 | DCR-VER-38 | Cleanup verification |
| | 39 | DCR-VER-39 | Cleanup verification |
| | 40 | DCR-VER-40 | Cleanup verification |
| | 41 | DCR-VER-41 | Cleanup verification |
| | 42 | DCR-VER-42 | Cleanup verification |
| | 43 | DCR-VER-43 | Cleanup verification |
| | 44 | DCR-VER-44 | Cleanup verification |
| | 45 | DCR-VER-45 | Cleanup verification |
| | | DCR-VER-55 | PCB/VOC screen |
| | | DCR-VER-56 | PCB/VOC screen |

The field screening results are shown in Table 3-1. All samples were field screened for PCBs for all three excavation areas and for total organic vapors in Areas 1 and 2.

The laboratory results are shown in Tables 3-2, 3-3 and 3-4. In addition to the cleanup verification and contingency samples sent to the laboratory, three field duplicates, three rinsate blanks and two water field blanks were also sent to the laboratory to be analyzed for PCBs and PAHs for all three areas and for VOCs in Areas 1 and 2.

## PCBs

Thirteen samples (DCR-VER-04, 05, 07, 08, 09, 13, 14, 16, 17 and 51 through 54) contained greater than 1 mg/kg total PCBs according to the PCB immunoassay test procedure. All of the cleanup verification and contingency samples were sent to the laboratory to confirm the field screen results.

The laboratory results showed that PCBs were detected in twenty-one samples at an estimated concentration range of 0.004 mg/kg to 3.4 mg/kg. The remaining samples were non-detect for

PCBs at a detection limit range of 0.034 mg/kg to 0.037 mg/kg. All samples except DCR-VER-04, 07 and 17 (2.87, 3.4 and 3.4 mg/kg) were below the cleanup goal of 1 mg/kg for total PCBs.

## PAHs

Phenanthrene was detected in one sample (DCR-VER-17) at an estimated concentration of 0.053 mg/kg. The remaining samples were non-detect for phenanthrene at a detection limit of 0.3 mg/kg. All samples were below the cleanup goal of 2.2 mg/kg for phenanthrene.

Pyrene was detected in one sample (DCR-VER-17) at an estimated concentration of 0.12 mg/kg. The remaining samples were non-detect for pyrene at a detection limit of 0.3 mg/kg. All samples were below the cleanup goal of 6.6 mg/kg for pyrene.

Other PAHs were detected in twenty-seven samples at an estimated concentration range of 0.006 mg/kg to 0.38 mg/kg. The remaining samples were non-detect for other PAHs at a detection limit of 0.3 mg/kg. All samples except DCR-VER-23 (0.38 mg/kg) were below the cleanup goal of 0.3 mg/kg for other PAHs.

## VOCs

Nine samples (DCR-VER-02, 04, 05, 07, 18, 21, 22, 24 and 27) contained greater than 5 ppm total organic vapors according to the jar headspace test procedure. All of the cleanup verification and contingency samples were sent to the laboratory to confirm the field screen results.

Benzene was non-detect in all twenty-two samples at a detection limit range of 0.01 mg/kg to 0.012 mg/kg. All samples were below the cleanup goal of 0.04 mg/kg for benzene.

1,1,1 Trichloroethane was detected in two samples (DCR-VER-27 and DCR-VER-50) at an estimated concentration range of 0.001 mg/kg to 0.058 mg/kg. The remaining samples were non-detect for 1,1,1 trichloroethane at a detection limit range of 0.01 mg/kg to 0.012 mg/kg. All samples were below the cleanup goal of 0.76 mg/kg for 1,1,1 trichloroethane.

Trichloroethene was detected in nine samples (DCR-VER-02, 03, 04, 07, 12, 13, 14, 17 and 27) at an estimated concentration range of 0.006 mg/kg to 2.9 mg/kg. The remaining samples were non-detect for trichloroethene at a detection limit range of 0.01 mg/kg to 0.012 mg/kg. All samples except DCR-VER-02 (2.9 mg/kg) were below the cleanup goal of 0.13 mg/kg for trichloroethene.

Tetrachloroethene was detected in one sample (DCR-VER-02) at an estimated concentration of 0.004 mg/kg. The remaining samples were non-detect for tetrachloroethene at a detection limit

range of 0.01 mg/kg to 0.012 mg/kg. All samples were below the cleanup goal of 0.02 mg/kg for tetrachloroethene.

Toluene was detected in six samples (DCR-VER-02, 26, 27, 48, 49 and 50) at an estimated concentration range of 0.001 mg/kg to 0.021 mg/kg. The remaining samples were non-detect for toluene at a detection limit range of 0.01 mg/kg to 0.012 mg/kg. All samples were below the cleanup goal of 0.15 mg/kg for toluene.

Total xylene was detected in one sample (DCR-VER-02) at an estimated concentration of 0.004 mg/kg. The remaining samples were non-detect for total xylene at a detection limit range of 0.01 mg/kg to 0.012 mg/kg. All samples were below the cleanup goal of 0.12 mg/kg for total xylene.

### *3.3.2 Sampling Day September 14, 1995*

The field screen samples collected from the loading area in Area 2 on September 1, 1995 indicated that this area exceeded 1 mg/kg total PCBs. After removal of additional material, a second set of field screen samples were collected to determine if the area was sufficiently remediated.

The following samples were collected:

| Area | Grid Number | Sample Number | Remarks |
|---|---|---|---|
| Area 2 | --- | DCR-VER-57 | PCB screen |
| | | DCR-VER-58 | PCB screen |

The field screening results are shown in Table 3-1. Both samples were field screened for PCBs.

#### PCBs

One sample (DCR-VER-57) contained greater than 1 mg/kg total PCBs according to the PCB immunoassay test procedure. Additional excavation was required at the loading area in Area 2.

### *3.3.3 Sampling Day September 18, 1995*

The field screen samples collected from the loading area in Area 2 on September 14, 1995 indicated that part of the area exceeded 1 mg/kg total PCBs. After removal of additional material, another field screen sample was collected to determine if the area was sufficiently remediated.

The following sample was collected:

| Area | Grid Number | Sample Number | Remarks |
|---|---|---|---|
| Area 2 | --- | DCR-VER-59 | PCB screen |

The field screening results are shown in Table 3-1. The sample was field screened for PCBs.

PCBs

This sample (DCR-VER-59) did not contain greater than 1 mg/kg total PCBs according to the PCB immunoassay test procedure.

### *3.3.4 Sampling Day September 19, 1995*

The field screen samples collected from the shelf adjacent to the decon pad in Area 1 on September 1, 1995 indicated that this area exceeded 1 mg/kg total PCBs. After removal of additional material, a second set of field screen samples were collected to determine if the area was sufficiently remediated.

The following samples were collected:

| Area | Grid Number | Sample Number | Remarks |
|---|---|---|---|
| Area 1 | --- | DCR-VER-60 | PCB screen |
| | | DCR-VER-61 | PCB screen |
| | | DCR-VER-62 | PCB screen |
| | | DCR-VER-63 | PCB screen |

The field screening results are shown in Table 3-1. All samples were field screened for PCBs.

PCBs

Three samples (DCR-VER-60 through DCR-VER-62) contained greater than 1 mg/kg total PCBs according to the PCB immunoassay test procedure. Additional excavation was required at the shelf in Area 1.

### *3.3.5 Sampling Day September 20, 1995*

The field screen samples collected from the shelf adjacent to the decon pad in Area 1 on September 19, 1995 indicated that this area exceeded 1 mg/kg total PCBs. After removal of additional material, a third set of field screen samples were collected to determine if the area was sufficiently remediated.

The following samples were collected:

| Area | Grid Number | Sample Number | Remarks |
|---|---|---|---|
| Area 1 | --- | DCR-VER-64 | PCB screen |
| | | DCR-VER-65 | PCB screen |
| | | DCR-VER-66 | PCB screen |
| | | DCR-VER-67 | PCB screen |

The field screening results are shown in Table 3-1. All samples were field screened for PCBs.

PCBs

Three samples (DCR-VER-64, DCR-VER-65 and DCR-VER-67) contained greater than 1 mg/kg total PCBs according to the PCB immunoassay test procedure. Additional excavation was required at the shelf in Area 1.

### *3.3.6 Sampling Day September 21, 1995*

The cleanup verification samples collected in Area 1 on September 1, 1995 and the field screen samples collected from the shelf adjacent to the decon pad in Area 1 on September 20, 1995 indicated that these areas exceeded 1 mg/kg total PCBs. After removal of additional material, another set of field screen samples were collected to determine if the area was sufficiently remediated. One sample was sent to the Alcoa laboratory to confirm the field screen results.

The following samples were collected:

| Area | Grid Number | Sample Number | Remarks |
|---|---|---|---|
| Area 1 | 4 | DCR-VER-04-02 | PCB screen |
| | 5 | DCR-VER-05-02 | PCB screen |
| | 7 | DCR-VER-07-02 | PCB screen |
| | 8 | DCR-VER-08-02 | PCB screen |
| | 9 | DCR-VER-09-02 | PCB screen |
| | 17 | DCR-VER-17-02 | PCB screen |
| | --- | DCR-VER-68 | PCB screen |
| | | DCR-VER-69 | PCB screen |
| | | DCR-VER-70 | PCB screen |

The field screening results are shown in Table 3-1. All samples were field screened for PCBs.

PCBs

Four samples (DCR-VER-04-02, 05-02, 07-02 and 09-02) contained greater than 1 mg/kg total PCBs according to the PCB immunoassay test procedure. Subsequent laboratory analysis showed that one sample (DCR-VER-04-02) contained less than 1 mg/kg total PCBs. Additional excavation was required in grids 5, 7 and 9.

### *3.3.7 Sampling Day September 25, 1995*

The field screen samples collected from the grids in Area 1 on September 21, 1995 indicated that grids 5, 7 and 9 exceeded 1 mg/kg total PCBs. After removal of additional material, another set of field screen samples were collected to determine if the area was sufficiently remediated. One sample (DCR-VER-05-03) was sent to the laboratory to confirm the field screen results.

The following samples were collected:

| Area | Grid Number | Sample Number | Remarks |
|---|---|---|---|
| Area 1 | 5 | DCR-VER-05-03 | Immunoassay confirmation |
| | | MW-546-06 | Rinsate blank |
| | | MW-546-07 | Field blank |
| | 7 | DCR-VER-07-03 | PCB screen |
| | 9 | DCR-VER-09-03 | PCB screen |
| | 16 | DCR-VER-16-02 | PCB screen |

The field screening results are shown in Table 3-1. All samples were field screened for PCBs.

The laboratory result is shown in Table 3-2. In addition to the immunoassay confirmation sample sent to the laboratory, a rinsate blank and a water field blank were also sent to the laboratory to be analyzed for PCBs.

PCBs

None of the samples contained greater than 1 mg/kg total PCBs according to the PCB immunoassay test procedure. The immunoassay confirmation sample was sent to the laboratory to confirm the field screen result.

The laboratory result showed that PCBs were non-detect for sample DCR-VER-05-03 at a detection limit of 0.035 mg/kg. All of the samples were below the cleanup goal of 1 mg/kg for total PCBs.

### *3.3.8 Sampling Day September 26, 1995*

After removal of material in grids 46 and 47 of the southern swale, the grids were sampled for field screen and laboratory analysis.

The following samples were collected:

| Area | Grid Number | Sample Number | Remarks |
|---|---|---|---|
| Southern Swale | 46 | DCR-VER-46 | Cleanup verification |
| | | MW-546-08 | Rinsate blank |
| | 47 | DCR-VER-47 | Cleanup verification |

The field screening results are shown in Table 3-1. All samples were field screened for PCBs.

The laboratory results are shown in Table 3-4. In addition to the cleanup verification samples sent to the laboratory, a rinsate blank was also sent to the laboratory to be analyzed for PCBs and PAHs.

#### PCBs

Neither of the samples contained greater than 1 mg/kg total PCBs according to the PCB immunoassay test procedure. Both of the cleanup verification samples were sent to the laboratory to confirm the field screen results.

The laboratory results showed that PCBs were non-detect in both samples at a detection limit range of 0.035 mg/kg to 0.036 mg/kg. All samples were below the cleanup goal of 1 mg/kg for total PCBs.

#### PAHs

Phenanthrene was non-detect in both samples at a detection limit of 0.3 mg/kg. All samples were below the cleanup goal of 2.2 mg/kg for phenanthrene.

Pyrene was non-detect in both samples at a detection limit of 0.3 mg/kg. All samples were below the cleanup goal of 6.6 mg/kg for pyrene.

Other PAHs were detected in one sample (DCR-VER-46) at an estimated concentration of 0.012 mg/kg. The remaining sample was non-detect for other PAHs at a detection limit of 0.3 mg/kg. All samples were below the cleanup goal of 0.3 mg/kg for other PAHs.

### *3.3.9 Sampling Day September 27, 1995*

After removal of material in grid 1 of Area 1, a field screen sample was collected for analysis.

The following sample was collected:

| Area | Grid Number | Sample Number | Remarks |
|---|---|---|---|
| Area 1 | 1 | DCR-VER-01 | PCB/VOC screen |

The field screening results are shown in Table 3-1. The sample was field screened for PCBs and total organic vapors.

#### PCBs

This sample (DCR-VER-01) did not contain greater than 1 mg/kg total PCBs according to the PCB immunoassay test procedure.

#### VOCs

This sample (DCR-VER-01) did not contain greater than 5 ppm total organic vapors according to the jar headspace analysis.

### *3.3.10 Sampling Day October 12, 1995*

Additional excavation was required north of Area 2 due to the discovery of additional waste material. When the excavation was completed, samples were collected for field screen and laboratory analysis.

The following samples were collected:

| Area | Grid Number | Sample Number | Remarks |
|---|---|---|---|
| Area 2 | 48 | DCR-VER-71 | Cleanup verification |
| | | MW-546-09 | Rinsate blank |
| | 49 | DCR-VER-72 | Cleanup verification |
| | --- | DCR-VER-73 | PCB/VOC screen |
| | | DCR-VER-74 | PCB/VOC screen |
| | | DCR-VER-75 | PCB/VOC screen |
| | | DCR-VER-76 | PCB/VOC screen |

The field screening results are shown in Table 3-1. All samples were field screened for PCBs and total organic vapors.

The laboratory results are shown in Table 3-3. In addition to the cleanup verification samples sent to the laboratory, a rinsate blank was also sent to the laboratory to be analyzed for PCBs, PAHs and VOCs.

## PCBs

None of the samples contained greater than 1 mg/kg total PCBs according to the PCB immunoassay test procedure. Both of the cleanup verification samples were sent to the laboratory to confirm the field screen results.

The laboratory results showed that PCBs were non-detect in both samples at a detection limit of 0.032 mg/kg. Both samples were below the cleanup goal of 1 mg/kg for total PCBs.

## PAHs

Phenanthrene was detected in one sample (DCR-VER-72) at a concentration of 0.81 mg/kg. The remaining sample was non-detect for phenanthrene at a detection limit of 0.3 mg/kg. Both samples were below the cleanup goal of 2.2 mg/kg for phenanthrene.

Pyrene was detected in one sample (DCR-VER-72) at a concentration of 0.88 mg/kg. The remaining sample was non-detect for pyrene at a detection limit of 0.3 mg/kg. All samples were below the cleanup goal of 6.6 mg/kg for pyrene.

Other PAHs were detected in both samples with an estimated concentration range of 0.015 mg/kg to 0.92 mg/kg. Sample DCR-VER-72 (0.92 mg/kg) was above the cleanup goal of 0.3 mg/kg for other PAHs.

## VOCs

None of the samples contained greater than 5 ppm total organic vapors according to the jar headspace analysis. All of the cleanup verification samples were sent to the laboratory to confirm the field screen results.

1,1,1 Trichloroethane and benzene were non-detect in both samples at a detection limit of 0.011 mg/kg. All samples were below the cleanup goal of 0.76 mg/kg for 1,1,1, trichloroethane and 0.04 mg/kg for benzene.

Trichloroethene was detected in one sample (DCR-VER-71) at an estimated concentration of 0.001 mg/kg. The remaining sample was non-detect for trichloroethene at a detection limit of 0.011 mg/kg. All samples were below the cleanup goal of 0.13 mg/kg for trichloroethene.

Tetrachloroethene was detected in one sample (DCR-VER-71) at an estimated concentration of 0.002 mg/kg. The remaining sample was non-detect for tetrachloroethene at a detection limit of 0.011 mg/kg. All samples were below the cleanup goal of 0.02 mg/kg for tetrachloroethene.

Toluene was detected in one sample (DCR-VER-71) at an estimated concentration of 0.004 mg/kg. The remaining sample was non-detect for toluene at a detection limit of 0.011 mg/kg. All samples were below the cleanup goal of 0.15 mg/kg for toluene.

Total xylene was detected in one sample (DCR-VER-71) at an estimated concentration of 0.002 mg/kg. The remaining sample was non-detect for total xylene at a detection limit of 0.011 mg/kg. All samples were below the cleanup goal of 0.12 mg/kg for total xylene.

## 3.4 Quality Control

Quality control analytical data associated with the *Cleanup Verification Sampling and Analysis Report for the Dennison Cross Road Site* is summarized in this section. All samples were analyzed by RECRA Environmental Inc., located in Amherst, New York. New York ASP CLP was used for all analyses, where applicable. The following quality control data was reviewed:

- Laboratory Method Blanks
- Matrix Spike/Matrix Spike Duplicate
- Blank Spike/Blank Spike Duplicate
- Laboratory Duplicates
- Sample Holding Time Data

Project-generated quality control data was also reviewed. This data included:

- Field Duplicate Samples
- Rinsate Blank Samples
- Field Blank Samples

All applicable quality control data were evaluated on a per analysis basis and are summarized below by analytical parameter. Holding times, field duplicate, field blank, and rinsate blank data are summarized in the validation reports in Appendix C.

### PCBs

All associated PCB analytical data submitted in accordance with the ASP CLP protocols was reviewed and validated. It should be noted that there were numerous data usability issues associated with the PCB analyses requiring the sample results to be qualified as estimated.

Most of the PCB data was qualified due to unacceptable surrogate spike recovery data and/or variable instrument response. Low blank spike recovery data was also reported. It should be

noted that the laboratory did not meet the requested reporting limits initially. The sample extracts were re-concentrated from 10 mL to 1 mL and re-analyzed to meet the reporting limit requirements. Method detection limit data supporting the revised reporting limits was requested and received from the laboratory. It is possible that the generally poor surrogate recovery performance could be attributed to this method modification.

The reported positive Aroclor 1260 results for samples DCR-VER-24, 26, 28, 29, 31, 32, 34 and 36 are considered non-detected values and the reporting limit has been raised to the contract required quantitation limit (CRQL) due to blank contamination.

Aroclor 1248 data reported for sample DCR-VER-37 was rejected due to poor GC dual column precision. Since the magnitude of the effect Gradient is commenting on is questionable and the results are less than the cleanup goals for PCBs, this data will be considered usable for statistical purposes.

The data validator found that all laboratory samples were received by the laboratory within the VTSR limit of 48 hours and none exceeded the laboratory holding time of 5 days from VTSR for extraction and 40 days for PCB analysis.

The field duplicate pairs were DCR-VER-03 and DCR-VER-200, DCR-VER-18 and DCR-VER-201, and DCR-VER-28 and DCR-VER-202. The typical procedure is that the laboratory QA/QC data would be evaluated in detail if the relative percent difference (RPD) was greater than 50 percent. The field duplicate data was reviewed and considered acceptable.

PCBs were not detected in the rinsate blank samples with the exception of MW-546-01, MW-546-02, and MW-546-04 which were reported with a PCB concentration range of 0.007µg/l to 0.17 µg/l. No formal action is recommended except to note the possibility of low level PCB cross contamination for the soil samples.

PCBs were not detected in any of the water field blank samples. The field blank data was considered acceptable.

In consideration of the PCB analytical data reviewed and validated, the usability of all PCB sample data is qualified in accordance with the recommendations and qualifications presented above. See the validation reports in Appendix C.

## PAHs

All associated semivolatile organics analytical data submitted in accordance with the ASP CLP protocols was reviewed and validated.

The analytical data reported for selected target compounds for several PAH analyses was qualified as estimated due to variable instrument performance. Several estimated, low level PAH hits were considered not detected and the detection limit was raised to the CRQL.

It should be noted that the laboratory was requested to report quantitation limits of 300 ug/kg, which was lower than the CRQL. Method detection limit data supporting the revised reporting limits was requested and received from the laboratory.

PAH data reported for samples DCR-VER-02 and DCR-VER-13 was rejected due to low internal standard response. Since the magnitude of the effect Gradient is commenting on is questionable and the results are all considerably less than the cleanup goal for PAHs, this data will be considered usable for statistical purposes.

The data validator found that all laboratory samples were received by the laboratory within the VTSR limit of 48 hours and none exceeded the laboratory holding time of 5 days from VTSR for extraction and 40 days for PAH analysis.

The field duplicate pairs were DCR-VER-03 and DCR-VER-200, DCR-VER-18 and DCR-VER-201, and DCR-VER-28 and DCR-VER-202. The typical procedure is that the laboratory QA/QC data would be evaluated in detail if the RPD was greater than 50 percent. The field duplicate data was reviewed and considered acceptable.

PAHs were not detected in any of the rinsate blank samples. No cross contamination occurred.

PAHs were not detected in any of the water field blank samples. The field blank data was considered acceptable.

In consideration of the PAH analytical data reviewed and validated, the usability of all PAH sample data is qualified in accordance with the recommendations and qualifications presented above. See the validation reports in Appendix C.

## VOCs

All associated VOC analytical data submitted in accordance with the ASP CLP protocols was reviewed and validated.

The analytical data reported for selected VOC target compounds for several VOC analyses was qualified as estimated due to variable instrument performance. Matrix spike/matrix spike (MS/MSD) recovery data was also reported as being outside of the acceptable recovery criteria.

It should be noted that 1,2 dichloroethene was reported as not detected in sample DCR-VER- 02 and toluene was reported as not detected in sample DCR-VER-20. These reported results were changed to positive values due to a response factor calculation error.

Several estimated, low level VOC hits were considered not detected and the detection limit was raised to the CRQL. Also, the reported methylene chloride data for several samples was considered not detected due to blank contamination

The data validator found that all laboratory samples were received by the laboratory within the VTSR limit of 48 hours and none exceeded the laboratory holding time of 7 days from VTSR for VOC analysis.

The field duplicate pairs were DCR-VER-03 and DCR-VER-200, DCR-VER-18 and DCR-VER-201, and DCR-VER-28 and DCR-VER-202. The typical procedure is that the laboratory QA/QC data would be evaluated in detail if the RPD was greater than 50 percent. The field duplicate data was reviewed and considered acceptable.

VOCs were not detected in any of the rinsate blank samples. No cross contamination occurred.

VOCs were not detected in any of the water field blanks. The field blank data is considered acceptable.

In consideration of the VOC analytical data reviewed and validated, the usability of all VOC sample data is qualified in accordance with the recommendations and qualifications presented above. See the validation reports in Appendix C.

# Section 4
# Statistical Analysis

The cleanup verification work at the DCR resulted in the generation of two data sets. The first data set includes the immunoassay and jar headspace results. This data set is used to provide results in a timely manner so that field decisions can be made with regard to further construction and cleanup verification sampling. The second data set includes the laboratory results. This data set is used to confirm the field screen results and provide data on the cleanup verification samples that will be used to statistically determine whether the remediated area has met the ROD specified cleanup goals for the DCR.

## 4.1 Field Screening Summary

Immunoassay testing was performed on 49 cleanup verification samples (DCR-VER-01 through DCR-VER-47, DCR-VER-71 and DCR-VER-72) and three duplicates (DCR-VER-200 through DCR-VER-202) as required by the work plan. Three contingency samples (DCR-VER-48 through DCR-VER-50) and ten PCB/VOC screen samples (DCR-VER-51 through DCR-VER-56 and DCR-VER-73 through DCR-VER-76) were analyzed at the NYSDEC's request. Thirteen of these samples (DCR-VER-04, 05, 07, 08, 09, 13, 14, 16, 17 and 51 through 54) exceeded 1 mg/kg total PCBs according to the immunoassay test procedure. Additional excavation, sampling and testing was performed until all areas contained less than 1 mg/kg PCBs according to the immunoassay test procedure. The immunoassay results are given in Table 3-1. Appendix A provides a summary of the field screen results.

Jar headspace testing was performed on 29 cleanup verification samples (DCR-VER-01 through DCR-VER-27, DCR-VER-71 and DCR-VER-72) and two duplicates (DCR-VER-200 and DCR-VER-201) as required by the work plan. Three contingency samples (DCR-VER-48 through DCR-VER-50) and eight PCB/VOC screen samples (DCR-VER-51 through DCR-VER-54 and DCR-VER-73 through DCR-VER-76) were analyzed at the NYSDEC's request. Nine of these samples (DCR-VER-02, 04, 05, 07, 18, 21, 22, 24 and 27) exceeded 5 ppm total organic vapors according to the jar headspace test procedure. Additional excavation was performed in grids 2 and 5 only, since subsequent laboratory analysis showed that all remaining samples contained concentrations below cleanup goals for VOCs. The jar headspace results are given in Table 3-1. Appendix A provides a summary of the field screen results.

## 4.2 Laboratory Summary

Laboratory analysis was performed on 41 cleanup verification samples (DCR-VER-02, 03, 04, 06, 07, 12, 13, 14, 17 through 47 and DCR-VER-71 and 72) and 3 duplicates (DCR-VER-200 through DCR-VER-202) as required by the work plan. Three contingency samples (DCR-VER-48 through DCR-VER-50) were analyzed at the NYSDEC's request. All samples were

laboratory analyzed for PCBs and PAHs. Samples from Area 1 and 2 (DCR-VER-02, 03, 04, 06, 07, 12, 13, 14, DCR-VER-17 through DCR-VER-27, DCR-VER-48 through DCR-VER-50 and DCR-VER-71 and 72) were also analyzed for VOCs. All samples contained either non-detect concentrations or concentrations below cleanup standards except DCR-VER-02 (2.9 mg/kg trichloroethene), DCR-VER-04 (2.87 mg/kg total PCBs), DCR-VER-07 (3.4 mg/kg total PCBs), DCR-VER-17 (3.4 mg/kg total PCBs), DCR-VER-23 (0.38 mg/kg other PAHs), and DCR-VER-72 (0.92 mg/kg other PAHs). An immunoassay confirmation sample was also analyzed for PCBs to confirm the field screen results from additional sampling and testing in Area 1. This sample contained a non-detect concentration of PCBs. Tables 3-2, 3-3 and 3-4 report the concentrations for all constituents. Appendix B provides copies of the laboratory reports.

## 4.3 Statistical Analysis of Cleanup Verification Data

The statistical method to be used when evaluating the laboratory results from the DCR cleanup verification sampling, with respect to the soil cleanup goals, was given in the *Soil Cleanup Verification Plan for the Dennison Cross Road Site* (CDM, Revised October 1995).

The statistical analysis will be performed on the cleanup verification samples that were collected as required by the Work Plan. According to the Work Plan, the cleanup verification data was to be fit to a normal distribution or log transformed and then fit to a normal distribution. Based on this fit, the upper 80 percent confidence interval on the mean could be calculated and compared to the soil cleanup goals for PCBs, PAHs and VOCs. It may not be possible to fit the data set to a normal or log-normal distribution particularly if there are too few samples or the data set is censored (a majority of the data is non-detect). In that case, the *Soil Remediation Verification Guide* (CDM, April 1993) states that a non-parametric statistical method must be utilized to determine if the upper 80 percent confidence interval on the median, not the mean, is below the soil cleanup goals.

### Area 1

In Area 1, the number of cleanup verification samples was moderate in size (9). One or more of the nine samples contained detectable concentrations of total PCBs, the PAHs, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene, benzo(a)pyrene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene and the VOCs, trichloroethene, tetrachloroethene, toluene and total xylene. The remaining cleanup goal parameters were non-detect for all nine cleanup verification samples. Hence, no statistical analysis for those parameters is necessary to show that the cleanup goals were achieved.

The PCB data set was evaluated to determine if its data or log transformed data could be fit to a normal distribution. This evaluation determined that the log transformed data could be fit to the

normal distribution. The parametric analysis found that the upper 80 percent confidence interval was 0.351 mg/kg for total PCBs which is statistically less than the cleanup goal of 1 mg/kg for total PCBs. Appendix D provides copies of the statistical calculations.

The benzo(g,h,i)perylene data set was evaluated to determine if its data or log transformed data could be fit to a normal distribution. This evaluation determined that the log transformed data could be fit to the normal distribution. The parametric analysis found that the upper 80 percent confidence interval was 0.083 mg/kg for benzo(g,h,i)perylene which is statistically less than the cleanup goal of 0.3 mg/kg for other PAHs. Appendix D of this report presents the statistical analysis calculations.

A majority of the remaining detectable PAH data were non-detect concentrations. Hence, a nonparametric statistical method should be used for the PAH analysis. Appendix D of this report presents the statistical analysis calculations.

The PAH data were ranked from lowest to highest concentrations. The upper 80 percent confidence intervals on the median were used to find the sample rank that should have an analytical concentration less than the cleanup standard in order for the remediated area to be considered statistically below cleanup goals.

The results of the nonparametric statistical analysis states that the sixth ranking sample must have a concentration below the cleanup goal. Based on the laboratory results, the sixth ranking samples were found to contain 0.15 mg/kg for benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene and pyrene which are statistically less than the cleanup goals of 2.2 mg/kg for phenanthrene, 6.6 mg/kg for pyrene and 0.3 mg/kg for other PAHs.

The trichloroethene (TCE) data set was evaluated to determine if its data or log transformed data could be fit to a normal distribution. This evaluation determined that neither the untransformed data nor the log transformed data could be fit to the normal distribution. Hence, a nonparametric analysis should be performed for TCE. Appendix D of this report presents the statistical analysis calculations.

A majority of the remaining detectable VOC data were non-detect concentrations. Hence, a nonparametric statistical method should be used for the VOC analysis, as well. Appendix D of this report presents the statistical analysis calculations.

The VOC data were ranked from lowest to highest concentrations. The upper 80 percent confidence intervals on the median were used to find the sample rank that should have an analytical concentration less than the cleanup standard in order for the remediated area to be considered statistically below cleanup goals.

The results of the nonparametric statistical analysis states that the sixth ranking sample must have a concentration below the cleanup goal. Based on the laboratory results, the sixth ranking samples were found to contain 0.016 mg/kg of trichloroethene and 0.006 mg/kg for tetrachloroethene, toluene and total xylene which are statistically less than the cleanup goals of 0.13 mg/kg for trichloroethene, 0.02 mg/kg for tetrachloroethene, 0.15 mg/kg for toluene, and 0.12 mg/kg for total xylene.

The results of the analysis proved that the PCB, PAH and VOC data sets from Area 1 of the remediated DCR, were statistically below cleanup goals.

## Area 2

In Area 2, the number of samples was moderate in size (12). One or more of the twelve samples contained detectable concentrations of total PCBs, the PAHs, acenaphthene, anthracene, dibenzo(a,h)anthracene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene, benzo(a)pyrene, chrysene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, 2-methylnaphthalene, naphthalene, phenanthrene, and pyrene and the VOCs, 1,1,1 trichloroethane, trichloroethene and toluene. The remaining cleanup goal parameters were non-detect for all twelve cleanup verification samples. Hence, no statistical analysis for those parameters is necessary to show that the cleanup goals were achieved.

A majority of the PCB, PAH and VOC data were non-detect concentrations. Hence, a nonparametric statistical method should be used for the PCB, PAH and VOC analysis. Appendix D of this report presents the statistical analysis calculations.

The PCB, PAH and VOC data were ranked from lowest to highest concentrations. The upper 80 percent confidence intervals on the median were used to find the sample rank that should have an analytical concentration less than the cleanup standard in order for the remediated area to be considered statistically below cleanup goals.

The results of the nonparametric statistical analysis states that the eighth ranking sample must have a concentration below the cleanup goal. Based on the laboratory results, the eighth ranking samples were found to contain 0.019 mg/kg of total PCBs, 0.15 mg/kg of phenanthrene, pyrene and other PAHs and 0.006 mg/kg of 1,1,1 trichloroethane, trichloroethene and toluene which are statistically less than the cleanup goals of 1 mg/kg for total PCBs, 2.2 mg/kg for phenanthrene, 6.6 mg/kg for pyrene, 0.3 mg/kg for other PAHs, 0.76 mg/kg for 1,1,1 trichloroethane, 0.13 mg/kg for trichloroethene, and 0.15 mg/kg for toluene.

The results of the analysis proved that the PCB, PAH and VOC data sets from Area 2 of the remediated DCR, were statistically below cleanup goals.

## Southern Swale

In the southern swale, the number of samples was moderate in size (20). One or more of the twenty samples contained detectable concentrations of total PCBs and the PAH benzo(a)pyrene. The remaining cleanup goal parameters were non-detect for all twenty cleanup verification samples. Hence, no statistical analysis for those parameters is necessary to show that the cleanup goals were achieved.

The PCB data set was evaluated to determine if its data or log transformed data could be fit to a normal distribution. This evaluation determined that the log transformed data could be fit to the normal distribution. The parametric analysis found that the upper 80 percent confidence interval was 0.014 mg/kg for total PCBs which is statistically less than the cleanup goal of 1 mg/kg for total PCBs. Appendix D of this report presents the statistical analysis calculations.

The benzo(a)pyrene data set was evaluated to determine if its data or log transformed data could be fit to a normal distribution. This evaluation determined that neither the untransformed data nor the log transformed data could be fit to the normal distribution. Hence, a nonparametric analysis should be performed for benzo(a)pyrene. Appendix D of this report presents the statistical analysis calculations.

The benzo(a)pyrene data were ranked from lowest to highest concentrations. The upper 80 percent confidence interval on the median was used to find the sample rank that should have an analytical concentration less than the cleanup standard in order for the remediated area to be considered statistically below cleanup goals.

The results of the nonparametric statistical analysis states that the twelfth ranking sample must have a concentration below the cleanup goal. Based on the laboratory results, the twelfth ranking sample was found to contain 0.012 mg/kg of benzo(a)pyrene which is statistically less than the cleanup goal of 0.3 mg/kg for benzo(a)pyrene.

The results of the analysis proved that the PCB and PAH data sets from the southern swale of the remediated DCR, were statistically below cleanup goals.

# Section 5
# Conclusions

The cleanup verification sampling was performed in accordance with the approved cleanup verification work plan with exceptions as noted in Section 2. Immunoassay, jar headspace, and laboratory samples were collected and analyzed during remediation of the DCR site.

## Area 1

In Area 1, immunoassay samples were collected from seventeen sampling grids, two contingency locations and two additional field screen locations. Samples DCR-VER-04, 05, 07, 08, 09, 13, 14, 16, 17, 51 and 52 showed a result of greater than 1 mg/kg total PCBs. Subsequent laboratory analysis showed that two of the samples (DCR-VER-13 and DCR-VER-14) contained less than 1 mg/kg total PCBs. In the remaining areas additional excavation was performed until the excavation surface tested less than 1 mg/kg total PCBs.

Jar headspace samples were collected from seventeen sampling grids, two contingency locations and two additional field screen locations. Samples DCR-VER-02, 04, 05 and 07 showed a result of greater than 5 ppm total organic vapors. Subsequent laboratory analysis showed that two of the samples (DCR-VER-04 and 07) contained VOC concentrations below the cleanup goals. Additional excavation was performed in grids 2 and 5.

The cleanup verification samples were collected and analyzed for PCBs, PAHs and VOCs. Area 1 contained detectable concentrations of PCBs, the PAHs, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene, benzo(a)pyrene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene and the VOCs, trichloroethene, tetrachloroethene and total xylene. The upper 80 percent confidence limits were found to contain 0.351 mg/kg of total PCBs, 0.083 mg/kg of benzo(g,h,i)perylene, 0.15 mg/kg of the remaining PAH parameters, 0.016 mg/kg of trichloroethene, and 0.006 mg/kg of tetrachloroethene, toluene and total xylene. The cleanup goals are 1 mg/kg for total PCBs, 0.3 for benzo(g,h,i)perylene and other PAHs, 0.02 mg/kg for trichloroethene, 0.15 mg/kg for toluene, and 0.12 mg/kg for total xylene. The results of the analysis proved that the PCB, PAH and VOC data sets were statistically below cleanup goals.

## Area 2

In Area 2, immunoassay samples were collected from twelve sampling grids, one contingency location and six additional field screen locations. Samples DCR-VER-53 and 54 showed a result of greater than 1 mg/kg PCBs. Additional excavation was performed in these areas until the excavation surface tested less than 1 mg/kg total PCBs.

Jar headspace samples were collected from twelve sampling grids, one contingency location and six field screen locations. Samples DCR-VER-18, 21, 22, 24 and 27 showed a result of greater than 5 ppm total organic vapors. Subsequent laboratory analysis showed that all five samples contained VOC concentrations below cleanup goals.

The cleanup verification samples were collected and analyzed for PCBs, PAHs and VOCs. Area 2 contained detectable concentrations of total PCBs, the PAHs, acenaphthene, anthracene, dibenzo(a,h)anthracene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene, benzo(a)pyrene, chrysene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, 2-methylnaphthalene, naphthalene, phenanthrene, and pyrene and the VOCs, 1,1,1 trichloroethane, trichloroethene and toluene. The upper 80 percent confidence limits were found to contain 0.019 mg/kg of total PCBs, 0.15 mg/kg of phenanthrene, pyrene and other PAHs, and 0.006 mg/kg of 1,1,1 trichloroethane, trichloroethene and toluene. The cleanup goals are 1 mg/kg for total PCBs, 2.2 mg/kg for phenanthrene, 6.6 mg/kg for pyrene, 0.3 mg/kg for other PAHs, 0.76 mg/kg for 1,1,1 trichloroethane, 0.13 mg/kg for trichloroethene, and 0.15 mg/kg for toluene. The results of the analysis proved that the PCB, PAH and VOC data sets were statistically below cleanup goals.

## Southern Swale

In the southern swale, immunoassay samples were collected from 20 sampling grids and two additional field screen locations. All of the samples showed a result of less than 1 mg/kg PCBs.

The cleanup verification samples were collected and analyzed for PCBs and PAHs. The southern swale contained detectable concentrations of total PCBs and the PAH benzo(a)pyrene. The upper 80 percent confidence limits were found to contain 0.014 mg/kg of total PCBs and 0.012 mg/kg of benzo(a)pyrene. The cleanup goals are 1 mg/kg for total PCBs and 0.3 mg/kg for other PAHs. The results of the analysis proved that the PCB and PAH data sets were statistically below cleanup goals.

# Section 6
# References

CDM. 1993. Soil Remediation Verification Guide

CDM. 1995. Soil Cleanup Verification Plan for the Dennison Cross Road Site

CDM. 1994. Quality Assurance Project Plan

Conover, W.J. 1980. Practical Non-Parametric Statistics. 2nd Edition

# Appendix A

# Summary of Field Screening Results

ALCOA REMEDIATION PROJECTS ORGANIZATION
DENNISON CROSS ROAD SITE
CLEANUP BERIFICATION SAMPLING AND ANALYSIS REPORT

Table A-1

Field Screening Results of Cleanup Verification Testing [1]

| Sample Number | Date Sampled | Sampled By | Sample Location | Date Tested | Tested By | PCB Immunoassay Result [2] | VOC Jar Headspace Result [3] |
|---|---|---|---|---|---|---|---|
| DCR-VER-01 | 9/27/95 | Julie Schreiber | Grid 1 | 9/27/95 | Julie Schreiber | < 1 ppm | ND |
| DCR-VER-02 | 9/1/95 | Julie Schreiber | Grid 2 | 9/2/95 | Julie Schreiber | < 1 ppm | 432 ppm |
| DCR-VER-03 | 9/1/95 | Julie Schreiber | Grid 3 | 9/2/95 | Julie Schreiber | < 1 ppm | 2 ppm |
| DCR-VER-04 | 9/1/95 | Julie Schreiber | Grid 4 | 9/2/95 | Julie Schreiber | > 1 ppm | 16 ppm |
| DCR-VER-04-02 | 9/21/95 | Julie Schreiber | Grid 4 | 9/21/95 | Julie Schreiber | > 1 ppm | --- |
| DCR-VER-05 | 9/1/95 | Julie Schreiber | Grid 5 | 9/2/95 | Julie Schreiber | > 1 ppm | 13 ppm |
| DCR-VER-05-02 | 9/21/95 | Julie Schreiber | Grid 5 | 9/21/95 | Julie Schreiber | > 1 ppm | --- |
| DCR-VER-05-03 | 9/25/95 | Julie Schreiber | Grid 5 | 9/25/95 | Julie Schreiber | < 1 ppm | --- |
| DCR-VER-06 | 9/1/95 | Julie Schreiber | Grid 6 | 9/2/95 | Julie Schreiber | < 1 ppm | ND |
| DCR-VER-07 | 9/1/95 | Julie Schreiber | Grid 7 | 9/2/95 | Julie Schreiber | > 1 ppm | 123 ppm |
| DCR-VER-07-02 | 9/21/95 | Julie Schreiber | Grid 7 | 9/21/95 | Julie Schreiber | > 1 ppm | --- |
| DCR-VER-07-03 | 9/25/95 | Julie Schreiber | Grid 7 | 9/25/95 | Julie Schreiber | < 1 ppm | --- |
| DCR-VER-08 | 9/1/95 | Julie Schreiber | Grid 8 | 9/2/95 | Julie Schreiber | > 1 ppm | 2 ppm |
| DCR-VER-08-02 | 9/21/95 | Julie Schreiber | Grid 8 | 9/21/95 | Julie Schreiber | < 1 ppm | --- |
| DCR-VER-09 | 9/1/95 | Julie Schreiber | Grid 9 | 9/2/95 | Julie Schreiber | > 1 ppm | ND |
| DCR-VER-09-02 | 9/21/95 | Julie Schreiber | Grid 9 | 9/21/95 | Julie Schreiber | > 1 ppm | --- |
| DCR-VER-09-03 | 9/25/95 | Julie Schreiber | Grid 9 | 9/25/95 | Julie Schreiber | < 1 ppm | --- |
| DCR-VER-10 | 9/1/95 | Julie Schreiber | Grid 10 | 9/2/95 | Julie Schreiber | < 1 ppm | ND |
| DCR-VER-11 | 9/1/95 | Julie Schreiber | Grid 11 | 9/2/95 | Julie Schreiber | < 1 ppm | ND |
| DCR-VER-12 | 9/1/95 | Julie Schreiber | Grid 12 | 9/2/95 | Julie Schreiber | < 1 ppm | 2 ppm |
| DCR-VER-13 | 9/1/95 | Julie Schreiber | Grid 13 | 9/2/95 | Julie Schreiber | > 1 ppm | 2 ppm |
| DCR-VER-14 | 9/1/95 | Julie Schreiber | Grid 14 | 9/2/95 | Julie Schreiber | > 1 ppm | ND |
| DCR-VER-15 | 9/1/95 | Julie Schreiber | Grid 15 | 9/2/95 | Julie Schreiber | < 1 ppm | ND |
| DCR-VER-16 | 9/1/95 | Julie Schreiber | Grid 16 | 9/2/95 | Julie Schreiber | > 1 ppm | ND |
| DCR-VER-16-02 | 9/25/95 | Julie Schreiber | Grid 16 | 9/25/95 | Julie Schreiber | < 1 ppm | --- |
| DCR-VER-17 | 9/1/95 | Julie Schreiber | Grid 17 | 9/2/95 | Julie Schreiber | > 1 ppm | ND |
| DCR-VER-17-02 | 9/21/95 | Julie Schreiber | Grid 17 | 9/21/95 | Julie Schreiber | < 1 ppm | --- |
| DCR-VER-18 | 9/1/95 | Christina Osvoldik | Grid 18 | 9/2/95 | Julie Schreiber | < 1 ppm | 5.2 ppm |
| DCR-VER-19 | 9/1/95 | Christina Osvoldik | Grid 19 | 9/2/95 | Julie Schreiber | < 1 ppm | 2 ppm |
| DCR-VER-20 | 9/1/95 | Christina Osvoldik | Grid 20 | 9/2/95 | Julie Schreiber | < 1 ppm | ND |
| DCR-VER-21 | 9/1/95 | Christina Osvoldik | Grid 21 | 9/2/95 | Julie Schreiber | < 1 ppm | 45 ppm |
| DCR-VER-22 | 9/1/95 | Christina Osvoldik | Grid 22 | 9/4/95 | Julie Schreiber | < 1 ppm | 6 ppm |
| DCR-VER-23 | 9/1/95 | Christina Osvoldik | Grid 23 | 9/4/95 | Julie Schreiber | < 1 ppm | ND |
| DCR-VER-24 | 9/1/95 | Christina Osvoldik | Grid 24 | 9/4/95 | Julie Schreiber | < 1 ppm | 32 ppm |
| DCR-VER-25 | 9/1/95 | Christina Osvoldik | Grid 25 | 9/4/95 | Julie Schreiber | < 1 ppm | 2 ppm |
| DCR-VER-26 | 9/1/95 | Christina Osvoldik | Grid 26 | 9/4/95 | Julie Schreiber | < 1 ppm | ND |
| DCR-VER-27 | 9/1/95 | Christina Osvoldik | Grid 27 | 9/4/95 | Julie Schreiber | < 1 ppm | 16 ppm |
| DCR-VER-28 | 9/1/95 | Dave Perry | Grid 28 | 9/4/95 | Julie Schreiber | < 1 ppm | [4] |
| DCR-VER-29 | 9/1/95 | Dave Perry | Grid 29 | 9/4/95 | Julie Schreiber | < 1 ppm | [4] |
| DCR-VER-30 | 9/1/95 | Dave Perry | Grid 30 | 9/4/95 | Julie Schreiber | < 1 ppm | [4] |
| DCR-VER-31 | 9/1/95 | Dave Perry | Grid 31 | 9/4/95 | Julie Schreiber | < 1 ppm | [4] |
| DCR-VER-32 | 9/1/95 | Dave Perry | Grid 32 | 9/4/95 | Julie Schreiber | < 1 ppm | [4] |
| DCR-VER-33 | 9/1/95 | Dave Perry | Grid 33 | 9/4/95 | Julie Schreiber | < 1 ppm | [4] |

*Continued on next page*

ALCOA REMEDIATION PROJECTS ORGANIZATION
DENNISON CROSS ROAD SITE
CLEANUP BERIFICATION SAMPLING AND ANALYSIS REPORT

Table A-1 *(Continued)*

Field Screening Results of Cleanup Verification Testing [1]

| Sample Number | Date Sampled | Sampled By | Sample Location | Date Tested | Tested By | PCB Immunoassay Result [2] | VOC Jar Headspace Result [3] |
|---|---|---|---|---|---|---|---|
| DCR-VER-34 | 9/1/95 | Dave Perry | Grid 34 | 9/4/95 | Julie Schreiber | < 1 ppm | [4] |
| DCR-VER-35 | 9/1/95 | Dave Perry | Grid 35 | 9/4/95 | Julie Schreiber | < 1 ppm | [4] |
| DCR-VER-36 | 9/1/95 | Dave Perry | Grid 36 | 9/4/95 | Julie Schreiber | < 1 ppm | [4] |
| DCR-VER-37 | 9/1/95 | Dave Perry | Grid 37 | 9/4/95 | Julie Schreiber | < 1 ppm | [4] |
| DCR-VER-38 | 9/1/95 | Dave Perry | Grid 38 | 9/4/95 | Julie Schreiber | < 1 ppm | [4] |
| DCR-VER-39 | 9/1/95 | Dave Perry | Grid 39 | 9/4/95 | Julie Schreiber | < 1 ppm | [4] |
| DCR-VER-40 | 9/1/95 | Dave Perry | Grid 40 | 9/4/95 | Julie Schreiber | < 1 ppm | [4] |
| DCR-VER-41 | 9/1/95 | Dave Perry | Grid 41 | 9/4/95 | Julie Schreiber | < 1 ppm | [4] |
| DCR-VER-42 | 9/1/95 | Dave Perry | Grid 42 | 9/4/95 | Julie Schreiber | < 1 ppm | [4] |
| DCR-VER-43 | 9/1/95 | Dave Perry | Grid 43 | 9/4/95 | Julie Schreiber | < 1 ppm | [4] |
| DCR-VER-44 | 9/1/95 | Dave Perry | Grid 44 | 9/4/95 | Julie Schreiber | < 1 ppm | [4] |
| DCR-VER-45 | 9/1/95 | Dave Perry | Grid 45 | 9/4/95 | Julie Schreiber | < 1 ppm | [4] |
| DCR-VER-46 | 9/26/95 | Christina Osvoldik | Grid 46 | 9/26/95 | Christina Osvoldik | < 1 ppm | [4] |
| DCR-VER-47 | 9/26/95 | Christina Osvoldik | Grid 47 | 9/26/95 | Christina Osvoldik | < 1 ppm | [4] |
| DCR-VER-48 [5] | 9/1/95 | Julie Schreiber | West Sideslope-Area 1 | 9/4/95 | Julie Schreiber | < 1 ppm | ND |
| DCR-VER-49 [5] | 9/1/95 | Julie Schreiber | West Sideslope-Area 1 | 9/7/95 | Julie Schreiber | < 1 ppm | ND |
| DCR-VER-50 [5] | 9/1/95 | Christina Osvoldik | West Sideslope-Area2 | 9/4/95 | Julie Schreiber | < 1 ppm | 2 ppm |
| DCR-VER-51 [6] | 9/1/95 | Julie Schreiber | Decon-Area 1 | 9/7/95 | Julie Schreiber | > 1 ppm | 2 ppm |
| DCR-VER-52 [6] | 9/1/95 | Julie Schreiber | Decon-Area 1 | 9/7/95 | Julie Schreiber | > 1 ppm | 2 ppm |
| DCR-VER-53 [6] | 9/1/95 | Christina Osvoldik | Loading Ramp-Area2 | 9/4/95 | Julie Schreiber | > 1 ppm | ND |
| DCR-VER-54 [6] | 9/1/95 | Christina Osvoldik | Loading Ramp-Area2 | 9/4/95 | Julie Schreiber | > 1 ppm | ND |
| DCR-VER-55 [6] | 9/1/95 | Dave Perry | Platform-South Swale | 9/4/95 | Julie Schreiber | < 1 ppm | [4] |
| DCR-VER-56 [6] | 9/1/95 | Dave Perry | Platform-South Swale | 9/4/95 | Julie Schreiber | < 1 ppm | [4] |
| DCR-VER-57 [7] | 9/14/95 | Julie Schreiber | Loading Ramp-Area2 | 9/14/95 | Julie Schreiber | > 1 ppm | --- |
| DCR-VER-58 [7] | 9/14/95 | Julie Schreiber | Loading Ramp-Area2 | 9/14/95 | Julie Schreiber | < 1 ppm | --- |
| DCR-VER-59 [7] | 9/18/95 | Julie Schreiber | Loading Ramp-Area2 | 9/18/95 | Julie Schreiber | < 1 ppm | --- |
| DCR-VER-60 [7] | 9/19/95 | Christina Osvoldik | Decon-Area 1 | 9/19/95 | Christina Osvoldik | > 1 ppm | --- |
| DCR-VER-61 [7] | 9/19/95 | Christina Osvoldik | Decon-Area 1 | 9/19/95 | Christina Osvoldik | > 1 ppm | --- |
| DCR-VER-62 [7] | 9/19/95 | Christina Osvoldik | Decon-Area 1 | 9/19/95 | Christina Osvoldik | > 1 ppm | --- |
| DCR-VER-63 [7] | 9/19/95 | Christina Osvoldik | Decon-Area 1 | 9/19/95 | Christina Osvoldik | < 1 ppm | --- |
| DCR-VER-64 [7] | 9/20/95 | Julie Schreiber | Decon-Area 1 | 9/20/95 | Julie Schreiber | > 1 ppm | --- |
| DCR-VER-65 [7] | 9/20/95 | Julie Schreiber | Decon-Area 1 | 9/20/95 | Julie Schreiber | > 1 ppm | --- |
| DCR-VER-66 [7] | 9/20/95 | Julie Schreiber | Decon-Area 1 | 9/20/95 | Julie Schreiber | < 1 ppm | --- |
| DCR-VER-67 [7] | 9/20/95 | Julie Schreiber | Decon-Area 1 | 9/20/95 | Julie Schreiber | > 1 ppm | --- |
| DCR-VER-68 [7] | 9/21/95 | Julie Schreiber | Decon-Area 1 | 9/21/95 | Julie Schreiber | < 1 ppm | --- |
| DCR-VER-69 [7] | 9/21/95 | Julie Schreiber | Decon-Area 1 | 9/21/95 | Julie Schreiber | < 1 ppm | --- |
| DCR-VER-70 [7] | 9/21/95 | Julie Schreiber | Decon-Area 1 | 9/21/95 | Julie Schreiber | < 1 ppm | --- |
| DCR-VER-71 | 10/12/95 | Julie Schreiber | Grid 48 | 10/12/95 | Julie Schreiber | < 1 ppm | 3 ppm |
| DCR-VER-72 | 10/12/95 | Julie Schreiber | Grid 49 | 10/12/95 | Julie Schreiber | < 1 ppm | 1 ppm |
| DCR-VER-73 [6] | 10/12/95 | Julie Schreiber | North Sideslope - Area2 | 10/12/95 | Julie Schreiber | < 1 ppm | 1 ppm |

*Continued on next page*

ALCOA REMEDIATION PROJECTS ORGANIZATION
DENNISON CROSS ROAD SITE
CLEANUP BERIFICATION SAMPLING AND ANALYSIS REPORT

Table A-1 *(Continued)*

Field Screening Results of Cleanup Verification Testing [1]

| Sample Number | Date Sampled | Sampled By | Sample Location | Date Tested | Tested By | PCB Immunoassay Result [2] | VOC Jar Headspace Result [3] |
|---|---|---|---|---|---|---|---|
| DCR-VER-74 [6] | 10/12/95 | Julie Schreiber | East Sideslope - Area2 | 10/12/95 | Julie Schreiber | < 1 ppm | ND |
| DCR-VER-75 [6] | 10/12/95 | Julie Schreiber | East Sideslope - Area2 | 10/12/95 | Julie Schreiber | < 1 ppm | ND |
| DCR-VER-76 [6] | 10/12/95 | Julie Schreiber | West Sideslope - Area2 | 10/12/95 | Julie Schreiber | < 1 ppm | ND |
| DCR-VER-200 [8] | 9/1/95 | Julie Schreiber | Grid 3 | 9/7/95 | Julie Schreiber | < 1 ppm | ND |
| DCR-VER-201 [9] | 9/1/95 | Christina Osvoldik | Grid 18 | 9/7/95 | Julie Schreiber | < 1 ppm | ND |
| DCR-VER-202 [10] | 9/1/95 | Dave Perry | Grid 28 | 9/7/95 | Julie Schreiber | < 1 ppm | [4] |

Notes:

(1) The samples are initially field screened by immunoassay (PCB) and jar headspace (VOC) procedures. Samples that contain 1 ppm PCBs and < 5 ppm total organic vapors according to the field screening procedure, will be sent to the laboratory for analysis.

(2) The immunoassay test kit used for the PCB analysis is the EnSys Samplepro PCB Test Kit.

(3) The VOC jar headspace analysis is performed in accordance with the QAPP.

(4) The cleanup verification plan does not require a VOC jar headspace or laboratory analysis for samples in the southern swale.

(5) Additional laboratory sample requested by the onsite NYSDEC representative.

) Additional field screening sample requested by the onsite NYSDEC representative.

(7) Additional PCB field screening sample collected after additional excavation in Areas 1 and 2.

(8) Field duplicate of DCR-VER-03.

(9) Field duplicate of DCR-VER-18.

(10) Field duplicate of DCR-VER-28.

ND-Non-detect

# Appendix B

## Analytical Data
## Performed by RECRA Environmental Inc.

Lab Reports Dated:

September 29, 1995
September 29, 1995
September 29, 1995
October 2, 1995
October 2, 1995
October 26, 1995
November 11, 1995

Sample ID Nos.:

Lab Report Dated:

September 29, 1995

DCR-VER-02
DCR-VER-03
DCR-VER-04
DCR-VER-06
DCR-VER-07
DCR-VER-12
DCR-VER-13
DCR-VER-14
DCR-VER-17
DCR-VER-18
DCR-VER-19
DCR-VER-20
DCR-VER-21
DCR-VER-22
DCR-VER-45
DCR-VER-200
DCR-VER-202
MW-546-01
MW-546-04
MW-546-05

RECRA
ENVIRONMENTAL
INC.

Chemical and Environmental Analysis Services

September 29, 1995

Mr. Joseph Mihm
Camp, Dresser and McKee / Alcoa
Park Avenue East, Building 65
Massena, NY 13665

RE: **Analytical Results**

Dear Mr. Mihm:

Please find enclosed the data package concerning the analyses of samples recently submitted by your firm. The pertinent information regarding these analyses is listed below:

| | |
|---|---|
| Quote No.: | NY95-438 |
| REI: | 19 |
| SDG #: | VER2D |
| Matrix: | Soil & Water |
| Sample Receipt Date: | 09/02/95 |
| Sample Date: | 09/01/95 |

If you have any questions concerning these data, please contact Ms. Deborah A. Carella, Program Manager, at (800) 52R-ECRA and refer to the I.D. number listed below.

Sincerely,

RECRA ENVIRONMENTAL, INC.

Kenneth E. Kasperek
Laboratory Manager

DAC/KEK/dms
Enclosure
cc: Frances Gero (cover letter only)
Aluminum Company of America
Mr. Bernard Kunkle (cover letter only)
Aluminum Company of America
Park Avenue East, BLDG. 65
Massena, NY 13665

Reviewed and approved by/date:

for Deborah A. Carella, Program Manager 9/29/95

ID #A95-4683
#NY5A5754

Mihm ) LH2
Schultz )
Schlaber
Cochrane
Winkelbauer

SAMPLE DATA SUMMARY PACKAGE

RECRA
ENVIRONMENTAL
INC.

SDG NARRATIVE:

Laboratory: Recra Environmental, Inc.

Laboratory Code: RECNY

Contract No.: NY95-438

SDG No.: VER2D

Sample Identifications:

DCR-VER-02
DCR-VER-02 MATRIX SPIKE
DCR-VER-02 MATRIX SPIKE DUPLICATE
DCR-VER-03
DCR-VER-04
DCR-VER-06
DCR-VER-07
DCR-VER-12
DCR-VER-13
DCR-VER-14
DCR-VER-17
DCR-VER-18
DCR-VER-19
DCR-VER-20
DCR-VER-200
DCR-VER-202
DCR-VER-21
DCR-VER-22
DCR-VER-45
MW-546-01
MW-546-04
MW-546-05

METHODOLOGY

Analyses were performed in accordance with 1991 New York State Analytical Services protocol. (Revised 1993)

COMMENTS

Results are reported using standard qualifiers (Q) as defined on the Organic Data Comment Page.

Preliminary results were sent on September 11, 1995 via Airborne to Ms. Julie Schreiber of Camp, Dresser and McKee by Ms. Deborah Carella of Recra Environmental.

Quality Control analysis was performed on a batch basis for water samples.

SEMIVOLATILE DATA

Semivolatile sample and standard areas are listed on the corresponding data system printouts.

Semivolatile data was processed utilizing Finnigan Autoquantitation, Teknivant Datasystem and Recra Environmental's Inc.'s Analytical Information Management Systems (AIMS). All compounds determined to be present by the computer-generated autoquantitation were subjected to a manual ion search for secondary and tertiary ions. False positive compounds are crossed out, initialed and dated in this data package.

Samples SBLK89, DCR-VER-14, DCR-VER-17, DCR-VER-18, DCR-VER-19, DCR-VER-20, DCR-VER-21, DCR-VER-22, DCR-VER-45, DCR-VER-200, DCR-VER-202 and soil MSBLANK were all spiked with 80ng of internal standard.

Samples DCR-VER-02 and DCR-VER-02RE both exhibit the recovery of all six internal standards as below QC limits.

Samples DCR-VER-13 and DCR-VER-13RE both exhibit the recovery of all six internal standards as outside QC limits.

Sample DCR-VER-17 exhibits the recovery of internal standards Chrysene-d12 and Phenanthrene-d10 as above QC limits. However, this is not actually the case since the area of the internal standard in the sample is from 80ng of internal standard, while the area of the standard is from 40ng of internal standard.

PCB DATA

Due to suspected elevated concentrations of Polychlorinated Biphenyls (PCB's), samples DCRVER04, DCRVER07 and DCRVER17. were initially analyzed at a dilution factor of ten (10).

The surrogate recovery of Tetrachloro-m-xylene fell outside QC limits in samples PBLK14, PBLK16, DCRVER03, DCRVER07, DCRVER12,DCRVER13, DCRVER14, DCRVER17,DCRVER18, DCRVER20,DCRVER200, DCRVER21, DCRVER22, DCRVER45, MSB14, MSBD14, MSB16, MW54601, MW54604 and MW54605 on both the DB608 and DB1701 column. The surrogate recovery of Tetrachloro-m-xylene fell outside QC limits in sampleS DCRVER02MSD and DCRVER06 on the DB608 column.

The surrogate recovery of Decachlorobiphenyl fell outside QC limits in samples PBLK14, PBLK16, DCRVER18, DCRVER20, DCRVER21, DCRVER22, DCRVER45, MSB14, MSBD14, MW54601, MW54604 and MW54605 on both the DB608 and DB1701 columns. The surrogate recovery of Decachlorobiphenyl fell outside QC limits in sample DCRVER02MSD on the DB608 column. The surrogate recovery of Decachlorobiphenyl fell outside QC limits in sample DCRVER04 on the DB1701 column.

The Endrin percent breakdown and combined percent breakdown are above QC limits on the DB608 column in: PEM10 analyzed on 8/31/95 at 02:15; PEM11 analyzed on 9/6/95 at 14:08; PEM12 analyzed on 9/7/95 at 04:40; PEM13 analyzed on 9/8/95 at 03:49; PEM14 analyzed on 9/9/95 at 01:37; PEM15 analyzed on 9/10/95 at 01:36; PEM16 analyzed on 9/10/95 at 23:23.

The relative percent difference of Methoxychlor fell outside QC limits on the DB1701 column in: PEM10 analyzed on 8/31/95 at 02:15; PEM11 analyzed on 9/6/95 at 14:08; PEM12 analyzed on 9/7/95 at 04:40; PEM13 analyzed on 9/8/95 at 03:49; PEM14 analyzed on 9/9/95 at 01:37; PEM15 analyzed on 9/10/95 at 01:36; PEM16 analyzed on 9/10/95 at 23:23.

The relative percent difference of Methoxychlor fell outside QC limits on the DB608 column in: INDAM08 analyzed on 8/31/95 at 07:21; INDAM10 analyzed on 9/7/95 at 16:55. The relative percent difference of 4,4'-DDT and Methoxychlor fell outside QC limits on the DB608 column in: INDAM11 analyzed on 9/8/95 at 14:43. The relative percent difference of Endrin, 4,4'-DDT and Methoxychlor fell outside QC limits on the DB608 column in: INDAM12 analyzed on 9/10/95 at 12:28. INDAM13 analyzed on 9/11/95 at 11:01 exhibits the relative percent difference of Endrin, 4,4'-DDT and Methoxychlor as outside QC limits on column DB608.

The relative percent difference of Methoxychlor fell outside QC limits on the DB1701 column in: INDAM10 analyzed on 9/7/95 at 16:55. The relative percent difference of 4,4'-DDT and Methoxychlor fell outside QC limits on the DB608 column in: INDAM11 analyzed on 9/8/95 at 14:43 and INDAM12 analyzed on 9/10/95 at 12:28. INDAM13 analyzed on 9/11/95 at 11:01 exhibits the relative percent difference of Endrin, 4,4'-DDT and Methoxychlor as outside QC limits on column DB608.

The percent recovery of 4,4'-DDT fell outside QC limits for the Pest GPC calibration.

PIBLK22 analyzed on 9/7/95 at 03:57; PEM12 analyzed on 9/7/95 at 04:40; PEM13 analyzed on 9/8/95 at 03:49; PIBLK29 analyzed on 9/10/95 at 22:40 and PEM16 analyzed on 9/10/95 at 23:23 all exhibit the retention time of Decachlorobiphenyl outside QC limits on the DB1701 column.

"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 his designee, as verified by the following signature."

KE Kasperek

Kenneth E. Kasperek
Laboratory Director

9/29/95

Date

# ORGANIC DATA COMMENT PAGE

Laboratory Name RECRA ENVIRONMENTAL, INC.

USEPA Defined Organic Data Qualifiers:

U - Indicates compound was analyzed for but not detected.

J - Indicates an estimate value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.

C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

G - The TCLP Matrix Spike recovery was greater than the upper limit of the analytical method.

L - The TCLP Matrix Spike recovery was lower than the lower limit of the analytical method.

T - This flag is used when the analyte is found in the associated TCLP extraction as well as in the sample.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results.

P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a "P".

A - This flag indicates that a TIC is a suspected aldol-condensation product.

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ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
ANALYSIS DATA SHEET

**000006**
Client No.

DCR-VER-02

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) SOIL Lab Sample ID: A5468301

Sample wt/vol: 40.35 (g/mL) G Lab File ID: 23281X.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: 7.6 decanted: (Y/N) N Date Extracted: 09/05/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/10/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.3

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| [illegible]-12-7 | ANTHRACENE | 300 | U |
| [illegible]5-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 97 | J |
| 50-32-8 | BENZO(A)PYRENE | 300 | U |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

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ANALYSIS DATA SHEET

**000007**
Client No.

DCR-VER-02RE

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) SOIL Lab Sample ID: A5468301RI

Sample wt/vol: 40.48 (g/mL) G Lab File ID: 23305X.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: 7.6 decanted: (Y/N) N Date Extracted: 09/05/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/11/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.3

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| [illegible]-12-7 | ANTHRACENE | 300 | U |
| [illegible]-55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 97 | J |
| 50-32-8 | BENZO(A)PYRENE | 300 | U |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

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ANALYSIS DATA SHEET

**000008**

Client No.

DCR-VER-03

ab Name: Recra Environmental, Contract: MQ772732MQ

ab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

atrix: (soil/water) SOIL Lab Sample ID: A5468302

ample wt/vol: 40.09 (g/mL) G Lab File ID: 23284X.MSQ

evel: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

Moisture: 7.3 decanted: (Y/N) N Date Extracted: 09/05/95

oncentrated Extract Volume: 500 (uL) Date Analyzed: 09/10/95

njection Volume: 2.00 (uL) Dilution Factor: 1.00

PC Cleanup: (Y/N) Y pH: 8.6

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| -12-7 | ANTHRACENE | 300 | U |
| 5-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 15 | J |
| 50-32-8 | BENZO(A)PYRENE | 9 | J |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

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ANALYSIS DATA SHEET

000009

Client No.

DCR-VER-04

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) SOIL Lab Sample ID: A5468303

Sample wt/vol: 40.40 (g/mL) G Lab File ID: 23285X.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: 8.5 decanted: (Y/N) N Date Extracted: 09/05/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/10/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.2

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| [illegible]-12-7 | ANTHRACENE | 300 | U |
| [illegible]5-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 85 | J |
| 50-32-8 | BENZO(A)PYRENE | 300 | U |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

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ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
ANALYSIS DATA SHEET

000010

Client No.

DCR-VER-06

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) SOIL Lab Sample ID: A5468304

Sample wt/vol: 40.03 (g/mL) G Lab File ID: 23306X.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: 7.5 decanted: (Y/N) N Date Extracted: 09/05/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/11/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.5

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| -12-7 | ANTHRACENE | 300 | U |
| 55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 28 | J |
| 50-32-8 | BENZO(A)PYRENE | 14 | J |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

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ANALYSIS DATA SHEET

**000011**

Client No.

DCR-VER-07

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) SOIL Lab Sample ID: A5468305

Sample wt/vol: 40.08 (g/mL) G Lab File ID: 23307X.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: 7.0 decanted: (Y/N) N Date Extracted: 09/05/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/11/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.3

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| 120-12-7 | ANTHRACENE | 300 | U |
| 56-55-3 | BENZO(A)ANTHRACENE | 8 | J |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 42 | J |
| 50-32-8 | BENZO(A)PYRENE | 300 | U |
| 218-01-9 | CHRYSENE | 19 | J |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

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000012

Client No.

DCR-VER-12

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) SOIL Lab Sample ID: A5468306

Sample wt/vol: 40.03 (g/mL) G Lab File ID: 23288X.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: 9.0 decanted: (Y/N) N Date Extracted: 09/05/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/10/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| [illegible]-12-7 | ANTHRACENE | 300 | U |
| [illegible]5-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 300 | U |
| 50-32-8 | BENZO(A)PYRENE | 300 | U |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

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Client No.

DCR-VER-13

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) SOIL Lab Sample ID: A5468307

Sample wt/vol: 40.48 (g/mL) G Lab File ID: 23289X.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: 5.8 decanted: (Y/N) N Date Extracted: 09/05/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/10/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.4

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| [illegible]-12-7 | ANTHRACENE | 300 | U |
| [illegible]55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 300 | U |
| 50-32-8 | BENZO(A)PYRENE | 300 | U |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

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**000014**

Client No.

DCR-VER-13RE

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) SOIL Lab Sample ID: A5468307RI

Sample wt/vol: 40.48 (g/mL) G Lab File ID: 23310X.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: 5.8 decanted: (Y/N) N Date Extracted: 09/05/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/11/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.4

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| [illegible]-12-7 | ANTHRACENE | 300 | U |
| 56-55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 300 | U |
| 50-32-8 | BENZO(A)PYRENE | 300 | U |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

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Client No.

DCR-VER-14

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) SOIL Lab Sample ID: A5468308

Sample wt/vol: 40.14 (g/mL) G Lab File ID: Z24226.RR

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: 6.4 decanted: (Y/N) N Date Extracted: 09/05/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/08/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.5

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| [illegible]-12-7 | ANTHRACENE | 300 | U |
| [illegible]-55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 300 | U |
| 50-32-8 | BENZO(A)PYRENE | 300 | U |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

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Client No.

DCR-VER-17

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) SOIL Lab Sample ID: A5468309

Sample wt/vol: 40.53 (g/mL) G Lab File ID: Z24227.RR

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: 11.1 decanted: (Y/N) N Date Extracted: 09/05/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/08/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| [illegible]-12-7 | ANTHRACENE | 300 | U |
| 56-55-3 | BENZO(A)ANTHRACENE | 85 | J |
| 205-99-2 | BENZO(B)FLUORANTHENE | 160 | J |
| 207-08-9 | BENZO(K)FLUORANTHENE | 32 | J |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 43 | J |
| 50-32-8 | BENZO(A)PYRENE | 110 | J |
| 218-01-9 | CHRYSENE | 89 | J |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 130 | J |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 43 | J |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 53 | J |
| 129-00-0 | PYRENE | 120 | J |

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**000017**

Client No.

DCR-VER-18

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) SOIL Lab Sample ID: A5468316

Sample wt/vol: 40.33 (g/mL) G Lab File ID: Z24231.RR

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: 8.5 decanted: (Y/N) N Date Extracted: 09/05/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/08/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.4

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| -12-7 | ANTHRACENE | 300 | U |
| 55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 300 | U |
| 50-32-8 | BENZO(A)PYRENE | 300 | U |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

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**000018**

Client No.

DCR-VER-19

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) SOIL Lab Sample ID: A5468317

Sample wt/vol: 40.59 (g/mL) G Lab File ID: Z24232.RR

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: 1.9 decanted: (Y/N) N Date Extracted: 09/05/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/08/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.4

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| 120-12-7 | ANTHRACENE | 300 | U |
| 56-55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 300 | U |
| 50-32-8 | BENZO(A)PYRENE | 300 | U |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

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**000019**

Client No.

DCR-VER-20

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) SOIL Lab Sample ID: A5468318

Sample wt/vol: 40.84 (g/mL) G Lab File ID: Z24233.RR

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: 7.6 decanted: (Y/N) N Date Extracted: 09/05/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/08/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.5

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| [illegible]-12-7 | ANTHRACENE | 300 | U |
| 56-55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 300 | U |
| 50-32-8 | BENZO(A)PYRENE | 300 | U |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

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**000020**
Client No.

DCR-VER-21

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) SOIL Lab Sample ID: A5468319

Sample wt/vol: 40.60 (g/mL) G Lab File ID: 23280X.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

Moisture: 12.3 decanted: (Y/N) N Date Extracted: 09/05/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/10/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.5

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| 12-7 | ANTHRACENE | 300 | U |
| 56-55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 300 | U |
| 50-32-8 | BENZO(A)PYRENE | 300 | U |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

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Client No.

DCR-VER-22

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) SOIL Lab Sample ID: A5468320

Sample wt/vol: 40.40 (g/mL) G Lab File ID: Z24235.RR

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: 14.3 decanted: (Y/N) N Date Extracted: 09/05/95

Concentrated Extract Volume: 500(uL) Date Analyzed: 09/08/95

Injection Volume: 2.00(uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| [illegible]-12-7 | ANTHRACENE | 300 | U |
| 55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 300 | U |
| 50-32-8 | BENZO(A)PYRENE | 300 | U |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

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000022

Client No.

DCR-VER-45

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) SOIL Lab Sample ID: A5468314

Sample wt/vol: 40.01 (g/mL) G Lab File ID: Z24229.RR

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: 7.1 decanted: (Y/N) N Date Extracted: 09/05/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/08/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.6

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| [illegible]-12-7 | ANTHRACENE | 300 | U |
| [illegible]-55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 300 | U |
| 50-32-8 | BENZO(A)PYRENE | 300 | U |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

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**000023**

Client No.

DCR-VER-200

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) SOIL Lab Sample ID: A5468310

Sample wt/vol: 40.45 (g/mL) G Lab File ID: Z24228.RR

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

Moisture: 7.2 decanted: (Y/N) N Date Extracted: 09/05/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/08/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.5

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| 120-12-7 | ANTHRACENE | 300 | U |
| 56-55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 300 | U |
| 50-32-8 | BENZO(A)PYRENE | 300 | U |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

ALUMINUM COMPANY OF AMERICA
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ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
ANALYSIS DATA SHEET

000024

Client No.

DCR-VER-202

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) SOIL Lab Sample ID: A5468315

Sample wt/vol: 40.41 (g/mL) G Lab File ID: Z24230.RR

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: 7.8 decanted: (Y/N) N Date Extracted: 09/05/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/08/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.6

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| [illegible]-12-7 | ANTHRACENE | 300 | U |
| 56-55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 300 | U |
| 50-32-8 | BENZO(A)PYRENE | 300 | U |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - POLYNUCLEAR AROMATIC HYDROCARBONS
ANALYSIS DATA SHEET

**000025**

Client No.

MW-546-01

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) WATER Lab Sample ID: A5468312

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 23233X.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/06/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/07/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 10 | U |
| 208-96-8 | ACENAPHTHYLENE | 10 | U |
| 0-12-7 | ANTHRACENE | 10 | U |
| -55-3 | BENZO(A)ANTHRACENE | 10 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 10 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 10 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 10 | U |
| 50-32-8 | BENZO(A)PYRENE | 10 | U |
| 218-01-9 | CHRYSENE | 10 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 10 | U |
| 206-44-0 | FLUORANTHENE | 10 | U |
| 86-73-7 | FLUORENE | 10 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 10 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 10 | U |
| 91-20-3 | NAPHTHALENE | 10 | U |
| 85-01-8 | PHENANTHRENE | 10 | U |
| 129-00-0 | PYRENE | 10 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - POLYNUCLEAR AROMATIC HYDROCARBONS
ANALYSIS DATA SHEET

000020

Client No.

MW-546-04

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) WATER Lab Sample ID: A5468311

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 23232X.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/06/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 09/07/95

Injection Volume: 2.00(uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 10 | U |
| 208-96-8 | ACENAPHTHYLENE | 10 | U |
| 120-12-7 | ANTHRACENE | 10 | U |
| 56-55-3 | BENZO(A)ANTHRACENE | 10 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 10 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 10 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 10 | U |
| 50-32-8 | BENZO(A)PYRENE | 10 | U |
| 218-01-9 | CHRYSENE | 10 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 10 | U |
| 206-44-0 | FLUORANTHENE | 10 | U |
| 86-73-7 | FLUORENE | 10 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 10 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 10 | U |
| 91-20-3 | NAPHTHALENE | 10 | U |
| 85-01-8 | PHENANTHRENE | 10 | U |
| 129-00-0 | PYRENE | 10 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - POLYNUCLEAR AROMATIC HYDROCARBONS
ANALYSIS DATA SHEET

000027

Client No.

MW-546-05

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) WATER Lab Sample ID: A5468313

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 23234X.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/06/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/07/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 10 | U |
| 208-96-8 | ACENAPHTHYLENE | 10 | U |
| [illegible]-12-7 | ANTHRACENE | 10 | U |
| [illegible]55-3 | BENZO(A)ANTHRACENE | 10 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 10 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 10 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 10 | U |
| 50-32-8 | BENZO(A)PYRENE | 10 | U |
| 218-01-9 | CHRYSENE | 10 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 10 | U |
| 206-44-0 | FLUORANTHENE | 10 | U |
| 86-73-7 | FLUORENE | 10 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 10 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 10 | U |
| 91-20-3 | NAPHTHALENE | 10 | U |
| 85-01-8 | PHENANTHRENE | 10 | U |
| 129-00-0 | PYRENE | 10 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DCRVER03 000028

Name: RECRA ENVIRON Contract: NY94-606

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) SOIL Lab Sample ID: A5468301

Sample wt/vol: 30.4 (g/mL) G Lab File ID: _____

% Moisture: 8 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/05/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 35 | U |
| 11104-28-2 | Aroclor-1221 | 72 | U |
| 11141-16-5 | Aroclor-1232 | 35 | U |
| 53469-21-9 | Aroclor-1242 | 35 | U |
| 12672-29-6 | Aroclor-1248 | 55 | |
| 11097-69-1 | Aroclor-1254 | 35 | U |
| 11096-82-5 | Aroclor-1260 | 120 | P |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CC002

DCRVER03

I Name: RECRA ENVIRON Contract: NY94-606

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) SOIL Lab Sample ID: A5468302

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 7 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/05/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 35 | U |
| 11104-28-2 | Aroclor-1221 | 72 | U |
| 11141-16-5 | Aroclor-1232 | 35 | U |
| 53469-21-9 | Aroclor-1242 | 35 | U |
| 12672-29-6 | Aroclor-1248 | 57 | |
| 11097-69-1 | Aroclor-1254 | 35 | U |
| 11096-82-5 | Aroclor-1260 | 5.5 | J |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DCRVER04 000030

Name: RECRA ENVIRON Contract: NY94-606

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) SOIL Lab Sample ID: A5468303

Sample wt/vol: 30.7 (g/mL) G Lab File ID: _____

% Moisture: 8 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/05/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/11/95

Injection Volume: 1.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 350 | U |
| 11104-28-2 | Aroclor-1221 | 710 | U |
| 11141-16-5 | Aroclor-1232 | 350 | U |
| 53469-21-9 | Aroclor-1242 | 350 | U |
| 12672-29-6 | Aroclor-1248 | 670 | P |
| 11097-69-1 | Aroclor-1254 | 350 | U |
| 11096-82-5 | Aroclor-1260 | 2200 | P |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000031

DCRVER06

L Name: RECRA ENVIRON Contract: NY94-606

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) SOIL Lab Sample ID: A5468304

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 7 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/05/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 35 | U |
| 11104-28-2 | Aroclor-1221 | 72 | U |
| 11141-16-5 | Aroclor-1232 | 35 | U |
| 53469-21-9 | Aroclor-1242 | 35 | U |
| 12672-29-6 | Aroclor-1248 | 35 | U |
| 11097-69-1 | Aroclor-1254 | 35 | U |
| 11096-82-5 | Aroclor-1260 | 35 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000032

DCRVER07

Name: RECRA ENVIRON Contract: NY94-606

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) SOIL Lab Sample ID: A5468305

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 7 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/05/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/11/95

Injection Volume: 1.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 350 | U |
| 11104-28-2 | Aroclor-1221 | 720 | U |
| 11141-16-5 | Aroclor-1232 | 350 | U |
| 53469-21-9 | Aroclor-1242 | 350 | U |
| 12672-29-6 | Aroclor-1248 | 2200 | |
| 11097-69-1 | Aroclor-1254 | 350 | U |
| 11096-82-5 | Aroclor-1260 | 1200 | |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DCRVER12

Name: RECRA ENVIRON Contract: NY94-606

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) SOIL Lab Sample ID: A5468306

Sample wt/vol: 30.2 (g/mL) G Lab File ID: _____

% Moisture: 9 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/05/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 36 | U |
| 11104-28-2 | Aroclor-1221 | 73 | U |
| 11141-16-5 | Aroclor-1232 | 36 | U |
| 53469-21-9 | Aroclor-1242 | 36 | U |
| 12672-29-6 | Aroclor-1248 | 11 | JP |
| 11097-69-1 | Aroclor-1254 | 36 | U |
| 11096-82-5 | Aroclor-1260 | 28 | J |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000034

DCRVER13

Lab Name: RECRA ENVIRON Contract: NY94-606

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) SOIL Lab Sample ID: A5468307

Sample wt/vol: 30.9 (g/mL) G Lab File ID: _____

% Moisture: 6 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/05/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 34 | U |
| 11104-28-2 | Aroclor-1221 | 69 | U |
| 11141-16-5 | Aroclor-1232 | 34 | U |
| 53469-21-9 | Aroclor-1242 | 34 | U |
| 12672-29-6 | Aroclor-1248 | 34 | U |
| 11097-69-1 | Aroclor-1254 | 34 | U |
| 11096-82-5 | Aroclor-1260 | 34 | U |

1D

EPA SAMPLE NO. 000035

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

DCRVER14

Name: RECRA ENVIRON Contract: NY94-606

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) SOIL Lab Sample ID: A5468308

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 6 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/05/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 35 | U |
| 11104-28-2 | Aroclor-1221 | 71 | U |
| 11141-16-5 | Aroclor-1232 | 35 | U |
| 53469-21-9 | Aroclor-1242 | 35 | U |
| 12672-29-6 | Aroclor-1248 | 27 | J |
| 11097-69-1 | Aroclor-1254 | 35 | U |
| 11096-82-5 | Aroclor-1260 | 16 | J |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. C00036

DCRVER17

Name: RECRA ENVIRON Contract: NY94-606

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) SOIL Lab Sample ID: A5468309

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 11 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/05/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/11/95

Injection Volume: 1.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 370 | U |
| 11104-28-2 | Aroclor-1221 | 750 | U |
| 11141-16-5 | Aroclor-1232 | 370 | U |
| 53469-21-9 | Aroclor-1242 | 370 | U |
| 12672-29-6 | Aroclor-1248 | 1100 | |
| 11097-69-1 | Aroclor-1254 | 370 | U |
| 11096-82-5 | Aroclor-1260 | 2300 | P |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000037

DCRVER18

Name: RECRA ENVIRON Contract: NY94-606

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) SOIL Lab Sample ID: A5468316

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 9 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/05/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 36 | U |
| 11104-28-2 | Aroclor-1221 | 73 | U |
| 11141-16-5 | Aroclor-1232 | 36 | U |
| 53469-21-9 | Aroclor-1242 | 36 | U |
| 12672-29-6 | Aroclor-1248 | 36 | U |
| 11097-69-1 | Aroclor-1254 | 36 | U |
| 11096-82-5 | Aroclor-1260 | 36 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: DCRVER19

Lab Name: RECRA ENVIRON Contract: NY94-606

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) SOIL Lab Sample ID: A5468317

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 2 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/05/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 34 | U |
| 11104-28-2 | Aroclor-1221 | 68 | U |
| 11141-16-5 | Aroclor-1232 | 34 | U |
| 53469-21-9 | Aroclor-1242 | 34 | U |
| 12672-29-6 | Aroclor-1248 | 10 | JP |
| 11097-69-1 | Aroclor-1254 | 34 | U |
| 11096-82-5 | Aroclor-1260 | 11 | J |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DCRVER20

Lab Name: RECRA ENVIRON Contract: NY94-606

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) SOIL Lab Sample ID: A5468318

Sample wt/vol: 30.3 (g/mL) G Lab File ID: _____

% Moisture: 8 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/05/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 36 | U |
| 11104-28-2 | Aroclor-1221 | 72 | U |
| 11141-16-5 | Aroclor-1232 | 36 | U |
| 53469-21-9 | Aroclor-1242 | 36 | U |
| 12672-29-6 | Aroclor-1248 | 36 | U |
| 11097-69-1 | Aroclor-1254 | 36 | U |
| 11096-82-5 | Aroclor-1260 | 36 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000040

DCRVER21

Name: RECRA ENVIRON Contract: NY94-606

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) SOIL Lab Sample ID: A5468319

Sample wt/vol: 30.3 (g/mL) G Lab File ID: _____

% Moisture: 12 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/05/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 37 | U |
| 11104-28-2 | Aroclor-1221 | 75 | U |
| 11141-16-5 | Aroclor-1232 | 37 | U |
| 53469-21-9 | Aroclor-1242 | 37 | U |
| 12672-29-6 | Aroclor-1248 | 37 | U |
| 11097-69-1 | Aroclor-1254 | 37 | U |
| 11096-82-5 | Aroclor-1260 | 37 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000041

DCRVER22

Lab Name: RECRA ENVIRON Contract: NY94-606

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) SOIL Lab Sample ID: A5468320

Sample wt/vol: 30.2 (g/mL) G Lab File ID: _____

% Moisture: 14 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/05/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/09/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

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

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 38 | U |
| 11104-28-2 | Aroclor-1221 | 77 | U |
| 11141-16-5 | Aroclor-1232 | 38 | U |
| 53469-21-9 | Aroclor-1242 | 38 | U |
| 12672-29-6 | Aroclor-1248 | 97 | |
| 11097-69-1 | Aroclor-1254 | 38 | U |
| 11096-82-5 | Aroclor-1260 | 130 | P |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
00002

DCRVER45

) Name: RECRA ENVIRON Contract: NY94-606

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) SOIL Lab Sample ID: A5468314

Sample wt/vol: 30.7 (g/mL) G Lab File ID: _____

% Moisture: 7 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/05/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 35 | U |
| 11104-28-2 | Aroclor-1221 | 70 | U |
| 11141-16-5 | Aroclor-1232 | 35 | U |
| 53469-21-9 | Aroclor-1242 | 35 | U |
| 12672-29-6 | Aroclor-1248 | 35 | U |
| 11097-69-1 | Aroclor-1254 | 35 | U |
| 11096-82-5 | Aroclor-1260 | 35 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DCRVER200

Lab Name: RECRA ENVIRON Contract: NY94-606

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) SOIL Lab Sample ID: A5468310

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 7 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/05/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 35 | U |
| 11104-28-2 | Aroclor-1221 | 72 | U |
| 11141-16-5 | Aroclor-1232 | 35 | U |
| 53469-21-9 | Aroclor-1242 | 35 | U |
| 12672-29-6 | Aroclor-1248 | 35 | U |
| 11097-69-1 | Aroclor-1254 | 35 | U |
| 11096-82-5 | Aroclor-1260 | 35 | U |

EPA SAMPLE NO.

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

DCRVER202

Lab Name: RECRA ENVIRON Contract: NY94-606

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) SOIL Lab Sample ID: A5468315

Sample wt/vol: 30.5 (g/mL) G Lab File ID: _____

% Moisture: 8 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/05/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

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

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 35 | U |
| 11104-28-2 | Aroclor-1221 | 72 | U |
| 11141-16-5 | Aroclor-1232 | 35 | U |
| 53469-21-9 | Aroclor-1242 | 35 | U |
| 12672-29-6 | Aroclor-1248 | 35 | U |
| 11097-69-1 | Aroclor-1254 | 35 | U |
| 11096-82-5 | Aroclor-1260 | 12 | JP |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000045

MW54601

Name: RECRA ENVIRON Contract: NY94-606

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) WATER Lab Sample ID: A5468312

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/07/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/07/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) Y

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.065 | U |
| 11104-28-2 | Aroclor-1221 | 0.065 | U |
| 11141-16-5 | Aroclor-1232 | 0.065 | U |
| 53469-21-9 | Aroclor-1242 | 0.065 | U |
| 12672-29-6 | Aroclor-1248 | 0.065 | U |
| 11097-69-1 | Aroclor-1254 | 0.065 | U |
| 11096-82-5 | Aroclor-1260 | 0.024 | JP |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW54604

L. Name: RECRA ENVIRON Contract: NY94-606

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) WATER Lab Sample ID: A5468311

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/07/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/07/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) Y

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.065 | U |
| 11104-28-2 | Aroclor-1221 | 0.065 | U |
| 11141-16-5 | Aroclor-1232 | 0.065 | U |
| 53469-21-9 | Aroclor-1242 | 0.065 | U |
| 12672-29-6 | Aroclor-1248 | 0.065 | U |
| 11097-69-1 | Aroclor-1254 | 0.065 | U |
| 11096-82-5 | Aroclor-1260 | 0.0071 | JP |

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000047

MW54605

Name: RECRA ENVIRON Contract: NY94-606

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) WATER Lab Sample ID: A5468313

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/07/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/07/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) Y

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.065 | U |
| 11104-28-2 | Aroclor-1221 | 0.065 | U |
| 11141-16-5 | Aroclor-1232 | 0.065 | U |
| 53469-21-9 | Aroclor-1242 | 0.065 | U |
| 12672-29-6 | Aroclor-1248 | 0.065 | U |
| 11097-69-1 | Aroclor-1254 | 0.065 | U |
| 11096-82-5 | Aroclor-1260 | 0.065 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - POLYNUCLEAR AROMATIC HYDROCARBONS
WATER SURROGATE RECOVERY



Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

| | Client Sample ID | 2CP %REC | # | DCB %REC | # | FBP %REC | # | NBZ %REC | # | PHL %REC | # | TBP %REC | # | TPH %REC | # | ======= | TOT OUT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MS Blank | 51 | | 49 | | 54 | | 54 | | 53 | | 86 | | 88 | | | 0 |
| 2 | MW-546-01 | 57 | | 54 | | 54 | | 55 | | 52 | | 60 | | 88 | | | 0 |
| 3 | MW-546-04 | 56 | | 44 | | 46 | | 54 | | 50 | | 49 | | 71 | | | 0 |
| 4 | MW-546-05 | 46 | | 46 | | 46 | | 44 | | 42 | | 42 | | 62 | | | 0 |
| 5 | SBLK84 | 53 | | 52 | | 66 | | 61 | | 24 | | 54 | | 120 | | | 0 |

| | | | QC LIMITS |
|---|---|---|---|
| 2CP | = | 2-Chlorophenol-d4 | ( 33-110) |
| DCB | = | 1,2-Dichlorobenzene-d4 | ( 16-110) |
| FBP | = | 2-Fluorobiphenyl | ( 43-116) |
| NBZ | = | Nitrobenzene-D5 | ( 35-114) |
| PHL | = | Phenol-D5 | ( 10-110) |
| TBP | = | 2,4,6-Tribromophenol | ( 10-123) |
| TPH | = | Terphenyl-D14 | ( 33-141) |

\# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
SOIL SURROGATE RECOVERY



Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Level (low/med): LOW

| | Client Sample ID | 2CP %REC | # | 2FP %REC | # | DCB %REC | # | FBP %REC | # | NBZ %REC | # | PHL %REC | # | TBP %REC | # | TPH %REC | # | TOT OUT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | DCR-VER-02 | 36 | | 40 | | 36 | | 45 | | 41 | | 37 | | 38 | | 58 | | 0 |
| 2 | DCR-VER-02 MS | 35 | | 38 | | 34 | | 40 | | 36 | | 38 | | 45 | | 56 | | 0 |
| 3 | DCR-VER-02 MSD | 47 | | 48 | | 43 | | 51 | | 48 | | 50 | | 62 | | 65 | | 0 |
| 4 | DCR-VER-02RE | 48 | | 50 | | 41 | | 48 | | 43 | | 48 | | 32 | | 55 | | 0 |
| 5 | DCR-VER-03 | 58 | | 68 | | 59 | | 70 | | 66 | | 65 | | 93 | | 93 | | 0 |
| 6 | DCR-VER-04 | 44 | | 50 | | 43 | | 50 | | 47 | | 47 | | 66 | | 65 | | 0 |
| 7 | DCR-VER-06 | 84 | | 87 | | 61 | | 71 | | 68 | | 86 | | 108 | | 93 | | 0 |
| 8 | DCR-VER-07 | 81 | | 98 | | 65 | | 70 | | 74 | | 89 | | 110 | | 91 | | 0 |
| 9 | DCR-VER-12 | 66 | | 72 | | 67 | | 73 | | 80 | | 73 | | 106 | | 108 | | 0 |
| 10 | DCR-VER-13 | 52 | | 56 | | 53 | | 70 | | 56 | | 53 | | 53 | | 96 | | 0 |
| 11 | DCR-VER-13RE | 50 | | 57 | | 57 | | 72 | | 61 | | 45 | | 52 | | 95 | | 0 |
| 12 | DCR-VER-14 | 69 | | 87 | | 68 | | 90 | | 52 | | 68 | | 158 | * | 136 | | 1 |
| 13 | DCR-VER-17 | 78 | | 101 | | 90 | | 102 | | 64 | | 79 | | 120 | | 126 | | 0 |
| 14 | DCR-VER-18 | 56 | | 73 | | 55 | | 64 | | 55 | | 51 | | 104 | | 105 | | 0 |
| | DCR-VER-19 | 43 | | 58 | | 43 | | 47 | | 41 | | 42 | | 61 | | 54 | | 0 |
| | DCR-VER-20 | 64 | | 87 | | 62 | | 85 | | 49 | | 63 | | 126 | * | 111 | | 1 |
| 17 | DCR-VER-200 | 45 | | 53 | | 40 | | 38 | | 41 | | 40 | | 63 | | 50 | | 0 |
| 18 | DCR-VER-202 | 45 | | 55 | | 42 | | 44 | | 40 | | 42 | | 63 | | 63 | | 0 |
| 19 | DCR-VER-21 | 45 | | 48 | | 44 | | 46 | | 47 | | 47 | | 53 | | 64 | | 0 |
| 20 | DCR-VER-22 | 39 | | 48 | | 40 | | 39 | | 37 | | 36 | | 52 | | 48 | | 0 |
| 21 | DCR-VER-45 | 53 | | 67 | | 53 | | 63 | | 48 | | 52 | | 132 | * | 118 | | 1 |
| 22 | Matrix Spike Blank | 72 | | 86 | | 95 | | 74 | | 50 | | 66 | | 96 | | 79 | | 0 |
| 23 | SBLK13 | 50 | | 72 | | 56 | | 56 | | 54 | | 55 | | 63 | | 65 | | 0 |
| 24 | SBLK89 | 64 | | 69 | | 58 | | 61 | | 59 | | 63 | | 70 | | 68 | | 0 |

| | | | QC LIMITS |
|---|---|---|---|
| 2CP | = | 2-Chlorophenol-d4 | ( 20-130) |
| 2FP | = | 2-Fluorophenol | ( 25-121) |
| DCB | = | 1,2-Dichlorobenzene-d4 | ( 20-130) |
| FBP | = | 2-Fluorobiphenyl | ( 30-115) |
| NBZ | = | Nitrobenzene-D5 | ( 23-120) |
| PHL | = | Phenol-D5 | ( 24-113) |
| TBP | = | 2,4,6-Tribromophenol | ( 19-122) |
| TPH | = | Terphenyl-D14 | ( 18-137) |

\# Column to be used to flag recovery values
* Values outside of contract required QC limits
) Surrogates diluted out

2E
WATER PESTICIDE SURROGATE RECOVERY

000050

Lab Name: RECRA ENVIRON Contract: NY94-606

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

GC Column(1): DB608 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

| | EPA SAMPLE NO. | TCX 1 %REC # | TCX 2 %REC # | DCB 1 %REC # | DCB 2 %REC # | OTHER (1) | OTHER (2) | TOT OUT |
|---|---|---|---|---|---|---|---|---|
| 01 | PBLK14 | 16* | 15* | 36* | 33* | | | 4 |
| 02 | MSB14 | 15* | 14* | 33* | 30* | | | 4 |
| 03 | MSBD14 | 16* | 15* | 33* | 31* | | | 4 |
| 04 | MW54601 | 30* | 15* | 40* | 37* | | | 4 |
| 05 | MW54604 | 28* | 19* | 42* | 40* | | | 4 |
| 06 | MW54605 | 27* | 17* | 41* | 39* | | | 4 |

| | ADVISORY QC LIMITS |
|---|---|
| TCX = Tetrachloro-m-xylene | ( 60-150) |
| DCB = Decachlorobiphenyl | ( 60-150) |

# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

2F

# SOIL PESTICIDE SURROGATE RECOVERY

L Name: RECRA ENVIRON Contract: NY94-606

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

GC Column(1): DB608 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

| | EPA SAMPLE NO. | TCX 1 %REC # | TCX 2 %REC # | DCB 1 %REC # | DCB 2 %REC # | OTHER (1) | OTHER (2) | TOT OUT |
|---|---|---|---|---|---|---|---|---|
| 01 | PBLK16 | 45* | 44* | 53* | 50* | | | 4 |
| 02 | DCRVER02 | 69 | 78 | 72 | 102 | | | 0 |
| 03 | DCRVER03 | 57* | 57* | 65 | 64 | | | 2 |
| 04 | DCRVER04 | 62 | 64 | 106 | 154* | | | 1 |
| 05 | DCRVER06 | 59* | 60 | 70 | 70 | | | 1 |
| 06 | DCRVER07 | 48* | 51* | 72 | 64 | | | 2 |
| 07 | DCRVER12 | 46* | 47* | 66 | 65 | | | 2 |
| 08 | DCRVER13 | 55* | 56* | 65 | 64 | | | 2 |
| 09 | DCRVER14 | 44* | 46* | 62 | 61 | | | 2 |
| 10 | DCRVER17 | 47* | 50* | 77 | 71 | | | 2 |
| 11 | DCRVER18 | 36* | 38* | 50* | 48* | | | 4 |
| 12 | DCRVER19 | 68 | 69 | 86 | 86 | | | 0 |
| 13 | DCRVER20 | 39* | 40* | 52* | 51* | | | 4 |
| 14 | DCRVER200 | 58* | 59* | 85 | 83 | | | 2 |
| 15 | DCRVER202 | 62 | 63 | 80 | 80 | | | 0 |
| 16 | DCRVER21 | 30* | 30* | 48* | 46* | | | 4 |
| 17 | DCRVER22 | 21* | 20* | 48* | 53* | | | 4 |
| 18 | DCRVER45 | 34* | 35* | 50* | 48* | | | 4 |
| 19 | MSB16 | 52* | 52* | 63 | 61 | | | 2 |
| 20 | DCRVER02MS | 71 | 77 | 72 | 103 | | | 0 |
| 21 | DCRVER02MSD | 52* | 61 | 56* | 82 | | | 2 |

| | ADVISORY QC LIMITS |
|---|---|
| TCX = Tetrachloro-m-xylene | ( 60-150) |
| DCB = Decachlorobiphenyl | ( 60-150) |

\# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
SOIL MATRIX SPIKE BLANK RECOVERY

000052

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Lab Samp ID: A5B0584801

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix Spike - Client Sample No.: ~~SBLK13~~ MSBLK Level: (low/med) LOW

MTH 9/29/95

| COMPOUND | SPIKE ADDED UG/KG | MSB CONCENTRATION UG/KG | MSB % REC # | QC LIMITS REC. |
|---|---|---|---|---|
| Acenaphthene | 1200 | 1100 | 92 | 31 - 137 |
| Pyrene | 1200 | 1100 | 92 | 35 - 142 |

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

* Values outside of QC limits

Spike recovery: 0 out of 2 outside limits

Comments: _____

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - POLYNUCLEAR AROMATIC HYDROCARBONS
WATER MATRIX SPIKE BLANK RECOVERY

000053

La me: Recra Environmental, Inc. Contract: MQ772732MQ Lab Samp ID: A5B0586901

ab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix Spike - Client Sample No.: ~~SBLK04~~ MSBLANK
MSB 9/29/95

| COMPOUND | SPIKE ADDED UG/L | MSB CONCENTRATION UG/L | MSB % REC # | QC LIMITS REC. |
|---|---|---|---|---|
| Acenaphthene | 50 | 26 | 52 | 46 - 118 |
| Pyrene | 50 | 39 | 78 | 26 - 127 |

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

* Values outside of QC limits

Spike recovery: 0 out of 2 outside limits

Comments: _____

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
SOIL MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

000054

L. Name: Recra Environmental, Inc. Contract: MQ772732MQ Lab Samp ID: A5468301

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix Spike - Client Sample No.: DCR-VER-02 Level: (low/med) LOW

| COMPOUND | SPIKE ADDED UG/KG | SAMPLE CONCENTRATION UG/KG | MS CONCENTRATION UG/KG | MS % REC # | QC LIMITS REC. |
|---|---|---|---|---|---|
| Acenaphthene | 1300 | 0 | 560 | 43 | 31 - 137 |
| Pyrene | 1300 | 0 | 680 | 52 | 35 - 142 |

| COMPOUND | SPIKE ADDED UG/KG | MSD CONCENTRATION UG/KG | MSD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| Acenaphthene | 1400 | 700 | 50 | 15 | 19 | 31 - 137 |
| Pyrene | 1400 | 790 | 56 | 7 | 36 | 35 - 142 |

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

alues outside of QC limits

RPD: 0 out of 2 outside limits
Spike recovery: 0 out of 4 outside limits

Comments: _____

3E

WATER PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

b Name: RECRA ENVIRON Contract: NY94-606

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix Spike - EPA Sample No.: MSB14,MSBD14

| COMPOUND | SPIKE ADDED (ug/L) | MSB CONCENTRATION (ug/L) | MSB % REC # |
|---|---|---|---|
| Aroclor 1242 | 1.00 | 0.46 | 46 |

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC # | % RPD # |
|---|---|---|---|---|
| Aroclor 1242 | 1.00 | 0.49 | 49 | 6 |

COMMENTS:

3F

# SOIL PCB MATRIX SPIKE BLANK RECOVERY

Lab Name: RECRA ENVIRON Contract: NY94-606

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix Spike - EPA Sample No.: MSB16

| COMPOUND | SPIKE ADDED (ug/Kg) | MSB CONCENTRATION (ug/Kg) | MSB % REC # |
|---|---|---|---|
| Aroclor 1242 | 330 | 190 | 58 |

COMMENTS:

3F

# SOIL PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: RECRA ENVIRON Contract: NY94-606

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix Spike - EPA Sample No.: DCRVER02

| COMPOUND | SPIKE ADDED (ug/Kg) | SAMPLE CONCENTRATION (ug/Kg) | MS CONCENTRATION (ug/Kg) | MS % REC # |
|---|---|---|---|---|
| Aroclor 1242 | 361 | 0 | 310 | 86 |

| COMPOUND | SPIKE ADDED (ug/Kg) | MSD CONCENTRATION (ug/Kg) | MSD % REC # | % RPD # |
|---|---|---|---|---|
| Aroclor 1242 | 358 | 220 | 61 | 34 |

COMMENTS:

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - POLYNUCLEAR AROMATIC HYDROCARBONS
METHOD BLANK SUMMARY

000058

Client No.

SBLK84

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Lab File ID: 23238X.MSQ Lab Sample ID: A5B0586901

Instrument ID: I50X Date Extracted: 09/06/95

Matrix: (soil/water) WATER Date Analyzed: 09/08/95

Level: (low/med) LOW Time Analyzed: 08:23

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

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|---|
| 1 | MS Blank | A5468323 | 23274X.MSQ | 09/09/95 |
| 2 | MW-546-01 | A5468312 | 23233X.MSQ | 09/07/95 |
| 3 | MW-546-04 | A5468311 | 23232X.MSQ | 09/07/95 |
| 4 | MW-546-05 | A5468313 | 23234X.MSQ | 09/07/95 |

Comments: _____

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - POLYNUCLEAR AROMATIC HYDROCARBONS
ANALYSIS DATA SHEET

000059

Client No.

SBLK84

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) WATER Lab Sample ID: A5B0586901

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 23238X.MSQ

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/06/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/08/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 10 | U |
| 208-96-8 | ACENAPHTHYLENE | 10 | U |
| 120-12-7 | ANTHRACENE | 10 | U |
| 56-55-3 | BENZO(A)ANTHRACENE | 10 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 10 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 10 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 10 | U |
| 50-32-8 | BENZO(A)PYRENE | 10 | U |
| 218-01-9 | CHRYSENE | 10 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 10 | U |
| 206-44-0 | FLUORANTHENE | 10 | U |
| 86-73-7 | FLUORENE | 10 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 10 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 10 | U |
| 91-20-3 | NAPHTHALENE | 10 | U |
| 85-01-8 | PHENANTHRENE | 10 | U |
| 129-00-0 | PYRENE | 10 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
METHOD BLANK SUMMARY

000060
Client No.

SBLK13

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Lab File ID: Z24223.RR Lab Sample ID: A5B0584801

Instrument ID: I50Z-A Date Extracted: 09/05/95

Matrix: (soil/water) SOIL Date Analyzed: 09/08/95

Level: (low/med) LOW Time Analyzed: 11:12

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

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|---|
| 1 | DCR-VER-14 | A5468308 | Z24226.RR | 09/08/95 |
| 2 | DCR-VER-17 | A5468309 | Z24227.RR | 09/08/95 |
| 3 | DCR-VER-18 | A5468316 | Z24231.RR | 09/08/95 |
| 4 | DCR-VER-19 | A5468317 | Z24232.RR | 09/08/95 |
| 5 | DCR-VER-20 | A5468318 | Z24233.RR | 09/08/95 |
| 6 | DCR-VER-200 | A5468310 | Z24228.RR | 09/08/95 |
| 7 | DCR-VER-202 | A5468315 | Z24230.RR | 09/08/95 |
| 8 | DCR-VER-22 | A5468320 | Z24235.RR | 09/08/95 |
| 9 | DCR-VER-45 | A5468314 | Z24229.RR | 09/08/95 |
| 10 | Matrix Spike Blank | A5468321 | Z24224.RR | 09/08/95 |

Comments: _____

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
ANALYSIS DATA SHEET

Client No.: SBLK13

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) SOIL Lab Sample ID: A5B0584801

Sample wt/vol: 40.00 (g/mL) G Lab File ID: Z24223.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/05/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/08/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| 120-12-7 | ANTHRACENE | 300 | U |
| 56-55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 300 | U |
| 50-32-8 | BENZO(A)PYRENE | 300 | U |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
METHOD BLANK SUMMARY

000062
Client No.

SBLK89

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Lab File ID: 23290X.MSQ Lab Sample ID: A5468322

Instrument ID: I50X Date Extracted: 09/05/95

Matrix: (soil/water) SOIL Date Analyzed: 09/10/95

Level: (low/med) LOW Time Analyzed: 17:10

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

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|---|
| 1 | DCR-VER-02 | A5468301 | 23281X.MSQ | 09/10/95 |
| 2 | DCR-VER-02 MS | A5468301MS | 23282X.MSQ | 09/10/95 |
| 3 | DCR-VER-02 MSD | A5468301SD | 23283X.MSQ | 09/10/95 |
| 4 | DCR-VER-02RE | A5468301RI | 23305X.MSQ | 09/11/95 |
| 5 | DCR-VER-03 | A5468302 | 23284X.MSQ | 09/10/95 |
| 6 | DCR-VER-04 | A5468303 | 23285X.MSQ | 09/10/95 |
| 7 | DCR-VER-06 | A5468304 | 23306X.MSQ | 09/11/95 |
| 8 | DCR-VER-07 | A5468305 | 23307X.MSQ | 09/11/95 |
| 9 | DCR-VER-12 | A5468306 | 23288X.MSQ | 09/10/95 |
| 10 | DCR-VER-13 | A5468307 | 23289X.MSQ | 09/10/95 |
| 11 | DCR-VER-13RE | A5468307RI | 23310X.MSQ | 09/11/95 |
| 12 | DCR-VER-21 | A5468319 | 23280X.MSQ | 09/10/95 |

Comments: _____

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
ANALYSIS DATA SHEET

000063

Client No.

SBLK89

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) SOIL Lab Sample ID: A5468322

Sample wt/vol: 40.00 (g/mL) G Lab File ID: 23290X.MSQ

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/05/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/10/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| -12-7 | ANTHRACENE | 300 | U |
| 56-55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 300 | U |
| 50-32-8 | BENZO(A)PYRENE | 300 | U |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

4C

EPA SAMPLE NO.

PESTICIDE METHOD BLANK SUMMARY

PBLK14

Lab Name: RECRA ENVIRON Contract: NY94-606

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Lab Sample ID: A5B0590003 Lab File ID: _____

Matrix:(soil/water) WATER Extraction:(SepF/Cont/Sonc) SEPF

Sulfur Cleanup: (Y/N) Y Date Extracted: 09/07/95

Date Analyzed (1): 09/07/95 Date Analyzed (2): 09/07/95

Time Analyzed (1): 1822 Time Analyzed (2): 1822

Instrument ID (1): 5890A9 Instrument ID (2): 5890B9

GC Column (1): DB608 ID: 0.53 (mm) GC Column (2): DB1701 ID: 0.53 (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 | MSB14 | A5B0590001 | 09/07/95 | 09/07/95 |
| 02 | MSBD14 | A5B0590002 | 09/07/95 | 09/07/95 |
| 03 | MW54601 | A5468312 | 09/07/95 | 09/07/95 |
| 04 | MW54604 | A5468311 | 09/07/95 | 09/07/95 |
| 05 | MW54605 | A5468313 | 09/07/95 | 09/07/95 |

COMMENTS:

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK14

L Name: RECRA ENVIRON Contract: NY94-606

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) WATER Lab Sample ID: A5B0590003

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/07/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/07/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) Y

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.065 | U |
| 11104-28-2 | Aroclor-1221 | 0.065 | U |
| 11141-16-5 | Aroclor-1232 | 0.065 | U |
| 53469-21-9 | Aroclor-1242 | 0.065 | U |
| 12672-29-6 | Aroclor-1248 | 0.014 | JP |
| 11097-69-1 | Aroclor-1254 | 0.065 | U |
| 11096-82-5 | Aroclor-1260 | 0.065 | U |

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK16

Lab Name: RECRA ENVIRON Contract: NY94-606

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Lab Sample ID: A5B0584701 Lab File ID: _____

Matrix: (soil/water) SOIL Extraction: (SepF/Cont/Sonc) SONC

Sulfur Cleanup: (Y/N) N Date Extracted: 09/05/95

Date Analyzed (1): 09/08/95 Date Analyzed (2): 09/08/95

Time Analyzed (1): 0726 Time Analyzed (2): 0726

Instrument ID (1): 5890A9 Instrument ID (2): 5890B9

GC Column (1): DB608 ID: 0.53 (mm) GC Column (2): DB1701 ID: 0.53 (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 | DCRVER02 | A5468301 | 09/08/95 | 09/08/95 |
| 02 | DCRVER03 | A5468302 | 09/08/95 | 09/08/95 |
| 03 | DCRVER04 | A5468303 | 09/11/95 | 09/11/95 |
| 04 | DCRVER06 | A5468304 | 09/08/95 | 09/08/95 |
| 05 | DCRVER07 | A5468305 | 09/11/95 | 09/11/95 |
| 06 | DCRVER12 | A5468306 | 09/08/95 | 09/08/95 |
| 07 | DCRVER13 | A5468307 | 09/08/95 | 09/08/95 |
| 08 | DCRVER14 | A5468308 | 09/08/95 | 09/08/95 |
| 09 | DCRVER17 | A5468309 | 09/11/95 | 09/11/95 |
| 10 | DCRVER18 | A5468316 | 09/08/95 | 09/08/95 |
| 11 | DCRVER19 | A5468317 | 09/08/95 | 09/08/95 |
| 12 | DCRVER20 | A5468318 | 09/08/95 | 09/08/95 |
| 13 | DCRVER200 | A5468310 | 09/08/95 | 09/08/95 |
| 14 | DCRVER202 | A5468315 | 09/08/95 | 09/08/95 |
| 15 | DCRVER21 | A5468319 | 09/08/95 | 09/08/95 |
| 16 | DCRVER22 | A5468320 | 09/09/95 | 09/09/95 |
| 17 | DCRVER45 | A5468314 | 09/08/95 | 09/08/95 |
| 18 | MSB16 | A5468321 | 09/08/95 | 09/08/95 |
| 19 | DCRVER02MS | A5468301MS | 09/08/95 | 09/08/95 |
| 20 | DCRVER02MSD | A5468301SD | 09/08/95 | 09/08/95 |

COMMENTS:

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000067

PBLK16

1 Name: RECRA ENVIRON Contract: NY94-606

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Matrix: (soil/water) SOIL Lab Sample ID: A5B0584701

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/05/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/08/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 33 | U |
| 11104-28-2 | Aroclor-1221 | 67 | U |
| 11141-16-5 | Aroclor-1232 | 33 | U |
| 53469-21-9 | Aroclor-1242 | 33 | U |
| 12672-29-6 | Aroclor-1248 | 33 | U |
| 11097-69-1 | Aroclor-1254 | 33 | U |
| 11096-82-5 | Aroclor-1260 | 33 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - POLYNUCLEAR AROMATIC HYDROCARBONS
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

000068

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Labsampid: A5C0001229

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Lab File ID (Standard): 23226X.MSQ Date Analyzed: 09/07/95

Instrument ID: I50X Time Analyzed: 09:26

| | | IS1 (ANT) AREA | # | RT | # | IS2 (CRY) AREA | # | RT | # | IS3 (DCB) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 24094 | | 16.50 | | 26120 | | 29.23 | | 12792 | | 7.73 | |
| | UPPER LIMIT | 48188 | | 17.00 | | 52240 | | 29.73 | | 25584 | | 8.23 | |
| | LOWER LIMIT | 12047 | | 16.00 | | 13060 | | 28.73 | | 6396 | | 7.23 | |
| | CLIENT SAMPLE | | | | | | | | | | | | |
| 1 | MW-546-01 | 34098 | | 16.48 | | 30538 | | 29.20 | | 16094 | | 7.72 | |
| 2 | MW-546-04 | 32898 | | 16.48 | | 30850 | | 29.20 | | 16042 | | 7.72 | |
| 3 | MW-546-05 | 33252 | | 16.47 | | 29061 | | 29.20 | | 16244 | | 7.72 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS1 (ANT) = Acenaphthene-D10 | ( 50-200) | -0.50 / +0.50 min |
| IS2 (CRY) = Chrysene-D12 | ( 50-200) | -0.50 / +0.50 min |
| IS3 (DCB) = 1,4-Dichlorobenzene-D4 | ( 50-200) | -0.50 / +0.50 min |

# Column to be used to flag recovery values
* Values outside of contract required QC limits

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - POLYNUCLEAR AROMATIC HYDROCARBONS
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

000069

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Labsampid: A5C0001229

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Lab File ID (Standard): 23226X.MSQ Date Analyzed: 09/07/95

Instrument ID: I50X Time Analyzed: 09:26

| | | IS4 (NPT) AREA | # | RT | # | IS5(PHN) AREA | # | RT | # | IS6 (PRY) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 48888 | | 11.22 | | 32382 | | 21.03 | | 13839 | | 33.32 | |
| | UPPER LIMIT | 97776 | | 11.72 | | 64764 | | 21.53 | | 27678 | | 33.82 | |
| | LOWER LIMIT | 24444 | | 10.72 | | 16191 | | 20.53 | | 6920 | | 32.82 | |
| | CLIENT SAMPLE | | | | | | | | | | | | |
| 1 | MW-546-01 | 61466 | | 11.20 | | 43000 | | 21.02 | | 18096 | | 33.30 | |
| 2 | MW-546-04 | 61142 | | 11.20 | | 44538 | | 21.02 | | 17964 | | 33.30 | |
| 3 | MW-546-05 | 62836 | | 11.20 | | 42614 | | 21.02 | | 16780 | | 33.30 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS4 (NPT) = Naphthalene-D8 | ( 50-200) | -0.50 / +0.50 min |
| IS5 (PHN) = Phenanthrene-D10 | ( 50-200) | -0.50 / +0.50 min |
| IS6 (PRY) = Perylene-D12 | ( 50-200) | -0.50 / +0.50 min |

# Column to be used to flag recovery values
* Values outside of contract required QC limits

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - POLYNUCLEAR AROMATIC HYDROCARBONS
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

000070

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Labsampid: A5C0001233

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Lab File ID (Standard): 23237X.MSQ Date Analyzed: 09/08/95

Instrument ID: I50X Time Analyzed: 06:32

| | IS1 (ANT) AREA | # | RT | # | IS2 (CRY) AREA | # | RT | # | IS3 (DCB) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 HOUR STD | 37472 | | 16.48 | | 40675 | | 29.22 | | 20050 | | 7.72 | |
| UPPER LIMIT | 74944 | | 16.98 | | 81350 | | 29.72 | | 40100 | | 8.22 | |
| LOWER LIMIT | 18736 | | 15.98 | | 20338 | | 28.72 | | 10025 | | 7.22 | |
| CLIENT SAMPLE | | | | | | | | | | | | |
| 1 SBLK84 | 36212 | | 16.47 | | 32959 | | 29.18 | | 18040 | | 7.70 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS1 (ANT) = Acenaphthene-D10 | ( 50-200) | -0.50 / +0.50 min |
| IS2 (CRY) = Chrysene-D12 | ( 50-200) | -0.50 / +0.50 min |
| IS3 (DCB) = 1,4-Dichlorobenzene-D4 | ( 50-200) | -0.50 / +0.50 min |

# Column to be used to flag recovery values
* Values outside of contract required QC limits

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - POLYNUCLEAR AROMATIC HYDROCARBONS
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

000071

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Labsampid: A5C0001233

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Lab File ID (Standard): 23237X.MSQ Date Analyzed: 09/08/95

Instrument ID: I50X Time Analyzed: 06:32

| | IS4 (NPT) AREA | # | RT | # | IS5 (PHN) AREA | # | RT | # | IS6 (PRY) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 HOUR STD | 73726 | | 11.20 | | 49796 | | 21.02 | | 22073 | | 33.30 | |
| UPPER LIMIT | 147452 | | 11.70 | | 99592 | | 21.52 | | 44146 | | 33.80 | |
| LOWER LIMIT | 36863 | | 10.70 | | 24898 | | 20.52 | | 11037 | | 32.80 | |
| CLIENT SAMPLE | | | | | | | | | | | | |
| 1 SBLK84 | 67736 | | 11.18 | | 47544 | | 21.02 | | 19666 | | 33.28 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS4 (NPT) = Naphthalene-D8 | ( 50-200) | -0.50 / +0.50 min |
| IS5 (PHN) = Phenanthrene-D10 | ( 50-200) | -0.50 / +0.50 min |
| IS6 (PRY) = Perylene-D12 | ( 50-200) | -0.50 / +0.50 min |

# Column to be used to flag recovery values
* Values outside of contract required QC limits

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - POLYNUCLEAR AROMATIC HYDROCARBONS
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

000072

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Labsampid: A5C0001246

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Lab File ID (Standard): 23262X.MSQ Date Analyzed: 09/09/95

Instrument ID: I50X Time Analyzed: 08:52

| | IS1 (ANT) AREA | # | RT | # | IS2 (CRY) AREA | # | RT | # | IS3 (DCB) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 HOUR STD | 21808 | | 16.38 | | 25562 | | 29.12 | | 12218 | | 7.63 | |
| UPPER LIMIT | 43616 | | 16.88 | | 51124 | | 29.62 | | 24436 | | 8.13 | |
| LOWER LIMIT | 10904 | | 15.88 | | 12781 | | 28.62 | | 6109 | | 7.13 | |
| CLIENT SAMPLE | | | | | | | | | | | | |
| 1 MS Blank | 17124 | | 16.38 | | 22158 | | 29.10 | | 8682 | | 7.63 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS1 (ANT) = Acenaphthene-D10 | ( 50-200) | -0.50 / +0.50 min |
| IS2 (CRY) = Chrysene-D12 | ( 50-200) | -0.50 / +0.50 min |
| IS3 (DCB) = 1,4-Dichlorobenzene-D4 | ( 50-200) | -0.50 / +0.50 min |

\# Column to be used to flag recovery values
* Values outside of contract required QC limits

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - POLYNUCLEAR AROMATIC HYDROCARBONS
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

000073

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Labsampid: A5C0001246

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Lab File ID (Standard): 23262X.MSQ Date Analyzed: 09/09/95

Instrument ID: I50X Time Analyzed: 08:52

| | IS4 (NPT) AREA | # | RT | # | IS5 (PHN) AREA | # | RT | # | IS6 (PRY) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 HOUR STD | 44324 | | 11.12 | | 27726 | | 20.92 | | 14667 | | 33.20 | |
| UPPER LIMIT | 88648 | | 11.62 | | 55452 | | 21.42 | | 29334 | | 33.70 | |
| LOWER LIMIT | 22162 | | 10.62 | | 13863 | | 20.42 | | 7334 | | 32.70 | |
| CLIENT SAMPLE | | | | | | | | | | | | |
| 1 MS Blank | 32996 | | 11.12 | | 24236 | | 20.92 | | 14957 | | 33.20 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS4 (NPT) = Naphthalene-D8 | ( 50-200) | -0.50 / +0.50 min |
| IS5 (PHN) = Phenanthrene-D10 | ( 50-200) | -0.50 / +0.50 min |
| IS6 (PRY) = Perylene-D12 | ( 50-200) | -0.50 / +0.50 min |

\# Column to be used to flag recovery values
* Values outside of contract required QC limits

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Labsampid: A5C0001251

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Lab File ID (Standard): 23278X.MSQ Date Analyzed: 09/10/95

Instrument ID: I50X Time Analyzed: 08:01

| | | IS1 (ANT) AREA | # | RT | # | IS2 (CRY) AREA | # | RT | # | IS3 (DCB) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 27566 | | 16.32 | | 36150 | | 29.03 | | 14548 | | 7.57 | |
| | UPPER LIMIT | 55132 | | 16.82 | | 72300 | | 29.53 | | 29096 | | 8.07 | |
| | LOWER LIMIT | 13783 | | 15.82 | | 18075 | | 28.53 | | 7274 | | 7.07 | |
| | CLIENT SAMPLE | | | | | | | | | | | | |
| 1 | DCR-VER-02 | 9048 | * | 16.28 | | 8948 | * | 28.97 | | 5370 | * | 7.55 | |
| 2 | DCR-VER-02 MS | 18172 | | 16.28 | | 19824 | | 28.98 | | 9722 | | 7.57 | |
| 3 | DCR-VER-02 MSD | 27618 | | 16.30 | | 32960 | | 29.00 | | 14032 | | 7.58 | |
| 4 | DCR-VER-03 | 29492 | | 16.30 | | 34682 | | 29.00 | | 15124 | | 7.58 | |
| 5 | DCR-VER-04 | 35786 | | 16.30 | | 44284 | | 29.03 | | 17538 | | 7.58 | |
| 6 | DCR-VER-12 | 30304 | | 16.30 | | 34059 | | 29.00 | | 15418 | | 7.60 | |
| 7 | CR-VER-13 | 2176 | * | 16.27 | | 2186 | * | 28.95 | | 1406 | * | 7.53 | |
| 8 | DCR-VER-21 | 46334 | | 16.30 | | 57796 | | 29.02 | | 22510 | | 7.58 | |
| 9 | SBLK89 | 33900 | | 16.28 | | 45421 | | 29.00 | | 15796 | | 7.57 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS1 (ANT) = Acenaphthene-D10 | ( 50-200) | -0.50 / +0.50 min |
| IS2 (CRY) = Chrysene-D12 | ( 50-200) | -0.50 / +0.50 min |
| IS3 (DCB) = 1,4-Dichlorobenzene-D4 | ( 50-200) | -0.50 / +0.50 min |

\# Column to be used to flag recovery values
* Values outside of contract required QC limits

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY



Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Labsampid: A5C0001251

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Lab File ID (Standard): 23278X.MSQ Date Analyzed: 09/10/95

Instrument ID: I50X Time Analyzed: 08:01

| | | IS4 (NPT) AREA | # | RT | # | IS5(PHN) AREA | # | RT | # | IS6 (PRY) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 56132 | | 11.05 | | 36068 | | 20.85 | | 21776 | | 33.12 | |
| | UPPER LIMIT | 112264 | | 11.55 | | 72136 | | 21.35 | | 43552 | | 33.62 | |
| | LOWER LIMIT | 28066 | | 10.55 | | 18034 | | 20.35 | | 10888 | | 32.62 | |
| | CLIENT SAMPLE | | | | | | | | | | | | |
| 1 | DCR-VER-02 | 18582 | * | 11.02 | | 11980 | * | 20.82 | | 6274 | * | 33.07 | |
| 2 | DCR-VER-02 MS | 35584 | | 11.02 | | 23816 | | 20.82 | | 15644 | | 33.10 | |
| 3 | DCR-VER-02 MSD | 51486 | | 11.03 | | 37780 | | 20.83 | | 26055 | | 33.13 | |
| 4 | DCR-VER-03 | 53734 | | 11.03 | | 40302 | | 20.83 | | 24616 | | 33.10 | |
| 5 | DCR-VER-04 | 67930 | | 11.03 | | 50747 | | 20.83 | | 39383 | | 33.18 | |
| 6 | DCR-VER-12 | 55026 | | 11.03 | | 37500 | | 20.83 | | 23278 | | 33.10 | |
| | DCR-VER-13 | 4934 | * | 11.02 | | 2928 | * | 20.80 | | 1282 | * | 33.03 | |
| | DCR-VER-21 | 84980 | | 11.03 | | 64852 | | 20.83 | | 37450 | | 33.12 | |
| 9 | SBLK89 | 62060 | | 11.03 | | 49384 | | 20.82 | | 23467 | | 33.10 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS4 (NPT) = Naphthalene-D8 | ( 50-200) | -0.50 / +0.50 min |
| IS5 (PHN) = Phenanthrene-D10 | ( 50-200) | -0.50 / +0.50 min |
| IS6 (PRY) = Perylene-D12 | ( 50-200) | -0.50 / +0.50 min |

\# Column to be used to flag recovery values
* Values outside of contract required QC limits

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

000076

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Labsampid: A5C0001252

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Lab File ID (Standard): 23292X.MSQ Date Analyzed: 09/10/95

Instrument ID: I50X Time Analyzed: 19:27

| | | IS1 (ANT) AREA | # | RT | # | IS2 (CRY) AREA | # | RT | # | IS3 (DCB) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 24782 | | 16.23 | | 32918 | | 28.95 | | 13654 | | 7.52 | |
| | UPPER LIMIT | 49564 | | 16.73 | | 65836 | | 29.45 | | 27308 | | 8.02 | |
| | LOWER LIMIT | 12391 | | 15.73 | | 16459 | | 28.45 | | 6827 | | 7.02 | |
| | CLIENT SAMPLE | | | | | | | | | | | | |
| 1 | DCR-VER-02RE | 5664 | * | 16.20 | | 5968 | * | 28.88 | | 2994 | * | 7.48 | |
| 2 | DCR-VER-06 | 25214 | | 16.22 | | 34722 | | 28.93 | | 10976 | | 7.52 | |
| 3 | DCR-VER-07 | 28506 | | 16.23 | | 44536 | | 28.98 | | 11640 | | 7.53 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS1 (ANT) = Acenaphthene-D10 | ( 50-200) | -0.50 / +0.50 min |
| IS2 (CRY) = Chrysene-D12 | ( 50-200) | -0.50 / +0.50 min |
| IS3 (DCB) = 1,4-Dichlorobenzene-D4 | ( 50-200) | -0.50 / +0.50 min |

\# Column to be used to flag recovery values
* Values outside of contract required QC limits

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Labsampid: A5C0001252

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Lab File ID (Standard): 23292X.MSQ Date Analyzed: 09/10/95

Instrument ID: I50X Time Analyzed: 19:27

| | | IS4 (NPT) AREA | # | RT | # | IS5(PHN) AREA | # | RT | # | IS6 (PRY) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 49180 | | 10.98 | | 30836 | | 20.77 | | 19772 | | 33.03 | |
| | UPPER LIMIT | 98360 | | 11.48 | | 61672 | | 21.27 | | 39544 | | 33.53 | |
| | LOWER LIMIT | 24590 | | 10.48 | | 15418 | | 20.27 | | 9886 | | 32.53 | |
| | CLIENT SAMPLE | | | | | | | | | | | | |
| 1 | DCR-VER-02RE | 11930 | * | 10.95 | | 7592 | * | 20.73 | | 4096 | * | 32.98 | |
| 2 | DCR-VER-06 | 46726 | | 10.97 | | 36186 | | 20.75 | | 23356 | | 33.03 | |
| 3 | DCR-VER-07 | 53152 | | 10.97 | | 46192 | | 20.78 | | 30830 | | 33.12 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS4 (NPT) = Naphthalene-D8 | ( 50-200) | -0.50 / +0.50 min |
| IS5 (PHN) = Phenanthrene-D10 | ( 50-200) | -0.50 / +0.50 min |
| IS6 (PRY) = Perylene-D12 | ( 50-200) | -0.50 / +0.50 min |

\# Column to be used to flag recovery values
* Values outside of contract required QC limits

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY



Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Labsampid: A5C0001260

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Lab File ID (Standard): 23309X.MSQ Date Analyzed: 09/11/95

Instrument ID: I50X Time Analyzed: 08:57

| | IS1 (ANT) AREA | # | RT | # | IS2 (CRY) AREA | # | RT | # | IS3 (DCB) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 HOUR STD | 19300 | | 16.38 | | 30494 | | 28.38 | | 8260 | | 8.08 | |
| UPPER LIMIT | 38600 | | 16.88 | | 60988 | | 28.88 | | 16520 | | 8.58 | |
| LOWER LIMIT | 9650 | | 15.88 | | 15247 | | 27.88 | | 4130 | | 7.58 | |
| CLIENT SAMPLE | | | | | | | | | | | | |
| 1 DCR-VER-13RE | 4176 | * | 16.35 | | 5106 | * | 28.32 | | 2522 | * | 8.07 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS1 (ANT) = Acenaphthene-D10 | ( 50-200) | -0.50 / +0.50 min |
| IS2 (CRY) = Chrysene-D12 | ( 50-200) | -0.50 / +0.50 min |
| IS3 (DCB) = 1,4-Dichlorobenzene-D4 | ( 50-200) | -0.50 / +0.50 min |

\# Column to be used to flag recovery values
* Values outside of contract required QC limits

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Labsampid: A5C0001260

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Lab File ID (Standard): 23309X.MSQ Date Analyzed: 09/11/95

Instrument ID: I50X Time Analyzed: 08:57

| | IS4 (NPT) AREA | # | RT | # | IS5 (PHN) AREA | # | RT | # | IS6 (PRY) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 HOUR STD | 37204 | | 11.40 | | 27376 | | 20.65 | | 20738 | | 32.22 | |
| UPPER LIMIT | 74408 | | 11.90 | | 54752 | | 21.15 | | 41476 | | 32.72 | |
| LOWER LIMIT | 18602 | | 10.90 | | 13688 | | 20.15 | | 10369 | | 31.72 | |
| CLIENT SAMPLE | | | | | | | | | | | | |
| 1 DCR-VER-13RE | 8724 | * | 11.37 | | 6222 | * | 20.62 | | 3450 | * | 32.17 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS4 (NPT) = Naphthalene-D8 | ( 50-200) | -0.50 / +0.50 min |
| IS5 (PHN) = Phenanthrene-D10 | ( 50-200) | -0.50 / +0.50 min |
| IS6 (PRY) = Perylene-D12 | ( 50-200) | -0.50 / +0.50 min |

# Column to be used to flag recovery values
* Values outside of contract required QC limits

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Labsampid: A5C0001236

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Lab File ID (Standard): Z24219.RR Date Analyzed: 09/08/95

Instrument ID: I50Z-A Time Analyzed: 08:26

| | | IS1 (ANT) AREA | # | RT | # | IS2 (CRY) AREA | # | RT | # | IS3 (DCB) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 222748 | | 8.60 | | 340781 | | 16.47 | | 103245 | | 4.85 | |
| | UPPER LIMIT | 445496 | | 9.10 | | 681562 | | 16.97 | | 206490 | | 5.35 | |
| | LOWER LIMIT | 111374 | | 8.10 | | 170391 | | 15.97 | | 51623 | | 4.35 | |
| | CLIENT SAMPLE | | | | | | | | | | | | |
| 1 | DCR-VER-14 | 391399 | | 8.60 | | 608735 | | 16.47 | | 191598 | | 4.87 | |
| 2 | DCR-VER-17 | 317256 | | 8.60 | | 704519 | | 16.50 | | 157560 | | 4.88 | |
| 3 | DCR-VER-18 | 321223 | | 8.60 | | 455333 | | 16.47 | | 157280 | | 4.87 | |
| 4 | DCR-VER-19 | 284142 | | 8.60 | | 487907 | | 16.47 | | 152976 | | 4.87 | |
| 5 | DCR-VER-20 | 315888 | | 8.60 | | 458258 | | 16.47 | | 159207 | | 4.87 | |
| 6 | DCR-VER-200 | 381615 | | 8.60 | | 608448 | | 16.47 | | 183688 | | 4.87 | |
| 7 | DCR-VER-202 | 253642 | | 8.60 | | 379773 | | 16.47 | | 123712 | | 4.87 | |
| 8 | DCR-VER-22 | 309056 | | 8.60 | | 500275 | | 16.47 | | 153192 | | 4.87 | |
| 9 | DCR-VER-45 | 275844 | | 8.60 | | 419052 | | 16.47 | | 138048 | | 4.87 | |
| 10 | Matrix Spike Blank | 352646 | | 8.60 | | 554999 | | 16.47 | | 184660 | | 4.87 | |
| 11 | SBLK13 | 360272 | | 8.60 | | 576458 | | 16.47 | | 171048 | | 4.87 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS1 (ANT) = Acenaphthene-D10 | ( 50-200) | -0.50 / +0.50 min |
| IS2 (CRY) = Chrysene-D12 | ( 50-200) | -0.50 / +0.50 min |
| IS3 (DCB) = 1,4-Dichlorobenzene-D4 | ( 50-200) | -0.50 / +0.50 min |

\# Column to be used to flag recovery values
* Values outside of contract required QC limits

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY



Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Labsampid: A5C0001236

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER2D

Lab File ID (Standard): Z24219.RR Date Analyzed: 09/08/95

Instrument ID: I50Z-A Time Analyzed: 08:26

| | | IS4 (NPT) AREA | # | RT | # | IS5 (PHN) AREA | # | RT | # | IS6 (PRY) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 423792 | | 6.13 | | 309616 | | 11.27 | | 243933 | | 19.10 | |
| | UPPER LIMIT | 847584 | | 6.63 | | 619232 | | 11.77 | | 487866 | | 19.60 | |
| | LOWER LIMIT | 211896 | | 5.63 | | 154808 | | 10.77 | | 121967 | | 18.60 | |
| | CLIENT SAMPLE | | | | | | | | | | | | |
| 1 | DCR-VER-14 | 793450 | | 6.13 | | 541389 | | 11.27 | | 447264 | | 19.12 | |
| 2 | DCR-VER-17 | 599511 | | 6.15 | | 625057 | | 11.28 | | 342541 | | 19.13 | |
| 3 | DCR-VER-18 | 645276 | | 6.13 | | 485346 | | 11.27 | | 301994 | | 19.10 | |
| 4 | DCR-VER-19 | 617827 | | 6.13 | | 495888 | | 11.28 | | 322421 | | 19.12 | |
| 5 | DCR-VER-20 | 677197 | | 6.13 | | 464527 | | 11.27 | | 284861 | | 19.10 | |
| 6 | DCR-VER-200 | 735708 | | 6.13 | | 556686 | | 11.27 | | 450123 | | 19.12 | |
| 7 | DCR-VER-202 | 583768 | | 6.13 | | 346005 | | 11.27 | | 244114 | | 19.10 | |
| 8 | DCR-VER-22 | 660717 | | 6.13 | | 508995 | | 11.27 | | 284394 | | 19.12 | |
| 9 | DCR-VER-45 | 584419 | | 6.13 | | 384323 | | 11.27 | | 283611 | | 19.10 | |
| 10 | Matrix Spike Blank | 840299 | | 6.13 | | 488281 | | 11.27 | | 352251 | | 19.10 | |
| 11 | SBLK13 | 657443 | | 6.13 | | 558882 | | 11.27 | | 357548 | | 19.10 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS4 (NPT) = Naphthalene-D8 | ( 50-200) | -0.50 / +0.50 min |
| IS5 (PHN) = Phenanthrene-D10 | ( 50-200) | -0.50 / +0.50 min |
| IS6 (PRY) = Perylene-D12 | ( 50-200) | -0.50 / +0.50 min |

\# Column to be used to flag recovery values
* Values outside of contract required QC limits

# Sample ID Nos.:

Lab Report Dated:

September 29, 1995

DCR-VER-23
DCR-VER-24
DCR-VER-25
DCR-VER-26
DCR-VER-27
DCR-VER-28
DCR-VER-29
DCR-VER-30
DCR-VER-31
DCR-VER-32
DCR-VER-33
DCR-VER-34
DCR-VER-35
DCR-VER-36
DCR-VER-48
DCR-VER-49
DCR-VER-50
DCR-VER-201
MW-546-02
MW-546-03

**RECRA ENVIRONMENTAL INC.**

*Chemical and Environmental Analysis Services*

September 29, 1995

Mr. Joseph Mihm
Camp, Dresser and McKee / Alcoa
Park Avenue East, Building 65
Massena, NY 13665

RE: **Analytical Results**

Dear Mr. Mihm:

Please find enclosed the data package concerning the analyses of samples recently submitted by your firm. The pertinent information regarding these analyses is listed below:

| | |
|---|---|
| Quote No.: | NY95-438 |
| REI: | 19 |
| SDG #: | VER23 |
| Matrix: | Soil & Water |
| Sample Receipt Date: | 09/02/95 |
| Sample Date: | 09/01/95 |

If you have any questions concerning these data, please contact Ms. Deborah A. Carella, Program Manager, at (800) 52R-ECRA and refer to the I.D. number listed below.

Sincerely,

RECRA ENVIRONMENTAL, INC.

for K.E.K.

Kenneth E. Kasperek
Laboratory Manager

DAC/KEK/dms
Enclosure
cc: Frances Gero (cover letter only)
Aluminum Company of America
Mr. Bernard Kunkle (cover letter only)
Aluminum Company of America
Park Avenue East, BLDG. 65
Massena, NY 13665

Reviewed and approved by/date:

Candace L. Lox for DAC

Deborah A. Carella, Program Manager

ID #A95-4685
#NY5A5754

Mihm LHR
Schultz
Schreiber
Occhiuto Sum
Anderson

SAMPLE DATA SUMMARY PACKAGE

RECRA
ENVIRONMENTAL
INC.

SDG NARRATIVE:

Laboratory: Recra Environmental, Inc.

Laboratory Code: RECNY

Contract No.: NY95-438

SDG No.: VER23

Sample Identifications:

DCR-VER-201
DCR-VER-23
DCR-VER-23 MATRIX SPIKE
DCR-VER-23 MATRIX SPIKE DUPLICATE
DCR-VER-24
DCR-VER-25
DCR-VER-26
DCR-VER-27
DCR-VER-28
DCR-VER-29
DCR-VER-30
DCR-VER-31
DCR-VER-32
DCR-VER-33
DCR-VER-34
DCR-VER-35
DCR-VER-36
DCR-VER-48
DCR-VER-49
DCR-VER-50
MW-546-02
MW-546-03

METHODOLOGY

Analyses were performed in accordance with 1991 New York State Analytical Services protocol. (Revised 1993)

COMMENTS

Results are reported using standard qualifiers (Q) as defined on the Organic Data Comment Page.

Preliminary results were sent on September 11, 1995 via Airborne to Ms. Julie Schreiber of Camp, Dresser and McKee by Ms. Deborah Carella of Recra Environmental.

Quality Control analysis was performed on a batch basis for water samples.

The PAH volumes for samples MW-546-02 and MW-546-03 were received broken.

SEMIVOLATILE DATA

Semivolatile sample and standard areas are listed on the corresponding data system printouts.

Semivolatile data was processed utilizing Finnigan Autoquantitation and Recra Environmental's Inc.'s Analytical Information Management Systems (AIMS). All compounds determined to be present by the computer-generated autoquantitation were subjected to a manual ion search for secondary and tertiary ions. False positive compounds are crossed out, initialed and dated in this data package.

Due to a lack of sample volume pH could not be tested for on samples DCR-VER-23, DCR-VER-23MS and DCR-VER-23MSD.

Samples DCR-VER-23, DCR-VER-23MS and DCR-VER-23MSD all exhibit the recovery of internal standard Perylene-d12 as outside QC limits.

PCB DATA

The surrogate recovery of Tetrachloro-m-xylene fell outside QC limits in samples PBLK14, PBLK17, DCRVER201, DCRVER24, DCRVER25, DCRVER26, DCRVER27, DCRVER28, DCRVER29, DCRVER30, DCRVER33, DCRVER34, DCRVER36, DCRVER48, DCRVER49, DCRVER50, MSB14, MSBD14, MSB17, MSBD17, MW54602 and MW54603 on both the DB608 and DB1701 column.

The surrogate recovery of Decachlorobiphenyl fell outside QC limits in samples PBLK14, PBLK17, DCRVER201, DCRVER26, DCRVER27, DCRVER30, DCRVER33, DCRVER36, DCRVER48, DCRVER49, DCRVER50, MSB14, MSBD14, MSB17, MSBD17, MW54602 and MW54603 on both the DB608 and DB1701 columns.

The Endrin percent breakdown and combined percent breakdown are above QC limits on the DB608 column in: PEM10 analyzed on 8/31/95 at 02:15; PEM11 analyzed on 9/6/95 at 14:08; PEM12 analyzed on 9/7/95 at 04:40; PEM13 analyzed on 9/8/95 at 03:49; PEM15 analyzed on 9/10/95 at 01:36; PEM16 analyzed on 9/10/95 at 23:23. PEM14 analyzed on 9/9/95 at 01:37 exhibits the combined percent breakdown above QC limits.

The relative percent difference of Methoxychlor fell outside QC limits on the DB1701 column in: PEM10 analyzed on 8/31/95 at 02:15.

The relative percent difference of Methoxychlor fell outside QC limits on the DB608 column in: PEM10 analyzed on 8/31/95 at 02:15; PEM11 analyzed on 9/6/95 at 14:08; PEM12 analyzed on 9/7/95 at 04:40; PEM13 analyzed on 9/8/95 at 03:49; PEM14 analyzed on 9/9/95 at 01:37. The relative percent difference of Endrin, 4,4'-DDT and Methoxychlor fell outside QC limits on the DB608 column in: PEM15 analyzed on 9/10/95 at 01:36; PEM16 analyzed on 9/10/95 at 23:23.

The relative percent difference of Methoxychlor and combined percent breakdown fell outside QC limits on the DB1701 column in: PEM11 analyzed on 9/6/95 at 14:08; PEM13 analyzed on 9/8/95 at 03:49; PEM14 analyzed on 9/9/95 at 01:37. The Endrin percent breakdown and combined percent breakdown fell outside QC limits on the DB1701 column in: PEM12 analyzed on 9/7/95 at 04:40. The relative percent difference of Endrin, Methoxychlor, Endrin percent breakdown fell and combined percent breakdown fell outside QC limits on the DB1701 column in: PEM15 analyzed on 9/10/95 at 01:36; PEM16 analyzed on 9/10/95 at 23:23.

The relative percent difference of Methoxychlor fell outside QC limits on the DB608 column in: INDAM08 analyzed on 8/31/95 at 07:21; INDAM10 analyzed on 9/7/95 at 16:55. The relative percent difference of 4,4'-DDT and Methoxychlor fell outside QC limits on the DB608 column in: INDAM11 analyzed on 9/8/95 at 14:43. The relative percent difference of Endrin, 4,4'-DDT and Methoxychlor fell outside QC limits on the DB608 column in: INDAM12 analyzed on 9/10/95 at 12:28. INDAM13 analyzed on 9/11/95 at 11:01 exhibits the relative percent difference of Endrin, 4,4'-DDT and Methoxychlor as outside QC limits on column DB608.

The relative percent difference of Methoxychlor fell outside QC limits on the DB1701 column in: INDAM10 analyzed on 9/7/95 at 16:55. The relative percent difference of 4,4'-DDT and Methoxychlor fell outside QC limits on the DB608 column in: INDAM11 analyzed on 9/8/95 at 14:43 and INDAM12 analyzed on 9/10/95 at 12:28. INDAM13 analyzed on 9/11/95 at 11:01 exhibits the relative percent difference of Endrin, 4,4'-DDT and Methoxychlor as outside QC limits on column DB608.

The retention time of surrogate TCX fell outside retention time windows on the DB608 column for PIBLK23 and PIBLK25.

The retention time of surrogates TCX and DCB fell outside retention time windows on the DB1701 column for PIBLK16.

The retention time of surrogate DCB fell outside retention time windows on the DB1701 column for samples: DCRVER29, DCRVER30, DCRVER31, PIBLK29, PEM16, DCRVER32, DCRVER33 and DCRVER34. The retention of surrogates TCX and DCB fell outside retention time windows on the DB1701 column for samples: DCRVER35, DCRVER36, MSB17, PBLK17 and MSBD17.

The percent recovery of Heptachlor and Endrin fell outside QC limits for the Pest GPC calibration on column DB608.

PIBLK22 analyzed on 9/7/95 at 03:57; PEM12 analyzed on 9/7/95 at 04:40; PEM13 analyzed on 9/8/95 at 03:49; PIBLK29 analyzed on 9/10/95 at 22:40 and PEM16 analyzed on 9/10/95 at 23:23 all exhibit the retention time of Decachlorobiphenyl outside QC limits on the DB1701 column.

"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 his designee, as verified by the following signature."

for K.E.K.

Kenneth E. Kasperek
Laboratory Director

9/24/95
Date

RECRA
ENVIRONMENTAL
INC.

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION
AND
ANALYTICAL REQUEST SUMMARY

LAB NAME: RECRA ENVIRONMENTAL, INC.

| CUSTOMER SAMPLE ID | LABORATORY SAMPLE ID | ANALYTICAL REQUIREMENTS | | | | | |
|---|---|---|---|---|---|---|---|
| | | VOA GC/MS | BNA GC/MS | VOA GC | PCB | METALS | OTHER |
| DCR-VER-201 | A5468506 | - | ASP91 | - | ASP91 | - | - |
| DCR-VER-23 | A5468501 | - | ASP91 | - | ASP91 | - | - |
| DCR-VER-24 | A5468502 | - | ASP91 | - | ASP91 | - | - |
| DCR-VER-25 | A5468503 | - | ASP91 | - | ASP91 | - | - |
| DCR-VER-26 | A5468504 | - | ASP91 | - | ASP91 | - | - |
| DCR-VER-27 | A5468505 | - | ASP91 | - | ASP91 | - | - |
| DCR-VER-28 | A5468512 | - | ASP91 | - | ASP91 | - | - |
| DCR-VER 29 | A5468513 | - | ASP91 | - | ASP91 | - | - |
| DCR-VER-30 | A5468514 | - | ASP91 | - | ASP91 | - | - |
| DCR-VER-31 | A5468515 | - | ASP91 | - | ASP91 | - | - |
| DCR-VER-32 | A5468516 | - | ASP91 | - | ASP91 | - | - |
| DCR-VER-33 | A5468517 | - | ASP91 | - | ASP91 | - | - |
| DCR-VER-34 | A5468518 | - | ASP91 | - | ASP91 | - | - |
| DCR-VER-35 | A5468519 | - | ASP91 | - | ASP91 | - | - |
| DCR-VER-36 | A5468520 | - | ASP91 | - | ASP91 | - | - |
| DCR-VER-48 | A5468510 | - | ASP91 | - | ASP91 | - | - |
| DCR-VER-49 | A5468511 | - | ASP91 | - | ASP91 | - | - |
| DCR-VER-50 | A5468507 | - | ASP91 | - | ASP91 | - | - |
| MW-546-02 | A5468508 | - | - | - | ASP91 | - | - |
| MW-546-03 | A5468509 | - | - | - | ASP91 | - | - |

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
B\N-A ANALYSIS

LAB NAME: RECRA ENVIRONMENTAL, INC.

| SAMPLE IDENTIFICATION | MATRIX | DATE COLLECTED | DATE RECEIVED AT LAB | DATE EXTRACTED | DATE ANALYZED |
|---|---|---|---|---|---|
| DCR-VER-201 | SOIL | 09/01/95 | 09/02/95 | 09/06/95 | 09/08/95 |
| DCR-VER-23 | SOIL | 09/01/95 | 09/02/95 | 09/06/95 | 09/09/95 |
| DCR-VER-24 | SOIL | 09/01/95 | 09/02/95 | 09/06/95 | 09/09/95 |
| DCR-VER-25 | SOIL | 09/01/95 | 09/02/95 | 09/06/95 | 09/08/95 |
| DCR-VER-26 | SOIL | 09/01/95 | 09/02/95 | 09/06/95 | 09/08/95 |
| DCR-VER-27 | SOIL | 09/01/95 | 09/02/95 | 09/06/95 | 09/08/95 |
| DCR-VER-28 | SOIL | 09/01/95 | 09/02/95 | 09/06/95 | 09/08/95 |
| DCR-VER-29 | SOIL | 09/01/95 | 09/02/95 | 09/06/95 | 09/08/95 |
| DCR-VER-30 | SOIL | 09/01/95 | 09/02/95 | 09/06/95 | 09/08/95 |
| DCR-VER-31 | SOIL | 09/01/95 | 09/02/95 | 09/06/95 | 09/08/95 |
| DCR-VER-32 | SOIL | 09/01/95 | 09/02/95 | 09/06/95 | 09/08/95 |
| DCR-VER-33 | SOIL | 09/01/95 | 09/02/95 | 09/06/95 | 09/08/95 |
| DCR-VER-34 | SOIL | 09/01/95 | 09/02/95 | 09/06/95 | 09/08/95 |
| DCR-VER-35 | SOIL | 09/01/95 | 09/02/95 | 09/06/95 | 09/09/95 |
| DCR-VER-36 | SOIL | 09/01/95 | 09/02/95 | 09/06/95 | 09/09/95 |
| DCR-VER-48 | SOIL | 09/01/95 | 09/02/95 | 09/06/95 | 09/08/95 |
| DCR-VER-49 | SOIL | 09/01/95 | 09/02/95 | 09/06/95 | 09/08/95 |
| DCR-VER-50 | SOIL | 09/01/95 | 09/02/95 | 09/06/95 | 09/08/95 |

NYSDEC-3

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
PCB ANALYSIS

LAB NAME: RECRA ENVIRONMENTAL, INC.

| SAMPLE IDENTIFICATION | MATRIX | DATE COLLECTED | DATE RECEIVED AT LAB | DATE EXTRACTED | DATE ANALYZED |
|---|---|---|---|---|---|
| DCR-VER-201 | SOIL | 09/01/95 | 09/02/95 | 09/08/95 | 09/10/95 |
| DCR-VER-23 | SOIL | 09/01/95 | 09/02/95 | 09/08/95 | 09/10/95 |
| DCR-VER-24 | SOIL | 09/01/95 | 09/02/95 | 09/08/95 | 09/10/95 |
| DCR-VER-25 | SOIL | 09/01/95 | 09/02/95 | 09/08/95 | 09/10/95 |
| DCR-VER-26 | SOIL | 09/01/95 | 09/02/95 | 09/08/95 | 09/10/95 |
| DCR-VER-27 | SOIL | 09/01/95 | 09/02/95 | 09/08/95 | 09/10/95 |
| DCR-VER-28 | SOIL | 09/01/95 | 09/02/95 | 09/08/95 | 09/10/95 |
| DCR-VER-29 | SOIL | 09/01/95 | 09/02/95 | 09/08/95 | 09/10/95 |
| DCR-VER-30 | SOIL | 09/01/95 | 09/02/95 | 09/08/95 | 09/10/95 |
| DCR-VER-31 | SOIL | 09/01/95 | 09/02/95 | 09/08/95 | 09/10/95 |
| DCR-VER-32 | SOIL | 09/01/95 | 09/02/95 | 09/08/95 | 09/11/95 |
| DCR-VER-33 | SOIL | 09/01/95 | 09/02/95 | 09/08/95 | 09/11/95 |
| DCR-VER-34 | SOIL | 09/01/95 | 09/02/95 | 09/08/95 | 09/11/95 |
| DCR-VER-35 | SOIL | 09/01/95 | 09/02/95 | 09/08/95 | 09/11/95 |
| DCR-VER-36 | SOIL | 09/01/95 | 09/02/95 | 09/08/95 | 09/11/95 |
| DCR-VER-48 | SOIL | 09/01/95 | 09/02/95 | 09/08/95 | 09/10/95 |
| DCR-VER-49 | SOIL | 09/01/95 | 09/02/95 | 09/08/95 | 09/10/95 |
| DCR-VER-50 | SOIL | 09/01/95 | 09/02/95 | 09/08/95 | 09/10/95 |
| MW-546-02 | WATER | 09/01/95 | 09/02/95 | 09/07/95 | 09/07/95 |
| MW-546-03 | WATER | 09/01/95 | 09/02/95 | 09/07/95 | 09/07/95 |

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
ORGANIC ANALYSIS

LAB NAME: RECRA ENVIRONMENTAL, INC.

| SAMPLE IDENTIFICATION | MATRIX | ANALYTICAL PROTOCOL | EXTRACTION METHOD | AUXILARY CLEAN UP | DIL/CONC FACTOR |
|---|---|---|---|---|---|
| DCR-VER-201 | SOIL | ASP91 | SONC | AS REQUIRED | AS REQUIRED |
| DCR-VER-23 | SOIL | ASP91 | SONC | AS REQUIRED | AS REQUIRED |
| DCR-VER-24 | SOIL | ASP91 | SONC | AS REQUIRED | AS REQUIRED |
| DCR-VER-25 | SOIL | ASP91 | SONC | AS REQUIRED | AS REQUIRED |
| DCR-VER-26 | SOIL | ASP91 | SONC | AS REQUIRED | AS REQUIRED |
| DCR-VER-27 | SOIL | ASP91 | SONC | AS REQUIRED | AS REQUIRED |
| DCR-VER-28 | SOIL | ASP91 | SONC | AS REQUIRED | AS REQUIRED |
| DCR-VER-29 | SOIL | ASP91 | SONC | AS REQUIRED | AS REQUIRED |
| DCR-VER-30 | SOIL | ASP91 | SONC | AS REQUIRED | AS REQUIRED |
| DCR-VER-31 | SOIL | ASP91 | SONC | AS REQUIRED | AS REQUIRED |
| DCR-VER-32 | SOIL | ASP91 | SONC | AS REQUIRED | AS REQUIRED |
| DCR-VER-33 | SOIL | ASP91 | SONC | AS REQUIRED | AS REQUIRED |
| DCR-VER-34 | SOIL | ASP91 | SONC | AS REQUIRED | AS REQUIRED |
| DCR-VER-35 | SOIL | ASP91 | SONC | AS REQUIRED | AS REQUIRED |
| DCR-VER-36 | SOIL | ASP91 | SONC | AS REQUIRED | AS REQUIRED |
| DCR-VER-48 | SOIL | ASP91 | SONC | AS REQUIRED | AS REQUIRED |
| DCR-VER-49 | SOIL | ASP91 | SONC | AS REQUIRED | AS REQUIRED |
| DCR-VER-50 | SOIL | ASP91 | SONC | AS REQUIRED | AS REQUIRED |
| MW-546-02 | WATER | ASP91 | SEPF | AS REQUIRED | AS REQUIRED |
| MW-546-03 | WATER | ASP91 | SEPF | AS REQUIRED | AS REQUIRED |

# ORGANIC DATA COMMENT PAGE

Laboratory Name RECRA ENVIRONMENTAL, INC.

USEPA Defined Organic Data Qualifiers:

U - Indicates compound was analyzed for but not detected.

J - Indicates an estimate value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.

C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

G - The TCLP Matrix Spike recovery was greater than the upper limit of the analytical method.

L - The TCLP Matrix Spike recovery was lower than the lower limit of the analytical method.

T - This flag is used when the analyte is found in the associated TCLP extraction as well as in the sample.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results.

P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a "P".

A - This flag indicates that a TIC is a suspected aldol-condensation product.

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
ANALYSIS DATA SHEET

**000010**

Client No.

DCR-VER-23

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468501

Sample wt/vol: 24.27 (g/mL) G Lab File ID: 23263X.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: 4.4 decanted: (Y/N) N Date Extracted: 09/06/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/09/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 0.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| 120-12-7 | ANTHRACENE | 300 | U |
| 56-55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 380 | |
| 50-32-8 | BENZO(A)PYRENE | 32 | J |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
ANALYSIS DATA SHEET

000011

Client No.

DCR-VER-24

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468502

Sample wt/vol: 40.74 (g/mL) G Lab File ID: 23266X.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

Moisture: 6.9 decanted: (Y/N) N Date Extracted: 09/06/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/09/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.4

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| 120-12-7 | ANTHRACENE | 300 | U |
| 56-55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 25 | J |
| 50-32-8 | BENZO(A)PYRENE | 300 | U |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
ANALYSIS DATA SHEET

000012
Client No.

DCR-VER-25

ab Name: Recra Environmental, Contract: MQ772732MQ

ab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

atrix: (soil/water) SOIL Lab Sample ID: A5468503

ample wt/vol: 40.83 (g/mL) G Lab File ID: 23241X.MSQ

evel: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

Moisture: 8.6 decanted: (Y/N) N Date Extracted: 09/06/95

oncentrated Extract Volume: 500 (uL) Date Analyzed: 09/08/95

njection Volume: 2.00 (uL) Dilution Factor: 1.00

PC Cleanup: (Y/N) Y pH: 8.4

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| 120-12-7 | ANTHRACENE | 300 | U |
| 56-55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 140 | J |
| 50-32-8 | BENZO(A)PYRENE | 31 | J |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
ANALYSIS DATA SHEET

000013

Client No.

DCR-VER-26

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468504

Sample wt/vol: 40.88 (g/mL) G Lab File ID: 23242X.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: 5.8 decanted: (Y/N) N Date Extracted: 09/06/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/08/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.5

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| -12-7 | ANTHRACENE | 300 | U |
| 56-55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 42 | J |
| 50-32-8 | BENZO(A)PYRENE | 300 | U |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
ANALYSIS DATA SHEET

000014

Client No.

DCR-VER-27

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468505

Sample wt/vol: 40.67 (g/mL) G Lab File ID: 23243X.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: 8.9 decanted: (Y/N) N Date Extracted: 09/06/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/08/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.5

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| 120-12-7 | ANTHRACENE | 300 | U |
| 56-55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 240 | J |
| 50-32-8 | BENZO(A)PYRENE | 14 | J |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

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**000015**
Client No.

DCR-VER-28

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468512

Sample wt/vol: 40.70 (g/mL) G Lab File ID: 23252X.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: 8.1 decanted: (Y/N) N Date Extracted: 09/06/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/08/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.7

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| -12-7 | ANTHRACENE | 300 | U |
| 56-55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 300 | U |
| 50-32-8 | BENZO(A)PYRENE | 9 | J |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

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000016
Client No.

DCR-VER-29

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468513

Sample wt/vol: 40.64 (g/mL) G Lab File ID: 23253X.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

Moisture: 6.9 decanted: (Y/N) N Date Extracted: 09/06/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/08/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.6

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| 120-12-7 | ANTHRACENE | 300 | U |
| 56-55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 300 | U |
| 50-32-8 | BENZO(A)PYRENE | 300 | U |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

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C00017

Client No.

DCR-VER-30

ab Name: Recra Environmental, Contract: MQ772732MQ

ab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

atrix: (soil/water) SOIL Lab Sample ID: A5468514

ample wt/vol: 40.70 (g/mL) G Lab File ID: 23254X.MSQ

evel: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

Moisture: 6.2 decanted: (Y/N) N Date Extracted: 09/06/95

oncentrated Extract Volume: 500 (uL) Date Analyzed: 09/08/95

njection Volume: 2.00 (uL) Dilution Factor: 1.00

PC Cleanup: (Y/N) Y pH: 8.7

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| 120-12-7 | ANTHRACENE | 300 | U |
| 56-55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 300 | U |
| 50-32-8 | BENZO(A)PYRENE | 6 | J |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

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Client No.

DCR-VER-31

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468515

Sample wt/vol: 40.22 (g/mL) G Lab File ID: 23255X.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: 7.9 decanted: (Y/N) N Date Extracted: 09/06/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/08/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.5

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| 12-7 | ANTHRACENE | 300 | U |
| 56-55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 11 | J |
| 50-32-8 | BENZO(A)PYRENE | 300 | U |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

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000019

Client No.

DCR-VER-32

b Name: Recra Environmental, Contract: MQ772732MQ

b Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

trix: (soil/water) SOIL Lab Sample ID: A5468516

mple wt/vol: 40.87 (g/mL) G Lab File ID: 23256X.MSQ

evel: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

Moisture: 8.1 decanted: (Y/N) N Date Extracted: 09/06/95

oncentrated Extract Volume: 500 (uL) Date Analyzed: 09/08/95

njection Volume: 2.00 (uL) Dilution Factor: 1.00

PC Cleanup: (Y/N) Y pH: 8.4

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| 120-12-7 | ANTHRACENE | 300 | U |
| 56-55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 300 | U |
| 50-32-8 | BENZO(A)PYRENE | 12 | J |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

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000020

Client No.

DCR-VER-33

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468517

Sample wt/vol: 40.67 (g/mL) G Lab File ID: 23257X.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: 6.6 decanted: (Y/N) N Date Extracted: 09/06/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/08/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.4

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| 120-12-7 | ANTHRACENE | 300 | U |
| 56-55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 300 | U |
| 50-32-8 | BENZO(A)PYRENE | 12 | J |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

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000021
Client No.

DCR-VER-34

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468518

Sample wt/vol: 40.82 (g/mL) G Lab File ID: 23258X.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

Moisture: 7.9 decanted: (Y/N) N Date Extracted: 09/06/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/08/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.6

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| 120-12-7 | ANTHRACENE | 300 | U |
| 56-55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 300 | U |
| 50-32-8 | BENZO(A)PYRENE | 6 | J |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

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ANALYSIS DATA SHEET

000022

Client No.

DCR-VER-35

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468519

Sample wt/vol: 40.96 (g/mL) G Lab File ID: 23259X.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: 9.7 decanted: (Y/N) N Date Extracted: 09/06/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/09/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.5

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| -12-7 | ANTHRACENE | 300 | U |
| 56-55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 300 | U |
| 50-32-8 | BENZO(A)PYRENE | 6 | J |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

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**000023**

Client No.

DCR-VER-36

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468520

Sample wt/vol: 40.76 (g/mL) G Lab File ID: 23260X.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: 21.7 decanted: (Y/N) N Date Extracted: 09/06/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/09/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.3

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| 120-12-7 | ANTHRACENE | 300 | U |
| 56-55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 300 | U |
| 50-32-8 | BENZO(A)PYRENE | 11 | J |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

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000024

Client No.

DCR-VER-48

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468510

Sample wt/vol: 40.84 (g/mL) G Lab File ID: 23250X.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: 12.9 decanted: (Y/N) N Date Extracted: 09/06/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/08/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.8

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| -12-7 | ANTHRACENE | 300 | U |
| 56-55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 300 | U |
| 50-32-8 | BENZO(A)PYRENE | 300 | U |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

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000025
Client No.

DCR-VER-49

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468511

Sample wt/vol: 40.23 (g/mL) G Lab File ID: 23251X.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

Moisture: 10.9 decanted: (Y/N) N Date Extracted: 09/06/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/08/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.7

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| 120-12-7 | ANTHRACENE | 300 | U |
| 56-55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 300 | U |
| 50-32-8 | BENZO(A)PYRENE | 8 | J |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
ANALYSIS DATA SHEET

**000026**
Client No.

DCR-VER-50

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468507

Sample wt/vol: 40.16 (g/mL) G Lab File ID: 23245X.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

Moisture: 10.6 decanted: (Y/N) N Date Extracted: 09/06/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/08/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.2

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| -12-7 | ANTHRACENE | 300 | U |
| 56-55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 300 | U |
| 50-32-8 | BENZO(A)PYRENE | 300 | U |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
ANALYSIS DATA SHEET

000027

Client No.

DCR-VER-201

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468506

Sample wt/vol: 40.15 (g/mL) G Lab File ID: 23244X.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

Moisture: 7.6 decanted: (Y/N) N Date Extracted: 09/06/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/08/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.4

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| 120-12-7 | ANTHRACENE | 300 | U |
| 56-55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 25 | J |
| 50-32-8 | BENZO(A)PYRENE | 13 | J |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DC 000028

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468501

Sample wt/vol: 1.1 (g/mL) G Lab File ID: _____

% Moisture: 4 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/08/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/10/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 920 | U |
| 11104-28-2 | Aroclor-1221 | 1900 | U |
| 11141-16-5 | Aroclor-1232 | 920 | U |
| 53469-21-9 | Aroclor-1242 | 920 | U |
| 12672-29-6 | Aroclor-1248 | 920 | U |
| 11097-69-1 | Aroclor-1254 | 920 | U |
| 11096-82-5 | Aroclor-1260 | 920 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000029

DCRVER24

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468502

Sample wt/vol: 30.2 (g/mL) G Lab File ID: _____

% Moisture: 7 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/08/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/10/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.4 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 35 | U |
| 11104-28-2 | Aroclor-1221 | 72 | U |
| 11141-16-5 | Aroclor-1232 | 35 | U |
| 53469-21-9 | Aroclor-1242 | 35 | U |
| 12672-29-6 | Aroclor-1248 | 17 | J |
| 11097-69-1 | Aroclor-1254 | 35 | U |
| 11096-82-5 | Aroclor-1260 | 15 | J |

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000030

DCRVER25

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468503

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 9 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/08/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/10/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.4 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 36 | U |
| 11104-28-2 | Aroclor-1221 | 74 | U |
| 11141-16-5 | Aroclor-1232 | 36 | U |
| 53469-21-9 | Aroclor-1242 | 36 | U |
| 12672-29-6 | Aroclor-1248 | 36 | U |
| 11097-69-1 | Aroclor-1254 | 36 | U |
| 11096-82-5 | Aroclor-1260 | 36 | U |

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# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000031

DCRVER26

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468504

Sample wt/vol: 30.4 (g/mL) G Lab File ID: _____

% Moisture: 6 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/08/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/10/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.5 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 35 | U |
| 11104-28-2 | Aroclor-1221 | 70 | U |
| 11141-16-5 | Aroclor-1232 | 35 | U |
| 53469-21-9 | Aroclor-1242 | 35 | U |
| 12672-29-6 | Aroclor-1248 | 12 | J |
| 11097-69-1 | Aroclor-1254 | 35 | U |
| 11096-82-5 | Aroclor-1260 | 14 | J |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 980082

DCRVER27

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468505

Sample wt/vol: 30.4 (g/mL) G Lab File ID: _____

% Moisture: 9 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/08/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/10/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.5 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 36 | U |
| 11104-28-2 | Aroclor-1221 | 73 | U |
| 11141-16-5 | Aroclor-1232 | 36 | U |
| 53469-21-9 | Aroclor-1242 | 36 | U |
| 12672-29-6 | Aroclor-1248 | 36 | U |
| 11097-69-1 | Aroclor-1254 | 36 | U |
| 11096-82-5 | Aroclor-1260 | 36 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA S[illegible]000033

DCRVER28

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468512

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 8 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/08/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/10/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.7 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 36 | U |
| 11104-28-2 | Aroclor-1221 | 73 | U |
| 11141-16-5 | Aroclor-1232 | 36 | U |
| 53469-21-9 | Aroclor-1242 | 36 | U |
| 12672-29-6 | Aroclor-1248 | 36 | U |
| 11097-69-1 | Aroclor-1254 | 36 | U |
| 11096-82-5 | Aroclor-1260 | 11 | J |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000034

DCRVER29

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468513

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 7 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/08/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/10/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.6 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 35 | U |
| 11104-28-2 | Aroclor-1221 | 72 | U |
| 11141-16-5 | Aroclor-1232 | 35 | U |
| 53469-21-9 | Aroclor-1242 | 35 | U |
| 12672-29-6 | Aroclor-1248 | 35 | U |
| 11097-69-1 | Aroclor-1254 | 35 | U |
| 11096-82-5 | Aroclor-1260 | 6.9 | JP |

EPA SAMPLE NO.

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

DCRVER30

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468514

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 6 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/08/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/10/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.7 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 35 | U |
| 11104-28-2 | Aroclor-1221 | 71 | U |
| 11141-16-5 | Aroclor-1232 | 35 | U |
| 53469-21-9 | Aroclor-1242 | 35 | U |
| 12672-29-6 | Aroclor-1248 | 35 | U |
| 11097-69-1 | Aroclor-1254 | 35 | U |
| 11096-82-5 | Aroclor-1260 | 35 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DCRVER31

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468515

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 8 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/08/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/10/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.5 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 36 | U |
| 11104-28-2 | Aroclor-1221 | 73 | U |
| 11141-16-5 | Aroclor-1232 | 36 | U |
| 53469-21-9 | Aroclor-1242 | 36 | U |
| 12672-29-6 | Aroclor-1248 | 36 | U |
| 11097-69-1 | Aroclor-1254 | 36 | U |
| 11096-82-5 | Aroclor-1260 | 11 | JP |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DCRVER32

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468516

Sample wt/vol: 30.2 (g/mL) G Lab File ID: _____

% Moisture: 8 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/08/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/11/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.4 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 36 | U |
| 11104-28-2 | Aroclor-1221 | 72 | U |
| 11141-16-5 | Aroclor-1232 | 36 | U |
| 53469-21-9 | Aroclor-1242 | 36 | U |
| 12672-29-6 | Aroclor-1248 | 36 | U |
| 11097-69-1 | Aroclor-1254 | 36 | U |
| 11096-82-5 | Aroclor-1260 | 12 | JP |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000038

DCRVER33

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468517

Sample wt/vol: 30.2 (g/mL) G Lab File ID: _____

% Moisture: 7 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/08/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/11/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.5 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 35 | U |
| 11104-28-2 | Aroclor-1221 | 72 | U |
| 11141-16-5 | Aroclor-1232 | 35 | U |
| 53469-21-9 | Aroclor-1242 | 35 | U |
| 12672-29-6 | Aroclor-1248 | 35 | U |
| 11097-69-1 | Aroclor-1254 | 35 | U |
| 11096-82-5 | Aroclor-1260 | 35 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DCRVER34

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468518

Sample wt/vol: 30.3 (g/mL) G Lab File ID: _____

% Moisture: 8 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/08/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/11/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.6 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 36 | U |
| 11104-28-2 | Aroclor-1221 | 72 | U |
| 11141-16-5 | Aroclor-1232 | 36 | U |
| 53469-21-9 | Aroclor-1242 | 36 | U |
| 12672-29-6 | Aroclor-1248 | 36 | U |
| 11097-69-1 | Aroclor-1254 | 36 | U |
| 11096-82-5 | Aroclor-1260 | 14 | JP |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000040

DCRVER35

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468519

Sample wt/vol: 30.2 (g/mL) G Lab File ID: _____

% Moisture: 10 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/08/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/11/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.5 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 36 | U |
| 11104-28-2 | Aroclor-1221 | 74 | U |
| 11141-16-5 | Aroclor-1232 | 36 | U |
| 53469-21-9 | Aroclor-1242 | 36 | U |
| 12672-29-6 | Aroclor-1248 | 36 | U |
| 11097-69-1 | Aroclor-1254 | 36 | U |
| 11096-82-5 | Aroclor-1260 | 36 | U |

000041

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DCRVER36

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468520

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 22 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/08/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/11/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.3 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 42 | U |
| 11104-28-2 | Aroclor-1221 | 86 | U |
| 11141-16-5 | Aroclor-1232 | 42 | U |
| 53469-21-9 | Aroclor-1242 | 42 | U |
| 12672-29-6 | Aroclor-1248 | 42 | U |
| 11097-69-1 | Aroclor-1254 | 42 | U |
| 11096-82-5 | Aroclor-1260 | 4.1 | JP |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DCRVER48

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468510

Sample wt/vol: 30.5 (g/mL) G Lab File ID: _____

% Moisture: 13 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/08/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/10/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.8 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 37 | U |
| 11104-28-2 | Aroclor-1221 | 76 | U |
| 11141-16-5 | Aroclor-1232 | 37 | U |
| 53469-21-9 | Aroclor-1242 | 37 | U |
| 12672-29-6 | Aroclor-1248 | 37 | U |
| 11097-69-1 | Aroclor-1254 | 37 | U |
| 11096-82-5 | Aroclor-1260 | 37 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DCRVER49

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468511

Sample wt/vol: 30.3 (g/mL) G Lab File ID: _____

% Moisture: 11 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/08/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/10/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.7 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 37 | U |
| 11104-28-2 | Aroclor-1221 | 75 | U |
| 11141-16-5 | Aroclor-1232 | 37 | U |
| 53469-21-9 | Aroclor-1242 | 37 | U |
| 12672-29-6 | Aroclor-1248 | 37 | U |
| 11097-69-1 | Aroclor-1254 | 37 | U |
| 11096-82-5 | Aroclor-1260 | 37 | U |

000044

EPA SAMPLE NO.

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

DCRVER50

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468507

Sample wt/vol: 30.2 (g/mL) G Lab File ID: _____

% Moisture: 11 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/08/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/10/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.2 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 37 | U |
| 11104-28-2 | Aroclor-1221 | 75 | U |
| 11141-16-5 | Aroclor-1232 | 37 | U |
| 53469-21-9 | Aroclor-1242 | 37 | U |
| 12672-29-6 | Aroclor-1248 | 37 | U |
| 11097-69-1 | Aroclor-1254 | 37 | U |
| 11096-82-5 | Aroclor-1260 | 37 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000045

DCRVER201

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468506

Sample wt/vol: 30.5 (g/mL) G Lab File ID: _____

% Moisture: 8 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/08/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/10/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.4 Sulfur Cleanup: (Y/N) N

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

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 35 | U |
| 11104-28-2 | Aroclor-1221 | 72 | U |
| 11141-16-5 | Aroclor-1232 | 35 | U |
| 53469-21-9 | Aroclor-1242 | 35 | U |
| 12672-29-6 | Aroclor-1248 | 35 | U |
| 11097-69-1 | Aroclor-1254 | 35 | U |
| 11096-82-5 | Aroclor-1260 | 35 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000031

DCRVER26

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468504

Sample wt/vol: 30.4 (g/mL) G Lab File ID: _____

% Moisture: 6 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/08/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/10/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.5 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 35 | U |
| 11104-28-2 | Aroclor-1221 | 70 | U |
| 11141-16-5 | Aroclor-1232 | 35 | U |
| 53469-21-9 | Aroclor-1242 | 35 | U |
| 12672-29-6 | Aroclor-1248 | 12 | J |
| 11097-69-1 | Aroclor-1254 | 35 | U |
| 11096-82-5 | Aroclor-1260 | 14 | J |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 990082

DCRVER27

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468505

Sample wt/vol: 30.4 (g/mL) G Lab File ID: _____

% Moisture: 9 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/08/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/10/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.5 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 36 | U |
| 11104-28-2 | Aroclor-1221 | 73 | U |
| 11141-16-5 | Aroclor-1232 | 36 | U |
| 53469-21-9 | Aroclor-1242 | 36 | U |
| 12672-29-6 | Aroclor-1248 | 36 | U |
| 11097-69-1 | Aroclor-1254 | 36 | U |
| 11096-82-5 | Aroclor-1260 | 36 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA S 000033

DCRVER28

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468512

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 8 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/08/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/10/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.7 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 36 | U |
| 11104-28-2 | Aroclor-1221 | 73 | U |
| 11141-16-5 | Aroclor-1232 | 36 | U |
| 53469-21-9 | Aroclor-1242 | 36 | U |
| 12672-29-6 | Aroclor-1248 | 36 | U |
| 11097-69-1 | Aroclor-1254 | 36 | U |
| 11096-82-5 | Aroclor-1260 | 11 | J |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000034

DCRVER29

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468513

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 7 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/08/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/10/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.6 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 35 | U |
| 11104-28-2 | Aroclor-1221 | 72 | U |
| 11141-16-5 | Aroclor-1232 | 35 | U |
| 53469-21-9 | Aroclor-1242 | 35 | U |
| 12672-29-6 | Aroclor-1248 | 35 | U |
| 11097-69-1 | Aroclor-1254 | 35 | U |
| 11096-82-5 | Aroclor-1260 | 6.9 | JP |

000035

EPA SAMPLE NO.

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

DCRVER30

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468514

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 6 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/08/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/10/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.7 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 35 | U |
| 11104-28-2 | Aroclor-1221 | 71 | U |
| 11141-16-5 | Aroclor-1232 | 35 | U |
| 53469-21-9 | Aroclor-1242 | 35 | U |
| 12672-29-6 | Aroclor-1248 | 35 | U |
| 11097-69-1 | Aroclor-1254 | 35 | U |
| 11096-82-5 | Aroclor-1260 | 35 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DCRVER31

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468515

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 8 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/08/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/10/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.5 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 36 | U |
| 11104-28-2 | Aroclor-1221 | 73 | U |
| 11141-16-5 | Aroclor-1232 | 36 | U |
| 53469-21-9 | Aroclor-1242 | 36 | U |
| 12672-29-6 | Aroclor-1248 | 36 | U |
| 11097-69-1 | Aroclor-1254 | 36 | U |
| 11096-82-5 | Aroclor-1260 | 11 | JP |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DCRVER32

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468516

Sample wt/vol: 30.2 (g/mL) G Lab File ID: _____

% Moisture: 8 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/08/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/11/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.4 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 36 | U |
| 11104-28-2 | Aroclor-1221 | 72 | U |
| 11141-16-5 | Aroclor-1232 | 36 | U |
| 53469-21-9 | Aroclor-1242 | 36 | U |
| 12672-29-6 | Aroclor-1248 | 36 | U |
| 11097-69-1 | Aroclor-1254 | 36 | U |
| 11096-82-5 | Aroclor-1260 | 12 | JP |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: DCRVER33

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468517

Sample wt/vol: 30.2 (g/mL) G Lab File ID: _____

% Moisture: 7 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/08/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/11/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.5 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 35 | U |
| 11104-28-2 | Aroclor-1221 | 72 | U |
| 11141-16-5 | Aroclor-1232 | 35 | U |
| 53469-21-9 | Aroclor-1242 | 35 | U |
| 12672-29-6 | Aroclor-1248 | 35 | U |
| 11097-69-1 | Aroclor-1254 | 35 | U |
| 11096-82-5 | Aroclor-1260 | 35 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DCRVER34

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468518

Sample wt/vol: 30.3 (g/mL) G Lab File ID: _____

% Moisture: 8 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/08/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/11/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.6 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 36 | U |
| 11104-28-2 | Aroclor-1221 | 72 | U |
| 11141-16-5 | Aroclor-1232 | 36 | U |
| 53469-21-9 | Aroclor-1242 | 36 | U |
| 12672-29-6 | Aroclor-1248 | 36 | U |
| 11097-69-1 | Aroclor-1254 | 36 | U |
| 11096-82-5 | Aroclor-1260 | 14 | JP |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000040

DCRVER35

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468519

Sample wt/vol: 30.2 (g/mL) G Lab File ID: _____

% Moisture: 10 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/08/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/11/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.5 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 36 | U |
| 11104-28-2 | Aroclor-1221 | 74 | U |
| 11141-16-5 | Aroclor-1232 | 36 | U |
| 53469-21-9 | Aroclor-1242 | 36 | U |
| 12672-29-6 | Aroclor-1248 | 36 | U |
| 11097-69-1 | Aroclor-1254 | 36 | U |
| 11096-82-5 | Aroclor-1260 | 36 | U |

000041

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DCRVER36

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468520

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 22 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/08/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/11/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.3 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 42 | U |
| 11104-28-2 | Aroclor-1221 | 86 | U |
| 11141-16-5 | Aroclor-1232 | 42 | U |
| 53469-21-9 | Aroclor-1242 | 42 | U |
| 12672-29-6 | Aroclor-1248 | 42 | U |
| 11097-69-1 | Aroclor-1254 | 42 | U |
| 11096-82-5 | Aroclor-1260 | 4.1 | JP |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DCRVER48

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468510

Sample wt/vol: 30.5 (g/mL) G Lab File ID: _____

% Moisture: 13 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/08/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/10/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.8 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 37 | U |
| 11104-28-2 | Aroclor-1221 | 76 | U |
| 11141-16-5 | Aroclor-1232 | 37 | U |
| 53469-21-9 | Aroclor-1242 | 37 | U |
| 12672-29-6 | Aroclor-1248 | 37 | U |
| 11097-69-1 | Aroclor-1254 | 37 | U |
| 11096-82-5 | Aroclor-1260 | 37 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DCRVER49

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468511

Sample wt/vol: 30.3 (g/mL) G Lab File ID: _____

% Moisture: 11 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/08/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/10/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.7 Sulfur Cleanup: (Y/N) N

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

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 37 | U |
| 11104-28-2 | Aroclor-1221 | 75 | U |
| 11141-16-5 | Aroclor-1232 | 37 | U |
| 53469-21-9 | Aroclor-1242 | 37 | U |
| 12672-29-6 | Aroclor-1248 | 37 | U |
| 11097-69-1 | Aroclor-1254 | 37 | U |
| 11096-82-5 | Aroclor-1260 | 37 | U |

000044

EPA SAMPLE NO.

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

DCRVER50

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468507

Sample wt/vol: 30.2 (g/mL) G Lab File ID: _____

% Moisture: 11 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/08/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/10/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.2 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 37 | U |
| 11104-28-2 | Aroclor-1221 | 75 | U |
| 11141-16-5 | Aroclor-1232 | 37 | U |
| 53469-21-9 | Aroclor-1242 | 37 | U |
| 12672-29-6 | Aroclor-1248 | 37 | U |
| 11097-69-1 | Aroclor-1254 | 37 | U |
| 11096-82-5 | Aroclor-1260 | 37 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000045

DCRVER201

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) SOIL Lab Sample ID: A5468506

Sample wt/vol: 30.5 (g/mL) G Lab File ID: _____

% Moisture: 8 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/08/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/10/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.4 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 35 | U |
| 11104-28-2 | Aroclor-1221 | 72 | U |
| 11141-16-5 | Aroclor-1232 | 35 | U |
| 53469-21-9 | Aroclor-1242 | 35 | U |
| 12672-29-6 | Aroclor-1248 | 35 | U |
| 11097-69-1 | Aroclor-1254 | 35 | U |
| 11096-82-5 | Aroclor-1260 | 35 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW54602

ab .me: RECRA ENVIRON Contract: NY95-438

ab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

atrix: (soil/water) WATER Lab Sample ID: A5468508

ample wt/vol: 1000 (g/mL) ML Lab File ID: _____

Moisture: _____ decanted: (Y/N) ___ Date Received: 09/02/95

xtraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/07/95

oncentrated Extract Volume: 1000 (uL) Date Analyzed: 09/07/95

njection Volume: 1.00 (uL) Dilution Factor: 1.00

PC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) Y

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.065 | U |
| 11104-28-2 | Aroclor-1221 | 0.065 | U |
| 11141-16-5 | Aroclor-1232 | 0.065 | U |
| 53469-21-9 | Aroclor-1242 | 0.065 | U |
| 12672-29-6 | Aroclor-1248 | 0.065 | U |
| 11097-69-1 | Aroclor-1254 | 0.065 | U |
| 11096-82-5 | Aroclor-1260 | 0.17 | |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: MW54603

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix: (soil/water) WATER Lab Sample ID: A5468509

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/07/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/07/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) Y

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.065 | U |
| 11104-28-2 | Aroclor-1221 | 0.065 | U |
| 11141-16-5 | Aroclor-1232 | 0.065 | U |
| 53469-21-9 | Aroclor-1242 | 0.065 | U |
| 12672-29-6 | Aroclor-1248 | 0.065 | U |
| 11097-69-1 | Aroclor-1254 | 0.065 | U |
| 11096-82-5 | Aroclor-1260 | 0.065 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
SOIL SURROGATE RECOVERY

**000048**

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Level (low/med): LOW

| | Client Sample ID | 2CP %REC | # | 2FP %REC | # | DCB %REC | # | FBP %REC | # | NBZ %REC | # | PHL %REC | # | TBP %REC | # | TPH %REC | # | TOT OUT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | DCR-VER-201 | 73 | | 77 | | 71 | | 70 | | 65 | | 74 | | 123 | * | 90 | | 1 |
| 2 | DCR-VER-23 | 49 | | 48 | | 48 | | 49 | | 46 | | 47 | | 77 | | 64 | | 0 |
| 3 | DCR-VER-23 MS | 68 | | 68 | | 65 | | 61 | | 64 | | 71 | | 86 | | 75 | | 0 |
| 4 | DCR-VER-23 MSD | 77 | | 77 | | 70 | | 64 | | 63 | | 77 | | 87 | | 78 | | 0 |
| 5 | DCR-VER-24 | 56 | | 59 | | 54 | | 53 | | 51 | | 58 | | 76 | | 65 | | 0 |
| 6 | DCR-VER-25 | 100 | | 102 | | 95 | | 108 | | 95 | | 102 | | 167 | * | 139 | * | 2 |
| 7 | DCR-VER-26 | 101 | | 101 | | 90 | | 103 | | 90 | | 97 | | 161 | * | 127 | | 1 |
| 8 | DCR-VER-27 | 71 | | 74 | | 71 | | 70 | | 63 | | 70 | | 110 | | 90 | | 0 |
| 9 | DCR-VER-28 | 59 | | 63 | | 61 | | 61 | | 62 | | 63 | | 87 | | 81 | | 0 |
| 10 | DCR-VER-29 | 68 | | 78 | | 66 | | 67 | | 69 | | 68 | | 102 | | 93 | | 0 |
| 11 | DCR-VER-30 | 62 | | 66 | | 60 | | 65 | | 59 | | 64 | | 86 | | 82 | | 0 |
| 12 | DCR-VER-31 | 66 | | 70 | | 62 | | 63 | | 67 | | 65 | | 95 | | 82 | | 0 |
| 13 | DCR-VER-32 | 66 | | 72 | | 65 | | 64 | | 68 | | 72 | | 94 | | 82 | | 0 |
| 14 | DCR-VER-33 | 57 | | 64 | | 49 | | 55 | | 55 | | 61 | | 90 | | 76 | | 0 |
| 15 | CR-VER-34 | 59 | | 67 | | 51 | | 58 | | 57 | | 62 | | 96 | | 77 | | 0 |
| 16 | CR-VER-35 | 65 | | 70 | | 58 | | 60 | | 64 | | 62 | | 92 | | 82 | | 0 |
| 17 | DCR-VER-36 | 58 | | 64 | | 51 | | 53 | | 56 | | 59 | | 83 | | 78 | | 0 |
| 18 | DCR-VER-48 | 54 | | 54 | | 48 | | 57 | | 57 | | 53 | | 74 | | 80 | | 0 |
| 19 | DCR-VER-49 | 59 | | 64 | | 53 | | 56 | | 59 | | 59 | | 89 | | 78 | | 0 |
| 20 | DCR-VER-50 | 81 | | 78 | | 71 | | 76 | | 75 | | 75 | | 136 | * | 103 | | 1 |
| 21 | Matrix Spike Blank | 79 | | 91 | | 75 | | 76 | | 72 | | 81 | | 103 | | 98 | | 0 |
| 22 | SBLK87 | 69 | | 74 | | 72 | | 69 | | 72 | | 73 | | 101 | | 93 | | 0 |

| | | QC LIMITS |
|---|---|---|
| 2CP | = 2-Chlorophenol-d4 | ( 20-130) |
| 2FP | = 2-Fluorophenol | ( 25-121) |
| DCB | = 1,2-Dichlorobenzene-d4 | ( 20-130) |
| FBP | = 2-Fluorobiphenyl | ( 30-115) |
| NBZ | = Nitrobenzene-D5 | ( 23-120) |
| PHL | = Phenol-D5 | ( 24-113) |
| TBP | = 2,4,6-Tribromophenol | ( 19-122) |
| TPH | = Terphenyl-D14 | ( 18-137) |

\# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

2E
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

GC Column(1): DB608 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

| | EPA SAMPLE NO. | TCX 1 %REC # | TCX 2 %REC # | DCB 1 %REC # | DCB 2 %REC # | OTHER (1) | OTHER (2) | TOT OUT |
|---|---|---|---|---|---|---|---|---|
| 01 | PBLK14 | 16* | 15* | 36* | 33* | | | 4 |
| 02 | MSB14 | 15* | 14* | 33* | 30* | | | 4 |
| 03 | MSBD14 | 16* | 15* | 33* | 31* | | | 4 |
| 04 | MW54602 | 21* | 20* | 36* | 34* | | | 4 |
| 05 | MW54603 | 28* | 15* | 35* | 32* | | | 4 |

ADVISORY QC LIMITS

TCX = Tetrachloro-m-xylene ( 60-150)
DCB = Decachlorobiphenyl ( 60-150)

# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

2F
SOIL PESTICIDE SURROGATE RECOVERY

000050

ab me: RECRA ENVIRON Contract: NY95-438

ab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

C Column(1): DB608 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

| | EPA SAMPLE NO. | TCX 1 %REC # | TCX 2 %REC # | DCB 1 %REC # | DCB 2 %REC # | OTHER (1) | OTHER (2) | TOT OUT |
|---|---|---|---|---|---|---|---|---|
| 01 | PBLK17 | 26* | 26* | 37* | 35* | | | 4 |
| 02 | DCRVER201 | 32* | 33* | 46* | 44* | | | 4 |
| 03 | DCRVER23 | 82 | 82 | 102 | 103 | | | 0 |
| 04 | DCRVER24 | 49* | 50* | 68 | 68 | | | 2 |
| 05 | DCRVER25 | 53* | 54* | 76 | 76 | | | 2 |
| 06 | DCRVER26 | 25* | 26* | 37* | 35* | | | 4 |
| 07 | DCRVER27 | 40* | 40* | 56* | 55* | | | 4 |
| 08 | DCRVER28 | 42* | 43* | 62 | 83 | | | 2 |
| 09 | DCRVER29 | 45* | 45* | 60 | 60 | | | 2 |
| 10 | DCRVER30 | 36* | 36* | 54* | 52* | | | 4 |
| 11 | DCRVER31 | 66 | 68 | 84 | 85 | | | 0 |
| 12 | DCRVER32 | 61 | 62 | 78 | 78 | | | 0 |
| 13 | DCRVER33 | 18* | 18* | 26* | 24* | | | 4 |
| 14 | DCRVER34 | 42* | 41* | 62 | 61 | | | 2 |
| 15 | DCRVER35 | 60 | 62 | 76 | 76 | | | 0 |
| 16 | DCRVER36 | 36* | 36* | 57* | 56* | | | 4 |
| 17 | DCRVER48 | 36* | 36* | 53* | 51* | | | 4 |
| 18 | DCRVER49 | 40* | 40* | 55* | 54* | | | 4 |
| 19 | DCRVER50 | 32* | 32* | 45* | 43* | | | 4 |
| 20 | MSB17 | 30* | 30* | 46* | 44* | | | 4 |
| 21 | MSBD17 | 33* | 33* | 47* | 45* | | | 4 |

ADVISORY QC LIMITS

TCX = Tetrachloro-m-xylene ( 60-150)
DCB = Decachlorobiphenyl ( 60-150)

# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
SOIL MATRIX SPIKE BLANK RECOVERY

C00051

Nar. Recra Environmental, Inc. Contract: MQ772732MQ Lab Samp ID: A5B0585501

Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

rix Spike - Client Sample No.: ~~SBLK87~~ MSBLANK Level: (low/med) LOW

MTA 9/28/95

| MPOUND | SPIKE ADDED UG/KG | MSB CONCENTRATION UG/KG | MSB % REC # | QC LIMITS REC. |
|---|---|---|---|---|
| enaphthene | 1200 | 920 | 77 | 31 - 137 |
| rene | 1200 | 1000 | 83 | 35 - 142 |

olumn to be used to flag recovery and RPD values with an asterisk

alues outside of QC limits

ke recovery: 0 out of 2 outside limits

mments: _____

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
SOIL MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

N. Recra Environmental, Inc. Contract: MQ772732MQ Lab Samp ID: A5468501

Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

rix Spike - Client Sample No.: DCR-VER-23 Level: (low/med) LOW

| MPOUND | SPIKE ADDED UG/KG | SAMPLE CONCENTRATION UG/KG | MS CONCENTRATION UG/KG | MS % REC # | QC LIMITS REC. |
|---|---|---|---|---|---|
| enaphthene | 2100 | 0 | 1300 | 62 | 31 - 137 |
| rene | 2100 | 0 | 1500 | 71 | 35 - 142 |

| MPOUND | SPIKE ADDED UG/KG | MSD CONCENTRATION UG/KG | MSD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| enaphthene | 2100 | 1300 | 62 | 0 | 19 | 31 - 137 |
| rene | 2100 | 1500 | 71 | 0 | 36 | 35 - 142 |

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

Va s outside of QC limits

D: 0 out of 2 outside limits
ike recovery: 0 out of 4 outside limits

mments: _____

3F

WATER PCB MSB/MSBD RECOVERY

000053

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix Spike - EPA Sample No.: MSB14,MSBD14

| COMPOUND | SPIKE ADDED (ug/L) | MSB CONCENTRATION (ug/L) | MSB % REC # |
|---|---|---|---|
| Aroclor 1242 | 1.00 | 0.46 | 46 |

| COMPOUND | SPIKE ADDED (ug/L) | MSBD CONCENTRATION (ug/L) | MSBD % REC # |
|---|---|---|---|
| Aroclor 1242 | 1.0 | 0.49 | 49 |

COMMENTS:

3F

# SOIL PCB MSB/MSBD RECOVERY

I Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix Spike - EPA Sample No.: MSB17,MSBD17

| COMPOUND | SPIKE ADDED (ug/Kg) | MSB CONCENTRATION (ug/Kg) | MSB % REC # |
|---|---|---|---|
| Aroclor 1242 | 333 | 110 | 33 |

| COMPOUND | SPIKE ADDED (ug/Kg) | MSBD CONCENTRATION (ug/Kg) | MSBD % REC # |
|---|---|---|---|
| Aroclor 1242 | 333 | 120 | 36 |

COMMENTS:

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
METHOD BLANK SUMMARY

000055
Client No.

SBLK87

) Name: Recra Environmental, Contract: MQ772732MQ

) Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

) File ID: 23267X.MSQ Lab Sample ID: A5B0585501

strument ID: I50X Date Extracted: 09/06/95

trix: (soil/water) SOIL Date Analyzed: 09/09/95

vel: (low/med) LOW Time Analyzed: 12:45

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

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|---|
| 1 | DCR-VER-201 | A5468506 | 23244X.MSQ | 09/08/95 |
| 2 | DCR-VER-23 | A5468501 | 23263X.MSQ | 09/09/95 |
| 3 | DCR-VER-23 MS | A5468501MS | 23264X.MSQ | 09/09/95 |
| 4 | DCR-VER-23 MSD | A5468501SD | 23265X.MSQ | 09/09/95 |
| 5 | DCR-VER-24 | A5468502 | 23266X.MSQ | 09/09/95 |
| 6 | DCR-VER-25 | A5468503 | 23241X.MSQ | 09/08/95 |
| 7 | DCR-VER-26 | A5468504 | 23242X.MSQ | 09/08/95 |
| 8 | DCR-VER-27 | A5468505 | 23243X.MSQ | 09/08/95 |
| 9 | DCR-VER-28 | A5468512 | 23252X.MSQ | 09/08/95 |
| 10 | DCR-VER-29 | A5468513 | 23253X.MSQ | 09/08/95 |
| 11 | DCR-VER-30 | A5468514 | 23254X.MSQ | 09/08/95 |
| 12 | DCR-VER-31 | A5468515 | 23255X.MSQ | 09/08/95 |
| 13 | DCR-VER-32 | A5468516 | 23256X.MSQ | 09/08/95 |
| 14 | DCR-VER-33 | A5468517 | 23257X.MSQ | 09/08/95 |
| 15 | DCR-VER-34 | A5468518 | 23258X.MSQ | 09/08/95 |
| 16 | DCR-VER-35 | A5468519 | 23259X.MSQ | 09/09/95 |
| 17 | DCR-VER-36 | A5468520 | 23260X.MSQ | 09/09/95 |
| 18 | DCR-VER-48 | A5468510 | 23250X.MSQ | 09/08/95 |
| 19 | DCR-VER-49 | A5468511 | 23251X.MSQ | 09/08/95 |
| 20 | DCR-VER-50 | A5468507 | 23245X.MSQ | 09/08/95 |
| 21 | Matrix Spike Blank | A5468521 | 23268X.MSQ | 09/09/95 |

omments: _____

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
ANALYSIS DATA SHEET

000056

Client No.

SBLK87

) Name: Recra Environmental, Contract: MQ772732MQ

) Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

:rix: (soil/water) SOIL Lab Sample ID: A5B0585501

nple wt/vol: 40.00 (g/mL) G Lab File ID: 23267X.MSQ

vel: (low/med) LOW Date Samp/Recv: _____ _____

Moisture: _____ decanted: (Y/N) N Date Extracted: 09/06/95

ncentrated Extract Volume: 500 (uL) Date Analyzed: 09/09/95

jection Volume: 2.00 (uL) Dilution Factor: 1.00

C Cleanup: (Y/N) Y pH: 7.0

| AS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 3-32-9 | ACENAPHTHENE | 300 | U |
| 08-96-8 | ACENAPHTHYLENE | 300 | U |
| 20 2-7 | ANTHRACENE | 300 | U |
| 6- -3 | BENZO(A)ANTHRACENE | 300 | U |
| 05-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 07-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 91-24-2 | BENZO(G,H,I)PERYLENE | 300 | U |
| 0-32-8 | BENZO(A)PYRENE | 300 | U |
| 18-01-9 | CHRYSENE | 300 | U |
| 3-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 06-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.
C00057

PBLK14

) Name: RECRA ENVIRON Contract: NY95-438

) Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

) Sample ID: A5B0590003 Lab File ID: _____

trix: (soil/water) WATER Extraction: (SepF/Cont/Sonc) SEPF

lfur Cleanup: (Y/N) Y Date Extracted: 09/07/95

te Analyzed (1): 09/07/95 Date Analyzed (2): 09/07/95

me Analyzed (1): 1822 Time Analyzed (2): 1822

strument ID (1): 5890A9 Instrument ID (2): 5890B9

Column (1): DB608 ID: 0.53 (mm) GC Column (2): DB1701 ID: 0.53 (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 | MSB14 | A5B0590001 | 09/07/95 | 09/07/95 |
| 02 | MSBD14 | A5B0590002 | 09/07/95 | 09/07/95 |
| 03 | MW54602 | A5468508 | 09/07/95 | 09/07/95 |
| 04 | MW54603 | A5468509 | 09/07/95 | 09/07/95 |

MMENTS:

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK14

ab Name: RECRA ENVIRON Contract: NY95-438

ab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

atrix: (soil/water) WATER Lab Sample ID: A5B0590003

ample wt/vol: 1000 (g/mL) ML Lab File ID: _____

Moisture: _____ decanted: (Y/N) ___ Date Received: _____

xtraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/07/95

oncentrated Extract Volume: 1000 (uL) Date Analyzed: 09/07/95

njection Volume: 1.00 (uL) Dilution Factor: 1.00

PC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) Y

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.065 | U |
| 11104-28-2 | Aroclor-1221 | 0.065 | U |
| 11141-16-5 | Aroclor-1232 | 0.065 | U |
| 53469-21-9 | Aroclor-1242 | 0.065 | U |
| 12672-29-6 | Aroclor-1248 | 0.014 | JP |
| 11097-69-1 | Aroclor-1254 | 0.065 | U |
| 11096-82-5 | Aroclor-1260 | 0.065 | U |

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK17

b ..me: RECRA ENVIRON Contract: NY95-438

b Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

b Sample ID: A5B0593003 Lab File ID: _____

trix: (soil/water) SOIL Extraction: (SepF/Cont/Sonc) SONC

lfur Cleanup: (Y/N) N Date Extracted: 09/08/95

te Analyzed (1): 09/11/95 Date Analyzed (2): 09/11/95

me Analyzed (1): 0427 Time Analyzed (2): 0427

strument ID (1): 5890A9 Instrument ID (2): 5890B9

Column (1): DB608 ID: 0.53 (mm) GC Column (2): DB1701 ID: 0.53 (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 | DCRVER201 | A5468506 | 09/10/95 | 09/10/95 |
| 02 | DCRVER23 | A5468501 | 09/10/95 | 09/10/95 |
| 03 | DCRVER24 | A5468502 | 09/10/95 | 09/10/95 |
| 04 | DCRVER25 | A5468503 | 09/10/95 | 09/10/95 |
| 05 | DCRVER26 | A5468504 | 09/10/95 | 09/10/95 |
| 06 | DCRVER27 | A5468505 | 09/10/95 | 09/10/95 |
| 07 | DCRVER28 | A5468512 | 09/10/95 | 09/10/95 |
| 08 | DCRVER29 | A5468513 | 09/10/95 | 09/10/95 |
| 09 | DCRVER30 | A5468514 | 09/10/95 | 09/10/95 |
| 10 | DCRVER31 | A5468515 | 09/10/95 | 09/10/95 |
| 11 | DCRVER32 | A5468516 | 09/11/95 | 09/11/95 |
| 12 | DCRVER33 | A5468517 | 09/11/95 | 09/11/95 |
| 13 | DCRVER34 | A5468518 | 09/11/95 | 09/11/95 |
| 14 | DCRVER35 | A5468519 | 09/11/95 | 09/11/95 |
| 15 | DCRVER36 | A5468520 | 09/11/95 | 09/11/95 |
| 16 | DCRVER48 | A5468510 | 09/10/95 | 09/10/95 |
| 17 | DCRVER49 | A5468511 | 09/10/95 | 09/10/95 |
| 18 | DCRVER50 | A5468507 | 09/10/95 | 09/10/95 |
| 19 | MSB17 | A5B0593001 | 09/11/95 | 09/11/95 |
| 20 | MSBD17 | A5B0593004 | 09/11/95 | 09/11/95 |

MMENTS:

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK17

ab ame: RECRA ENVIRON Contract: NY95-438

ab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

atrix: (soil/water) SOIL Lab Sample ID: A5B0593003

ample wt/vol: 30.0 (g/mL) G Lab File ID: _____

Moisture: _____ decanted: (Y/N) ___ Date Received: _____

xtraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/08/95

oncentrated Extract Volume: 5000 (uL) Date Analyzed: 09/11/95

njection Volume: 1.00 (uL) Dilution Factor: 1.00

PC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 33 | U |
| 11104-28-2 | Aroclor-1221 | 67 | U |
| 11141-16-5 | Aroclor-1232 | 33 | U |
| 53469-21-9 | Aroclor-1242 | 33 | U |
| 12672-29-6 | Aroclor-1248 | 33 | U |
| 11097-69-1 | Aroclor-1254 | 33 | U |
| 11096-82-5 | Aroclor-1260 | 33 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

**000061**

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Labsampid: A5C0001233

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Lab File ID (Standard): 23237X.MSQ Date Analyzed: 09/08/95

Instrument ID: I50X Time Analyzed: 06:32

| | IS1 (ANT) AREA | # | RT | # | IS2 (CRY) AREA | # | RT | # | IS3 (DCB) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 HOUR STD | 37472 | | 16.48 | | 40675 | | 29.22 | | 20050 | | 7.72 | |
| UPPER LIMIT | 74944 | | 16.98 | | 81350 | | 29.72 | | 40100 | | 8.22 | |
| LOWER LIMIT | 18736 | | 15.98 | | 20338 | | 28.72 | | 10025 | | 7.22 | |
| CLIENT SAMPLE | | | | | | | | | | | | |
| DCR-VER-201 | 36144 | | 16.47 | | 46557 | | 29.20 | | 15384 | | 7.73 | |
| DCR-VER-25 | 27208 | | 16.47 | | 34209 | | 29.18 | | 11924 | | 7.73 | |
| DCR-VER-26 | 25138 | | 16.47 | | 33710 | | 29.20 | | 11266 | | 7.73 | |
| DCR-VER-27 | 37186 | | 16.47 | | 48999 | | 29.20 | | 16062 | | 7.73 | |
| DCR-VER-50 | 30866 | | 16.47 | | 39669 | | 29.20 | | 13954 | | 7.73 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS1 (ANT) = Acenaphthene-D10 | ( 50-200) | -0.50 / +0.50 min |
| IS2 (CRY) = Chrysene-D12 | ( 50-200) | -0.50 / +0.50 min |
| IS3 (DCB) = 1,4-Dichlorobenzene-D4 | ( 50-200) | -0.50 / +0.50 min |

\# Column to be used to flag recovery values
* Values outside of contract required QC limits

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

**000062**

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Labsampid: A5C0001233

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Lab File ID (Standard): 23237X.MSQ Date Analyzed: 09/08/95

Instrument ID: I50X Time Analyzed: 06:32

| | IS4 (NPT) AREA | # | RT | # | IS5 (PHN) AREA | # | RT | # | IS6 (PRY) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 HOUR STD | 73726 | | 11.20 | | 49796 | | 21.02 | | 22073 | | 33.30 | |
| UPPER LIMIT | 147452 | | 11.70 | | 99592 | | 21.52 | | 44146 | | 33.80 | |
| LOWER LIMIT | 36863 | | 10.70 | | 24898 | | 20.52 | | 11037 | | 32.80 | |
| CLIENT SAMPLE | | | | | | | | | | | | |
| DCR-VER-201 | 65306 | | 11.20 | | 54110 | | 21.02 | | 32647 | | 33.32 | |
| DCR-VER-25 | 47884 | | 11.18 | | 39748 | | 21.00 | | 23585 | | 33.30 | |
| DCR-VER-26 | 44990 | | 11.18 | | 38280 | | 21.00 | | 22757 | | 33.30 | |
| DCR-VER-27 | 67914 | | 11.20 | | 53014 | | 21.02 | | 33374 | | 33.32 | |
| DCR-VER-50 | 55158 | | 11.20 | | 45496 | | 21.02 | | 28224 | | 33.32 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS4 (NPT) = Naphthalene-D8 | ( 50-200) | -0.50 / +0.50 min |
| IS5 (PHN) = Phenanthrene-D10 | ( 50-200) | -0.50 / +0.50 min |
| IS6 (PRY) = Perylene-D12 | ( 50-200) | -0.50 / +0.50 min |

\# Column to be used to flag recovery values
* Values outside of contract required QC limits

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

000063

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Labsampid: A5C0001245

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Lab File ID (Standard): 23247X.MSQ Date Analyzed: 09/08/95

Instrument ID: I50X Time Analyzed: 15:03

| | IS1 (ANT) AREA | # | RT | # | IS2 (CRY) AREA | # | RT | # | IS3 (DCB) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 HOUR STD | 26456 | | 16.48 | | 36946 | | 29.23 | | 12824 | | 7.72 | |
| UPPER LIMIT | 52912 | | 16.98 | | 73892 | | 29.73 | | 25648 | | 8.22 | |
| LOWER LIMIT | 13228 | | 15.98 | | 18473 | | 28.73 | | 6412 | | 7.22 | |
| CLIENT SAMPLE | | | | | | | | | | | | |
| DCR-VER-28 | 33826 | | 16.48 | | 51347 | | 29.22 | | 14610 | | 7.73 | |
| DCR-VER-29 | 31600 | | 16.48 | | 47712 | | 29.22 | | 13742 | | 7.73 | |
| DCR-VER-30 | 31796 | | 16.48 | | 49642 | | 29.23 | | 14152 | | 7.75 | |
| DCR-VER-31 | 31492 | | 16.48 | | 50529 | | 29.22 | | 13670 | | 7.75 | |
| DCR-VER-32 | 29502 | | 16.48 | | 47041 | | 29.22 | | 11980 | | 7.73 | |
| DCR-VER-33 | 30510 | | 16.48 | | 48954 | | 29.23 | | 13560 | | 7.73 | |
| [illegible]VER-34 | 32588 | | 16.48 | | 51071 | | 29.23 | | 14492 | | 7.75 | |
| D[illegible]-VER-35 | 30426 | | 16.48 | | 46942 | | 29.23 | | 13368 | | 7.75 | |
| DCR-VER-36 | 29530 | | 16.48 | | 44629 | | 29.23 | | 12602 | | 7.73 | |
| DCR-VER-48 | 33468 | | 16.48 | | 43718 | | 29.22 | | 17126 | | 7.75 | |
| DCR-VER-49 | 38684 | | 16.48 | | 58880 | | 29.22 | | 17740 | | 7.75 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS1 (ANT) = Acenaphthene-D10 | ( 50-200) | -0.50 / +0.50 min |
| IS2 (CRY) = Chrysene-D12 | ( 50-200) | -0.50 / +0.50 min |
| IS3 (DCB) = 1,4-Dichlorobenzene-D4 | ( 50-200) | -0.50 / +0.50 min |

# Column to be used to flag recovery values
* Values outside of contract required QC limits

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

000064

Name: Recra Environmental, Inc. Contract: MQ772732MQ Labsampid: A5C0001245

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Lab File ID (Standard): 23247X.MSQ Date Analyzed: 09/08/95

Instrument ID: I50X Time Analyzed: 15:03

| | IS4 (NPT) AREA | # | RT | # | IS5(PHN) AREA | # | RT | # | IS6 (PRY) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 HOUR STD | 50506 | | 11.20 | | 36772 | | 21.03 | | 21069 | | 33.32 | |
| UPPER LIMIT | 101012 | | 11.70 | | 73544 | | 21.53 | | 42138 | | 33.82 | |
| LOWER LIMIT | 25253 | | 10.70 | | 18386 | | 20.53 | | 10535 | | 32.82 | |
| CLIENT SAMPLE | | | | | | | | | | | | |
| DCR-VER-28 | 57240 | | 11.20 | | 53078 | | 21.03 | | 35914 | | 33.33 | |
| DCR-VER-29 | 53848 | | 11.20 | | 48716 | | 21.03 | | 33530 | | 33.33 | |
| DCR-VER-30 | 57692 | | 11.20 | | 49354 | | 21.03 | | 34222 | | 33.33 | |
| DCR-VER-31 | 54086 | | 11.20 | | 49554 | | 21.03 | | 34577 | | 33.33 | |
| DCR-VER-32 | 48722 | | 11.20 | | 46598 | | 21.03 | | 33243 | | 33.33 | |
| DCR-VER-33 | 52582 | | 11.20 | | 47664 | | 21.03 | | 34522 | | 33.33 | |
| DCR-VER-34 | 56818 | | 11.22 | | 49353 | | 21.03 | | 35610 | | 33.35 | |
| DC ER-35 | 52472 | | 11.20 | | 46144 | | 21.03 | | 33252 | | 33.33 | |
| DC /ER-36 | 50546 | | 11.20 | | 45212 | | 21.03 | | 33118 | | 33.33 | |
| DCR-VER-48 | 62862 | | 11.20 | | 48344 | | 21.02 | | 28925 | | 33.32 | |
| DCR-VER-49 | 68236 | | 11.20 | | 59654 | | 21.03 | | 41978 | | 33.33 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS4 (NPT) = Naphthalene-D8 | ( 50-200) | -0.50 / +0.50 min |
| IS5 (PHN) = Phenanthrene-D10 | ( 50-200) | -0.50 / +0.50 min |
| IS6 (PRY) = Perylene-D12 | ( 50-200) | -0.50 / +0.50 min |

# Column to be used to flag recovery values
* Values outside of contract required QC limits

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

000065

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Labsampid: A5C0001246

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Lab File ID (Standard): 23262X.MSQ Date Analyzed: 09/09/95

Instrument ID: I50X Time Analyzed: 08:52

| | IS1 (ANT) AREA | # | RT | # | IS2 (CRY) AREA | # | RT | # | IS3 (DCB) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 HOUR STD | 21808 | | 16.38 | | 25562 | | 29.12 | | 12218 | | 7.63 | |
| UPPER LIMIT | 43616 | | 16.88 | | 51124 | | 29.62 | | 24436 | | 8.13 | |
| LOWER LIMIT | 10904 | | 15.88 | | 12781 | | 28.62 | | 6109 | | 7.13 | |
| CLIENT SAMPLE | | | | | | | | | | | | |
| DCR-VER-23 | 36544 | | 16.37 | | 50775 | | 29.10 | | 17208 | | 7.65 | |
| DCR-VER-23 MS | 33282 | | 16.38 | | 44913 | | 29.12 | | 14934 | | 7.67 | |
| DCR-VER-23 MSD | 33142 | | 16.38 | | 45330 | | 29.12 | | 14002 | | 7.67 | |
| DCR-VER-24 | 27756 | | 16.37 | | 39897 | | 29.10 | | 12974 | | 7.65 | |
| Matrix Spike Blank | 23986 | | 16.38 | | 31042 | | 29.10 | | 11736 | | 7.67 | |
| SBLK87 | 24264 | | 16.37 | | 32468 | | 29.10 | | 11880 | | 7.65 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS1 (ANT) = Acenaphthene-D10 | ( 50-200) | -0.50 / +0.50 min |
| IS2 (CRY) = Chrysene-D12 | ( 50-200) | -0.50 / +0.50 min |
| IS3 (DCB) = 1,4-Dichlorobenzene-D4 | ( 50-200) | -0.50 / +0.50 min |

# Column to be used to flag recovery values
* Values outside of contract required QC limits

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

000066

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Labsampid: A5C0001246

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Lab File ID (Standard): 23262X.MSQ Date Analyzed: 09/09/95

Instrument ID: I50X Time Analyzed: 08:52

| | IS4 (NPT) AREA | # | RT | # | IS5(PHN) AREA | # | RT | # | IS6 (PRY) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 HOUR STD | 44324 | | 11.12 | | 27726 | | 20.92 | | 14667 | | 33.20 | |
| UPPER LIMIT | 88648 | | 11.62 | | 55452 | | 21.42 | | 29334 | | 33.70 | |
| LOWER LIMIT | 22162 | | 10.62 | | 13863 | | 20.42 | | 7334 | | 32.70 | |
| CLIENT SAMPLE | | | | | | | | | | | | |
| DCR-VER-23 | 65170 | | 11.10 | | 51843 | | 20.92 | | 34840 | * | 33.22 | |
| DCR-VER-23 MS | 59880 | | 11.12 | | 46630 | | 20.93 | | 33091 | * | 33.22 | |
| DCR-VER-23 MSD | 63170 | | 11.12 | | 46114 | | 20.93 | | 32365 | * | 33.23 | |
| DCR-VER-24 | 51988 | | 11.10 | | 40880 | | 20.92 | | 28437 | | 33.22 | |
| Matrix Spike Blank | 47056 | | 11.12 | | 34190 | | 20.92 | | 22472 | | 33.20 | |
| SBLK87 | 44530 | | 11.10 | | 33822 | | 20.92 | | 22746 | | 33.20 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS4 (NPT) = Naphthalene-D8 | ( 50-200) | -0.50 / +0.50 min |
| IS5 (PHN) = Phenanthrene-D10 | ( 50-200) | -0.50 / +0.50 min |
| IS6 (PRY) = Perylene-D12 | ( 50-200) | -0.50 / +0.50 min |

\# Column to be used to flag recovery values
* Values outside of contract required QC limits

# Sample ID Nos.:

Lab Report Dated:

September 29, 1995

DCR-VER-37
DCR-VER-38
DCR-VER-39
DCR-VER-40
DCR-VER-41
DCR-VER-42
DCR-VER-43
DCR-VER-44

**RECRA ENVIRONMENTAL INC.**

*Chemical and Environmental Analysis Services*

CAMP DRESSER & MCKEE

95 DCR 1115 FT

September 29, 1995

Mr. Joseph Mihm
Camp, Dresser and McKee / Alcoa
Park Avenue East, Building 65
Massena, NY 13665

RE: **Analytical Results**

Dear Mr. Mihm:

Please find enclosed the data package concerning the analyses of samples recently submitted by your firm. The pertinent information regarding these analyses is listed below:

| | |
|---|---|
| Quote No.: | NY95-438 |
| REI: | 19 |
| SDG #: | VER37 |
| Matrix: | Soil |
| Sample Receipt Date: | 09/02/95 |
| Sample Date: | 09/01/95 |

If you have any questions concerning these data, please contact Ms. Deborah A. Carella, Program Manager, at (800) 52R-ECRA and refer to the I.D. number listed below.

Sincerely,

RECRA ENVIRONMENTAL, INC.

KE Kasperek

Kenneth E. Kasperek
Laboratory Manager

DAC/KEK/dms
Enclosure
cc: Frances Gero (cover letter only)
Aluminum Company of America
Mr. Bernard Kunkle (cover letter only)
Aluminum Company of America
Park Avenue East, BLDG. 65
Massena, NY 13665

Reviewed and approved by/date: 9/29/95

D. Carella

Deborah A. Carella, Program Manager KEK for

ID #A95-4686
#NY5A5754

Mihm } LTR
Schultz }

Occhialini } Sum
Anderson }

SAMPLE DATA SUMMARY PACKAGE

RECRA
ENVIRONMENTAL
INC.

SDG NARRATIVE:

Laboratory: Recra Environmental, Inc.

Laboratory Code: RECNY

Contract No.: NY95-438

SDG No.: VER37

Sample Identifications:
DCR-VER-37
DCR-VER-37 MATRIX SPIKE
DCR-VER-37 MATRIX SPIKE DUPLICATE
DCR-VER-38
DCR-VER-39
DCR-VER-40
DCR-VER-41
DCR-VER-42
DCR-VER-43
DCR-VER-44

METHODOLOGY

Analyses were performed in accordance with 1991 New York State Analytical Services protocol. (Revised 1993)

COMMENTS

Results are reported using standard qualifiers (Q) as defined on the Organic Data Comment Page.

Preliminary results were sent on September 11, 1995 via Airborne to Ms. Julie Schreiber of Camp, Dresser and McKee by Ms. Deborah Carella of Recra Environmental.

SEMIVOLATILE DATA

Semivolatile sample and standard areas are listed on the corresponding data system printouts.

Semivolatile data was processed utilizing Finnigan Autoquantitation and Recra Environmental's Inc.'s Analytical Information Management Systems (AIMS). All compounds determined to be present by the computer-generated autoquantitation were subjected to a manual ion search for secondary and tertiary ions. False positive compounds are crossed out, initialed and dated in this data package.

No deviations from protocol were observed during the analyses.

PCB DATA

The Endrin percent breakdown and combined percent breakdown are above QC limits on the DB608 column in: PEM10 analyzed on 8/31/95 at 02:15; PEM11 analyzed on 9/6/95 at 14:08; PEM12 analyzed on 9/7/95 at 04:40; PEM13 analyzed on 9/8/95 at 03:49; PEM14 analyzed on 9/9/95 at 01:37; PEM15 analyzed on 9/10/95 at 01:36; PEM16 analyzed on 9/10/95 at 23:23.

The relative percent difference of Methoxychlor fell outside QC limits on the DB608 column in: PEM11 analyzed on 9/6/95 at 14:08; PEM12 analyzed on 9/7/95 at 04:40; PEM13 analyzed on 9/8/95 at 03:49; PEM14 analyzed on 9/9/95 at 01:37; PEM15 analyzed on 9/10/95 at 01:36; PEM16 analyzed on 9/10/95 at 23:23.

The relative percent difference of Endrin fell outside QC limits on the DB608 column in: PEM16 analyzed on 9/10/95 at 23:23.

The relative percent difference of 4,4'DDT fell outside QC limits on the DB608 column in: PEM16 analyzed on 9/10/95 at 23:23.

The relative percent difference of Methoxychlor fell outside QC limits on the DB1701 column in: PEM10 analyzed on 8/31/95 at 02:15; PEM11 analyzed on 9/6/95 at 14:08; PEM12 analyzed on 9/7/95 at 04:40; PEM13 analyzed on 9/8/95 at 03:49; PEM14 analyzed on 9/9/95 at 01:37; PEM15 analyzed on 9/10/95 at 01:36; PEM16 analyzed on 9/10/95 at 23:23.

The relative percent difference of Endrin fell outside QC limits on the DB1701 column in: PEM15 analyzed on 9/10/95 at 01:36; PEM16 analyzed on 9/10/95 at 23:23.

The Endrin percent breakdown and combined percent breakdown are above QC limits on the DB1701 column in: PEM11 analyzed on 9/6/95 at 14:08; PEM15 analyzed on 9/10/95 at 01:36; PEM16 analyzed on 9/10/95 at 23:23.

The combined percent breakdown are above QC limits on the DB1701 column in: PEM16 analyzed on 9/10/95 at 23:23.

The relative percent difference of Methoxychlor fell outside QC limits on the DB608 column in: INDAM08 analyzed on 8/31/95 at 07:21; INDAM10 analyzed on 9/7/95 at 16:55. The relative percent difference of 4,4'-DDT and Methoxychlor fell outside QC limits on the DB608 column in: INDAM11 analyzed on 9/8/95 at 14:43. The relative percent difference of Endrin, 4,4'-DDT and Methoxychlor fell outside QC limits on the DB608 column in: INDAM12 analyzed on 9/10/95 at 12:28. INDAM13 analyzed on 9/11/95 at 11:01 exhibits the relative percent difference of Endrin, 4,4'-DDT and Methoxychlor as outside QC limits on column DB608.

The relative percent difference of Methoxychlor fell outside QC limits on the DB1701 column in: INDAM10 analyzed on 9/7/95 at 16:55. The relative percent difference of 4,4'-DDT and Methoxychlor fell outside QC limits on the DB608 column in: INDAM11 analyzed on 9/8/95 at 14:43 and INDAM12 analyzed on 9/10/95 at 12:28. INDAM13 analyzed on 9/11/95 at 11:01 exhibits the relative percent difference of Endrin, 4,4'-DDT and Methoxychlor as outside QC limits on column DB608.

The percent recovery of gamma-BHC(lindane) and Dieldrin fell outside QC limits for the Pest GPC calibration.

PIBLK23 and PIBLK25 both exhibited a retention time for Tetrachloro-m-Xylene that was outside QC limits on the DB608 column.

PIBLK16, DCR-VER-38 and DCR-VER-39 exhibited retention times for Tetrachloro-m-Xylene and Decachlorobiphenyl that was outside QC limits on the DB1701 column.

PIBLK22 analyzed on 9/7/95 at 03:57; PEM12 analyzed on 9/7/95 at 04:40; PEM13 analyzed on 9/8/95 at 03:49; PIBLK29 analyzed on 9/10/95 at 22:40; PEM16 analyzed on 9/10/95 at 23:23; DCR-VER-37 Matrix Spike Duplicate analyzed on 9/10/95 at 02:19, DCR-VER-43 analyzed on 09/10/95 at 08:06; DCR-VER-44 analyzed on 09/10/95 at 08:49 and Matrix Spike Blank 17 analyzed on 09/10/95 at 09:33 all exhibit the retention time of Decachlorobiphenyl outside QC limits on the DB1701 column.

"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 his designee, as verified by the following signature."

KE Kasperek

Kenneth E. Kasperek
Laboratory Director

9/29/95

Date

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION
AND
ANALYTICAL REQUEST SUMMARY

LAB NAME: RECRA ENVIRONMENTAL, INC.

| CUSTOMER SAMPLE ID | LABORATORY SAMPLE ID | ANALYTICAL REQUIREMENTS | | | | | |
|---|---|---|---|---|---|---|---|
| | | VOA GC/MS | BNA GC/MS | VOA GC | PEST PCB | METALS | WATER QUALITY |
| DCR-VER-37 | A5468601 | - | ASP91 | - | ASP91 | - | ASP91 |
| DCR-VER-38 | A5468602 | - | ASP91 | - | ASP91 | - | ASP91 |
| DCR-VER-39 | A5468603 | - | ASP91 | - | ASP91 | - | ASP91 |
| DCR-VER-40 | A5468604 | - | ASP91 | - | ASP91 | - | ASP91 |
| DCR-VER-41 | A5468605 | - | ASP91 | - | ASP91 | - | ASP91 |
| DCR-VER-42 | A5468606 | - | ASP91 | - | ASP91 | - | ASP91 |
| DCR-VER-43 | A5468607 | - | ASP91 | - | ASP91 | - | ASP91 |
| DCR-VER-44 | A5468608 | - | ASP91 | - | ASP91 | - | ASP91 |

NYSDEC-1

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
B\N-A ANALYSIS

LAB NAME: RECRA ENVIRONMENTAL, INC.

| SAMPLE IDENTIFICATION | MATRIX | DATE COLLECTED | DATE RECEIVED AT LAB | DATE EXTRACTED | DATE ANALYZED |
|---|---|---|---|---|---|
| DCR-VER-37 | SOIL | 09/01/95 | 09/02/95 | 09/06/95 | 09/10/95 |
| DCR-VER-38 | SOIL | 09/01/95 | 09/02/95 | 09/06/95 | 09/10/95 |
| DCR-VER-39 | SOIL | 09/01/95 | 09/02/95 | 09/06/95 | 09/10/95 |
| DCR-VER-40 | SOIL | 09/01/95 | 09/02/95 | 09/06/95 | 09/11/95 |
| DCR-VER-41 | SOIL | 09/01/95 | 09/02/95 | 09/06/95 | 09/11/95 |
| DCR-VER-42 | SOIL | 09/01/95 | 09/02/95 | 09/06/95 | 09/11/95 |
| DCR-VER-43 | SOIL | 09/01/95 | 09/02/95 | 09/06/95 | 09/11/95 |
| DCR-VER-44 | SOIL | 09/01/95 | 09/02/95 | 09/06/95 | 09/11/95 |

NYSDEC-3

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
PESTICIDE/PCB ANALYSIS

LAB NAME: RECRA ENVIRONMENTAL, INC.

| SAMPLE IDENTIFICATION | MATRIX | DATE COLLECTED | DATE RECEIVED AT LAB | DATE EXTRACTED | DATE ANALYZED |
|---|---|---|---|---|---|
| DCR-VER-37 | SOIL | 09/01/95 | 09/02/95 | 09/06/95 | 09/10/95 |
| DCR-VER-38 | SOIL | 09/01/95 | 09/02/95 | 09/06/95 | 09/10/95 |
| DCR-VER-39 | SOIL | 09/01/95 | 09/02/95 | 09/06/95 | 09/10/95 |
| DCR-VER-40 | SOIL | 09/01/95 | 09/02/95 | 09/06/95 | 09/10/95 |
| DCR-VER-41 | SOIL | 09/01/95 | 09/02/95 | 09/06/95 | 09/10/95 |
| DCR-VER-42 | SOIL | 09/01/95 | 09/02/95 | 09/06/95 | 09/10/95 |
| DCR-VER-43 | SOIL | 09/01/95 | 09/02/95 | 09/06/95 | 09/10/95 |
| DCR-VER-44 | SOIL | 09/01/95 | 09/02/95 | 09/06/95 | 09/10/95 |

NYSDEC-4

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
ORGANIC ANALYSIS

LAB NAME: RECRA ENVIRONMENTAL, INC.

| SAMPLE IDENTIFICATION | MATRIX | ANALYTICAL PROTOCOL | EXTRACTION METHOD | AUXILARY CLEAN UP | DIL/CONC FACTOR |
|---|---|---|---|---|---|
| DCR-VER-37 | SOIL | ASP91 | SONC | AS REQUIRED | AS REQUIRED |
| DCR-VER-38 | SOIL | ASP91 | SONC | AS REQUIRED | AS REQUIRED |
| DCR-VER-39 | SOIL | ASP91 | SONC | AS REQUIRED | AS REQUIRED |
| DCR-VER-40 | SOIL | ASP91 | SONC | AS REQUIRED | AS REQUIRED |
| DCR-VER-41 | SOIL | ASP91 | SONC | AS REQUIRED | AS REQUIRED |
| DCR-VER-42 | SOIL | ASP91 | SONC | AS REQUIRED | AS REQUIRED |
| DCR-VER-43 | SOIL | ASP91 | SONC | AS REQUIRED | AS REQUIRED |
| DCR-VER-44 | SOIL | ASP91 | SONC | AS REQUIRED | AS REQUIRED |

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSIS

LAB NAME: RECRA ENVIRONMENTAL, INC.

| LABORATORY SAMPLE CODE | MATRIX | ANALYTICAL PROTOCOL | DIGESTION PROCEDURE | MATRIX MODIFIER | DIL/CONC FACTOR |
|---|---|---|---|---|---|
| DCR-VER-37 | SOIL | ASP91 | ASP91 | AS REQUIRED | AS REQUIRED |
| DCR-VER-38 | SOIL | ASP91 | ASP91 | AS REQUIRED | AS REQUIRED |
| DCR-VER-39 | SOIL | ASP91 | ASP91 | AS REQUIRED | AS REQUIRED |
| DCR-VER-40 | SOIL | ASP91 | ASP91 | AS REQUIRED | AS REQUIRED |
| DCR-VER-41 | SOIL | ASP91 | ASP91 | AS REQUIRED | AS REQUIRED |
| DCR-VER-42 | SOIL | ASP91 | ASP91 | AS REQUIRED | AS REQUIRED |
| DCR-VER-43 | SOIL | ASP91 | ASP91 | AS REQUIRED | AS REQUIRED |
| DCR-VER-44 | SOIL | ASP91 | ASP91 | AS REQUIRED | AS REQUIRED |

# ORGANIC DATA COMMENT PAGE

Laboratory Name RECRA ENVIRONMENTAL, INC.

USEPA Defined Organic Data Qualifiers:

U - Indicates compound was analyzed for but not detected.

J - Indicates an estimate value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.

C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

G - The TCLP Matrix Spike recovery was greater than the upper limit of the analytical method.

L - The TCLP Matrix Spike recovery was lower than the lower limit of the analytical method.

T - This flag is used when the analyte is found in the associated TCLP extraction as well as in the sample.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results.

P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a "P".

A - This flag indicates that a TIC is a suspected aldol-condensation product.

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
ANALYSIS DATA SHEET

C00011
Client No.

DCR-VER-37

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER37

Matrix: (soil/water) SOIL Lab Sample ID: A5468601

Sample wt/vol: 30.25 (g/mL) G Lab File ID: 23294X.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: 7.2 decanted: (Y/N) N Date Extracted: 09/06/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/10/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.4

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| [illegible]0-12-7 | ANTHRACENE | 300 | U |
| [illegible]-55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 300 | U |
| 50-32-8 | BENZO(A)PYRENE | 300 | U |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
ANALYSIS DATA SHEET

000012

Client No.

DCR-VER-38

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER37

Matrix: (soil/water) SOIL Lab Sample ID: A5468602

Sample wt/vol: 30.17 (g/mL) G Lab File ID: 23297X.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

Moisture: 7.7 decanted: (Y/N) N Date Extracted: 09/06/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/10/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.3

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

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| [illegible]-96-8 | ACENAPHTHYLENE | 300 | U |
| [illegible]-12-7 | ANTHRACENE | 300 | U |
| 56-55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 16 | J |
| 50-32-8 | BENZO(A)PYRENE | 300 | U |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | | |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
ANALYSIS DATA SHEET

**000013**

Client No.

DCR-VER-39

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER37

Matrix: (soil/water) SOIL Lab Sample ID: A5468603

Sample wt/vol: 30.68 (g/mL) G Lab File ID: 23298X.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: 7.1 decanted: (Y/N) N Date Extracted: 09/06/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/10/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.4

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| [illegible]-12-7 | ANTHRACENE | 300 | U |
| [illegible]-55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 300 | U |
| 50-32-8 | BENZO(A)PYRENE | 16 | J |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
ANALYSIS DATA SHEET

**000014**

Client No.

DCR-VER-40

ab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER37

atrix: (soil/water) SOIL Lab Sample ID: A5468604

Sample wt/vol: 30.54 (g/mL) G Lab File ID: 23299X.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

Moisture: 5.8 decanted: (Y/N) N Date Extracted: 09/06/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/11/95

njection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.3

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| 120-12-7 | ANTHRACENE | 300 | U |
| 56-55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 300 | U |
| 50-32-8 | BENZO(A)PYRENE | 16 | J |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
ANALYSIS DATA SHEET

**000015**

Client No.

DCR-VER-41

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER37

Matrix: (soil/water) SOIL Lab Sample ID: A5468605

Sample wt/vol: 30.13 (g/mL) G Lab File ID: 23300X.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: 8.3 decanted: (Y/N) N Date Extracted: 09/06/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/11/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.4

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| 120-12-7 | ANTHRACENE | 300 | U |
| 56-55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 300 | U |
| 50-32-8 | BENZO(A)PYRENE | 10 | J |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
SOIL MATRIX SPIKE BLANK RECOVERY

000029

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Lab Samp ID: A5B0589401

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER37

Matrix Spike - Client Sample No.: ~~SBLK88~~ MS BLANK Level: (low/med) LOW

MTA 9/29/95

| COMPOUND | SPIKE ADDED UG/KG | MSB CONCENTRATION UG/KG | MSB % REC # | QC LIMITS REC. |
|---|---|---|---|---|
| Acenaphthene | 1700 | 1500 | 88 | 31 - 137 |
| Pyrene | 1700 | 1700 | 100 | 35 - 142 |

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

* Values outside of QC limits

Spike recovery: 0 out of 2 outside limits

Comments: _____

_____

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
SOIL MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Lab Samp ID: A5468601

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER37

Matrix Spike - Client Sample No.: DCR-VER-37 Level: (low/med) LOW

| COMPOUND | SPIKE ADDED UG/KG | SAMPLE CONCENTRATION UG/KG | MS CONCENTRATION UG/KG | MS % REC # | QC LIMITS REC. |
|---|---|---|---|---|---|
| Acenaphthene | 1800 | 0 | 1400 | 78 | 31 - 137 |
| Pyrene | 1800 | 0 | 1600 | 89 | 35 - 142 |

| COMPOUND | SPIKE ADDED UG/KG | MSD CONCENTRATION UG/KG | MSD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| Acenaphthene | 1800 | 1300 | 72 | 8 | 19 | 31 - 137 |
| Pyrene | 1800 | 1400 | 78 | 13 | 36 | 35 - 142 |

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

* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike recovery: 0 out of 4 outside limits

Comments: _____

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
ANALYSIS DATA SHEET

**000016**

Client No.

DCR-VER-42

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER37

Matrix: (soil/water) SOIL Lab Sample ID: A5468606

Sample wt/vol: 30.33 (g/mL) G Lab File ID: 23301X.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: 6.5 decanted: (Y/N) N Date Extracted: 09/06/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/11/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.3

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| 120-12-7 | ANTHRACENE | 300 | U |
| 56-55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 300 | U |
| 50-32-8 | BENZO(A)PYRENE | 11 | J |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
ANALYSIS DATA SHEET

**000017**

Client No.

DCR-VER-43

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER37

Matrix: (soil/water) SOIL Lab Sample ID: A5468607

Sample wt/vol: 30.20 (g/mL) G Lab File ID: 23302X.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: 6.7 decanted: (Y/N) N Date Extracted: 09/06/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/11/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.4

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

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| 120-12-7 | ANTHRACENE | 300 | U |
| 56-55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 300 | U |
| 50-32-8 | BENZO(A)PYRENE | 13 | J |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
ANALYSIS DATA SHEET

000018

Client No.

DCR-VER-44

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER37

Matrix: (soil/water) SOIL Lab Sample ID: A5468608

Sample wt/vol: 30.09 (g/mL) G Lab File ID: 23303X.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

Moisture: 7.5 decanted: (Y/N) N Date Extracted: 09/06/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/11/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.4

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| -12-7 | ANTHRACENE | 300 | U |
| -55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 300 | U |
| 50-32-8 | BENZO(A)PYRENE | 12 | J |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
000019
DCRVER37

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER37

Matrix: (soil/water) SOIL Lab Sample ID: A5468601

Sample wt/vol: 30.3 (g/mL) G Lab File ID: _____

% Moisture: 7 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/06/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/10/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.4 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 35 | U |
| 11104-28-2 | Aroclor-1221 | 71 | U |
| 11141-16-5 | Aroclor-1232 | 35 | U |
| 53469-21-9 | Aroclor-1242 | 35 | U |
| 12672-29-6 | Aroclor-1248 | 7.0 | JP |
| 11097-69-1 | Aroclor-1254 | 35 | U |
| 11096-82-5 | Aroclor-1260 | 10 | JP |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000020

DCRVER38

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER37

Matrix: (soil/water) SOIL Lab Sample ID: A5468602

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 8 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/06/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/10/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.3 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 36 | U |
| 11104-28-2 | Aroclor-1221 | 73 | U |
| 11141-16-5 | Aroclor-1232 | 36 | U |
| 53469-21-9 | Aroclor-1242 | 36 | U |
| 12672-29-6 | Aroclor-1248 | 36 | U |
| 11097-69-1 | Aroclor-1254 | 36 | U |
| 11096-82-5 | Aroclor-1260 | 36 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DCRVER39

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER37

Matrix: (soil/water) SOIL Lab Sample ID: A5468603

Sample wt/vol: 30.2 (g/mL) G Lab File ID: _____

% Moisture: 7 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/06/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/10/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.4 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 35 | U |
| 11104-28-2 | Aroclor-1221 | 72 | U |
| 11141-16-5 | Aroclor-1232 | 35 | U |
| 53469-21-9 | Aroclor-1242 | 35 | U |
| 12672-29-6 | Aroclor-1248 | 35 | U |
| 11097-69-1 | Aroclor-1254 | 35 | U |
| 11096-82-5 | Aroclor-1260 | 8.3 | J |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DCRVER40

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER37

Matrix: (soil/water) SOIL Lab Sample ID: A5468604

Sample wt/vol: 30.2 (g/mL) G Lab File ID: _____

% Moisture: 6 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/06/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/10/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.3 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 35 | U |
| 11104-28-2 | Aroclor-1221 | 71 | U |
| 11141-16-5 | Aroclor-1232 | 35 | U |
| 53469-21-9 | Aroclor-1242 | 35 | U |
| 12672-29-6 | Aroclor-1248 | 35 | U |
| 11097-69-1 | Aroclor-1254 | 35 | U |
| 11096-82-5 | Aroclor-1260 | 4.9 | JP |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DCRVER41

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER37

Matrix: (soil/water) SOIL Lab Sample ID: A5468605

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 8 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/06/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/10/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.4 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 36 | U |
| 11104-28-2 | Aroclor-1221 | 73 | U |
| 11141-16-5 | Aroclor-1232 | 36 | U |
| 53469-21-9 | Aroclor-1242 | 36 | U |
| 12672-29-6 | Aroclor-1248 | 36 | U |
| 11097-69-1 | Aroclor-1254 | 36 | U |
| 11096-82-5 | Aroclor-1260 | 36 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DCRVER42

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER37

Matrix: (soil/water) SOIL Lab Sample ID: A5468606

Sample wt/vol: 30.8 (g/mL) G Lab File ID: _____

% Moisture: 7 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/06/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/10/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.3 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 35 | U |
| 11104-28-2 | Aroclor-1221 | 70 | U |
| 11141-16-5 | Aroclor-1232 | 35 | U |
| 53469-21-9 | Aroclor-1242 | 35 | U |
| 12672-29-6 | Aroclor-1248 | 35 | U |
| 11097-69-1 | Aroclor-1254 | 35 | U |
| 11096-82-5 | Aroclor-1260 | 15 | J |

1D

EPA SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS DATA SHEET

DCRVER43

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER37

Matrix: (soil/water) SOIL Lab Sample ID: A5468607

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 7 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/06/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/10/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.4 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 35 | U |
| 11104-28-2 | Aroclor-1221 | 72 | U |
| 11141-16-5 | Aroclor-1232 | 35 | U |
| 53469-21-9 | Aroclor-1242 | 35 | U |
| 12672-29-6 | Aroclor-1248 | 35 | U |
| 11097-69-1 | Aroclor-1254 | 35 | U |
| 11096-82-5 | Aroclor-1260 | 35 | U |

1D

EPA SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS DATA SHEET

DCRVER44

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER37

Matrix: (soil/water) SOIL Lab Sample ID: A5468608

Sample wt/vol: 30.4 (g/mL) G Lab File ID: _____

% Moisture: 7 decanted: (Y/N) N Date Received: 09/02/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/06/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/10/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.4 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 35 | U |
| 11104-28-2 | Aroclor-1221 | 71 | U |
| 11141-16-5 | Aroclor-1232 | 35 | U |
| 53469-21-9 | Aroclor-1242 | 35 | U |
| 12672-29-6 | Aroclor-1248 | 35 | U |
| 11097-69-1 | Aroclor-1254 | 35 | U |
| 11096-82-5 | Aroclor-1260 | 35 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
SOIL SURROGATE RECOVERY

000027

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER37

Level (low/med): LOW

| | Client Sample ID | 2CP %REC | # | 2FP %REC | # | DCB %REC | # | FBP %REC | # | NBZ %REC | # | PHL %REC | # | TBP %REC | # | TPH %REC | # | TOT OUT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | DCR-VER-37 | 61 | | 69 | | 55 | | 57 | | 59 | | 60 | | 76 | | 80 | | 0 |
| 2 | DCR-VER-37 MS | 91 | | 98 | | 76 | | 80 | | 80 | | 91 | | 111 | | 106 | | 0 |
| 3 | DCR-VER-37 MSD | 88 | | 96 | | 74 | | 73 | | 76 | | 89 | | 106 | | 95 | | 0 |
| 4 | DCR-VER-38 | 90 | | 99 | | 85 | | 78 | | 77 | | 93 | | 110 | | 107 | | 0 |
| 5 | DCR-VER-39 | 85 | | 85 | | 66 | | 76 | | 71 | | 88 | | 102 | | 99 | | 0 |
| 6 | DCR-VER-40 | 100 | | 103 | | 83 | | 88 | | 82 | | 97 | | 125 | * | 112 | | 1 |
| 7 | DCR-VER-41 | 86 | | 91 | | 70 | | 78 | | 73 | | 89 | | 113 | | 101 | | 0 |
| 8 | DCR-VER-42 | 104 | | 104 | | 89 | | 85 | | 88 | | 107 | | 132 | * | 120 | | 1 |
| 9 | DCR-VER-43 | 89 | | 95 | | 73 | | 81 | | 89 | | 95 | | 124 | * | 121 | | 1 |
| 10 | DCR-VER-44 | 94 | | 98 | | 73 | | 82 | | 86 | | 92 | | 122 | | 118 | | 0 |
| 11 | Matrix Spike Blank | 109 | | 111 | | 86 | | 92 | | 100 | | 106 | | 124 | * | 123 | | 1 |
| 12 | SBLK88 | 78 | | 83 | | 72 | | 78 | | 77 | | 77 | | 95 | | 100 | | 0 |

| | | | QC LIMITS |
|---|---|---|---|
| 2CP | = | 2-Chlorophenol-d4 | ( 20-130) |
| 2FP | = | 2-Fluorophenol | ( 25-121) |
| DCB | = | 1,2-Dichlorobenzene-d4 | ( 20-130) |
| FBP | = | 2-Fluorobiphenyl | ( 30-115) |
| NBZ | = | Nitrobenzene-D5 | ( 23-120) |
| PHL | = | Phenol-D5 | ( 24-113) |
| TBP | = | 2,4,6-Tribromophenol | ( 19-122) |
| TPH | = | Terphenyl-D14 | ( 18-137) |

\# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

2F

SOIL PESTICIDE SURROGATE RECOVERY

000028

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER37

GC Column(1): DB608 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

| | EPA SAMPLE NO. | TCX 1 %REC # | TCX 2 %REC # | DCB 1 %REC # | DCB 2 %REC # | OTHER (1) | OTHER (2) | TOT OUT |
|---|---|---|---|---|---|---|---|---|
| 01 | PBLK17 | 83 | 84 | 98 | 98 | | | 0 |
| 02 | DCRVER37 | 79 | 80 | 94 | 94 | | | 0 |
| 03 | DCRVER38 | 68 | 68 | 81 | 80 | | | 0 |
| 04 | DCRVER39 | 75 | 74 | 89 | 88 | | | 0 |
| 05 | DCRVER40 | 79 | 78 | 94 | 94 | | | 0 |
| 06 | DCRVER41 | 77 | 76 | 89 | 88 | | | 0 |
| 07 | DCRVER42 | 77 | 79 | 92 | 92 | | | 0 |
| 08 | DCRVER43 | 80 | 83 | 94 | 96 | | | 0 |
| 09 | DCRVER44 | 80 | 80 | 94 | 95 | | | 0 |
| 10 | MSB17 | 81 | 80 | 102 | 102 | | | 0 |
| 11 | DCRVER37MS | 76 | 76 | 93 | 93 | | | 0 |
| 12 | DCRVER37MSD | 78 | 77 | 92 | 92 | | | 0 |

ADVISORY QC LIMITS

TCX = Tetrachloro-m-xylene ( 60-150)

DCB = Decachlorobiphenyl ( 60-150)

# Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
SOIL MATRIX SPIKE BLANK RECOVERY

000029

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Lab Samp ID: A5B0589401

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER37

Matrix Spike - Client Sample No.: ~~SBLK88~~ MS BLANK Level: (low/med) LOW

MTA 5/29/95

| COMPOUND | SPIKE ADDED UG/KG | MSB CONCENTRATION UG/KG | MSB % REC # | QC LIMITS REC. |
|---|---|---|---|---|
| Acenaphthene | 1700 | 1500 | 88 | 31 - 137 |
| Pyrene | 1700 | 1700 | 100 | 35 - 142 |

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

* Values outside of QC limits

Spike recovery: 0 out of 2 outside limits

Comments: _____

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
SOIL MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Lab Samp ID: A5468601

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER37

Matrix Spike - Client Sample No.: DCR-VER-37 Level: (low/med) LOW

| COMPOUND | SPIKE ADDED UG/KG | SAMPLE CONCENTRATION UG/KG | MS CONCENTRATION UG/KG | MS % REC # | QC LIMITS REC. |
|---|---|---|---|---|---|
| Acenaphthene | 1800 | 0 | 1400 | 78 | 31 - 137 |
| Pyrene | 1800 | 0 | 1600 | 89 | 35 - 142 |

| COMPOUND | SPIKE ADDED UG/KG | MSD CONCENTRATION UG/KG | MSD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| Acenaphthene | 1800 | 1300 | 72 | 8 | 19 | 31 - 137 |
| Pyrene | 1800 | 1400 | 78 | 13 | 36 | 35 - 142 |

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

* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike recovery: 0 out of 4 outside limits

Comments: _____

3F

# SOIL PCB MSB RECOVERY

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix Spike - EPA Sample No.: MSB17

| COMPOUND | SPIKE ADDED (ug/Kg) | MSB CONCENTRATION (ug/Kg) | MSB % REC # |
|---|---|---|---|
| Aroclor 1242 | 333 | 290 | 87 |

COMMENTS:

3F

# SOIL PCB MS/MSD RECOVERY

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER23

Matrix Spike - EPA Sample No.: DCRVER37

| COMPOUND | SPIKE ADDED (ug/Kg) | SAMPLE CONCENTRATION (ug/Kg) | MS CONCENTRATION (ug/Kg) | MS % REC # |
|---|---|---|---|---|
| Aroclor 1242 | 355 | 0 | 300 | 85 |

| COMPOUND | SPIKE ADDED (ug/Kg) | MSD CONCENTRATION (ug/Kg) | MSD % REC # |
|---|---|---|---|
| Aroclor 1242 | 355 | 290 | 82 |

COMMENTS:

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
METHOD BLANK SUMMARY

Client No.: SBLK88

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER37

Lab File ID: 23293X.MSQ Lab Sample ID: A5B0589401

Instrument ID: I50X Date Extracted: 09/06/95

Matrix: (soil/water) SOIL Date Analyzed: 09/10/95

Level: (low/med) LOW Time Analyzed: 20:08

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

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|---|
| 1 | DCR-VER-37 | A5468601 | 23294X.MSQ | 09/10/95 |
| 2 | DCR-VER-37 MS | A5468601MS | 23295X.MSQ | 09/10/95 |
| 3 | DCR-VER-37 MSD | A5468601SD | 23296X.MSQ | 09/10/95 |
| 4 | DCR-VER-38 | A5468602 | 23297X.MSQ | 09/10/95 |
| 5 | DCR-VER-39 | A5468603 | 23298X.MSQ | 09/10/95 |
| 6 | DCR-VER-40 | A5468604 | 23299X.MSQ | 09/11/95 |
| 7 | DCR-VER-41 | A5468605 | 23300X.MSQ | 09/11/95 |
| 8 | DCR-VER-42 | A5468606 | 23301X.MSQ | 09/11/95 |
| 9 | DCR-VER-43 | A5468607 | 23302X.MSQ | 09/11/95 |
| 10 | DCR-VER-44 | A5468608 | 23303X.MSQ | 09/11/95 |
| 11 | Matrix Spike Blank | A5468609 | 23304X.MSQ | 09/11/95 |

Comments: _____

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
ANALYSIS DATA SHEET

**000034**

Client No.: SBLK88

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER37

Matrix: (soil/water) SOIL Lab Sample ID: A5B0589401

Sample wt/vol: 30.00 (g/mL) G Lab File ID: 23293X.MSQ

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/06/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/10/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| 120-12-7 | ANTHRACENE | 300 | U |
| 56-55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 300 | U |
| 50-32-8 | BENZO(A)PYRENE | 300 | U |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO. 000035

PBLK17

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER37

Lab Sample ID: A5B0589301 Lab File ID: _____

Matrix:(soil/water) SOIL Extraction:(SepF/Cont/Sonc) SONC

Sulfur Cleanup: (Y/N) N Date Extracted: 09/06/95

Date Analyzed (1): 09/10/95 Date Analyzed (2): 09/10/95

Time Analyzed (1): 1016 Time Analyzed (2): 1016

Instrument ID (1): 5890A9 Instrument ID (2): 5890B9

GC Column (1): DB608 ID: 0.53 (mm) GC Column (2): DB1701 ID: 0.53 (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 | DCRVER37 | A5468601 | 09/10/95 | 09/10/95 |
| 02 | DCRVER38 | A5468602 | 09/10/95 | 09/10/95 |
| 03 | DCRVER39 | A5468603 | 09/10/95 | 09/10/95 |
| 04 | DCRVER40 | A5468604 | 09/10/95 | 09/10/95 |
| 05 | DCRVER41 | A5468605 | 09/10/95 | 09/10/95 |
| 06 | DCRVER42 | A5468606 | 09/10/95 | 09/10/95 |
| 07 | DCRVER43 | A5468607 | 09/10/95 | 09/10/95 |
| 08 | DCRVER44 | A5468608 | 09/10/95 | 09/10/95 |
| 09 | MSB17 | A5468609 | 09/10/95 | 09/10/95 |
| 10 | DCRVER37MS | A5468601MS | 09/10/95 | 09/10/95 |
| 11 | DCRVER37MSD | A5468601SD | 09/10/95 | 09/10/95 |

COMMENTS:

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK17

ab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER37

Matrix: (soil/water) SOIL Lab Sample ID: A5B0589301

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/06/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/10/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 33 | U |
| 11104-28-2 | Aroclor-1221 | 67 | U |
| 11141-16-5 | Aroclor-1232 | 33 | U |
| 53469-21-9 | Aroclor-1242 | 33 | U |
| 12672-29-6 | Aroclor-1248 | 33 | U |
| 11097-69-1 | Aroclor-1254 | 33 | U |
| 11096-82-5 | Aroclor-1260 | 33 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

**000037**

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Labsampid: A5C0001252

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER37

Lab File ID (Standard): 23292X.MSQ Date Analyzed: 09/10/95

Instrument ID: I50X Time Analyzed: 19:27

| | | IS1 (ANT) AREA | # | RT | # | IS2 (CRY) AREA | # | RT | # | IS3 (DCB) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 24782 | | 16.23 | | 32918 | | 28.95 | | 13654 | | 7.52 | |
| | UPPER LIMIT | 49564 | | 16.73 | | 65836 | | 29.45 | | 27308 | | 8.02 | |
| | LOWER LIMIT | 12391 | | 15.73 | | 16459 | | 28.45 | | 6827 | | 7.02 | |
| | CLIENT SAMPLE | | | | | | | | | | | | |
| 1 | DCR-VER-37 | 24552 | | 16.22 | | 32705 | | 28.92 | | 11536 | | 7.52 | |
| 2 | DCR-VER-37 MS | 22172 | | 16.23 | | 32223 | | 28.93 | | 10164 | | 7.53 | |
| 3 | DCR-VER-37 MSD | 23388 | | 16.23 | | 35796 | | 28.93 | | 10186 | | 7.53 | |
| 4 | DCR-VER-38 | 21736 | | 16.22 | | 33180 | | 28.92 | | 9160 | | 7.52 | |
| 5 | DCR-VER-39 | 23812 | | 16.22 | | 34237 | | 28.93 | | 10940 | | 7.53 | |
| 6 | DCR-VER-40 | 21452 | | 16.22 | | 31134 | | 28.93 | | 9542 | | 7.53 | |
| 7 | DCR-VER-41 | 20826 | | 16.22 | | 31194 | | 28.93 | | 9360 | | 7.53 | |
| 8 | DCR-VER-42 | 21492 | | 16.22 | | 32080 | | 28.93 | | 9428 | | 7.53 | |
| 9 | DCR-VER-43 | 24290 | | 16.22 | | 35028 | | 28.93 | | 11346 | | 7.53 | |
| 10 | DCR-VER-44 | 23450 | | 16.22 | | 35458 | | 28.93 | | 11662 | | 7.53 | |
| 11 | Matrix Spike Blank | 22638 | | 16.23 | | 31702 | | 28.93 | | 10380 | | 7.55 | |
| 12 | SBLK88 | 27870 | | 16.22 | | 35878 | | 28.92 | | 14416 | | 7.53 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS1 (ANT) = Acenaphthene-D10 | ( 50-200) | -0.50 / +0.50 min |
| IS2 (CRY) = Chrysene-D12 | ( 50-200) | -0.50 / +0.50 min |
| IS3 (DCB) = 1,4-Dichlorobenzene-D4 | ( 50-200) | -0.50 / +0.50 min |

\# Column to be used to flag recovery values
* Values outside of contract required QC limits

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Labsampid: A5C0001252

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER37

Lab File ID (Standard): 23292X.MSQ Date Analyzed: 09/10/95

Instrument ID: I50X Time Analyzed: 19:27

| | | IS4 (NPT) AREA | # | RT | # | IS5(PHN) AREA | # | RT | # | IS6 (PRY) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 49180 | | 10.98 | | 30836 | | 20.77 | | 19772 | | 33.03 | |
| | UPPER LIMIT | 98360 | | 11.48 | | 61672 | | 21.27 | | 39544 | | 33.53 | |
| | LOWER LIMIT | 24590 | | 10.48 | | 15418 | | 20.27 | | 9886 | | 32.53 | |
| | CLIENT SAMPLE | | | | | | | | | | | | |
| 1 | DCR-VER-37 | 43878 | | 10.97 | | 33910 | | 20.75 | | 21676 | | 33.02 | |
| 2 | DCR-VER-37 MS | 41964 | | 10.97 | | 32236 | | 20.77 | | 21749 | | 33.02 | |
| 3 | DCR-VER-37 MSD | 43512 | | 10.97 | | 34806 | | 20.77 | | 24353 | | 33.03 | |
| 4 | DCR-VER-38 | 40922 | | 10.97 | | 32156 | | 20.75 | | 22524 | | 33.02 | |
| 5 | DCR-VER-39 | 44768 | | 10.97 | | 34312 | | 20.75 | | 24008 | | 33.03 | |
| 6 | DCR-VER-40 | 41386 | | 10.97 | | 32088 | | 20.75 | | 22410 | | 33.02 | |
| | DCR-VER-41 | 40912 | | 10.97 | | 31112 | | 20.75 | | 22688 | | 33.02 | |
| 8 | DCR-VER-42 | 42504 | | 10.97 | | 31570 | | 20.75 | | 22800 | | 33.03 | |
| 9 | DCR-VER-43 | 44750 | | 10.97 | | 35251 | | 20.75 | | 24523 | | 33.03 | |
| 10 | DCR-VER-44 | 46066 | | 10.97 | | 35168 | | 20.77 | | 24341 | | 33.03 | |
| 11 | Matrix Spike Blank | 44624 | | 10.98 | | 30764 | | 20.77 | | 22137 | | 33.03 | |
| 12 | SBLK88 | 53180 | | 10.97 | | 37484 | | 20.75 | | 25719 | | 33.02 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS4 (NPT) = Naphthalene-D8 | ( 50-200) | -0.50 / +0.50 min |
| IS5 (PHN) = Phenanthrene-D10 | ( 50-200) | -0.50 / +0.50 min |
| IS6 (PRY) = Perylene-D12 | ( 50-200) | -0.50 / +0.50 min |

\# Column to be used to flag recovery values
* Values outside of contract required QC limits

# Sample ID Nos.:

Lab Report Dated:

October 2, 1995

DCR-VER-02
DCR-VER-03
DCR-VER-04
DCR-VER-06
DCR-VER-07
DCR-VER-12
DCR-VER-13
DCR-VER-14
DCR-VER-17
DCR-VER-18
DCR-VER-19
DCR-VER-20
DCR-VER-21
DCR-VER-22
DCR-VER-23
DCR-VER-24
DCR-VER-25
DCR-VER-200
MW-546-01
MW-546-05

**RECRA ENVIRONMENTAL INC.**

*Chemical and Environmental Analysis Services*

OCT 5

95 DUR 10.3 FE

October 2, 1995

Mr. Joseph Mihm
Camp, Dresser and McKee / Alcoa
Park Avenue East, Building 65
Massena, NY 13665

RE: **Analytical Results**

Dear Mr. Mihm:

Please find enclosed the data package concerning the analyses of samples recently submitted by your firm. The pertinent information regarding these analyses is listed below:

Quote No.: NY95-438
REI: 19
SDG #: VER02C
Matrix: Soil & Water
Sample Receipt Date: 09/02/95
Sample Date: 09/01/95

If you have any questions concerning these data, please contact Ms. Deborah A. Carella, Program Manager, at (800) 52R-ECRA and refer to the I.D. number listed below.

Sincerely,

RECRA ENVIRONMENTAL, INC.

Kenneth E. Kasperek for K.E.K.
Laboratory Manager

DAC/KEK/dms
Enclosure
cc: Frances Gero (cover letter only)
Aluminum Company of America
Mr. Bernard Kunkle (cover letter only)
Aluminum Company of America
Park Avenue East, BLDG. 65
Massena, NY 13665

Reviewed and approved by/date: 10/2/95

Deborah A. Carella/dms
Deborah A. Carella, Program Manager

ID #A95-4681
#NY5A5754

Mihm, Schultz } LTR

Schneider } summary
Occhialini

SAMPLE DATA SUMMARY PACKAGE

RECRA
ENVIRONMENTAL
INC.

SDG NARRATIVE:

Laboratory: Recra Environmental, Inc.

Laboratory Code: RECNY

Contract No.: NY95-438

SDG No.: VER02C

Sample Identifications:

DCR-VER-02
DCR-VER-02 MATRIX SPIKE
DCR-VER-02 MATRIX SPIKE DUPLICATE
DCR-VER-03
DCR-VER-04
DCR-VER-06
DCR-VER-07
DCR-VER-12
DCR-VER-13
DCR-VER-14
DCR-VER-17
DCR-VER-18
DCR-VER-19
DCR-VER-20
DCR-VER-200
DCR-VER-21
DCR-VER-22
DCR-VER-23
DCR-VER-24
DCR-VER-25
MW-546-01
MW-546-05

METHODOLOGY

Analyses were performed in accordance with 1991 New York State Analytical Services protocol. (Revised 1993)

COMMENTS

Results are reported using standard qualifiers (Q) as defined on the Organic Data Comment Page.

Preliminary results were sent on September 7, 1995 via facsimile to Ms. Julie Schreiber of Camp, Dresser and McKee by Ms. Deborah Carella of Recra Environmental.

Quality Control analysis was performed on a batch basis for water samples. All results were within acceptable limits.

The PAH and PCB data for these samples are submitted under a separate SDG number.

VOLATILE DATA

Volatile sample and standard areas are listed on the corresponding data system printouts.

Volatile data was processed utilizing Finnigan DataPro Autoquantitation and Recra Environmental's Inc.'s Analytical Information Management Systems (AIMS). All compounds determined to be present by the computer-generated autoquantitation were subjected to a manual ion search for secondary and tertiary ions. False positive compounds are crossed out, initialed and dated in this data package.

Ortho-Xylene and meta & para-Xylene elute separately on a capillary column. They are reported in this data package as Total Xylenes. The concentration is calculated by adding the areas of ortho-Xylene and meta & para-Xylene and using only the response factor form ortho-Xylene to calculate the nanogram amount.

Sample DCR-VER-02 required a medium level analysis due to the high concentrations of Acetone, 2-Butanone and Trichloroethene.

Samples DCR-VER-02, DCR-VER-02MS and DCR-VER-02MSD all exhibit the recovery of surrogate p-Bromofluorobenzene as outside QC limits.

Samples DCR-VER-02MS and DCR-VER-02MSD exhibit the spike recovery and relative percent difference of Trichloroethene as outside QC limits. Samples DCR-VER-02MSDL and DCR-VER-02MSDDL exhibit the spike recovery of Trichloroethene as outside QC limits. The percent recovery of Trichloroethene is affected by the high concentration of this compound present in sample DCR-VER-02.

Samples DCR-VER-02 and DCR-VER-02MS both exhibit the recovery for internal standard Chlorobenzene-d5 as outside QC limits.

Samples MW-546-01 and MW-546-05 both exhibit a pH of approximately 6-8.

Volatile Method Blank, VBLK20, exhibits the presence of one (1) Tentatively Identified Compound (TIC).

"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 his designee, as verified by the following signature."

for K.E.K.

Kenneth E. Kasperek
Laboratory Director

10/2/95
Date

RECRA ENVIRONMENTAL INC.

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION
AND
ANALYTICAL REQUEST SUMMARY

LAB NAME: RECRA ENVIRONMENTAL, INC.

| CUSTOMER SAMPLE ID | LABORATORY SAMPLE ID | ANALYTICAL REQUIREMENTS | | | | | |
|---|---|---|---|---|---|---|---|
| | | VOA GC/MS | BNA GC/MS | VOA GC | PEST PCB | METALS | OTHER |
| DCR-VER-02 | A5468101 | ASP91 | - | - | - | - | - |
| DCR-VER-03 | A5468102 | ASP91 | - | - | - | - | - |
| DCR-VER-04 | A5468103 | ASP91 | - | - | - | - | - |
| DCR-VER-06 | A5468104 | ASP91 | - | - | - | - | - |
| DCR-VER-07 | A5468105 | ASP91 | - | - | - | - | - |
| DCR-VER-12 | A5468106 | ASP91 | - | - | - | - | - |
| DCR-VER-13 | A5468107 | ASP91 | - | - | - | - | - |
| DCR-VER-14 | A5468108 | ASP91 | - | - | - | - | - |
| DCR-VER-17 | A5468109 | ASP91 | - | - | - | - | - |
| DCR-VER-18 | A5468113 | ASP91 | - | - | - | - | - |
| DCR-VER-19 | A5468114 | ASP91 | - | - | - | - | - |
| DCR-VER-20 | A5468115 | ASP91 | - | - | - | - | - |
| DCR-VER-200 | A5468110 | ASP91 | - | - | - | - | - |
| DCR-VER-21 | A5468116 | ASP91 | - | - | - | - | - |
| DCR-VER-22 | A5468117 | ASP91 | - | - | - | - | - |
| DCR-VER-23 | A5468118 | ASP91 | - | - | - | - | - |
| DCR-VER-24 | A5468119 | ASP91 | - | - | - | - | - |
| DCR-VER-25 | A5468120 | ASP91 | - | - | - | - | - |
| MW-546-01 | A5468111 | ASP91 | - | - | - | - | - |
| MW-546-05 | A5468112 | ASP91 | - | - | - | - | - |

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOLATILE ANALYSIS

LAB NAME: RECRA ENVIRONMENTAL, INC.

| SAMPLE IDENTIFICATION | MATRIX | DATE COLLECTED | DATE RECEIVED AT LAB | DATE EXTRACTED | DATE ANALYZED |
|---|---|---|---|---|---|
| DCR-VER-02 | SOIL | 09/01/95 | 09/02/95 | - | 09/06/95 |
| DCR-VER-03 | SOIL | 09/01/95 | 09/02/95 | - | 09/06/95 |
| DCR-VER-04 | SOIL | 09/01/95 | 09/02/95 | - | 09/06/95 |
| DCR-VER-06 | SOIL | 09/01/95 | 09/02/95 | - | 09/05/95 |
| DCR-VER-07 | SOIL | 09/01/95 | 09/02/95 | - | 09/05/95 |
| DCR-VER-12 | SOIL | 09/01/95 | 09/02/95 | - | 09/05/95 |
| DCR-VER-13 | SOIL | 09/01/95 | 09/02/95 | - | 09/06/95 |
| DCR-VER-14 | SOIL | 09/01/95 | 09/02/95 | - | 09/05/95 |
| DCR-VER-17 | SOIL | 09/01/95 | 09/02/95 | - | 09/05/95 |
| DCR-VER-18 | SOIL | 09/01/95 | 09/02/95 | - | 09/05/95 |
| DCR-VER-19 | SOIL | 09/01/95 | 09/02/95 | - | 09/05/95 |
| DCR-VER-20 | SOIL | 09/01/95 | 09/02/95 | - | 09/06/95 |
| DCR-VER-200 | SOIL | 09/01/95 | 09/02/95 | - | 09/05/95 |
| DCR-VER-21 | SOIL | 09/01/95 | 09/02/95 | - | 09/05/95 |
| DCR-VER-22 | SOIL | 09/01/95 | 09/02/95 | - | 09/05/95 |
| DCR-VER-23 | SOIL | 09/01/95 | 09/02/95 | - | 09/05/95 |
| DCR-VER-24 | SOIL | 09/01/95 | 09/02/95 | - | 09/05/95 |
| DCR-VER-25 | SOIL | 09/01/95 | 09/02/95 | - | 09/05/95 |
| MW-546-01 | WATER | 09/01/95 | 09/02/95 | - | 09/05/95 |
| MW-546-05 | WATER | 09/01/95 | 09/02/95 | - | 09/05/95 |

NYSDEC-2

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
ORGANIC ANALYSIS

LAB NAME: RECRA ENVIRONMENTAL, INC.

| SAMPLE IDENTIFICATION | MATRIX | ANALYTICAL PROTOCOL | EXTRACTION METHOD | AUXILARY CLEAN UP | DIL/CONC FACTOR |
|---|---|---|---|---|---|
| DCR-VER-02 | SOIL | ASP91 | - | AS REQUIRED | AS REQUIRED |
| DCR-VER-03 | SOIL | ASP91 | - | AS REQUIRED | AS REQUIRED |
| DCR-VER-04 | SOIL | ASP91 | - | AS REQUIRED | AS REQUIRED |
| DCR-VER-06 | SOIL | ASP91 | - | AS REQUIRED | AS REQUIRED |
| DCR-VER-07 | SOIL | ASP91 | - | AS REQUIRED | AS REQUIRED |
| DCR-VER-12 | SOIL | ASP91 | - | AS REQUIRED | AS REQUIRED |
| DCR-VER-13 | SOIL | ASP91 | - | AS REQUIRED | AS REQUIRED |
| DCR-VER-14 | SOIL | ASP91 | - | AS REQUIRED | AS REQUIRED |
| DCR-VER-17 | SOIL | ASP91 | - | AS REQUIRED | AS REQUIRED |
| DCR-VER-18 | SOIL | ASP91 | - | AS REQUIRED | AS REQUIRED |
| DCR-VER-19 | SOIL | ASP91 | - | AS REQUIRED | AS REQUIRED |
| DCR-VER-20 | SOIL | ASP91 | - | AS REQUIRED | AS REQUIRED |
| DCR-VER-200 | SOIL | ASP91 | - | AS REQUIRED | AS REQUIRED |
| DCR-VER-21 | SOIL | ASP91 | - | AS REQUIRED | AS REQUIRED |
| DCR-VER-22 | SOIL | ASP91 | - | AS REQUIRED | AS REQUIRED |
| DCR-VER-23 | SOIL | ASP91 | - | AS REQUIRED | AS REQUIRED |
| DCR-VER-24 | SOIL | ASP91 | - | AS REQUIRED | AS REQUIRED |
| DCR-VER-25 | SOIL | ASP91 | - | AS REQUIRED | AS REQUIRED |
| MW-546-01 | WATER | ASP91 | - | AS REQUIRED | AS REQUIRED |
| MW-546-05 | WATER | ASP91 | - | AS REQUIRED | AS REQUIRED |

# ORGANIC DATA COMMENT PAGE

Laboratory Name RECRA ENVIRONMENTAL, INC.

USEPA Defined Organic Data Qualifiers:

U - Indicates compound was analyzed for but not detected.

J - Indicates an estimate value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.

C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

G - The TCLP Matrix Spike recovery was greater than the upper limit of the analytical method.

L - The TCLP Matrix Spike recovery was lower than the lower limit of the analytical method.

T - This flag is used when the analyte is found in the associated TCLP extraction as well as in the sample.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results.

P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a "P".

A - This flag indicates that a TIC is a suspected aldol-condensation product.

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

**000008**

Client No.

DCR-VER-02

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

Matrix: (soil/water) SOIL Lab Sample ID: A5468101

Sample wt/vol: 5.03 (g/mL) G Lab File ID: H8053.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. 8.2 Heated Purge: Y Date Analyzed: 09/06/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 74-87-3 | CHLOROMETHANE | 11 | U |
| 74-83-9 | BROMOMETHANE | 11 | U |
| 75-01-4 | VINYL CHLORIDE | 11 | U |
| 75-00-3 | CHLOROETHANE | 11 | U |
| -09-2 | METHYLENE CHLORIDE | 11 | U |
| ,-64-1 | ACETONE | 820 | E |
| 75-15-0 | CARBON DISULFIDE | 11 | U |
| 75-35-4 | 1,1-DICHLOROETHENE | 11 | U |
| 75-34-3 | 1,1-DICHLOROETHANE | 12 | |
| 540-59-0 | 1,2-DICHLOROETHENE (TOTAL) | 11 | U |
| 67-66-3 | CHLOROFORM | 11 | U |
| 107-06-2 | 1,2-DICHLOROETHANE | 11 | U |
| 78-93-3 | 2-BUTANONE | 280 | E |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | 11 | U |
| 56-23-5 | CARBON TETRACHLORIDE | 11 | U |
| 75-27-4 | BROMODICHLOROMETHANE | 11 | U |
| 78-87-5 | 1,2-DICHLOROPROPANE | 11 | U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | 11 | U |
| 79-01-6 | TRICHLOROETHENE | 2900 | E |
| 124-48-1 | DIBROMOCHLOROMETHANE | 11 | U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | 17 | |
| 71-43-2 | BENZENE | 11 | U |
| 10061-02-6 | Trans-1,3-DICHLOROPROPENE | 11 | U |
| 75-25-2 | BROMOFORM | 11 | U |
| 108-10-1 | 4-METHYL-2-PENTANONE | 11 | U |
| 591-78-6 | 2-HEXANONE | 11 | U |
| 127-18-4 | TETRACHLOROETHENE | 4 | J |
| 108-88-3 | TOLUENE | 21 | |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 11 | U |
| 08-90-7 | CHLOROBENZENE | 11 | U |
| 0-41-4 | ETHYLBENZENE | 11 | U |
| 00-42-5 | STYRENE | 11 | U |
| 1330-20-7 | XYLENE (TOTAL) | 4 | J |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

**000009**

Client No.

DCR-VER-02

Lab Name: Recra Environmental  Contract: MQ772732MQ

Lab Code: RECNY  Case No.: 5324  SAS No.: _____  SDG No.: VER02C

Matrix: (soil/water) SOIL  Lab Sample ID: A5468101

Sample wt/vol: 5.03 (g/mL) G  Lab File ID: H8053.MSQ

Level: (low/med) LOW  Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. 8.2  Date Analyzed: 09/06/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.00

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

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

| | CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|---|
| 1. | | UNSATURATED HYDROCARBON | 18.70 | 330 | J |
| 2. | | SATURATED HYDROCARBON | 19.52 | 50 | J |
| 3. | | SATURATED HYDROCARBON | 19.98 | 28 | J |
| 4. | | TRIMETHYLBENZENE ISOMER | 20.05 | 24 | J |
| 5. | | UNSATURATED HYDROCARBON | 20.70 | 18 | J |
| 6. | | UNKNOWN | 21.00 | 71 | J |
| 7. | | UNSATURATED HYDROCARBON | 21.13 | 12 | J |
| 8. | | SATURATED HYDROCARBON | 21.35 | 63 | J |
| 9. | | UNSATURATED HYDROCARBON | 21.58 | 20 | J |
| 10. | | UNKNOWN | 23.00 | 28 | J |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

Client No.: DCR-VER-02 DL

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

Matrix: (soil/water) SOIL Lab Sample ID: A5468101DL

Sample wt/vol: 4.07 (g/mL) G Lab File ID: K9517.MSQ

Level: (low/med) MED Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. 8.2 Heated Purge: N Date Analyzed: 09/07/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100.00 (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 74-87-3 | CHLOROMETHANE | 1300 | U |
| 74-83-9 | BROMOMETHANE | 1300 | U |
| 75-01-4 | VINYL CHLORIDE | 1300 | U |
| 75-00-3 | CHLOROETHANE | 1300 | U |
| 75-09-2 | METHYLENE CHLORIDE | 1300 | U |
| 67-64-1 | ACETONE | 1300 | U |
| 75-15-0 | CARBON DISULFIDE | 1300 | U |
| 75-35-4 | 1,1-DICHLOROETHENE | 1300 | U |
| 75-34-3 | 1,1-DICHLOROETHANE | 1300 | U |
| 540-59-0 | 1,2-DICHLOROETHENE(TOTAL) | 1300 | U |
| 67-66-3 | CHLOROFORM | 1300 | U |
| 107-06-2 | 1,2-DICHLOROETHANE | 1300 | U |
| 78-93-3 | 2-BUTANONE | 1300 | U |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | 1300 | U |
| 56-23-5 | CARBON TETRACHLORIDE | 1300 | U |
| 75-27-4 | BROMODICHLOROMETHANE | 1300 | U |
| 78-87-5 | 1,2-DICHLOROPROPANE | 1300 | U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | 1300 | U |
| 79-01-6 | TRICHLOROETHENE | 20000 | D |
| 124-48-1 | DIBROMOCHLOROMETHANE | 1300 | U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | 1300 | U |
| 71-43-2 | BENZENE | 1300 | U |
| 10061-02-6 | Trans-1,3-DICHLOROPROPENE | 1300 | U |
| 75-25-2 | BROMOFORM | 1300 | U |
| 108-10-1 | 4-METHYL-2-PENTANONE | 1300 | U |
| 591-78-6 | 2-HEXANONE | 1300 | U |
| 127-18-4 | TETRACHLOROETHENE | 1300 | U |
| 108-88-3 | TOLUENE | 220 | DJ |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 1300 | U |
| 108-90-7 | CHLOROBENZENE | 1300 | U |
| 100-41-4 | ETHYLBENZENE | 1300 | U |
| 100-42-5 | STYRENE | 1300 | U |
| 1330-20-7 | XYLENE(TOTAL) | 1300 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.: DCR-VER-02 DL

Lab Name: Recra Environmental  Contract: MQ772732MQ

Lab Code: RECNY  Case No.: 5324  SAS No.: _____  SDG No.: VER02C

Matrix: (soil/water) SOIL  Lab Sample ID: A5468101DL

Sample wt/vol: 4.07 (g/mL) G  Lab File ID: K9517.MSQ

Level: (low/med) MED  Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. 8.2  Date Analyzed: 09/07/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.00

Soil Extract Volume: 10000 (uL)  Soil Aliquot Volume: 100.00 (uL)

Number TICs found: 4  CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 4.10 | 13000 | J |
| 2. | UNKNOWN | 4.30 | 17000 | J |
| 3. | UNKNOWN | 4.33 | 17000 | J |
| 4. | UNKNOWN | 4.48 | 8100 | J |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

**000012**

Client No.

DCR-VER-03

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

Matrix: (soil/water) SOIL Lab Sample ID: A5468102

Sample wt/vol: 5.03 (g/mL) G Lab File ID: H8062.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. 6.7 Heated Purge: Y Date Analyzed: 09/06/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

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

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 74-87-3 | CHLOROMETHANE | 11 | U |
| 74-83-9 | BROMOMETHANE | 11 | U |
| 75-01-4 | VINYL CHLORIDE | 11 | U |
| 75-00-3 | CHLOROETHANE | 11 | U |
| 75-09-2 | METHYLENE CHLORIDE | 11 | U |
| 67-64-1 | ACETONE | 11 | U |
| 75-15-0 | CARBON DISULFIDE | 11 | U |
| 75-35-4 | 1,1-DICHLOROETHENE | 11 | U |
| 75-34-3 | 1,1-DICHLOROETHANE | 11 | U |
| 540-59-0 | 1,2-DICHLOROETHENE(TOTAL) | 11 | U |
| 67-66-3 | CHLOROFORM | 11 | U |
| 107-06-2 | 1,2-DICHLOROETHANE | 11 | U |
| 78-93-3 | 2-BUTANONE | 11 | U |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | 11 | U |
| 56-23-5 | CARBON TETRACHLORIDE | 11 | U |
| 75-27-4 | BROMODICHLOROMETHANE | 11 | U |
| 78-87-5 | 1,2-DICHLOROPROPANE | 11 | U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | 11 | U |
| 79-01-6 | TRICHLOROETHENE | 32 | |
| 124-48-1 | DIBROMOCHLOROMETHANE | 11 | U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | 11 | U |
| 71-43-2 | BENZENE | 11 | U |
| 10061-02-6 | Trans-1,3-DICHLOROPROPENE | 11 | U |
| 75-25-2 | BROMOFORM | 11 | U |
| 108-10-1 | 4-METHYL-2-PENTANONE | 11 | U |
| 591-78-6 | 2-HEXANONE | 11 | U |
| 127-18-4 | TETRACHLOROETHENE | 11 | U |
| 108-88-3 | TOLUENE | 11 | U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 11 | U |
| 108-90-7 | CHLOROBENZENE | 11 | U |
| 100-41-4 | ETHYLBENZENE | 11 | U |
| 100-42-5 | STYRENE | 11 | U |
| 1330-20-7 | XYLENE(TOTAL) | 11 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.: DCR-VER-03

ab Name: Recra Environmental  Contract: MQ772732MQ

ab Code: RECNY  Case No.: 5324  SAS No.: _____  SDG No.: VER02C

atrix: (soil/water) SOIL  Lab Sample ID: A5468102

ample wt/vol: 5.03 (g/mL) G  Lab File ID: H8062.MSQ

Level: (low/med) LOW  Date Samp/Recv: 09/01/95 09/02/95

Moisture: not dec. 6.7  Date Analyzed: 09/06/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.00

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

umber TICs found: 1  CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 21.93 | 7 | BJ |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
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**000014**

Client No.

DCR-VER-04

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

Matrix: (soil/water) SOIL Lab Sample ID: A5468103

Sample wt/vol: 5.07 (g/mL) G Lab File ID: H8051.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

Moisture: not dec. 8.0 Heated Purge: Y Date Analyzed: 09/06/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

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

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 74-87-3 | CHLOROMETHANE | 11 | U |
| 74-83-9 | BROMOMETHANE | 11 | U |
| 75-01-4 | VINYL CHLORIDE | 11 | U |
| 75-00-3 | CHLOROETHANE | 11 | U |
| 09-2 | METHYLENE CHLORIDE | 11 | U |
| -64-1 | ACETONE | 11 | U |
| 75-15-0 | CARBON DISULFIDE | 11 | U |
| 75-35-4 | 1,1-DICHLOROETHENE | 11 | U |
| 75-34-3 | 1,1-DICHLOROETHANE | 11 | U |
| 540-59-0 | 1,2-DICHLOROETHENE(TOTAL) | 11 | U |
| 67-66-3 | CHLOROFORM | 11 | U |
| 107-06-2 | 1,2-DICHLOROETHANE | 11 | U |
| 78-93-3 | 2-BUTANONE | 11 | U |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | 11 | U |
| 56-23-5 | CARBON TETRACHLORIDE | 11 | U |
| 75-27-4 | BROMODICHLOROMETHANE | 11 | U |
| 78-87-5 | 1,2-DICHLOROPROPANE | 11 | U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | 11 | U |
| 79-01-6 | TRICHLOROETHENE | 14 | |
| 124-48-1 | DIBROMOCHLOROMETHANE | 11 | U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | 11 | U |
| 71-43-2 | BENZENE | 11 | U |
| 10061-02-6 | Trans-1,3-DICHLOROPROPENE | 11 | U |
| 75-25-2 | BROMOFORM | 11 | U |
| 108-10-1 | 4-METHYL-2-PENTANONE | 11 | U |
| 591-78-6 | 2-HEXANONE | 11 | U |
| 127-18-4 | TETRACHLOROETHENE | 11 | U |
| 108-88-3 | TOLUENE | 11 | U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 11 | U |
| 08-90-7 | CHLOROBENZENE | 11 | U |
| 0-41-4 | ETHYLBENZENE | 11 | U |
| 100-42-5 | STYRENE | 11 | U |
| 1330-20-7 | XYLENE(TOTAL) | 11 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.: DCR-VER-04

ab Name: Recra Environmental  Contract: MQ772732MQ

Lab Code: RECNY  Case No.: 5324  SAS No.: _____  SDG No.: VER02C

atrix: (soil/water) SOIL  Lab Sample ID: A5468103

ample wt/vol: 5.07 (g/mL) G  Lab File ID: H8051.MSQ

evel: (low/med) LOW  Date Samp/Recv: 09/01/95 09/02/95

Moisture: not dec. 8.0  Date Analyzed: 09/06/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.00

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

umber TICs found: 0  CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| | | | | |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

**000016**

Client No.

DCR-VER-06

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

Matrix: (soil/water) SOIL Lab Sample ID: A5468104

Sample wt/vol: 5.05 (g/mL) G Lab File ID: H8050.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. 9.9 Heated Purge: Y Date Analyzed: 09/05/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

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

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 74-87-3 | CHLOROMETHANE | 11 | U |
| 74-83-9 | BROMOMETHANE | 11 | U |
| 75-01-4 | VINYL CHLORIDE | 11 | U |
| 75-00-3 | CHLOROETHANE | 11 | U |
| 75-09-2 | METHYLENE CHLORIDE | 11 | U |
| 67-64-1 | ACETONE | 11 | U |
| 75-15-0 | CARBON DISULFIDE | 11 | U |
| 75-35-4 | 1,1-DICHLOROETHENE | 11 | U |
| 75-34-3 | 1,1-DICHLOROETHANE | 11 | U |
| 540-59-0 | 1,2-DICHLOROETHENE(TOTAL) | 11 | U |
| 67-66-3 | CHLOROFORM | 11 | U |
| 107-06-2 | 1,2-DICHLOROETHANE | 11 | U |
| 78-93-3 | 2-BUTANONE | 11 | U |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | 11 | U |
| 56-23-5 | CARBON TETRACHLORIDE | 11 | U |
| 75-27-4 | BROMODICHLOROMETHANE | 11 | U |
| 78-87-5 | 1,2-DICHLOROPROPANE | 11 | U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | 11 | U |
| 79-01-6 | TRICHLOROETHENE | 11 | U |
| 124-48-1 | DIBROMOCHLOROMETHANE | 11 | U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | 11 | U |
| 71-43-2 | BENZENE | 11 | U |
| 10061-02-6 | Trans-1,3-DICHLOROPROPENE | 11 | U |
| 75-25-2 | BROMOFORM | 11 | U |
| 108-10-1 | 4-METHYL-2-PENTANONE | 11 | U |
| 591-78-6 | 2-HEXANONE | 11 | U |
| 127-18-4 | TETRACHLOROETHENE | 11 | U |
| 108-88-3 | TOLUENE | 11 | U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 11 | U |
| 108-90-7 | CHLOROBENZENE | 11 | U |
| 100-41-4 | ETHYLBENZENE | 11 | U |
| 100-42-5 | STYRENE | 11 | U |
| 1330-20-7 | XYLENE(TOTAL) | 11 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

**000017**
Client No.

DCR-VER-06

ab Name: Recra Environmental  Contract: MQ772732MQ

Lab Code: RECNY  Case No.: 5324  SAS No.: _____  SDG No.: VER02C

atrix: (soil/water) SOIL  Lab Sample ID: A5468104

Sample wt/vol: 5.05 (g/mL) G  Lab File ID: H8050.MSQ

evel: (low/med) LOW  Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. 9.9  Date Analyzed: 09/05/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.00

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

umber TICs found: 0  CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| | | | | |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
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ANALYSIS DATA SHEET

Client No.

DCR-VER-07

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

Matrix: (soil/water) SOIL Lab Sample ID: A5468105

Sample wt/vol: 5.10 (g/mL) G Lab File ID: H8049.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. 7.2 Heated Purge: Y Date Analyzed: 09/05/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | 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 |
| 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 | 11 | |
| 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 |
| 108-88-3 | TOLUENE | 10 | U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 10 | U |
| 3-90-7 | CHLOROBENZENE | 10 | U |
| 0-41-4 | ETHYLBENZENE | 10 | U |
| 100-42-5 | STYRENE | 10 | U |
| 1330-20-7 | XYLENE(TOTAL) | 10 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

000018

Client No.

DCR-VER-07

Lab Name: Recra Environmental  Contract: MQ772732MQ

Lab Code: RECNY  Case No.: 5324  SAS No.: _____  SDG No.: VER02C

Matrix: (soil/water) SOIL  Lab Sample ID: A5468105

Sample wt/vol: 5.10 (g/mL) G  Lab File ID: H8049.MSQ

Level: (low/med) LOW  Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. 7.2  Date Analyzed: 09/05/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.00

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

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

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| | | | | |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

**000019**

Client No.

DCR-VER-12

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

Matrix: (soil/water) SOIL Lab Sample ID: A5468106

Sample wt/vol: 5.10 (g/mL) G Lab File ID: H8048.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. 8.2 Heated Purge: Y Date Analyzed: 09/05/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 74-87-3 | CHLOROMETHANE | 11 | U |
| 74-83-9 | BROMOMETHANE | 11 | U |
| 75-01-4 | VINYL CHLORIDE | 11 | U |
| 75-00-3 | CHLOROETHANE | 11 | U |
| 09-2 | METHYLENE CHLORIDE | 11 | U |
| 64-1 | ACETONE | 11 | U |
| 75-15-0 | CARBON DISULFIDE | 11 | U |
| 75-35-4 | 1,1-DICHLOROETHENE | 11 | U |
| 75-34-3 | 1,1-DICHLOROETHANE | 11 | U |
| 540-59-0 | 1,2-DICHLOROETHENE(TOTAL) | 11 | U |
| 67-66-3 | CHLOROFORM | 11 | U |
| 107-06-2 | 1,2-DICHLOROETHANE | 11 | U |
| 78-93-3 | 2-BUTANONE | 11 | U |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | 11 | U |
| 56-23-5 | CARBON TETRACHLORIDE | 11 | U |
| 75-27-4 | BROMODICHLOROMETHANE | 11 | U |
| 78-87-5 | 1,2-DICHLOROPROPANE | 11 | U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | 11 | U |
| 79-01-6 | TRICHLOROETHENE | 14 | |
| 124-48-1 | DIBROMOCHLOROMETHANE | 11 | U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | 11 | U |
| 71-43-2 | BENZENE | 11 | U |
| 10061-02-6 | Trans-1,3-DICHLOROPROPENE | 11 | U |
| 75-25-2 | BROMOFORM | 11 | U |
| 108-10-1 | 4-METHYL-2-PENTANONE | 11 | U |
| 591-78-6 | 2-HEXANONE | 11 | U |
| 127-18-4 | TETRACHLOROETHENE | 11 | U |
| 108-88-3 | TOLUENE | 11 | U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 11 | U |
| 108-90-7 | CHLOROBENZENE | 11 | U |
| 100-41-4 | ETHYLBENZENE | 11 | U |
| 100-42-5 | STYRENE | 11 | U |
| 1330-20-7 | XYLENE(TOTAL) | 11 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

000020

Client No.

DCR-VER-12

Lab Name: Recra Environmental  Contract: MQ772732MQ

Lab Code: RECNY  Case No.: 5324  SAS No.: _____  SDG No.: VER02C

Matrix: (soil/water) SOIL  Lab Sample ID: A5468106

Sample wt/vol: 5.10 (g/mL) G  Lab File ID: H8048.MSQ

Level: (low/med) LOW  Date Samp/Recv: 09/01/95 09/02/95

Moisture: not dec. 8.2  Date Analyzed: 09/05/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.00

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

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

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| | | | | |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

**000021**

Client No.

DCR-VER-13

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

Matrix: (soil/water) SOIL Lab Sample ID: A5468107

Sample wt/vol: 5.11 (g/mL) G Lab File ID: H8061.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. 6.8 Heated Purge: Y Date Analyzed: 09/06/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 74-87-3 | CHLOROMETHANE | 10 | U |
| 74-83-9 | BROMOMETHANE | 10 | U |
| 75-01-4 | VINYL CHLORIDE | 10 | U |
| [illegible]-00-3 | CHLOROETHANE | 10 | U |
| 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 | 6 | J |
| 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 |
| 108-88-3 | TOLUENE | 10 | U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 10 | U |
| 8-90-7 | CHLOROBENZENE | 10 | U |
| [illegible]00-41-4 | ETHYLBENZENE | 10 | U |
| 100-42-5 | STYRENE | 10 | U |
| 1330-20-7 | XYLENE(TOTAL) | 10 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

000022

Client No.

DCR-VER-13

ab Name: Recra Environmental  Contract: MQ772732MQ

ab Code: RECNY  Case No.: 5324  SAS No.: _____  SDG No.: VER02C

atrix: (soil/water) SOIL  Lab Sample ID: A5468107

ample wt/vol: 5.11 (g/mL) G  Lab File ID: H8061.MSQ

evel: (low/med) LOW  Date Samp/Recv: 09/01/95 09/02/95

Moisture: not dec. 6.8  Date Analyzed: 09/06/95

C Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.00

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

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

umber TICs found: 1

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| | UNKNOWN SILICON COMPOUND | 21.95 | 12 | BJ |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
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**000023**

Client No.

DCR-VER-14

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

Matrix: (soil/water) SOIL Lab Sample ID: A5468108

Sample wt/vol: 5.11 (g/mL) G Lab File ID: H8046.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. 8.2 Heated Purge: Y Date Analyzed: 09/05/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 74-87-3 | CHLOROMETHANE | 11 | U |
| 74-83-9 | BROMOMETHANE | 11 | U |
| 75-01-4 | VINYL CHLORIDE | 11 | U |
| 75-00-3 | CHLOROETHANE | 11 | U |
| 09-2 | METHYLENE CHLORIDE | 11 | U |
| 67-64-1 | ACETONE | 11 | U |
| 75-15-0 | CARBON DISULFIDE | 11 | U |
| 75-35-4 | 1,1-DICHLOROETHENE | 11 | U |
| 75-34-3 | 1,1-DICHLOROETHANE | 11 | U |
| 540-59-0 | 1,2-DICHLOROETHENE(TOTAL) | 11 | U |
| 67-66-3 | CHLOROFORM | 11 | U |
| 107-06-2 | 1,2-DICHLOROETHANE | 11 | U |
| 78-93-3 | 2-BUTANONE | 11 | U |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | 11 | U |
| 56-23-5 | CARBON TETRACHLORIDE | 11 | U |
| 75-27-4 | BROMODICHLOROMETHANE | 11 | U |
| 78-87-5 | 1,2-DICHLOROPROPANE | 11 | U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | 11 | U |
| 79-01-6 | TRICHLOROETHENE | 22 | |
| 124-48-1 | DIBROMOCHLOROMETHANE | 11 | U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | 11 | U |
| 71-43-2 | BENZENE | 11 | U |
| 10061-02-6 | Trans-1,3-DICHLOROPROPENE | 11 | U |
| 75-25-2 | BROMOFORM | 11 | U |
| 108-10-1 | 4-METHYL-2-PENTANONE | 11 | U |
| 591-78-6 | 2-HEXANONE | 11 | U |
| 127-18-4 | TETRACHLOROETHENE | 11 | U |
| 108-88-3 | TOLUENE | 11 | U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 11 | U |
| 8-90-7 | CHLOROBENZENE | 11 | U |
| 100-41-4 | ETHYLBENZENE | 11 | U |
| 100-42-5 | STYRENE | 11 | U |
| 1330-20-7 | XYLENE(TOTAL) | 11 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

000024

Client No.

DCR-VER-14

Lab Name: Recra Environmental  Contract: MQ772732MQ

Lab Code: RECNY  Case No.: 5324  SAS No.: _____  SDG No.: VER02C

Matrix: (soil/water) SOIL  Lab Sample ID: A5468108

Sample wt/vol: 5.11 (g/mL) G  Lab File ID: H8046.MSQ

Level: (low/med) LOW  Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. 8.2  Date Analyzed: 09/05/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.00

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

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

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| | | | | |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
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**000025**

Client No.

DCR-VER-17

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

Matrix: (soil/water) SOIL Lab Sample ID: A5468109

Sample wt/vol: 5.12 (g/mL) G Lab File ID: H8045.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. 11.5 Heated Purge: Y Date Analyzed: 09/05/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 74-87-3 | CHLOROMETHANE | 11 | U |
| 74-83-9 | BROMOMETHANE | 11 | U |
| 75-01-4 | VINYL CHLORIDE | 11 | U |
| 75-00-3 | CHLOROETHANE | 11 | U |
| [illegible]-09-2 | METHYLENE CHLORIDE | 11 | U |
| -64-1 | ACETONE | 11 | U |
| 75-15-0 | CARBON DISULFIDE | 11 | U |
| 75-35-4 | 1,1-DICHLOROETHENE | 11 | U |
| 75-34-3 | 1,1-DICHLOROETHANE | 11 | U |
| 540-59-0 | 1,2-DICHLOROETHENE(TOTAL) | 11 | U |
| 67-66-3 | CHLOROFORM | 11 | U |
| 107-06-2 | 1,2-DICHLOROETHANE | 11 | U |
| 78-93-3 | 2-BUTANONE | 11 | U |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | 11 | U |
| 56-23-5 | CARBON TETRACHLORIDE | 11 | U |
| 75-27-4 | BROMODICHLOROMETHANE | 11 | U |
| 78-87-5 | 1,2-DICHLOROPROPANE | 11 | U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | 11 | U |
| 79-01-6 | TRICHLOROETHENE | 16 | |
| 124-48-1 | DIBROMOCHLOROMETHANE | 11 | U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | 11 | U |
| 71-43-2 | BENZENE | 11 | U |
| 10061-02-6 | Trans-1,3-DICHLOROPROPENE | 11 | U |
| 75-25-2 | BROMOFORM | 11 | U |
| 108-10-1 | 4-METHYL-2-PENTANONE | 11 | U |
| 591-78-6 | 2-HEXANONE | 11 | U |
| 127-18-4 | TETRACHLOROETHENE | 11 | U |
| 108-88-3 | TOLUENE | 11 | U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 11 | U |
| [illegible]08-90-7 | CHLOROBENZENE | 11 | U |
| [illegible]0-41-4 | ETHYLBENZENE | 11 | U |
| [illegible]00-42-5 | STYRENE | 11 | U |
| 1330-20-7 | XYLENE(TOTAL) | 11 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

000026

Client No.

DCR-VER-17

ab Name: Recra Environmental  Contract: MQ772732MQ

Lab Code: RECNY  Case No.: 5324  SAS No.: _____  SDG No.: VER02C

atrix: (soil/water) SOIL  Lab Sample ID: A5468109

ample wt/vol: 5.12 (g/mL) G  Lab File ID: H8045.MSQ

Level: (low/med) LOW  Date Samp/Recv: 09/01/95 09/02/95

Moisture: not dec. 11.5  Date Analyzed: 09/05/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.00

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

umber TICs found: 0  CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| | | | | |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

000027

Client No.

DCR-VER-18

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

Matrix: (soil/water) SOIL Lab Sample ID: A5468113

Sample wt/vol: 5.06 (g/mL) G Lab File ID: H8043.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. 9.3 Heated Purge: Y Date Analyzed: 09/05/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 74-87-3 | CHLOROMETHANE | 11 | U |
| 74-83-9 | BROMOMETHANE | 11 | U |
| 75-01-4 | VINYL CHLORIDE | 11 | U |
| -00-3 | CHLOROETHANE | 11 | U |
| -09-2 | METHYLENE CHLORIDE | 1 | J |
| 67-64-1 | ACETONE | 11 | U |
| 75-15-0 | CARBON DISULFIDE | 11 | U |
| 75-35-4 | 1,1-DICHLOROETHENE | 11 | U |
| 75-34-3 | 1,1-DICHLOROETHANE | 11 | U |
| 540-59-0 | 1,2-DICHLOROETHENE(TOTAL) | 11 | U |
| 67-66-3 | CHLOROFORM | 11 | U |
| 107-06-2 | 1,2-DICHLOROETHANE | 11 | U |
| 78-93-3 | 2-BUTANONE | 11 | U |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | 11 | U |
| 56-23-5 | CARBON TETRACHLORIDE | 11 | U |
| 75-27-4 | BROMODICHLOROMETHANE | 11 | U |
| 78-87-5 | 1,2-DICHLOROPROPANE | 11 | U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | 11 | U |
| 79-01-6 | TRICHLOROETHENE | 11 | U |
| 124-48-1 | DIBROMOCHLOROMETHANE | 11 | U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | 11 | U |
| 71-43-2 | BENZENE | 11 | U |
| 10061-02-6 | Trans-1,3-DICHLOROPROPENE | 11 | U |
| 75-25-2 | BROMOFORM | 11 | U |
| 108-10-1 | 4-METHYL-2-PENTANONE | 11 | U |
| 591-78-6 | 2-HEXANONE | 11 | U |
| 127-18-4 | TETRACHLOROETHENE | 11 | U |
| 108-88-3 | TOLUENE | 11 | U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 11 | U |
| 8-90-7 | CHLOROBENZENE | 11 | U |
| 100-41-4 | ETHYLBENZENE | 11 | U |
| 100-42-5 | STYRENE | 11 | U |
| 1330-20-7 | XYLENE(TOTAL) | 11 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

000028
Client No.

DCR-VER-18

ab Name: Recra Environmental  Contract: MQ772732MQ

Lab Code: RECNY  Case No.: 5324  SAS No.: _____  SDG No.: VER02C

atrix: (soil/water) SOIL  Lab Sample ID: A5468113

ample wt/vol: 5.06 (g/mL) G  Lab File ID: H8043.MSQ

Level: (low/med) LOW  Date Samp/Recv: 09/01/95 09/02/95

Moisture: not dec. 9.3  Date Analyzed: 09/05/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.00

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

umber TICs found: 0  CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| | | | | |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
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**000029**

Client No.

DCR-VER-19

ab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

atrix: (soil/water) SOIL Lab Sample ID: A5468114

ample wt/vol: 5.15 (g/mL) G Lab File ID: H8042.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

Moisture: not dec. 8.0 Heated Purge: Y Date Analyzed: 09/05/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 74-87-3 | CHLOROMETHANE | 10 | U |
| 74-83-9 | BROMOMETHANE | 10 | U |
| 75-01-4 | VINYL CHLORIDE | 10 | U |
| 00-3 | CHLOROETHANE | 10 | U |
| 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 |
| 108-88-3 | TOLUENE | 10 | U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 10 | U |
| 8-90-7 | CHLOROBENZENE | 10 | U |
| 0-41-4 | ETHYLBENZENE | 10 | U |
| 100-42-5 | STYRENE | 10 | U |
| 1330-20-7 | XYLENE(TOTAL) | 10 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

000030

Client No.

DCR-VER-19

ab Name: Recra Environmental  Contract: MQ772732MQ

Lab Code: RECNY  Case No.: 5324  SAS No.: _____  SDG No.: VER02C

..atrix: (soil/water) SOIL  Lab Sample ID: A5468114

ample wt/vol: 5.15 (g/mL) G  Lab File ID: H8042.MSQ

Level: (low/med) LOW  Date Samp/Recv: 09/01/95 09/02/95

Moisture: not dec. 8.0  Date Analyzed: 09/05/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.00

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

umber TICs found: 0  CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| L | | | | |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

**000031**

Client No.

DCR-VER-20

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

Matrix: (soil/water) SOIL Lab Sample ID: A5468115

Sample wt/vol: 5.07 (g/mL) G Lab File ID: H8060.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. 10.4 Heated Purge: Y Date Analyzed: 09/06/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 74-87-3 | CHLOROMETHANE | 11 | U |
| 74-83-9 | BROMOMETHANE | 11 | U |
| 75-01-4 | VINYL CHLORIDE | 11 | U |
| 75-00-3 | CHLOROETHANE | 11 | U |
| 75-09-2 | METHYLENE CHLORIDE | 3 | J |
| 67-64-1 | ACETONE | 11 | U |
| 75-15-0 | CARBON DISULFIDE | 11 | U |
| 75-35-4 | 1,1-DICHLOROETHENE | 11 | U |
| 75-34-3 | 1,1-DICHLOROETHANE | 11 | U |
| 540-59-0 | 1,2-DICHLOROETHENE(TOTAL) | 11 | U |
| 67-66-3 | CHLOROFORM | 11 | U |
| 107-06-2 | 1,2-DICHLOROETHANE | 11 | U |
| 78-93-3 | 2-BUTANONE | 11 | U |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | 11 | U |
| 56-23-5 | CARBON TETRACHLORIDE | 11 | U |
| 75-27-4 | BROMODICHLOROMETHANE | 11 | U |
| 78-87-5 | 1,2-DICHLOROPROPANE | 11 | U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | 11 | U |
| 79-01-6 | TRICHLOROETHENE | 11 | U |
| 124-48-1 | DIBROMOCHLOROMETHANE | 11 | U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | 11 | U |
| 71-43-2 | BENZENE | 11 | U |
| 10061-02-6 | Trans-1,3-DICHLOROPROPENE | 11 | U |
| 75-25-2 | BROMOFORM | 11 | U |
| 108-10-1 | 4-METHYL-2-PENTANONE | 11 | U |
| 591-78-6 | 2-HEXANONE | 11 | U |
| 127-18-4 | TETRACHLOROETHENE | 11 | U |
| 108-88-3 | TOLUENE | 11 | U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 11 | U |
| 108-90-7 | CHLOROBENZENE | 11 | U |
| 100-41-4 | ETHYLBENZENE | 11 | U |
| 100-42-5 | STYRENE | 11 | U |
| 1330-20-7 | XYLENE(TOTAL) | 11 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

000032

Client No.

DCR-VER-20

Lab Name: Recra Environmental  Contract: MQ772732MQ

Lab Code: RECNY  Case No.: 5324  SAS No.: _____  SDG No.: VER02C

Matrix: (soil/water) SOIL  Lab Sample ID: A5468115

Sample wt/vol: 5.07 (g/mL) G  Lab File ID: H8060.MSQ

Level: (low/med) LOW  Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. 10.4  Date Analyzed: 09/06/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.00

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

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

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| | | | | |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

**000033**

Client No.

DCR-VER-21

ab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

atrix: (soil/water) SOIL Lab Sample ID: A5468116

ample wt/vol: 5.17 (g/mL) G Lab File ID: H8040.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

Moisture: not dec. 12.5 Heated Purge: Y Date Analyzed: 09/05/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 74-87-3 | CHLOROMETHANE | 11 | U |
| 74-83-9 | BROMOMETHANE | 11 | U |
| 75-01-4 | VINYL CHLORIDE | 11 | U |
| -00-3 | CHLOROETHANE | 11 | U |
| -09-2 | METHYLENE CHLORIDE | 11 | U |
| 67-64-1 | ACETONE | 11 | U |
| 75-15-0 | CARBON DISULFIDE | 11 | U |
| 75-35-4 | 1,1-DICHLOROETHENE | 11 | U |
| 75-34-3 | 1,1-DICHLOROETHANE | 11 | U |
| 540-59-0 | 1,2-DICHLOROETHENE(TOTAL) | 11 | U |
| 67-66-3 | CHLOROFORM | 11 | U |
| 107-06-2 | 1,2-DICHLOROETHANE | 11 | U |
| 78-93-3 | 2-BUTANONE | 11 | U |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | 11 | U |
| 56-23-5 | CARBON TETRACHLORIDE | 11 | U |
| 75-27-4 | BROMODICHLOROMETHANE | 11 | U |
| 78-87-5 | 1,2-DICHLOROPROPANE | 11 | U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | 11 | U |
| 79-01-6 | TRICHLOROETHENE | 11 | U |
| 124-48-1 | DIBROMOCHLOROMETHANE | 11 | U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | 11 | U |
| 71-43-2 | BENZENE | 11 | U |
| 10061-02-6 | Trans-1,3-DICHLOROPROPENE | 11 | U |
| 75-25-2 | BROMOFORM | 11 | U |
| 108-10-1 | 4-METHYL-2-PENTANONE | 11 | U |
| 591-78-6 | 2-HEXANONE | 11 | U |
| 127-18-4 | TETRACHLOROETHENE | 11 | U |
| 108-88-3 | TOLUENE | 11 | U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 11 | U |
| 8-90-7 | CHLOROBENZENE | 11 | U |
| 100-41-4 | ETHYLBENZENE | 11 | U |
| 100-42-5 | STYRENE | 11 | U |
| 1330-20-7 | XYLENE(TOTAL) | 11 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

**000035**

Client No.

DCR-VER-22

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

Matrix: (soil/water) SOIL Lab Sample ID: A5468117

Sample wt/vol: 5.04 (g/mL) G Lab File ID: H8039.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. 15.0 Heated Purge: Y Date Analyzed: 09/05/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

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

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 74-87-3 | CHLOROMETHANE | 12 | U |
| 74-83-9 | BROMOMETHANE | 12 | U |
| 75-01-4 | VINYL CHLORIDE | 12 | U |
| 75-00-3 | CHLOROETHANE | 17 | |
| 75-09-2 | METHYLENE CHLORIDE | 12 | U |
| 67-64-1 | ACETONE | 12 | U |
| 75-15-0 | CARBON DISULFIDE | 12 | U |
| 75-35-4 | 1,1-DICHLOROETHENE | 12 | U |
| 75-34-3 | 1,1-DICHLOROETHANE | 12 | U |
| 540-59-0 | 1,2-DICHLOROETHENE(TOTAL) | 12 | U |
| 67-66-3 | CHLOROFORM | 12 | U |
| 107-06-2 | 1,2-DICHLOROETHANE | 12 | U |
| 78-93-3 | 2-BUTANONE | 12 | U |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | 12 | U |
| 56-23-5 | CARBON TETRACHLORIDE | 12 | U |
| 75-27-4 | BROMODICHLOROMETHANE | 12 | U |
| 78-87-5 | 1,2-DICHLOROPROPANE | 12 | U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | 12 | U |
| 79-01-6 | TRICHLOROETHENE | 12 | U |
| 124-48-1 | DIBROMOCHLOROMETHANE | 12 | U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | 12 | U |
| 71-43-2 | BENZENE | 12 | U |
| 10061-02-6 | Trans-1,3-DICHLOROPROPENE | 12 | U |
| 75-25-2 | BROMOFORM | 12 | U |
| 108-10-1 | 4-METHYL-2-PENTANONE | 12 | U |
| 591-78-6 | 2-HEXANONE | 12 | U |
| 127-18-4 | TETRACHLOROETHENE | 12 | U |
| 108-88-3 | TOLUENE | 12 | U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 12 | U |
| 108-90-7 | CHLOROBENZENE | 12 | U |
| 100-41-4 | ETHYLBENZENE | 12 | U |
| 100-42-5 | STYRENE | 12 | U |
| 1330-20-7 | XYLENE(TOTAL) | 12 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

**000036**

Client No.

DCR-VER-22

Lab Name: Recra Environmental Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

Matrix: (soil/water) SOIL Lab Sample ID: A5468117

Sample wt/vol: 5.04 (g/mL) G Lab File ID: H8039.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. 15.0 Date Analyzed: 09/05/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

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

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| | | | | |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
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**000037**

Client No.

DCR-VER-23

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

Matrix: (soil/water) SOIL . Lab Sample ID: A5468118

Sample wt/vol: 5.06 (g/mL) G Lab File ID: H8038.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. 8.3 Heated Purge: Y Date Analyzed: 09/05/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 74-87-3 | CHLOROMETHANE | 11 | U |
| 74-83-9 | BROMOMETHANE | 11 | U |
| 75-01-4 | VINYL CHLORIDE | 11 | U |
| 75-00-3 | CHLOROETHANE | 11 | U |
| -09-2 | METHYLENE CHLORIDE | 1 | J |
| 67-64-1 | ACETONE | 11 | U |
| 75-15-0 | CARBON DISULFIDE | 11 | U |
| 75-35-4 | 1,1-DICHLOROETHENE | 11 | U |
| 75-34-3 | 1,1-DICHLOROETHANE | 11 | U |
| 540-59-0 | 1,2-DICHLOROETHENE(TOTAL) | 11 | U |
| 67-66-3 | CHLOROFORM | 11 | U |
| 107-06-2 | 1,2-DICHLOROETHANE | 11 | U |
| 78-93-3 | 2-BUTANONE | 11 | U |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | 11 | U |
| 56-23-5 | CARBON TETRACHLORIDE | 11 | U |
| 75-27-4 | BROMODICHLOROMETHANE | 11 | U |
| 78-87-5 | 1,2-DICHLOROPROPANE | 11 | U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | 11 | U |
| 79-01-6 | TRICHLOROETHENE | 11 | U |
| 124-48-1 | DIBROMOCHLOROMETHANE | 11 | U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | 11 | U |
| 71-43-2 | BENZENE | 11 | U |
| 10061-02-6 | Trans-1,3-DICHLOROPROPENE | 11 | U |
| 75-25-2 | BROMOFORM | 11 | U |
| 108-10-1 | 4-METHYL-2-PENTANONE | 11 | U |
| 591-78-6 | 2-HEXANONE | 11 | U |
| 127-18-4 | TETRACHLOROETHENE | 11 | U |
| 108-88-3 | TOLUENE | 11 | U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 11 | U |
| 08-90-7 | CHLOROBENZENE | 11 | U |
| 00-41-4 | ETHYLBENZENE | 11 | U |
| 100-42-5 | STYRENE | 11 | U |
| 1330-20-7 | XYLENE(TOTAL) | 11 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

000038

Client No.

DCR-VER-23

ab Name: Recra Environmental Contract: MQ772732MQ

ab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

atrix: (soil/water) SOIL Lab Sample ID: A5468118

ample wt/vol: 5.06 (g/mL) G Lab File ID: H8038.MSQ

evel: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

Moisture: not dec. 8.3 Date Analyzed: 09/05/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

umber TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| | | | | |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
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**000039**
Client No.

DCR-VER-24

ab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

atrix: (soil/water) SOIL Lab Sample ID: A5468119

ample wt/vol: 5.11 (g/mL) G Lab File ID: H8037.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

Moisture: not dec. 7.3 Heated Purge: Y Date Analyzed: 09/05/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 74-87-3 | CHLOROMETHANE | 10 | U |
| 74-83-9 | BROMOMETHANE | 10 | U |
| 75-01-4 | VINYL CHLORIDE | 10 | U |
| 00-3 | CHLOROETHANE | 10 | U |
| 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 |
| 108-88-3 | TOLUENE | 10 | U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 10 | U |
| 8-90-7 | CHLOROBENZENE | 10 | U |
| 100-41-4 | ETHYLBENZENE | 10 | U |
| 100-42-5 | STYRENE | 10 | U |
| 1330-20-7 | XYLENE(TOTAL) | 10 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

000040

Client No.

DCR-VER-24

ab Name: Recra Environmental  Contract: MQ772732MQ

Lab Code: RECNY  Case No.: 5324  SAS No.: _____  SDG No.: VER02C

atrix: (soil/water) SOIL  Lab Sample ID: A5468119

Sample wt/vol: 5.11 (g/mL) G  Lab File ID: H8037.MSQ

Level: (low/med) LOW  Date Samp/Recv: 09/01/95 09/02/95

Moisture: not dec. 7.3  Date Analyzed: 09/05/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.00

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

umber TICs found: 0  CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| | | | | |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
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**000041**

Client No.

DCR-VER-25

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

Matrix: (soil/water) SOIL Lab Sample ID: A5468120

Sample wt/vol: 5.06 (g/mL) G Lab File ID: H8036.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. 10.2 Heated Purge: Y Date Analyzed: 09/05/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 74-87-3 | CHLOROMETHANE | 11 | U |
| 74-83-9 | BROMOMETHANE | 11 | U |
| 75-01-4 | VINYL CHLORIDE | 11 | U |
| 00-3 | CHLOROETHANE | 11 | U |
| -09-2 | METHYLENE CHLORIDE | 11 | U |
| 67-64-1 | ACETONE | 11 | U |
| 75-15-0 | CARBON DISULFIDE | 11 | U |
| 75-35-4 | 1,1-DICHLOROETHENE | 11 | U |
| 75-34-3 | 1,1-DICHLOROETHANE | 11 | U |
| 540-59-0 | 1,2-DICHLOROETHENE(TOTAL) | 11 | U |
| 67-66-3 | CHLOROFORM | 11 | U |
| 107-06-2 | 1,2-DICHLOROETHANE | 11 | U |
| 78-93-3 | 2-BUTANONE | 11 | U |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | 11 | U |
| 56-23-5 | CARBON TETRACHLORIDE | 11 | U |
| 75-27-4 | BROMODICHLOROMETHANE | 11 | U |
| 78-87-5 | 1,2-DICHLOROPROPANE | 11 | U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | 11 | U |
| 79-01-6 | TRICHLOROETHENE | 11 | U |
| 124-48-1 | DIBROMOCHLOROMETHANE | 11 | U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | 11 | U |
| 71-43-2 | BENZENE | 11 | U |
| 10061-02-6 | Trans-1,3-DICHLOROPROPENE | 11 | U |
| 75-25-2 | BROMOFORM | 11 | U |
| 108-10-1 | 4-METHYL-2-PENTANONE | 11 | U |
| 591-78-6 | 2-HEXANONE | 11 | U |
| 127-18-4 | TETRACHLOROETHENE | 11 | U |
| 108-88-3 | TOLUENE | 11 | U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 11 | U |
| 8-90-7 | CHLOROBENZENE | 11 | U |
| 100-41-4 | ETHYLBENZENE | 11 | U |
| 100-42-5 | STYRENE | 11 | U |
| 1330-20-7 | XYLENE(TOTAL) | 11 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

000042

Client No.

DCR-VER-25

ab Name: Recra Environmental  Contract: MQ772732MQ

Lab Code: RECNY  Case No.: 5324  SAS No.: _____  SDG No.: VER02C

atrix: (soil/water) SOIL  Lab Sample ID: A5468120

ample wt/vol: 5.06 (g/mL) G  Lab File ID: H8036.MSQ

evel: (low/med) LOW  Date Samp/Recv: 09/01/95 09/02/95

Moisture: not dec. 10.2  Date Analyzed: 09/05/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.00

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

umber TICs found: 0  CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| | | | | |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
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**000043**
Client No.

DCR-VER-200

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

Matrix: (soil/water) SOIL Lab Sample ID: A5468110

Sample wt/vol: 5.07 (g/mL) G Lab File ID: H8044.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. 8.3 Heated Purge: Y Date Analyzed: 09/05/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 74-87-3 | CHLOROMETHANE | 11 | U |
| 74-83-9 | BROMOMETHANE | 11 | U |
| 75-01-4 | VINYL CHLORIDE | 11 | U |
| 00-3 | CHLOROETHANE | 11 | U |
| 09-2 | METHYLENE CHLORIDE | 11 | U |
| 67-64-1 | ACETONE | 11 | U |
| 75-15-0 | CARBON DISULFIDE | 11 | U |
| 75-35-4 | 1,1-DICHLOROETHENE | 11 | U |
| 75-34-3 | 1,1-DICHLOROETHANE | 11 | U |
| 540-59-0 | 1,2-DICHLOROETHENE(TOTAL) | 11 | U |
| 67-66-3 | CHLOROFORM | 11 | U |
| 107-06-2 | 1,2-DICHLOROETHANE | 11 | U |
| 78-93-3 | 2-BUTANONE | 11 | U |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | 11 | U |
| 56-23-5 | CARBON TETRACHLORIDE | 11 | U |
| 75-27-4 | BROMODICHLOROMETHANE | 11 | U |
| 78-87-5 | 1,2-DICHLOROPROPANE | 11 | U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | 11 | U |
| 79-01-6 | TRICHLOROETHENE | 36 | |
| 124-48-1 | DIBROMOCHLOROMETHANE | 11 | U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | 11 | U |
| 71-43-2 | BENZENE | 11 | U |
| 10061-02-6 | Trans-1,3-DICHLOROPROPENE | 11 | U |
| 75-25-2 | BROMOFORM | 11 | U |
| 108-10-1 | 4-METHYL-2-PENTANONE | 11 | U |
| 591-78-6 | 2-HEXANONE | 11 | U |
| 127-18-4 | TETRACHLOROETHENE | 11 | U |
| 108-88-3 | TOLUENE | 11 | U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 11 | U |
| 3-90-7 | CHLOROBENZENE | 11 | U |
| 100-41-4 | ETHYLBENZENE | 11 | U |
| 100-42-5 | STYRENE | 11 | U |
| 1330-20-7 | XYLENE(TOTAL) | 11 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.: DCR-VER-200

ab Name: Recra Environmental  Contract: MQ772732MQ

Lab Code: RECNY  Case No.: 5324  SAS No.: _____  SDG No.: VER02C

atrix: (soil/water) SOIL  Lab Sample ID: A5468110

ample wt/vol: 5.07 (g/mL) G  Lab File ID: H8044.MSQ

Level: (low/med) LOW  Date Samp/Recv: 09/01/95 09/02/95

Moisture: not dec. 8.3  Date Analyzed: 09/05/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.00

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

umber TICs found: 0  CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| | | | | |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

**000045**

Client No.

MW-546-01

Lab Name: Recra Environmental  Contract: MQ772732MQ

Lab Code: RECNY  Case No.: 5324  SAS No.: _____  SDG No.: VER02C

Matrix: (soil/water) WATER  Lab Sample ID: A5468111

Sample wt/vol: 5.00 (g/mL) ML  Lab File ID: K9479.MSQ

Level: (low/med) LOW  Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. _____  Heated Purge: N  Date Analyzed: 09/05/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.00

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

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

| CAS NO. | COMPOUND | | 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 |
| 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 |
| 108-88-3 | TOLUENE | 10 | U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 10 | U |
| 8-90-7 | CHLOROBENZENE | 10 | U |
| 0-41-4 | ETHYLBENZENE | 10 | U |
| 100-42-5 | STYRENE | 10 | U |
| 1330-20-7 | XYLENE(TOTAL) | 10 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

**000046**

Client No.

MW-546-01

ab Name: Recra Environmental  Contract: MQ772732MQ

Lab Code: RECNY  Case No.: 5324  SAS No.: _____  SDG No.: VER02C

atrix: (soil/water) WATER  Lab Sample ID: A5468111

Sample wt/vol: 5.00 (g/mL) ML  Lab File ID: K9479.MSQ

Level: (low/med) LOW  Date Samp/Recv: 09/01/95 09/02/95

Moisture: not dec. _____  Date Analyzed: 09/05/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.00

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

umber TICs found: 0  CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| | | | | |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
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**000047**

Client No.

MW-546-05

Lab Name: Recra Environmental  Contract: MQ772732MQ

Lab Code: RECNY  Case No.: 5324  SAS No.: _____  SDG No.: VER02C

Matrix: (soil/water) WATER  Lab Sample ID: A5468112

Sample wt/vol: 5.00 (g/mL) ML  Lab File ID: K9480.MSQ

Level: (low/med) LOW  Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. _____  Heated Purge: N  Date Analyzed: 09/05/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.00

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

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

| CAS NO. | COMPOUND | | 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 |
| 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 |
| 108-88-3 | TOLUENE | 10 | U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 10 | U |
| 3-90-7 | CHLOROBENZENE | 10 | U |
| 0-41-4 | ETHYLBENZENE | 10 | U |
| 100-42-5 | STYRENE | 10 | U |
| 1330-20-7 | XYLENE(TOTAL) | 10 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

000048

Client No.

MW-546-05

ab Name: Recra Environmental  Contract: MQ772732MQ

Lab Code: RECNY  Case No.: 5324  SAS No.: _____  SDG No.: VER02C

atrix: (soil/water) WATER  Lab Sample ID: A5468112

ample wt/vol: 5.00 (g/mL) ML  Lab File ID: K9480.MSQ

Level: (low/med) LOW  Date Samp/Recv: 09/01/95 09/02/95

Moisture: not dec. _____  Date Analyzed: 09/05/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.00

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

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

umber TICs found: 0

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| | | | | |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
WATER SURROGATE RECOVERY

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

| | Client Sample ID | BFB %REC | # | DCE %REC | # | TOL %REC | # | | | | | | TOT OUT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | 0 |
| 1 | Matrix Spike Blank | 98 | | 94 | | 98 | | | | | | | 0 |
| 2 | Matrix Spike Blk Dup | 96 | | 91 | | 94 | | | | | | | 0 |
| 3 | MW-546-01 | 100 | | 90 | | 94 | | | | | | | 0 |
| 4 | MW-546-05 | 102 | | 90 | | 92 | | | | | | | 0 |
| 5 | VBLK21 | 103 | | 93 | | 97 | | | | | | | |

QC LIMITS

( 86-115)
( 76-114)
( 88-110)

BFB = p-Bromofluorobenzene
DCE = 1,2-Dichloroethane-D4
TOL = Toluene-D8

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
SOIL SURROGATE RECOVERY

**000050**

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

Level (low/med): LOW

| | Client Sample ID | BFB %REC | # | DCE %REC | # | TOL %REC | # | | | | | | TOT OUT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | DCR-VER-02 | 118 | * | 86 | | 107 | | | | | | | 1 |
| 2 | DCR-VER-02 MS | 116 | * | 89 | | 99 | | | | | | | 1 |
| 3 | DCR-VER-02 MSD | 124 | * | 88 | | 104 | | | | | | | 1 |
| 4 | DCR-VER-03 | 90 | | 92 | | 105 | | | | | | | 0 |
| 5 | DCR-VER-04 | 95 | | 87 | | 100 | | | | | | | 0 |
| 6 | DCR-VER-06 | 93 | | 85 | | 106 | | | | | | | 0 |
| 7 | DCR-VER-07 | 97 | | 85 | | 104 | | | | | | | 0 |
| 8 | DCR-VER-12 | 97 | | 88 | | 102 | | | | | | | 0 |
| 9 | DCR-VER-13 | 93 | | 97 | | 103 | | | | | | | 0 |
| 10 | DCR-VER-14 | 92 | | 87 | | 110 | | | | | | | 0 |
| 11 | DCR-VER-17 | 91 | | 89 | | 106 | | | | | | | 0 |
| 12 | DCR-VER-18 | 91 | | 91 | | 109 | | | | | | | 0 |
| 13 | DCR-VER-19 | 98 | | 92 | | 107 | | | | | | | 0 |
| | DCR-VER-20 | 93 | | 94 | | 112 | | | | | | | 0 |
| 15 | DCR-VER-200 | 94 | | 89 | | 109 | | | | | | | 0 |
| 16 | DCR-VER-21 | 96 | | 93 | | 108 | | | | | | | 0 |
| 17 | DCR-VER-22 | 100 | | 92 | | 103 | | | | | | | 0 |
| 18 | DCR-VER-23 | 96 | | 91 | | 109 | | | | | | | 0 |
| 19 | DCR-VER-24 | 101 | | 95 | | 103 | | | | | | | 0 |
| 20 | DCR-VER-25 | 101 | | 92 | | 106 | | | | | | | 0 |
| 21 | Matrix Spike Blank | 100 | | 97 | | 100 | | | | | | | 0 |
| 22 | VBLK19 | 107 | | 94 | | 106 | | | | | | | 0 |
| 23 | VBLK20 | 100 | | 94 | | 101 | | | | | | | 0 |

QC LIMITS

BFB = p-Bromofluorobenzene ( 59-113)
DCE = 1,2-Dichloroethane-D4 ( 70-121)
TOL = Toluene-D8 ( 84-138)

\# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
SOIL SURROGATE RECOVERY



Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

Level (low/med): MED

| | Client Sample ID | BFB %REC # | DCE %REC # | TOL %REC # | | | | | | TOT OUT |
|---|---|---|---|---|---|---|---|---|---|---|
| | ========== | ======= | ======= | ======= | ======= | ======= | ======= | ======= | ======= | === |
| 1 | DCR-VER-02 DL | 102 | 100 | 98 | | | | | | 0 |
| 2 | DCR-VER-02 MSDDL | 95 | 104 | 94 | | | | | | 0 |
| 3 | DCR-VER-02 MSDL | 94 | 101 | 92 | | | | | | 0 |
| 4 | Matrix Spike Blank | 90 | 95 | 97 | | | | | | 0 |
| 5 | VBLK24 | 97 | 90 | 102 | | | | | | 0 |

QC LIMITS

BFB = p-Bromofluorobenzene ( 59-113)
DCE = 1,2-Dichloroethane-D4 ( 70-121)
TOL = Toluene-D8 ( 84-138)

. Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
WATER MATRIX SPIKE BLANK/MATRIX SPIKE BLANK DUPLICATE RECOVERY

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Lab Samp ID: A5B0585103

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

Matrix Spike - Client Sample No.: ~~VBLK21~~ MSBLANK / MSBD STR 10/2/95

| COMPOUND | SPIKE ADDED UG/L | MSB CONCENTRATION UG/L | MSB % REC # | QC LIMITS REC. |
|---|---|---|---|---|
| 1,1-Dichloroethene | 50 | 57 | 114 | 61 - 145 |
| Trichloroethene | 50 | 50 | 100 | 71 - 120 |
| Benzene | 50 | 48 | 96 | 76 - 127 |
| Toluene | 50 | 49 | 98 | 76 - 125 |
| Chlorobenzene | 50 | 52 | 104 | 75 - 130 |

| COMPOUND | SPIKE ADDED UG/L | MSBD CONCENTRATION UG/L | MSBD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 50 | 58 | 116 | 2 | 14 | 61 - 145 |
| Trichloroethene | 50 | 52 | 104 | 4 | 14 | 71 - 120 |
| Benzene | 50 | 51 | 102 | 6 | 11 | 76 - 127 |
| Toluene | 50 | 48 | 96 | 2 | 13 | 76 - 125 |
| Chlorobenzene | 50 | 52 | 104 | 0 | 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: _____

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
SOIL MATRIX SPIKE BLANK RECOVERY

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Lab Samp ID: A5B0586001

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

Matrix Spike - Client Sample No.: ~~VBLK19~~ MSB LANK Level: (low/med) LOW

10/2/95

| COMPOUND | SPIKE ADDED UG/KG | MSB CONCENTRATION UG/KG | MSB % REC # | QC LIMITS REC. |
|---|---|---|---|---|
| 1,1-Dichloroethene | 50 | 46 | 92 | 59 - 172 |
| Trichloroethene | 50 | 48 | 96 | 62 - 137 |
| Benzene | 50 | 48 | 96 | 66 - 142 |
| Toluene | 50 | 50 | 100 | 59 - 139 |
| Chlorobenzene | 50 | 49 | 98 | 60 - 133 |

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

* Values outside of QC limits

S e recovery: 0 out of 5 outside limits

Comments: _____

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
SOIL MATRIX SPIKE BLANK RECOVERY

000054

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Lab Samp ID: A5B0591502

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

Matrix Spike - Client Sample No.: ~~VBLK24~~ MS Blank Level: (low/med) MED

(med level) mm 10/2/95

| COMPOUND | SPIKE ADDED UG/KG | MSB CONCENTRATION UG/KG | MSB % REC # | QC LIMITS REC. |
|---|---|---|---|---|
| 1,1-Dichloroethene | 6200 | 6600 | 106 | 59 - 172 |
| Trichloroethene | 6200 | 6400 | 103 | 62 - 137 |
| Benzene | 6200 | 6400 | 103 | 66 - 142 |
| Toluene | 6200 | 6600 | 106 | 59 - 139 |
| Chlorobenzene | 6200 | 6900 | 111 | 60 - 133 |

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

* Values outside of QC limits

ke recovery: 0 out of 5 outside limits

Comments: _____

_____

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
SOIL MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Lab Samp ID: A5468101

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

Matrix Spike - Client Sample No.: DCR-VER-02 Level: (low/med) LOW

| COMPOUND | SPIKE ADDED UG/KG | SAMPLE CONCENTRATION UG/KG | MS CONCENTRATION UG/KG | MS % REC # | QC LIMITS REC. |
|---|---|---|---|---|---|
| 1,1-Dichloroethene | 54 | 0 | 50 | 92 | 59 - 172 |
| Trichloroethene | 54 | 2900 | 2800 | -185 * | 62 - 137 |
| Benzene | 54 | 0 | 54 | 100 | 66 - 142 |
| Toluene | 54 | 21 | 75 | 100 | 59 - 139 |
| Chlorobenzene | 54 | 0 | 57 | 106 | 60 - 133 |

| COMPOUND | SPIKE ADDED UG/KG | MSD CONCENTRATION UG/KG | MSD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 54 | 50 | 92 | 0 | 22 | 59 - 172 |
| Trichloroethene | 54 | 3200 | 556 * | 399 * | 24 | 62 - 137 |
| Benzene | 54 | 53 | 98 | 2 | 21 | 66 - 142 |
| Toluene | 54 | 80 | 109 | 9 | 21 | 59 - 139 |
| Chlorobenzene | 54 | 54 | 100 | 6 | 21 | 60 - 133 |

# 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: 2 out of 10 outside limits

Comments: _____

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
SOIL MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Lab Samp ID: A5468101DL

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

Matrix Spike - Client Sample No.: DCR-VER-02 DL Level: (low/med) MED

| COMPOUND | SPIKE ADDED UG/KG | SAMPLE CONCENTRATION UG/KG | MS CONCENTRATION UG/KG | MS % REC # | QC LIMITS REC. |
|---|---|---|---|---|---|
| 1,1-Dichloroethene | 6700 | 0 | 9700 | 145 | 59 - 172 |
| Trichloroethene | 6700 | 20000 | 33000 | 194 * | 62 - 137 |
| Benzene | 6700 | 0 | 7000 | 104 | 66 - 142 |
| Toluene | 6700 | 220 | 6900 | 100 | 59 - 139 |
| Chlorobenzene | 6700 | 0 | 7200 | 107 | 60 - 133 |

| COMPOUND | SPIKE ADDED UG/KG | MSD CONCENTRATION UG/KG | MSD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 6700 | 9500 | 142 | 2 | 22 | 59 - 172 |
| Trichloroethene | 6700 | 33000 | 194 * | 0 | 24 | 62 - 137 |
| Benzene | 6700 | 6900 | 103 | 1 | 21 | 66 - 142 |
| Toluene | 6700 | 6900 | 100 | 0 | 21 | 59 - 139 |
| Chlorobenzene | 6700 | 7100 | 106 | 0 | 21 | 60 - 133 |

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: 2 out of 10 outside limits

Comments: _____

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
METHOD BLANK SUMMARY

Client No.: VBLK19

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

Lab File ID: H8035.MSQ Lab Sample ID: A5B0586001

Date Analyzed: 09/05/95 Time Analyzed: 15:51

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

Instrument ID: I50H

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

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 1 | DCR-VER-02 | A5468101 | H8053.MSQ | 01:17 |
| 2 | DCR-VER-02 MS | A5468101MS | H8054.MSQ | 01:48 |
| 3 | DCR-VER-02 MSD | A5468101SD | H8055.MSQ | 02:19 |
| 4 | DCR-VER-04 | A5468103 | H8051.MSQ | 00:15 |
| 5 | DCR-VER-06 | A5468104 | H8050.MSQ | 23:44 |
| 6 | DCR-VER-07 | A5468105 | H8049.MSQ | 23:13 |
| 7 | DCR-VER-12 | A5468106 | H8048.MSQ | 22:41 |
| 8 | DCR-VER-14 | A5468108 | H8046.MSQ | 21:40 |
| 9 | DCR-VER-17 | A5468109 | H8045.MSQ | 21:09 |
| 10 | DCR-VER-18 | A5468113 | H8043.MSQ | 20:07 |
| 11 | DCR-VER-19 | A5468114 | H8042.MSQ | 19:35 |
| 12 | DCR-VER-200 | A5468110 | H8044.MSQ | 20:38 |
| 13 | DCR-VER-21 | A5468116 | H8040.MSQ | 18:32 |
| 14 | DCR-VER-22 | A5468117 | H8039.MSQ | 18:02 |
| 15 | DCR-VER-23 | A5468118 | H8038.MSQ | 17:31 |
| 16 | DCR-VER-24 | A5468119 | H8037.MSQ | 17:00 |
| 17 | DCR-VER-25 | A5468120 | H8036.MSQ | 16:29 |
| 18 | Matrix Spike Blank | A5468122 | H8034.MSQ | 15:20 |

Comments: _____

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

**000058**

Client No.

VBLK19

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

Matrix: (soil/water) SOIL Lab Sample ID: A5B0586001

Sample wt/vol: 5.00 (g/mL) G Lab File ID: H8035.MSQ

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: not dec. _____ Heated Purge: Y Date Analyzed: 09/05/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | 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 |
| 09-2 | METHYLENE CHLORIDE | 10 | U |
| 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 |
| 108-88-3 | TOLUENE | 10 | U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 10 | U |
| 8-90-7 | CHLOROBENZENE | 10 | U |
| 0-41-4 | ETHYLBENZENE | 10 | U |
| 100-42-5 | STYRENE | 10 | U |
| 1330-20-7 | XYLENE(TOTAL) | 10 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

000059

Client No.

VBLK19

Lab Name: Recra Environmental  Contract: MQ772732MQ

Lab Code: RECNY  Case No.: 5324  SAS No.: _____  SDG No.: VER02C

Matrix: (soil/water) SOIL  Lab Sample ID: A5B0586001

Sample wt/vol: 5.00 (g/mL) G  Lab File ID: H8035.MSQ

Level: (low/med) LOW  Date Samp/Recv: _____ _____

% Moisture: not dec. _____  Date Analyzed: 09/05/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.00

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

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

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| | | | | |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
METHOD BLANK SUMMARY

000060
Client No.

VBLK21

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

Lab File ID: K9473.MSQ Lab Sample ID: A5B0585103

Date Analyzed: 09/05/95 Time Analyzed: 17:03

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

Instrument ID: I50K

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

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 1 | Matrix Spike Blank | A5B0585101 | K9470.MSQ | 14:53 |
| 2 | Matrix Spike Blk Dup | A5B0585102 | K9471.MSQ | 15:21 |
| 3 | MW-546-01 | A5468111 | K9479.MSQ | 20:22 |
| 4 | MW-546-05 | A5468112 | K9480.MSQ | 20:55 |

Comments: _____

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

**000061**

Client No.

VBLK21

Lab Name: Recra Environmental  Contract: MQ772732MQ

Lab Code: RECNY  Case No.: 5324  SAS No.: _____  SDG No.: VER02C

Matrix: (soil/water) WATER  Lab Sample ID: A5B0585103

Sample wt/vol: 5.00 (g/mL) ML  Lab File ID: K9473.MSQ

Level: (low/med) LOW  Date Samp/Recv: _____ _____

% Moisture: not dec. _____  Heated Purge: N  Date Analyzed: 09/05/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.00

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 |
| -09-2 | METHYLENE CHLORIDE | 10 | U |
| -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 |
| 108-88-3 | TOLUENE | 10 | U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 10 | U |
| 8-90-7 | CHLOROBENZENE | 10 | U |
| 0-41-4 | ETHYLBENZENE | 10 | U |
| 100-42-5 | STYRENE | 10 | U |
| 1330-20-7 | XYLENE(TOTAL) | 10 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

000062

Client No.

VBLK21

Lab Name: Recra Environmental  Contract: MQ772732MQ

Lab Code: RECNY  Case No.: 5324  SAS No.: _____  SDG No.: VER02C

Matrix: (soil/water) WATER  Lab Sample ID: A5B0585103

Sample wt/vol: 5.00 (g/mL) ML  Lab File ID: K9473.MSQ

Level: (low/med) LOW  Date Samp/Recv: _____ _____

% Moisture: not dec. _____  Date Analyzed: 09/05/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.00

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

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

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| | | | | |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
METHOD BLANK SUMMARY

000063
Client No.

VBLK20

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

Lab File ID: H8059.MSQ Lab Sample ID: A5B0586002

Date Analyzed: 09/06/95 Time Analyzed: 10:30

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

Instrument ID: I50H

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

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 1 | DCR-VER-03 | A5468102 | H8062.MSQ | 12:04 |
| 2 | DCR-VER-13 | A5468107 | H8061.MSQ | 11:32 |
| 3 | DCR-VER-20 | A5468115 | H8060.MSQ | 11:01 |

Comments: _____

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

**000064**

Client No.

VBLK20

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

Matrix: (soil/water) SOIL Lab Sample ID: A5B0586002

Sample wt/vol: 5.00 (g/mL) G Lab File ID: H8059.MSQ

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: not dec. _____ Heated Purge: Y Date Analyzed: 09/06/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | 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 |
| 108-88-3 | TOLUENE | 10 | U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 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 |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS



Client No.

VBLK20

Lab Name: Recra Environmental Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

Matrix: (soil/water) SOIL Lab Sample ID: A5B0586002

Sample wt/vol: 5.00 (g/mL) G Lab File ID: H8059.MSQ

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: not dec. _____ Date Analyzed: 09/06/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

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

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN SILICON COMPOUND | 21.97 | 6 | J |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
METHOD BLANK SUMMARY

000066
Client No.

VBLK24

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

Lab File ID: K9516.MSQ Lab Sample ID: A5B0591502

Date Analyzed: 09/07/95 Time Analyzed: 00:09

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

Instrument ID: I50K

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

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 1 | DCR-VER-02 DL | A5468101DL | K9517.MSQ | 00:43 |
| 2 | DCR-VER-02 MSDL | A5468101B | K9519.MSQ | 01:49 |
| 3 | DCR-VER-02 MSL | A5468101A | K9518.MSQ | 01:16 |
| 4 | Matrix Spike Blank | A5B0591501 | K9515.MSQ | 23:09 |

Comments: _____

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

**000067**

Client No.

VBLK24

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

Matrix: (soil/water) SOIL Lab Sample ID: A5B0591502

Sample wt/vol: 4.00 (g/mL) G Lab File ID: K9516.MSQ

Level: (low/med) MED Date Samp/Recv: _____ _____

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 09/07/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100.00 (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 74-87-3 | CHLOROMETHANE | 1200 | U |
| 74-83-9 | BROMOMETHANE | 1200 | U |
| 75-01-4 | VINYL CHLORIDE | 1200 | U |
| [illegible]-00-3 | CHLOROETHANE | 1200 | U |
| [illegible]-09-2 | METHYLENE CHLORIDE | 1200 | U |
| 67-64-1 | ACETONE | 1200 | U |
| 75-15-0 | CARBON DISULFIDE | 1200 | U |
| 75-35-4 | 1,1-DICHLOROETHENE | 1200 | U |
| 75-34-3 | 1,1-DICHLOROETHANE | 1200 | U |
| 540-59-0 | 1,2-DICHLOROETHENE(TOTAL) | 1200 | U |
| 67-66-3 | CHLOROFORM | 1200 | U |
| 107-06-2 | 1,2-DICHLOROETHANE | 1200 | U |
| 78-93-3 | 2-BUTANONE | 1200 | U |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | 1200 | U |
| 56-23-5 | CARBON TETRACHLORIDE | 1200 | U |
| 75-27-4 | BROMODICHLOROMETHANE | 1200 | U |
| 78-87-5 | 1,2-DICHLOROPROPANE | 1200 | U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | 1200 | U |
| 79-01-6 | TRICHLOROETHENE | 1200 | U |
| 124-48-1 | DIBROMOCHLOROMETHANE | 1200 | U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | 1200 | U |
| 71-43-2 | BENZENE | 1200 | U |
| 10061-02-6 | Trans-1,3-DICHLOROPROPENE | 1200 | U |
| 75-25-2 | BROMOFORM | 1200 | U |
| 108-10-1 | 4-METHYL-2-PENTANONE | 1200 | U |
| 591-78-6 | 2-HEXANONE | 1200 | U |
| 127-18-4 | TETRACHLOROETHENE | 1200 | U |
| 108-88-3 | TOLUENE | 1200 | U |
| [illegible]9-34-5 | 1,1,2,2-TETRACHLOROETHANE | 1200 | U |
| [illegible]8-90-7 | CHLOROBENZENE | 1200 | U |
| [illegible]00-41-4 | ETHYLBENZENE | 1200 | U |
| 100-42-5 | STYRENE | 1200 | U |
| 1330-20-7 | XYLENE(TOTAL) | 1200 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

**000068**
Client No.

VBLK24

Lab Name: Recra Environmental  Contract: MQ772732MQ

Lab Code: RECNY  Case No.: 5324  SAS No.: _____  SDG No.: VER02C

Matrix: (soil/water) SOIL  Lab Sample ID: A5B0591502

Sample wt/vol: 4.00 (g/mL) G  Lab File ID: K9516.MSQ

Level: (low/med) MED  Date Samp/Recv: _____ _____

% Moisture: not dec. _____  Date Analyzed: 09/07/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.00

Soil Extract Volume: 10000 (uL)  Soil Aliquot Volume: 100.00 (uL)

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

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| | | | | |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

**000069**

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Labsampid: A5B0586005

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

Lab File ID (Standard): H8033.MSQ Date Analyzed: 09/05/95

Instrument ID: I50H Time Analyzed: 14:33

GC Column(1): DB-624 ID: 0.530 (mm) Heated Purge: (Y/N) Y

| | | IS1 (BCM) AREA | # | RT | # | IS2 (CBZ) AREA | # | RT | # | IS3 (DFB) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 39839 | | 9.30 | | 176919 | | 16.90 | | 184418 | | 11.78 | |
| | UPPER LIMIT | 79678 | | 9.80 | | 353838 | | 17.40 | | 368836 | | 12.28 | |
| | LOWER LIMIT | 19920 | | 8.80 | | 88460 | | 16.40 | | 92209 | | 11.28 | |
| | CLIENT SAMPLE | | | | | | | | | | | | |
| 1 | DCR-VER-02 | 22452 | | 9.33 | | 82284 | * | 16.93 | | 96419 | | 11.82 | |
| 2 | DCR-VER-02 MS | 21895 | | 9.30 | | 88294 | * | 16.90 | | 92422 | | 11.78 | |
| 3 | DCR-VER-02 MSD | 23898 | | 9.32 | | 92666 | | 16.92 | | 102281 | | 11.80 | |
| 4 | DCR-VER-04 | 25438 | | 9.35 | | 93968 | | 16.93 | | 112696 | | 11.82 | |
| | DCR-VER-06 | 24239 | | 9.33 | | 88663 | | 16.90 | | 103459 | | 11.78 | |
| 6 | DCR-VER-07 | 25405 | | 9.32 | | 96255 | | 16.92 | | 110759 | | 11.80 | |
| 7 | DCR-VER-12 | 28448 | | 9.33 | | 114782 | | 16.88 | | 126717 | | 11.78 | |
| 8 | DCR-VER-14 | 28816 | | 9.30 | | 98496 | | 16.88 | | 123040 | | 11.77 | |
| 9 | DCR-VER-17 | 25750 | | 9.32 | | 92265 | | 16.92 | | 112474 | | 11.78 | |
| 10 | DCR-VER-18 | 25459 | | 9.30 | | 96265 | | 16.92 | | 117413 | | 11.78 | |
| 11 | DCR-VER-19 | 24580 | | 9.28 | | 95810 | | 16.90 | | 112652 | | 11.78 | |
| 12 | DCR-VER-200 | 28332 | | 9.28 | | 102493 | | 16.90 | | 122549 | | 11.77 | |
| 13 | DCR-VER-21 | 26517 | | 9.30 | | 99323 | | 16.92 | | 120435 | | 11.78 | |
| 14 | DCR-VER-22 | 31083 | | 9.32 | | 127628 | | 16.93 | | 142193 | | 11.80 | |
| 15 | DCR-VER-23 | 31931 | | 9.32 | | 119372 | | 16.90 | | 143009 | | 11.78 | |
| 16 | DCR-VER-24 | 31843 | | 9.35 | | 133652 | | 16.92 | | 146056 | | 11.80 | |
| 17 | DCR-VER-25 | 32580 | | 9.32 | | 130421 | | 16.88 | | 148270 | | 11.78 | |
| 18 | Matrix Spike Blank | 39196 | | 9.33 | | 173332 | | 16.88 | | 184163 | | 11.78 | |
| 19 | VBLK19 | 36393 | | 9.35 | | 154488 | | 16.90 | | 172746 | | 11.80 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS1 (BCM) = BROMOCHLOROMETHANE | ( 50-200) | -0.50 / +0.50 min |
| IS2 (CBZ) = Chlorobenzene-D5 | ( 50-200) | -0.50 / +0.50 min |
| IS3 (DFB) = 1,4-Difluorobenzene | ( 50-200) | -0.50 / +0.50 min |

\# Column to be used to flag recovery values
* Values outside of contract required QC limits

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

000070

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Labsampid: A5B0586006

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

Lab File ID (Standard): H8057.MSQ Date Analyzed: 09/06/95

Instrument ID: I50H Time Analyzed: 09:05

GC Column(1): DB-624 ID: 0.530(mm) Heated Purge: (Y/N) Y

| | | IS1 (BCM) AREA | # | RT | # | IS2 (CBZ) AREA | # | RT | # | IS3 (DFB) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 27390 | | 9.32 | | 118099 | | 16.93 | | 121601 | | 11.80 | |
| | UPPER LIMIT | 54780 | | 9.82 | | 236198 | | 17.43 | | 243202 | | 12.30 | |
| | LOWER LIMIT | 13695 | | 8.82 | | 59050 | | 16.43 | | 60801 | | 11.30 | |
| | CLIENT SAMPLE | | | | | | | | | | | | |
| 1 | DCR-VER-03 | 21179 | | 9.27 | | 75772 | | 16.88 | | 89572 | | 11.75 | |
| 2 | DCR-VER-13 | 20843 | | 9.28 | | 77968 | | 16.88 | | 91579 | | 11.77 | |
| 3 | DCR-VER-20 | 25242 | | 9.28 | | 89683 | | 16.88 | | 115019 | | 11.77 | |
| 4 | VBLK20 | 26890 | | 9.33 | | 111209 | | 16.92 | | 122521 | | 11.78 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS1 (BCM) = BROMOCHLOROMETHANE | ( 50-200) | -0.50 / +0.50 min |
| IS2 (CBZ) = Chlorobenzene-D5 | ( 50-200) | -0.50 / +0.50 min |
| IS3 (DFB) = 1,4-Difluorobenzene | ( 50-200) | -0.50 / +0.50 min |

\# Column to be used to flag recovery values
* Values outside of contract required QC limits

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Labsampid: A5C0001198

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

Lab File ID (Standard): K9469.MSQ Date Analyzed: 09/05/95

Instrument ID: I50K Time Analyzed: 13:55

GC Column(1): DB-624 ID: 0.530(mm) Heated Purge: (Y/N) N

| | | IS1 (BCM) AREA | # | RT | # | IS2 (CBZ) AREA | # | RT | # | IS3 (DFB) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 31185 | | 10.90 | | 129040 | | 17.82 | | 127872 | | 12.98 | |
| | UPPER LIMIT | 62370 | | 11.40 | | 258080 | | 18.32 | | 255744 | | 13.48 | |
| | LOWER LIMIT | 15593 | | 10.40 | | 64520 | | 17.32 | | 63936 | | 12.48 | |
| | CLIENT SAMPLE | | | | | | | | | | | | |
| 1 | Matrix Spike Blank | 28587 | | 10.90 | | 114921 | | 17.80 | | 118693 | | 13.00 | |
| 2 | Matrix Spike Blk Dup | 25956 | | 10.90 | | 108260 | | 17.82 | | 106126 | | 13.00 | |
| 3 | MW-546-01 | 19172 | | 10.90 | | 83162 | | 17.83 | | 77219 | | 13.00 | |
| 4 | MW-546-05 | 18927 | | 10.92 | | 82513 | | 17.85 | | 77570 | | 13.02 | |
| | BLK21 | 21738 | | 10.93 | | 88081 | | 17.83 | | 88327 | | 13.02 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS1 (BCM) = BROMOCHLOROMETHANE | ( 50-200) | -0.50 / +0.50 min |
| IS2 (CBZ) = Chlorobenzene-D5 | ( 50-200) | -0.50 / +0.50 min |
| IS3 (DFB) = 1,4-Difluorobenzene | ( 50-200) | -0.50 / +0.50 min |

\# Column to be used to flag recovery values
* Values outside of contract required QC limits

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

000072

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Labsampid: A5C0001219

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER02C

Lab File ID (Standard): K9514.MSQ Date Analyzed: 09/06/95

Instrument ID: I50K Time Analyzed: 22:33

GC Column(1): DB-624 ID: 0.530(mm) Heated Purge: (Y/N) N

| | | IS1 (BCM) AREA | # | RT | # | IS2 (CBZ) AREA | # | RT | # | IS3 (DFB) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 29366 | | 10.90 | | 128162 | | 17.82 | | 116773 | | 13.00 | |
| | UPPER LIMIT | 58732 | | 11.40 | | 256324 | | 18.32 | | 233546 | | 13.50 | |
| | LOWER LIMIT | 14683 | | 10.40 | | 64081 | | 17.32 | | 58387 | | 12.50 | |
| | CLIENT SAMPLE | | | | | | | | | | | | |
| 1 | DCR-VER-02 DL | 28933 | | 10.92 | | 125000 | | 17.85 | | 120624 | | 13.03 | |
| 2 | DCR-VER-02 MSDDL | 31524 | | 10.92 | | 143424 | | 17.87 | | 131559 | | 13.02 | |
| 3 | DCR-VER-02 MSDL | 31051 | | 10.88 | | 144625 | | 17.82 | | 131018 | | 12.98 | |
| 4 | Matrix Spike Blank | 26262 | | 10.90 | | 117613 | | 17.82 | | 108902 | | 13.00 | |
| | VBLK24 | 23684 | | 10.93 | | 99312 | | 17.85 | | 94852 | | 13.03 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS1 (BCM) = BROMOCHLOROMETHANE | ( 50-200) | -0.50 / +0.50 min |
| IS2 (CBZ) = Chlorobenzene-D5 | ( 50-200) | -0.50 / +0.50 min |
| IS3 (DFB) = 1,4-Difluorobenzene | ( 50-200) | -0.50 / +0.50 min |

\# Column to be used to flag recovery values
* Values outside of contract required QC limits

# Sample ID Nos.:

Lab Report Dated:

October 2, 1995

DCR-VER-26
DCR-VER-27
DCR-VER-48
DCR-VER-49
DCR-VER-50
DCR-VER-201
MW-546-02
MW-546-03

**RECRA ENVIRONMENTAL INC.**

*Chemical and Environmental Analysis Services*

95DR1177F

October 2, 1995

Mr. Joseph Mihm
Camp, Dresser and McKee / Alcoa
Park Avenue East, Building 65
Massena, NY 13665

RE: **Analytical Results**

Dear Mr. Mihm:

Please find enclosed the data package concerning the analyses of samples recently submitted by your firm. The pertinent information regarding these analyses is listed below:

| | |
|---|---|
| Quote No.: | NY95-438 |
| REI: | 19 |
| SDG #: | VER26 |
| Matrix: | Soil & Water |
| Sample Receipt Date: | 09/02/95 |
| Sample Date: | 09/01/95 |

If you have any questions concerning these data, please contact Ms. Deborah A. Carella, Program Manager, at (800) 52R-ECRA and refer to the I.D. number listed below.

Sincerely,

RECRA ENVIRONMENTAL, INC.

K E Kasperek

Kenneth E. Kasperek
~~Laboratory~~ Manager

DAC/KEK/dms
Enclosure
cc: Frances Gero (cover letter only)
Aluminum Company of America
Mr. Bernard Kunkle (cover letter only)
Aluminum Company of America
Park Avenue East, BLDG. 65
Massena, NY 13665

Reviewed and approved by/date: 10/2/95

Deborah A. Carella

Deborah A. Carella, Program Manager

ID #A95-4682
#NY5A5754

Mihm LTR
Schultz
Schreiber
Occhialini Surr
Anderson

SAMPLE DATA SUMMARY PACKAGE

RECRA
ENVIRONMENTAL
INC.

SDG NARRATIVE:

Laboratory: Recra Environmental, Inc.

Laboratory Code: RECNY

Contract No.: NY95-438

SDG No.: VER26

Sample Identifications:
DCR-VER-201
DCR-VER-26
DCR-VER-26 MATRIX SPIKE
DCR-VER-26 MATRIX SPIKE DUPLICATE
DCR-VER-27
DCR-VER-48
DCR-VER-49
DCR-VER-50
MW-546-02
MW-546-03

METHODOLOGY

Analyses were performed in accordance with 1991 New York State Analytical Services protocol. (Revised 1993)

COMMENTS

Results are reported using standard qualifiers (Q) as defined on the Organic Data Comment Page.

Preliminary results were sent on September 7, 1995 via facsimile to Ms. Julie Schreiber of Camp, Dresser and McKee by Ms. Deborah Carella of Recra Environmental.

Quality Control analysis was performed on a batch basis for water samples. All results were within acceptable limits.

The PAH and PCB data for these samples are submitted under a separate SDG number.

VOLATILE DATA

Volatile sample and standard areas are listed on the corresponding data system printouts.

Volatile data was processed utilizing Finnigan DataPro Autoquantitation and Recra Environmental's Inc.'s Analytical Information Management Systems (AIMS). All compounds determined to be present by the computer-generated autoquantitation were subjected to a manual ion search for secondary and tertiary ions. False positive compounds are crossed out, initialed and dated in this data package.

Ortho-Xylene and meta & para-Xylene elute separately on a capillary column. They are reported in this data package as Total Xylenes. The concentration is calculated by adding the areas of ortho-Xylene and meta & para-Xylene and using only the response factor form ortho-Xylene to calculate the nanogram amount.

Sample DCR-VER-27 required a dilution of five (5) due to the high concentration of 1,2-Dichloroethene (Total).

Samples DCR-VER-26MS and DCR-VER-26MSD exhibit the relative percent difference of 1,1-Dichloroethene as above QC limits.

Samples MW-546-02 and MW-546-03 both exhibit a pH of approximately 6-8.

"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 his designee, as verified by the following signature."

K E Kasperek

Kenneth E. Kasperek
Laboratory Director

10/2/95

Date

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION
AND
ANALYTICAL REQUEST SUMMARY

LAB NAME: RECRA ENVIRONMENTAL, INC.

| CUSTOMER SAMPLE ID | LABORATORY SAMPLE ID | ANALYTICAL REQUIREMENTS | | | | | |
|---|---|---|---|---|---|---|---|
| | | VOA GC/MS | BNA GC/MS | VOA GC | PEST PCB | METALS | OTHER |
| DCR-VER-201 | A5468203 | ASP91 | - | - | - | - | - |
| DCR-VER-26 | A5468201 | ASP91 | - | - | - | - | - |
| DCR-VER-27 | A5468202 | ASP91 | - | - | - | - | - |
| DCR-VER-48 | A5468207 | ASP91 | - | - | - | - | - |
| DCR-VER-49 | A5468208 | ASP91 | - | - | - | - | - |
| DCR-VER-50 | A5468204 | ASP91 | - | - | - | - | - |
| MW-546-02 | A5468205 | ASP91 | - | - | - | - | - |
| MW-546-03 | A5468206 | ASP91 | - | - | - | - | - |

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOLATILE ANALYSIS

LAB NAME: RECRA ENVIRONMENTAL, INC.

| SAMPLE IDENTIFICATION | MATRIX | DATE COLLECTED | DATE RECEIVED AT LAB | DATE EXTRACTED | DATE ANALYZED |
|---|---|---|---|---|---|
| DCR-VER-201 | SOIL | 09/01/95 | 09/02/95 | - | 09/05/95 |
| DCR-VER-26 | SOIL | 09/01/95 | 09/02/95 | - | 09/06/95 |
| DCR-VER-27 | SOIL | 09/01/95 | 09/02/95 | - | 09/05/95 |
| DCR-VER-48 | SOIL | 09/01/95 | 09/02/95 | - | 09/05/95 |
| DCR-VER-49 | SOIL | 09/01/95 | 09/02/95 | - | 09/05/95 |
| DCR-VER-50 | SOIL | 09/01/95 | 09/02/95 | - | 09/05/95 |
| MW-546-02 | WATER | 09/01/95 | 09/02/95 | - | 09/05/95 |
| MW-546-03 | WATER | 09/01/95 | 09/02/95 | - | 09/05/95 |

# ORGANIC DATA COMMENT PAGE

Laboratory Name RECRA ENVIRONMENTAL, INC.

USEPA Defined Organic Data Qualifiers:

U - Indicates compound was analyzed for but not detected.

J - Indicates an estimate value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.

C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

G - The TCLP Matrix Spike recovery was greater than the upper limit of the analytical method.

L - The TCLP Matrix Spike recovery was lower than the lower limit of the analytical method.

T - This flag is used when the analyte is found in the associated TCLP extraction as well as in the sample.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results.

P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a "P".

A - This flag indicates that a TIC is a suspected aldol-condensation product.

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
ORGANIC ANALYSIS

LAB NAME: RECRA ENVIRONMENTAL, INC.

| SAMPLE IDENTIFICATION | MATRIX | ANALYTICAL PROTOCOL | EXTRACTION METHOD | AUXILARY CLEAN UP | DIL/CONC FACTOR |
|---|---|---|---|---|---|
| DCR-VER-201 | SOIL | ASP91 | - | AS REQUIRED | AS REQUIRED |
| DCR-VER-26 | SOIL | ASP91 | - | AS REQUIRED | AS REQUIRED |
| DCR-VER-27 | SOIL | ASP91 | - | AS REQUIRED | AS REQUIRED |
| DCR-VER-27DL | SOIL | ASP91 | - | AS REQUIRED | AS REQUIRED |
| DCR-VER-48 | SOIL | ASP91 | - | AS REQUIRED | AS REQUIRED |
| DCR-VER-49 | SOIL | ASP91 | - | AS REQUIRED | AS REQUIRED |
| DCR-VER-50 | SOIL | ASP91 | - | AS REQUIRED | AS REQUIRED |
| MW-546-02 | WATER | ASP91 | - | AS REQUIRED | AS REQUIRED |
| MW-546-03 | WATER | ASP91 | - | AS REQUIRED | AS REQUIRED |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

000008
Client No.

DCR-VER-26

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER26

Matrix: (soil/water) SOIL Lab Sample ID: A5468201

Sample wt/vol: 5.04 (g/mL) G Lab File ID: G3347.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. 6.6 Heated Purge: Y Date Analyzed: 09/06/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

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

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 74-87-3 | CHLOROMETHANE | 11 | U |
| 74-83-9 | BROMOMETHANE | 11 | U |
| 75-01-4 | VINYL CHLORIDE | 11 | U |
| -00-3 | CHLOROETHANE | 1 | J |
| -09-2 | METHYLENE CHLORIDE | 11 | U |
| 67-64-1 | ACETONE | 11 | U |
| 75-15-0 | CARBON DISULFIDE | 11 | U |
| 75-35-4 | 1,1-DICHLOROETHENE | 11 | U |
| 75-34-3 | 1,1-DICHLOROETHANE | 1 | J |
| 540-59-0 | 1,2-DICHLOROETHENE (TOTAL) | 11 | U |
| 67-66-3 | CHLOROFORM | 11 | U |
| 107-06-2 | 1,2-DICHLOROETHANE | 11 | U |
| 78-93-3 | 2-BUTANONE | 11 | U |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | 11 | U |
| 56-23-5 | CARBON TETRACHLORIDE | 11 | U |
| 75-27-4 | BROMODICHLOROMETHANE | 11 | U |
| 78-87-5 | 1,2-DICHLOROPROPANE | 11 | U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | 11 | U |
| 79-01-6 | TRICHLOROETHENE | 11 | U |
| 124-48-1 | DIBROMOCHLOROMETHANE | 11 | U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | 11 | U |
| 71-43-2 | BENZENE | 11 | U |
| 10061-02-6 | Trans-1,3-DICHLOROPROPENE | 11 | U |
| 75-25-2 | BROMOFORM | 11 | U |
| 108-10-1 | 4-METHYL-2-PENTANONE | 11 | U |
| 591-78-6 | 2-HEXANONE | 11 | U |
| 127-18-4 | TETRACHLOROETHENE | 2 | J |
| 108-88-3 | TOLUENE | 11 | U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 11 | U |
| 08-90-7 | CHLOROBENZENE | 11 | U |
| 100-41-4 | ETHYLBENZENE | 11 | U |
| 100-42-5 | STYRENE | 11 | U |
| 1330-20-7 | XYLENE (TOTAL) | 11 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

000009

Client No.

DCR-VER-26

Lab Name: Recra Environmental  Contract: MQ772732MQ

Lab Code: RECNY  Case No.: 5324  SAS No.: _____  SDG No.: VER26

Matrix: (soil/water) SOIL  Lab Sample ID: A5468201

Sample wt/vol: 5.04 (g/mL) G  Lab File ID: G3347.MSQ

Level: (low/med) LOW  Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. 6.6  Date Analyzed: 09/06/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.00

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

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

Number TICs found: 1

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN SILICON COMPOUND | 22.90 | 8 | J |

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ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

000010
Client No.

DCR-VER-27

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER26

Matrix: (soil/water) SOIL Lab Sample ID: A5468202

Sample wt/vol: 5.00 (g/mL) G Lab File ID: G3338.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. 10.6 Heated Purge: Y Date Analyzed: 09/05/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

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

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 74-87-3 | CHLOROMETHANE | 11 | U |
| 74-83-9 | BROMOMETHANE | 11 | U |
| 75-01-4 | VINYL CHLORIDE | 11 | U |
| 00-3 | CHLOROETHANE | 6 | J |
| -09-2 | METHYLENE CHLORIDE | 2 | BJ |
| 67-64-1 | ACETONE | 11 | U |
| 75-15-0 | CARBON DISULFIDE | 3 | J |
| 75-35-4 | 1,1-DICHLOROETHENE | 11 | U |
| 75-34-3 | 1,1-DICHLOROETHANE | 53 | |
| 540-59-0 | 1,2-DICHLOROETHENE(TOTAL) | 450 | E |
| 67-66-3 | CHLOROFORM | 11 | U |
| 107-06-2 | 1,2-DICHLOROETHANE | 2 | J |
| 78-93-3 | 2-BUTANONE | 11 | U |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | 58 | |
| 56-23-5 | CARBON TETRACHLORIDE | 11 | U |
| 75-27-4 | BROMODICHLOROMETHANE | 11 | U |
| 78-87-5 | 1,2-DICHLOROPROPANE | 11 | U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | 11 | U |
| 79-01-6 | TRICHLOROETHENE | 80 | |
| 124-48-1 | DIBROMOCHLOROMETHANE | 11 | U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | 2 | J |
| 71-43-2 | BENZENE | 11 | U |
| 10061-02-6 | Trans-1,3-DICHLOROPROPENE | 11 | U |
| 75-25-2 | BROMOFORM | 11 | U |
| 108-10-1 | 4-METHYL-2-PENTANONE | 11 | U |
| 591-78-6 | 2-HEXANONE | 11 | U |
| 127-18-4 | TETRACHLOROETHENE | 11 | U |
| 108-88-3 | TOLUENE | 9 | J |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 11 | U |
| 08-90-7 | CHLOROBENZENE | 11 | U |
| 00-41-4 | ETHYLBENZENE | 11 | U |
| 100-42-5 | STYRENE | 11 | U |
| 1330-20-7 | XYLENE(TOTAL) | 11 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

000011
Client No.

DCR-VER-27

Lab Name: Recra Environmental  Contract: MQ772732MQ

Lab Code: RECNY  Case No.: 5324  SAS No.: _____  SDG No.: VER26

Matrix: (soil/water) SOIL  Lab Sample ID: A5468202

Sample wt/vol: 5.00 (g/mL) G  Lab File ID: G3338.MSQ

Level: (low/med) LOW  Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. 10.6  Date Analyzed: 09/05/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.00

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

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

Number TICs found: 1

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 16.27 | 8 | J |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

000012

Client No.

DCR-VER-27DL

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER26

Matrix: (soil/water) SOIL Lab Sample ID: A5468202DL

Sample wt/vol: 1.10 (g/mL) G Lab File ID: G3346.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. 10.6 Heated Purge: Y Date Analyzed: 09/06/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

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

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 74-87-3 | CHLOROMETHANE | 51 | U |
| 74-83-9 | BROMOMETHANE | 51 | U |
| 75-01-4 | VINYL CHLORIDE | 51 | U |
| [illegible]00-3 | CHLOROETHANE | 3 | DJ |
| [illegible]-09-2 | METHYLENE CHLORIDE | 51 | U |
| 67-64-1 | ACETONE | 51 | U |
| 75-15-0 | CARBON DISULFIDE | 51 | U |
| 75-35-4 | 1,1-DICHLOROETHENE | 28 | DJ |
| 75-34-3 | 1,1-DICHLOROETHANE | 350 | D |
| 540-59-0 | 1,2-DICHLOROETHENE(TOTAL) | 51 | U |
| 67-66-3 | CHLOROFORM | 51 | U |
| 107-06-2 | 1,2-DICHLOROETHANE | 51 | U |
| 78-93-3 | 2-BUTANONE | 36 | DJ |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | 51 | U |
| 56-23-5 | CARBON TETRACHLORIDE | 51 | U |
| 75-27-4 | BROMODICHLOROMETHANE | 51 | U |
| 78-87-5 | 1,2-DICHLOROPROPANE | 51 | U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | 83 | D |
| 79-01-6 | TRICHLOROETHENE | 51 | U |
| 124-48-1 | DIBROMOCHLOROMETHANE | 51 | U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | 51 | U |
| 71-43-2 | BENZENE | 51 | U |
| 10061-02-6 | Trans-1,3-DICHLOROPROPENE | 51 | U |
| 75-25-2 | BROMOFORM | 51 | U |
| 108-10-1 | 4-METHYL-2-PENTANONE | 51 | U |
| 591-78-6 | 2-HEXANONE | 51 | U |
| 127-18-4 | TETRACHLOROETHENE | 15 | DJ |
| 108-88-3 | TOLUENE | 51 | U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 51 | U |
| [illegible]08-90-7 | CHLOROBENZENE | 51 | U |
| [illegible]00-41-4 | ETHYLBENZENE | 51 | U |
| 100-42-5 | STYRENE | 51 | U |
| 1330-20-7 | XYLENE(TOTAL) | 51 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

000013
Client No.

DCR-VER-27DL

Lab Name: Recra Environmental  Contract: MQ772732MQ

Lab Code: RECNY  Case No.: 5324  SAS No.: _____  SDG No.: VER26

Matrix: (soil/water) SOIL  Lab Sample ID: A5468202DL

Sample wt/vol: 1.10 (g/mL) G  Lab File ID: G3346.MSQ

Level: (low/med) LOW  Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. 10.6  Date Analyzed: 09/06/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.00

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

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

Number TICs found: 0

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| | | | | |

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ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

**000014**

Client No.

DCR-VER-48

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER26

Matrix: (soil/water) SOIL Lab Sample ID: A5468207

Sample wt/vol: 5.06 (g/mL) G Lab File ID: G3335.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. 15.3 Heated Purge: Y Date Analyzed: 09/05/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 74-87-3 | CHLOROMETHANE | 12 | U |
| 74-83-9 | BROMOMETHANE | 12 | U |
| 75-01-4 | VINYL CHLORIDE | 12 | U |
| -00-3 | CHLOROETHANE | 12 | U |
| -09-2 | METHYLENE CHLORIDE | 1 | BJ |
| 67-64-1 | ACETONE | 12 | U |
| 75-15-0 | CARBON DISULFIDE | 12 | U |
| 75-35-4 | 1,1-DICHLOROETHENE | 12 | U |
| 75-34-3 | 1,1-DICHLOROETHANE | 12 | U |
| 540-59-0 | 1,2-DICHLOROETHENE(TOTAL) | 12 | U |
| 67-66-3 | CHLOROFORM | 12 | U |
| 107-06-2 | 1,2-DICHLOROETHANE | 12 | U |
| 78-93-3 | 2-BUTANONE | 12 | U |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | 12 | U |
| 56-23-5 | CARBON TETRACHLORIDE | 12 | U |
| 75-27-4 | BROMODICHLOROMETHANE | 12 | U |
| 78-87-5 | 1,2-DICHLOROPROPANE | 12 | U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | 12 | U |
| 79-01-6 | TRICHLOROETHENE | 12 | U |
| 124-48-1 | DIBROMOCHLOROMETHANE | 12 | U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | 12 | U |
| 71-43-2 | BENZENE | 12 | U |
| 10061-02-6 | Trans-1,3-DICHLOROPROPENE | 12 | U |
| 75-25-2 | BROMOFORM | 12 | U |
| 108-10-1 | 4-METHYL-2-PENTANONE | 12 | U |
| 591-78-6 | 2-HEXANONE | 12 | U |
| 127-18-4 | TETRACHLOROETHENE | 1 | J |
| 108-88-3 | TOLUENE | 12 | U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 12 | U |
| 08-90-7 | CHLOROBENZENE | 12 | U |
| 100-41-4 | ETHYLBENZENE | 12 | U |
| 100-42-5 | STYRENE | 12 | U |
| 1330-20-7 | XYLENE(TOTAL) | 12 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

**000015**
Client No.

DCR-VER-48

Lab Name: Recra Environmental  Contract: MQ772732MQ

Lab Code: RECNY  Case No.: 5324  SAS No.: _____  SDG No.: VER26

Matrix: (soil/water) SOIL  Lab Sample ID: A5468207

Sample wt/vol: 5.06 (g/mL) G  Lab File ID: G3335.MSQ

Level: (low/med) LOW  Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. 15.3  Date Analyzed: 09/05/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.00

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

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

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| | | | | |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

**000016**

Client No.

DCR-VER-49

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER26

Matrix: (soil/water) SOIL Lab Sample ID: A5468208

Sample wt/vol: 5.06 (g/mL) G Lab File ID: G3334.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. 8.4 Heated Purge: Y Date Analyzed: 09/05/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 74-87-3 | CHLOROMETHANE | 11 | U |
| 74-83-9 | BROMOMETHANE | 11 | U |
| 75-01-4 | VINYL CHLORIDE | 11 | U |
| 75-00-3 | CHLOROETHANE | 11 | U |
| -09-2 | METHYLENE CHLORIDE | 2 | BJ |
| -64-1 | ACETONE | 11 | U |
| 75-15-0 | CARBON DISULFIDE | 11 | U |
| 75-35-4 | 1,1-DICHLOROETHENE | 11 | U |
| 75-34-3 | 1,1-DICHLOROETHANE | 11 | U |
| 540-59-0 | 1,2-DICHLOROETHENE(TOTAL) | 1 | J |
| 67-66-3 | CHLOROFORM | 11 | U |
| 107-06-2 | 1,2-DICHLOROETHANE | 11 | U |
| 78-93-3 | 2-BUTANONE | 47 | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | 11 | U |
| 56-23-5 | CARBON TETRACHLORIDE | 11 | U |
| 75-27-4 | BROMODICHLOROMETHANE | 11 | U |
| 78-87-5 | 1,2-DICHLOROPROPANE | 11 | U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | 11 | U |
| 79-01-6 | TRICHLOROETHENE | 11 | U |
| 124-48-1 | DIBROMOCHLOROMETHANE | 11 | U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | 11 | U |
| 71-43-2 | BENZENE | 11 | U |
| 10061-02-6 | Trans-1,3-DICHLOROPROPENE | 11 | U |
| 75-25-2 | BROMOFORM | 11 | U |
| 108-10-1 | 4-METHYL-2-PENTANONE | 11 | U |
| 591-78-6 | 2-HEXANONE | 11 | U |
| 127-18-4 | TETRACHLOROETHENE | 3 | J |
| 108-88-3 | TOLUENE | 11 | U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 11 | U |
| 08-90-7 | CHLOROBENZENE | 11 | U |
| 0-41-4 | ETHYLBENZENE | 5 | J |
| 100-42-5 | STYRENE | 11 | U |
| 1330-20-7 | XYLENE(TOTAL) | | |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

000017
Client No.

DCR-VER-49

Lab Name: Recra Environmental  Contract: MQ772732MQ

Lab Code: RECNY  Case No.: 5324  SAS No.: _____  SDG No.: VER26

Matrix: (soil/water) SOIL  Lab Sample ID: A5468208

Sample wt/vol: 5.06 (g/mL) G  Lab File ID: G3334.MSQ

Level: (low/med) LOW  Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. 8.4  Date Analyzed: 09/05/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.00

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

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

Number TICs found: 2

| | CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|---|
| 1. | | UNKNOWN | 5.42 | 10 | J |
| 2. | | UNKNOWN | 22.47 | 10 | J |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

**000018**

Client No.

DCR-VER-50

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER26

Matrix: (soil/water) SOIL Lab Sample ID: A5468204

Sample wt/vol: 5.00 (g/mL) G Lab File ID: G3336.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. 10.7 Heated Purge: Y Date Analyzed: 09/05/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

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

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 74-87-3 | CHLOROMETHANE | 11 | U |
| 74-83-9 | BROMOMETHANE | 11 | U |
| 75-01-4 | VINYL CHLORIDE | 11 | U |
| 75-00-3 | CHLOROETHANE | 38 | |
| 75-09-2 | METHYLENE CHLORIDE | 1 | BJ |
| 67-64-1 | ACETONE | 11 | U |
| 75-15-0 | CARBON DISULFIDE | 11 | U |
| 75-35-4 | 1,1-DICHLOROETHENE | 11 | U |
| 75-34-3 | 1,1-DICHLOROETHANE | 11 | U |
| 540-59-0 | 1,2-DICHLOROETHENE(TOTAL) | 11 | U |
| 67-66-3 | CHLOROFORM | 11 | U |
| 107-06-2 | 1,2-DICHLOROETHANE | 11 | U |
| 78-93-3 | 2-BUTANONE | 1 | J |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | 11 | U |
| 56-23-5 | CARBON TETRACHLORIDE | 11 | U |
| 75-27-4 | BROMODICHLOROMETHANE | 11 | U |
| 78-87-5 | 1,2-DICHLOROPROPANE | 11 | U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | 11 | U |
| 79-01-6 | TRICHLOROETHENE | 11 | U |
| 124-48-1 | DIBROMOCHLOROMETHANE | 11 | U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | 11 | U |
| 71-43-2 | BENZENE | 11 | U |
| 10061-02-6 | Trans-1,3-DICHLOROPROPENE | 11 | U |
| 75-25-2 | BROMOFORM | 11 | U |
| 108-10-1 | 4-METHYL-2-PENTANONE | 11 | U |
| 591-78-6 | 2-HEXANONE | 11 | U |
| 127-18-4 | TETRACHLOROETHENE | 2 | J |
| 108-88-3 | TOLUENE | 11 | U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 11 | U |
| 108-90-7 | CHLOROBENZENE | 11 | U |
| 100-41-4 | ETHYLBENZENE | 11 | U |
| 100-42-5 | STYRENE | 11 | U |
| 1330-20-7 | XYLENE(TOTAL) | | |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

**000019**
Client No.

DCR-VER-50

Lab Name: Recra Environmental  Contract: MQ772732MQ

Lab Code: RECNY  Case No.: 5324  SAS No.: _____  SDG No.: VER26

Matrix: (soil/water) SOIL  Lab Sample ID: A5468204

Sample wt/vol: 5.00 (g/mL) G  Lab File ID: G3336.MSQ

Level: (low/med) LOW  Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. 10.7  Date Analyzed: 09/05/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.00

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

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

Number TICs found: 0

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| | | | | |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

000020

Client No.

DCR-VER-201

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER26

Matrix: (soil/water) SOIL Lab Sample ID: A5468203

Sample wt/vol: 5.04 (g/mL) G Lab File ID: G3337.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. 11.3 Heated Purge: Y Date Analyzed: 09/05/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

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

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 74-87-3 | CHLOROMETHANE | 11 | U |
| 74-83-9 | BROMOMETHANE | 11 | U |
| 75-01-4 | VINYL CHLORIDE | 11 | U |
| -00-3 | CHLOROETHANE | 11 | U |
| 75-09-2 | METHYLENE CHLORIDE | 0.8 | BJ |
| 67-64-1 | ACETONE | 11 | U |
| 75-15-0 | CARBON DISULFIDE | 11 | U |
| 75-35-4 | 1,1-DICHLOROETHENE | 11 | U |
| 75-34-3 | 1,1-DICHLOROETHANE | 11 | U |
| 540-59-0 | 1,2-DICHLOROETHENE(TOTAL) | 11 | U |
| 67-66-3 | CHLOROFORM | 11 | U |
| 107-06-2 | 1,2-DICHLOROETHANE | 11 | U |
| 78-93-3 | 2-BUTANONE | 11 | U |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | 11 | U |
| 56-23-5 | CARBON TETRACHLORIDE | 11 | U |
| 75-27-4 | BROMODICHLOROMETHANE | 11 | U |
| 78-87-5 | 1,2-DICHLOROPROPANE | 11 | U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | 11 | U |
| 79-01-6 | TRICHLOROETHENE | 11 | U |
| 124-48-1 | DIBROMOCHLOROMETHANE | 11 | U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | 11 | U |
| 71-43-2 | BENZENE | 11 | U |
| 10061-02-6 | Trans-1,3-DICHLOROPROPENE | 11 | U |
| 75-25-2 | BROMOFORM | 11 | U |
| 108-10-1 | 4-METHYL-2-PENTANONE | 11 | U |
| 591-78-6 | 2-HEXANONE | 11 | U |
| 127-18-4 | TETRACHLOROETHENE | 11 | U |
| 108-88-3 | TOLUENE | 11 | U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 11 | U |
| 08-90-7 | CHLOROBENZENE | 11 | U |
| 100-41-4 | ETHYLBENZENE | 11 | U |
| 100-42-5 | STYRENE | 11 | U |
| 1330-20-7 | XYLENE(TOTAL) | 11 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

**000021**
Client No.

DCR-VER-201

Lab Name: Recra Environmental  Contract: MQ772732MQ

Lab Code: RECNY  Case No.: 5324  SAS No.: _____  SDG No.: VER26

Matrix: (soil/water) SOIL  Lab Sample ID: A5468203

Sample wt/vol: 5.04 (g/mL) G  Lab File ID: G3337.MSQ

Level: (low/med) LOW  Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. 11.3  Date Analyzed: 09/05/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.00

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

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

Number TICs found: 0

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| | | | | |

000022

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

Client No.: MW-546-02

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER26

Matrix: (soil/water) WATER Lab Sample ID: A5468205

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: K9481.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 09/05/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

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

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 74-87-3 | CHLOROMETHANE | 10 | U |
| 74-83-9 | BROMOMETHANE | 10 | U |
| 75-01-4 | VINYL CHLORIDE | 10 | U |
| [illegible]-00-3 | CHLOROETHANE | 10 | U |
| -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 |
| 108-88-3 | TOLUENE | 10 | U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 10 | U |
| [illegible]08-90-7 | CHLOROBENZENE | 10 | U |
| [illegible]00-41-4 | ETHYLBENZENE | 10 | U |
| 100-42-5 | STYRENE | 10 | U |
| 1330-20-7 | XYLENE (TOTAL) | 10 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

000023

Client No.

MW-546-02

Lab Name: Recra Environmental  Contract: MQ772732MQ

Lab Code: RECNY  Case No.: 5324  SAS No.: _____  SDG No.: VER26

Matrix: (soil/water) WATER  Lab Sample ID: A5468205

Sample wt/vol: 5.00 (g/mL) ML  Lab File ID: K9481.MSQ

Level: (low/med) LOW  Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. _____  Date Analyzed: 09/05/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.00

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

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

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| | | | | |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

000024

Client No.: MW-546-03

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER26

Matrix: (soil/water) WATER Lab Sample ID: A5468206

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: K9482.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 09/05/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

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

| CAS NO. | COMPOUND | | 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 |
| 108-88-3 | TOLUENE | 10 | U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 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 |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.: MW-546-03

Lab Name: Recra Environmental  Contract: MQ772732MQ

Lab Code: RECNY  Case No.: 5324  SAS No.: _____  SDG No.: VER26

Matrix: (soil/water) WATER  Lab Sample ID: A5468206

Sample wt/vol: 5.00 (g/mL) ML  Lab File ID: K9482.MSQ

Level: (low/med) LOW  Date Samp/Recv: 09/01/95 09/02/95

% Moisture: not dec. _____  Date Analyzed: 09/05/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.00

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

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

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| | | | | |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
WATER SURROGATE RECOVERY



Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER26

| | Client Sample ID | BFB %REC | # | DCE %REC | # | TOL %REC | # | ======= | ======= | ======= | ======= | ======= | TOT OUT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Matrix Spike Blank | 98 | | 94 | | 98 | | | | | | | 0 |
| 2 | Matrix Spike Blk Dup | 96 | | 91 | | 94 | | | | | | | 0 |
| 3 | MW-546-02 | 100 | | 89 | | 93 | | | | | | | 0 |
| 4 | MW-546-03 | 100 | | 88 | | 93 | | | | | | | 0 |
| 5 | VBLK21 | 103 | | 93 | | 97 | | | | | | | 0 |

QC LIMITS

BFB = p-Bromofluorobenzene ( 86-115)
DCE = 1,2-Dichloroethane-D4 ( 76-114)
TOL = Toluene-D8 ( 88-110)

# Column to be used to flag recovery values
Values outside of contract required QC limits
⌣ Surrogates diluted out

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
SOIL SURROGATE RECOVERY

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER26

Level (low/med): LOW

| | Client Sample ID | BFB %REC | # | DCE %REC | # | TOL %REC | # | | | | | | TOT OUT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ========== | ======= | | ======= | | ======= | | ======= | ======= | ======= | ======= | ======= | === |
| | | | | | | | | | | | | | 0 |
| 1 | DCR-VER-201 | 90 | | 106 | | 109 | | | | | | | 0 |
| 2 | DCR-VER-26 | 95 | | 92 | | 109 | | | | | | | 0 |
| 3 | DCR-VER-26 MS | 88 | | 84 | | 106 | | | | | | | 0 |
| 4 | DCR-VER-26 MSD | 91 | | 106 | | 105 | | | | | | | 0 |
| 5 | DCR-VER-27 | 85 | | 107 | | 111 | | | | | | | 0 |
| 6 | DCR-VER-27DL | 93 | | 84 | | 108 | | | | | | | 0 |
| 7 | DCR-VER-48 | 97 | | 110 | | 104 | | | | | | | 0 |
| 8 | DCR-VER-49 | 90 | | 106 | | 110 | | | | | | | 0 |
| 9 | DCR-VER-50 | 93 | | 108 | | 107 | | | | | | | 0 |
| 10 | Matrix Spike Blank | 94 | | 106 | | 101 | | | | | | | 0 |
| 11 | VBLK61 | 102 | | 83 | | 101 | | | | | | | 0 |
| 12 | VBLK62 | 97 | | 83 | | 104 | | | | | | | 0 |

QC LIMITS

( 59-113)
( 70-121)
( 84-138)

BFB = p-Bromofluorobenzene
DCE = 1,2-Dichloroethane-D4
TOL = Toluene-D8

\# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
WATER MATRIX SPIKE BLANK/MATRIX SPIKE BLANK DUPLICATE RECOVERY

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Lab Samp ID: A5B0585103

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER26

Matrix Spike - Client Sample No.: ~~VBLK21~~ MSB/MSBD 9/30/95 dmo

| COMPOUND | SPIKE ADDED UG/L | MSB CONCENTRATION UG/L | MSB % REC # | QC LIMITS REC. |
|---|---|---|---|---|
| 1,1-Dichloroethene | 50 | 57 | 114 | 61 - 145 |
| Trichloroethene | 50 | 50 | 100 | 71 - 120 |
| Benzene | 50 | 48 | 96 | 76 - 127 |
| Toluene | 50 | 49 | 98 | 76 - 125 |
| Chlorobenzene | 50 | 52 | 104 | 75 - 130 |

| COMPOUND | SPIKE ADDED UG/L | MSBD CONCENTRATION UG/L | MSBD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 50 | 58 | 116 | 2 | 14 | 61 - 145 |
| Trichloroethene | 50 | 52 | 104 | 4 | 14 | 71 - 120 |
| Benzene | 50 | 51 | 102 | 6 | 11 | 76 - 127 |
| Toluene | 50 | 48 | 96 | 2 | 13 | 76 - 125 |
| Chlorobenzene | 50 | 52 | 104 | 0 | 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: _____

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
SOIL MATRIX SPIKE BLANK RECOVERY

000029

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Lab Samp ID: A5B0586102

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER26

Matrix Spike - Client Sample No.: ~~VBLK62~~ MSB 9/30/95 dmo Level: (low/med) LOW

| COMPOUND | SPIKE ADDED UG/KG | MSB CONCENTRATION UG/KG | MSB % REC # | QC LIMITS REC. |
|---|---|---|---|---|
| 1,1-Dichloroethene | 50 | 56 | 112 | 59 - 172 |
| Trichloroethene | 50 | 44 | 88 | 62 - 137 |
| Benzene | 50 | 49 | 98 | 66 - 142 |
| Toluene | 50 | 49 | 98 | 59 - 139 |
| Chlorobenzene | 50 | 52 | 104 | 60 - 133 |

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

* Values outside of QC limits

Spike recovery: 0 out of 5 outside limits

Comments: _____

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
SOIL MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Lab Samp ID: A5468201

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER26

Matrix Spike - Client Sample No.: DCR-VER-26 Level: (low/med) LOW

| COMPOUND | SPIKE ADDED UG/KG | SAMPLE CONCENTRATION UG/KG | MS CONCENTRATION UG/KG | MS % REC # | QC LIMITS REC. |
|---|---|---|---|---|---|
| 1,1-Dichloroethene | 53 | 0 | 45 | 85 | 59 - 172 |
| Trichloroethene | 53 | 0 | 43 | 81 | 62 - 137 |
| Benzene | 53 | 0 | 52 | 98 | 66 - 142 |
| Toluene | 53 | 2 | 55 | 100 | 59 - 139 |
| Chlorobenzene | 53 | 0 | 55 | 104 | 60 - 133 |

| COMPOUND | SPIKE ADDED UG/KG | MSD CONCENTRATION UG/KG | MSD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 53 | 60 | 113 | 28 * | 22 | 59 - 172 |
| Trichloroethene | 53 | 46 | 87 | 7 | 24 | 62 - 137 |
| Benzene | 53 | 54 | 102 | 4 | 21 | 66 - 142 |
| Toluene | 53 | 56 | 102 | 2 | 21 | 59 - 139 |
| Chlorobenzene | 53 | 57 | 108 | 4 | 21 | 60 - 133 |

# 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: _____

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
METHOD BLANK SUMMARY

000031

Client No.

VBLK61

ab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER26

ab File ID: G3326.MSQ Lab Sample ID: A5B0586101

Date Analyzed: 09/05/95 Time Analyzed: 16:05

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

nstrument ID: I50G

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

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 1 | DCR-VER-201 | A5468203 | G3337.MSQ | 22:08 |
| 2 | DCR-VER-27 | A5468202 | G3338.MSQ | 22:40 |
| 3 | DCR-VER-48 | A5468207 | G3335.MSQ | 21:01 |
| 4 | DCR-VER-49 | A5468208 | G3334.MSQ | 20:29 |
| 5 | DCR-VER-50 | A5468204 | G3336.MSQ | 21:34 |

Comments: _____

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

Client No.: VBLK61

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER26

Matrix: (soil/water) SOIL Lab Sample ID: A5B0586101

Sample wt/vol: 5.00 (g/mL) G Lab File ID: G3326.MSQ

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: not dec. _____ Heated Purge: Y Date Analyzed: 09/05/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | 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 | 0.6 | 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 |
| 108-88-3 | TOLUENE | 10 | U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 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 |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS



Client No.

VBLK61

Lab Name: Recra Environmental  Contract: MQ772732MQ

Lab Code: RECNY  Case No.: 5324  SAS No.: _____  SDG No.: VER26

Matrix: (soil/water) SOIL  Lab Sample ID: A5B0586101

Sample wt/vol: 5.00 (g/mL) G  Lab File ID: G3326.MSQ

Level: (low/med) LOW  Date Samp/Recv: _____ _____

% Moisture: not dec. _____  Date Analyzed: 09/05/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.00

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

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

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| | | | | |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
METHOD BLANK SUMMARY

**000034**

Client No.

VBLK21

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER26

Lab File ID: K9473.MSQ Lab Sample ID: A5B0585103

Date Analyzed: 09/05/95 Time Analyzed: 17:03

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

Instrument ID: I50K

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

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 1 | Matrix Spike Blank | A5B0585101 | K9470.MSQ | 14:53 |
| 2 | Matrix Spike Blk Dup | A5B0585102 | K9471.MSQ | 15:21 |
| 3 | MW-546-02 | A5468205 | K9481.MSQ | 21:29 |
| 4 | MW-546-03 | A5468206 | K9482.MSQ | 22:02 |

Comments: _____

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

Client No.: VBLK21

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER26

Matrix: (soil/water) WATER Lab Sample ID: A5B0585103

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: K9473.MSQ

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 09/05/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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 |
| 108-88-3 | TOLUENE | 10 | U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 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 |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

000036

Client No.

VBLK21

Lab Name: Recra Environmental  Contract: MQ772732MQ

Lab Code: RECNY  Case No.: 5324  SAS No.: _____  SDG No.: VER26

Matrix: (soil/water) WATER  Lab Sample ID: A5B0585103

Sample wt/vol: 5.00 (g/mL) ML  Lab File ID: K9473.MSQ

Level: (low/med) LOW  Date Samp/Recv: _____ _____

Moisture: not dec. _____  Date Analyzed: 09/05/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.00

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

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

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| | | | | |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
METHOD BLANK SUMMARY

000037
Client No.

VBLK62

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER26

Lab File ID: G3345.MSQ Lab Sample ID: A5B0586102

Date Analyzed: 09/06/95 Time Analyzed: 10:33

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

Instrument ID: I50G

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

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 1 | DCR-VER-26 | A5468201 | G3347.MSQ | 11:39 |
| 2 | DCR-VER-26 MS | A5468201MS | G3348.MSQ | 12:11 |
| 3 | DCR-VER-26 MSD | A5468201SD | G3349.MSQ | 12:43 |
| 4 | DCR-VER-27DL | A5468202DL | G3346.MSQ | 11:07 |
| 5 | Matrix Spike Blank | A5468210 | G3344.MSQ | 09:24 |

Comments: _____

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

**000038**

Client No.: VBLK62

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER26

Matrix: (soil/water) SOIL Lab Sample ID: A5B0586102

Sample wt/vol: 5.00 (g/mL) G Lab File ID: G3345.MSQ

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: not dec. _____ Heated Purge: Y Date Analyzed: 09/06/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

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

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 74-87-3 | CHLOROMETHANE | 10 | U |
| 74-83-9 | BROMOMETHANE | 10 | U |
| 75-01-4 | VINYL CHLORIDE | 10 | U |
| -00-3 | CHLOROETHANE | 10 | U |
| -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 |
| 108-88-3 | TOLUENE | 10 | U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 10 | U |
| 08-90-7 | CHLOROBENZENE | 10 | U |
| 100-41-4 | ETHYLBENZENE | 10 | U |
| 100-42-5 | STYRENE | 10 | U |
| 1330-20-7 | XYLENE (TOTAL) | 10 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

**000039**

Client No.

VBLK62

ab Name: Recra Environmental  Contract: MQ772732MQ

ab Code: RECNY  Case No.: 5324  SAS No.: _____  SDG No.: VER26

atrix: (soil/water) SOIL  Lab Sample ID: A5B0586102

ample wt/vol: 5.00 (g/mL) G  Lab File ID: G3345.MSQ

Level: (low/med) LOW  Date Samp/Recv: _____ _____

Moisture: not dec. _____  Date Analyzed: 09/06/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.00

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

umber TICs found: 0  CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| | | | | |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY



Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Labsampid: A5B0586105

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER26

Lab File ID (Standard): G3324.MSQ Date Analyzed: 09/05/95

Instrument ID: I50G Time Analyzed: 14:13

GC Column(1): DB-624 ID: 0.530 (mm) Heated Purge: (Y/N) Y

| | | IS1 (BCM) AREA | # | RT | # | IS2 (CBZ) AREA | # | RT | # | IS3 (DFB) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 46212 | | 11.15 | | 111551 | | 18.13 | | 124714 | | 13.23 | |
| | UPPER LIMIT | 92424 | | 11.65 | | 223102 | | 18.63 | | 249428 | | 13.73 | |
| | LOWER LIMIT | 23106 | | 10.65 | | 55776 | | 17.63 | | 62357 | | 12.73 | |
| | CLIENT SAMPLE | | | | | | | | | | | | |
| 1 | DCR-VER-201 | 31959 | | 11.13 | | 70588 | | 18.13 | | 91814 | | 13.22 | |
| 2 | DCR-VER-27 | 30925 | | 11.13 | | 60139 | | 18.15 | | 85634 | | 13.25 | |
| 3 | DCR-VER-48 | 34794 | | 11.13 | | 86303 | | 18.13 | | 104545 | | 13.22 | |
| | DCR-VER-49 | 32945 | | 11.17 | | 68452 | | 18.13 | | 90408 | | 13.25 | |
| | DCR-VER-50 | 33431 | | 11.13 | | 75253 | | 18.15 | | 96882 | | 13.23 | |
| 6 | VBLK61 | 48510 | | 11.18 | | 92236 | | 18.17 | | 109385 | | 13.27 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS1 (BCM) = BROMOCHLOROMETHANE | ( 50-200) | -0.50 / +0.50 min |
| IS2 (CBZ) = Chlorobenzene-D5 | ( 50-200) | -0.50 / +0.50 min |
| IS3 (DFB) = 1,4-Difluorobenzene | ( 50-200) | -0.50 / +0.50 min |

\# Column to be used to flag recovery values
* Values outside of contract required QC limits

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Labsampid: A5B0586106

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER26

Lab File ID (Standard): G3343.MSQ Date Analyzed: 09/06/95

Instrument ID: I50G Time Analyzed: 08:42

GC Column(1): DB-624 ID: 0.530 (mm) Heated Purge: (Y/N) Y

| | | IS1 (BCM) AREA | # | RT | # | IS2 (CBZ) AREA | # | RT | # | IS3 (DFB) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 36009 | | 11.05 | | 91956 | | 18.13 | | 99291 | | 13.17 | |
| | UPPER LIMIT | 72018 | | 11.55 | | 183912 | | 18.63 | | 198582 | | 13.67 | |
| | LOWER LIMIT | 18005 | | 10.55 | | 45978 | | 17.63 | | 49646 | | 12.67 | |
| | CLIENT SAMPLE | | | | | | | | | | | | |
| 1 | DCR-VER-26 | 35185 | | 11.10 | | 71150 | | 18.13 | | 89967 | | 13.22 | |
| 2 | DCR-VER-26 MS | 39044 | | 11.08 | | 74064 | | 18.13 | | 91430 | | 13.20 | |
| 3 | DCR-VER-26 MSD | 28481 | | 11.10 | | 69714 | | 18.15 | | 83130 | | 13.22 | |
| | DCR-VER-27DL | 39763 | | 11.08 | | 72555 | | 18.13 | | 92574 | | 13.20 | |
| 5 | Matrix Spike Blank | 35129 | | 11.10 | | 92853 | | 18.15 | | 106121 | | 13.22 | |
| 6 | VBLK62 | 39590 | | 11.10 | | 76074 | | 18.15 | | 90301 | | 13.22 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS1 (BCM) = BROMOCHLOROMETHANE | ( 50-200) | -0.50 / +0.50 min |
| IS2 (CBZ) = Chlorobenzene-D5 | ( 50-200) | -0.50 / +0.50 min |
| IS3 (DFB) = 1,4-Difluorobenzene | ( 50-200) | -0.50 / +0.50 min |

\# Column to be used to flag recovery values
* Values outside of contract required QC limits

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Labsampid: A5C0001198

Lab Code: RECNY Case No.: 5324 SAS No.: _____ SDG No.: VER26

Lab File ID (Standard): K9469.MSQ Date Analyzed: 09/05/95

Instrument ID: I50K Time Analyzed: 13:55

GC Column(1): DB-624 ID: 0.530(mm) Heated Purge: (Y/N) N

| | | IS1 (BCM) AREA | # | RT | # | IS2 (CBZ) AREA | # | RT | # | IS3 (DFB) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 31185 | | 10.90 | | 129040 | | 17.82 | | 127872 | | 12.98 | |
| | UPPER LIMIT | 62370 | | 11.40 | | 258080 | | 18.32 | | 255744 | | 13.48 | |
| | LOWER LIMIT | 15593 | | 10.40 | | 64520 | | 17.32 | | 63936 | | 12.48 | |
| | CLIENT SAMPLE | | | | | | | | | | | | |
| 1 | Matrix Spike Blank | 28587 | | 10.90 | | 114921 | | 17.80 | | 118693 | | 13.00 | |
| 2 | Matrix Spike Blk Dup | 25956 | | 10.90 | | 108260 | | 17.82 | | 106126 | | 13.00 | |
| 3 | MW-546-02 | 19360 | | 10.92 | | 81045 | | 17.83 | | 74684 | | 13.02 | |
| 4 | MW-546-03 | 19130 | | 10.90 | | 81297 | | 17.82 | | 76328 | | 13.00 | |
| | VBLK21 | 21738 | | 10.93 | | 88081 | | 17.83 | | 88327 | | 13.02 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS1 (BCM) = BROMOCHLOROMETHANE | ( 50-200) | -0.50 / +0.50 min |
| IS2 (CBZ) = Chlorobenzene-D5 | ( 50-200) | -0.50 / +0.50 min |
| IS3 (DFB) = 1,4-Difluorobenzene | ( 50-200) | -0.50 / +0.50 min |

\# Column to be used to flag recovery values
* Values outside of contract required QC limits

# Sample ID Nos.:

Lab Report Dated:

October 26, 1995

DCR-VER-05-03
DCR-VER-46
DCR-VER-47
MW-546-06
MW-546-07
MW-546-08

**RECRA ENVIRONMENTAL INC.**

*Chemical and Environmental Analysis Services*

OCT 30
CAMP DRESSER & MCKEE

October 26, 1995

Mr. Joseph Mihm
Camp, Dresser and McKee / Alcoa
Park Avenue East, Building 65
Massena, NY 13665

RE: **Analytical Results**

Dear Mr. Mihm:

Please find enclosed the data package concerning the analyses of samples recently submitted by your firm. The pertinent information regarding these analyses is listed below:

| | |
|---|---|
| Quote No.: | NY95-438 |
| REI: | 19 |
| SDG #: | VER05 |
| Matrix: | Soil & Water |
| Sample Receipt Date: | 09/26,27/95 |
| Sample Date: | 09/25,26/95 |

If you have any questions concerning these data, please contact Ms. Deborah A. Carella, Program Manager, at (800) 52R-ECRA and refer to the I.D. number listed below.

Sincerely,

RECRA ENVIRONMENTAL, INC.

for K.E.K.

Kenneth E. Kasperek
Laboratory Manager

DAC/KEK/cjs
Enclosure
cc: Frances Gero (cover letter only)
Aluminum Company of America
Mr. Bernard Kunkle (cover letter only)
Aluminum Company of America
Park Avenue East, BLDG. 65
Massena, NY 13665

Reviewed and approved by/date:

for DAC

Deborah A. Carella, Program Manager

ID #A95-5097
#A95-5138
#NY5A5754

Schreiber
Cecchini
Anderson
Mihm
Schultz
LHR
Gradient All

SAMPLE DATA SUMMARY PACKAGE

RECRA
ENVIRONMENTAL
INC.

SDG NARRATIVE:

Laboratory: Recra Environmental, Inc.

Laboratory Code: RECNY

Contract No.: NY95-438

SDG No.: VER05

Sample Identifications:
DCR-VER-05-03
DCR-VER-46
DCR-VER-47
MW-546-06
MW-546-07
MW-546-08
MW-546-09

METHODOLOGY

Analyses were performed in accordance with 1991 New York State Analytical Services protocol. (Revised 1993)

COMMENTS

Results are reported using standard qualifiers (Q) as defined on the Organic Data Comment Page.

Preliminary results were sent on October 3, 1995 via facsimile Ms. Julie Schreiber of Camp, Dresser and McKee by Ms. Deborah Carella of Recra Environmental.

Quality Control analysis was performed on a batch basis.

Sample MW-546-09 was not analyzed at the request of Ms. Julie Schreiber.

SEMIVOLATILE DATA

Semivolatile sample and standard areas are listed on the corresponding data system printouts.

Semivolatile data was processed utilizing Teknivent Autoquantitation and Recra Environmental's Inc.'s Analytical Information Management Systems (AIMS). All compounds determined to be present by the computer-generated autoquantitation were subjected to a manual ion search for secondary and tertiary ions. False positive compounds are crossed out, initialed and dated in this data package.

PCB DATA

The retention time of surrogate TCX fell outside retention time windows on the DB608 column for PIBLK07 and PEM05.

The retention time of surrogates TCX and DCB fell outside retention time windows on the DB608 column for samples MSB04, MSBD04 and PBLK04.

Samples PBLK03, MSBD03, MW54607 and MW54608 exhibited Tetrachloro-m-xylene and Decachlorobiphenyl surrogate recoveries for both the DB608 and DB1701 columns that were below advisory limits

Sample MW54606 exhibited surrogate Decachlorobiphenyl recovery for the DB608 column that was below advisory limits. The recoveries for Tetrachloro-m-xylene and Decachlorobiphenyl on the DB1701 column were also below advisory limits.

"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 his designee, as verified by the following signature."

for K.E.K

Kenneth E. Kasperek
Laboratory Director

10/26/95
Date

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION
AND
ANALYTICAL REQUEST SUMMARY

LAB NAME: RECRA ENVIRONMENTAL, INC.

| CUSTOMER SAMPLE ID | LABORATORY SAMPLE ID | ANALYTICAL REQUIREMENTS | | | | | |
|---|---|---|---|---|---|---|---|
| | | VOA GC/MS | BNA GC/MS | VOA GC | PEST PCB | METALS | WATER QUALITY |
| DCR-VER-05-03 | A5509701 | - | - | - | ASP91 | - | - |
| DCR-VER-46 | A5513801 | - | ASP91 | - | ASP91 | - | - |
| DCR-VER-47 | A5513802 | - | ASP91 | - | ASP91 | - | - |
| MW-546-06 | A5509702 | - | - | - | ASP91 | - | - |
| MW-546-07 | A5509703 | - | - | - | ASP91 | - | - |
| MW-546-08 | A5513803 | - | ASP91 | - | ASP91 | - | - |



RECRA
ENVIRONMENTAL
INC.

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
B\N-A ANALYSIS

LAB NAME: RECRA ENVIRONMENTAL, INC.

| SAMPLE IDENTIFICATION | MATRIX | DATE COLLECTED | DATE RECEIVED AT LAB | DATE EXTRACTED | DATE ANALYZED |
|---|---|---|---|---|---|
| DCR-VER-46 | SOIL | 09/26/95 | 09/27/95 | 09/28/95 | 09/30/95 |
| DCR-VER-47 | SOIL | 09/26/95 | 09/27/95 | 09/28/95 | 09/30/95 |
| MW-546-08 | WATER | 09/26/95 | 09/27/95 | 09/28/95 | 09/30/95 |

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
PESTICIDE/PCB ANALYSIS

LAB NAME: RECRA ENVIRONMENTAL, INC.

| SAMPLE IDENTIFICATION | MATRIX | DATE COLLECTED | DATE RECEIVED AT LAB | DATE EXTRACTED | DATE ANALYZED |
|---|---|---|---|---|---|
| DCR-VER-05-03 | SOIL | 09/25/95 | 09/26/95 | 09/28/95 | 09/30/95 |
| DCR-VER-46 | SOIL | 09/26/95 | 09/27/95 | 09/28/95 | 09/30/95 |
| DCR-VER-47 | SOIL | 09/26/95 | 09/27/95 | 09/28/95 | 09/30/95 |
| MW-546-06 | WATER | 09/25/95 | 09/26/95 | 09/28/95 | 09/29/95 |
| MW-546-07 | WATER | 09/25/95 | 09/26/95 | 09/28/95 | 09/29/95 |
| MW-546-08 | WATER | 09/26/95 | 09/27/95 | 09/28/95 | 09/30/95 |

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
ORGANIC ANALYSIS

LAB NAME: RECRA ENVIRONMENTAL, INC.

| SAMPLE IDENTIFICATION | MATRIX | ANALYTICAL PROTOCOL | EXTRACTION METHOD | AUXILARY CLEAN UP | DIL/CONC FACTOR |
|---|---|---|---|---|---|
| DCR-VER-05-03 | SOIL | ASP91 | SONC | AS REQUIRED | AS REQUIRED |
| DCR-VER-46 | SOIL | ASP91 | SONC | AS REQUIRED | AS REQUIRED |
| DCR-VER-47 | SOIL | ASP91 | SONC | AS REQUIRED | AS REQUIRED |
| MW-546-06 | WATER | ASP91 | SEPF | AS REQUIRED | AS REQUIRED |
| MW-546-07 | WATER | ASP91 | SEPF | AS REQUIRED | AS REQUIRED |
| MW-546-08 | WATER | ASP91 | SEPF | AS REQUIRED | AS REQUIRED |

# ORGANIC DATA COMMENT PAGE

Laboratory Name RECRA ENVIRONMENTAL, INC.

USEPA Defined Organic Data Qualifiers:

U - Indicates compound was analyzed for but not detected.

J - Indicates an estimate value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.

C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

G - The TCLP Matrix Spike recovery was greater than the upper limit of the analytical method.

L - The TCLP Matrix Spike recovery was lower than the lower limit of the analytical method.

T - This flag is used when the analyte is found in the associated TCLP extraction as well as in the sample.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results.

P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a "P".

A - This flag indicates that a TIC is a suspected aldol-condensation product.

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
ANALYSIS DATA SHEET

**000009**

Client No.

DCR-VER-46

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: VER05

Matrix: (soil/water) SOIL Lab Sample ID: A5513801

Sample wt/vol: 40.01 (g/mL) G Lab File ID: Z24482.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/95 09/27/95

% Moisture: 6.0 decanted: (Y/N) N Date Extracted: 09/28/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/30/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| 120-12-7 | ANTHRACENE | 300 | U |
| 56-55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 300 | U |
| 50-32-8 | BENZO(A)PYRENE | 12 | J |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
ANALYSIS DATA SHEET

**000010**

Client No.

DCR-VER-47

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: VER05

Matrix: (soil/water) SOIL Lab Sample ID: A5513802

Sample wt/vol: 40.13 (g/mL) G Lab File ID: Z24483.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/95 09/27/95

% Moisture: 8.9 decanted: (Y/N) N Date Extracted: 09/28/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/30/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.2

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| [illegible]0-12-7 | ANTHRACENE | 300 | U |
| [illegible]55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 300 | U |
| 50-32-8 | BENZO(A)PYRENE | 300 | U |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - POLYNUCLEAR AROMATIC HYDROCARBONS
ANALYSIS DATA SHEET

Client No.: MW-546-08

Lab Name: Recra Environmental. Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: VER05

Matrix: (soil/water) WATER Lab Sample ID: A5513803

Sample wt/vol: 910.00 (g/mL) ML Lab File ID: Z24478.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/95 09/27/95

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/28/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 09/30/95

Injection Volume: 2.00(uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 10 | U |
| 208-96-8 | ACENAPHTHYLENE | 10 | U |
| [illegible]-12-7 | ANTHRACENE | 10 | U |
| [illegible]55-3 | BENZO(A)ANTHRACENE | 10 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 10 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 10 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 10 | U |
| 50-32-8 | BENZO(A)PYRENE | 10 | U |
| 218-01-9 | CHRYSENE | 10 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 10 | U |
| 206-44-0 | FLUORANTHENE | 10 | U |
| 86-73-7 | FLUORENE | 10 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 10 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 10 | U |
| 91-20-3 | NAPHTHALENE | 10 | U |
| 85-01-8 | PHENANTHRENE | 10 | U |
| 129-00-0 | PYRENE | 10 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DCRVER46 000012

La ame: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: VER05

Matrix: (soil/water) SOIL Lab Sample ID: A5513801

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 6 decanted: (Y/N) N Date Received: 09/27/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/28/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/30/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 35 | U |
| 11104-28-2 | Aroclor-1221 | 71 | U |
| 11141-16-5 | Aroclor-1232 | 35 | U |
| 53469-21-9 | Aroclor-1242 | 35 | U |
| 12672-29-6 | Aroclor-1248 | 35 | U |
| 11097-69-1 | Aroclor-1254 | 35 | U |
| 11096-82-5 | Aroclor-1260 | 35 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000013

DCRVER47

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: VER05

Matrix: (soil/water) SOIL Lab Sample ID: A5513802

Sample wt/vol: 30.4 (g/mL) G Lab File ID: _____

% Moisture: 9 decanted: (Y/N) N Date Received: 09/27/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/28/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/30/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 36 | U |
| 11104-28-2 | Aroclor-1221 | 73 | U |
| 11141-16-5 | Aroclor-1232 | 36 | U |
| 53469-21-9 | Aroclor-1242 | 36 | U |
| 12672-29-6 | Aroclor-1248 | 36 | U |
| 11097-69-1 | Aroclor-1254 | 36 | U |
| 11096-82-5 | Aroclor-1260 | 36 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DCVER0503

L Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: VER05

Matrix: (soil/water) SOIL Lab Sample ID: A5509701

Sample wt/vol: 30.5 (g/mL) G Lab File ID: _____

% Moisture: 8 decanted: (Y/N) N Date Received: 09/26/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/28/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/30/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.1 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 35 | U |
| 11104-28-2 | Aroclor-1221 | 72 | U |
| 11141-16-5 | Aroclor-1232 | 35 | U |
| 53469-21-9 | Aroclor-1242 | 35 | U |
| 12672-29-6 | Aroclor-1248 | 35 | U |
| 11097-69-1 | Aroclor-1254 | 35 | U |
| 11096-82-5 | Aroclor-1260 | 35 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000015

MW54606

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: VER05

Matrix: (soil/water) WATER Lab Sample ID: A5509702

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 09/26/95

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/28/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/29/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) Y

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.065 | U |
| 11104-28-2 | Aroclor-1221 | 0.065 | U |
| 11141-16-5 | Aroclor-1232 | 0.065 | U |
| 53469-21-9 | Aroclor-1242 | 0.065 | U |
| 12672-29-6 | Aroclor-1248 | 0.065 | U |
| 11097-69-1 | Aroclor-1254 | 0.065 | U |
| 11096-82-5 | Aroclor-1260 | 0.065 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: MW54607

Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: VER05

Matrix: (soil/water) WATER Lab Sample ID: A5509703

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 09/26/95

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/28/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/29/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) Y

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.065 | U |
| 11104-28-2 | Aroclor-1221 | 0.065 | U |
| 11141-16-5 | Aroclor-1232 | 0.065 | U |
| 53469-21-9 | Aroclor-1242 | 0.065 | U |
| 12672-29-6 | Aroclor-1248 | 0.065 | U |
| 11097-69-1 | Aroclor-1254 | 0.065 | U |
| 11096-82-5 | Aroclor-1260 | 0.065 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW54608

Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: VER05

Matrix: (soil/water) WATER Lab Sample ID: A5513803

Sample wt/vol: 830.0 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 09/27/95

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/28/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/30/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) Y

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.065 | U |
| 11104-28-2 | Aroclor-1221 | 0.065 | U |
| 11141-16-5 | Aroclor-1232 | 0.065 | U |
| 53469-21-9 | Aroclor-1242 | 0.065 | U |
| 12672-29-6 | Aroclor-1248 | 0.065 | U |
| 11097-69-1 | Aroclor-1254 | 0.065 | U |
| 11096-82-5 | Aroclor-1260 | 0.065 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - POLYNUCLEAR AROMATIC HYDROCARBONS
WATER SURROGATE RECOVERY

000018

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: VER05

| | Client Sample ID | 2CP %REC | # | DCB %REC | # | FBP %REC | # | NBZ %REC | # | PHL %REC | # | TBP %REC | # | TPH %REC | # | | TOT OUT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Matrix Spike Blank | 82 | | 71 | | 85 | | 73 | | 71 | | 125 | * | 79 | | | 1 |
| 2 | Matrix Spike Blk Dup | 80 | | 82 | | 84 | | 81 | | 74 | | 135 | * | 93 | | | 1 |
| 3 | MW-546-08 | 78 | | 60 | | 74 | | 84 | | 61 | | 111 | | 87 | | | 0 |
| 4 | SBLK26 | 93 | | 60 | | 79 | | 94 | | 69 | | 110 | | 87 | | | 0 |

| | | | QC LIMITS |
|---|---|---|---|
| 2CP | = | 2-Chlorophenol-d4 | ( 33-110) |
| DCB | = | 1,2-Dichlorobenzene-d4 | ( 16-110) |
| FBP | = | 2-Fluorobiphenyl | ( 43-116) |
| NBZ | = | Nitrobenzene-D5 | ( 35-114) |
| PHL | = | Phenol-D5 | ( 10-110) |
| TBP | = | 2,4,6-Tribromophenol | ( 10-123) |
| TPH | = | Terphenyl-D14 | ( 33-141) |

# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
SOIL SURROGATE RECOVERY

Lab Name: Recra Environmental, Inc. Contract: MO772732MQ

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: VER05

Level (low/med): LOW

| | Client Sample ID | 2CP %REC | # | 2FP %REC | # | DCB %REC | # | FBP %REC | # | NBZ %REC | # | PHL %REC | # | TBP %REC | # | TPH %REC | # | TOT OUT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | DCR-VER-46 | 98 | | 102 | | 76 | | 88 | | 78 | | 108 | | 135 | * | 98 | | 1 |
| 2 | DCR-VER-47 | 94 | | 114 | | 74 | | 89 | | 80 | | 88 | | 138 | * | 109 | | 1 |
| 3 | Matrix Spike Blank | 83 | | 98 | | 67 | | 90 | | 96 | | 79 | | 130 | * | 98 | | 1 |
| 4 | Matrix Spike Blk Dup | 84 | | 107 | | 71 | | 92 | | 99 | | 81 | | 121 | | 99 | | 0 |
| 5 | SBLK27 | 80 | | 86 | | 56 | | 76 | | 60 | | 66 | | 96 | | 80 | | 0 |

| | | | QC LIMITS |
|---|---|---|---|
| 2CP | = | 2-Chlorophenol-d4 | ( 20-130) |
| 2FP | = | 2-Fluorophenol | ( 25-121) |
| DCB | = | 1,2-Dichlorobenzene-d4 | ( 20-130) |
| FBP | = | 2-Fluorobiphenyl | ( 30-115) |
| NBZ | = | Nitrobenzene-D5 | ( 23-120) |
| PHL | = | Phenol-D5 | ( 24-113) |
| P | = | 2,4,6-Tribromophenol | ( 19-122) |
| TPH | = | Terphenyl-D14 | ( 18-137) |

\# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

2F

# SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: VER05

GC Column(1): DB608 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

| | EPA SAMPLE NO. | TCX 1 %REC # | TCX 2 %REC # | DCB 1 %REC # | DCB 2 %REC # | OTHER (1) | OTHER (2) | TOT OUT |
|---|---|---|---|---|---|---|---|---|
| 01 | PBLK04 | 81 | 73 | 87 | 84 | | | 0 |
| 02 | DCRVER46 | 86 | 77 | 90 | 89 | | | 0 |
| 03 | DCRVER47 | 85 | 76 | 91 | 89 | | | 0 |
| 04 | DCVER0503 | 89 | 78 | 95 | 93 | | | 0 |
| 05 | MSB04 | 80 | 71 | 85 | 83 | | | 0 |
| 06 | MSBD04 | 84 | 76 | 90 | 89 | | | 0 |

ADVISORY QC LIMITS

TCX = Tetrachloro-m-xylene ( 60-150)
DCB = Decachlorobiphenyl ( 60-150)

# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

2E
WATER PESTICIDE SURROGATE RECOVERY

1 Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: VER05

GC Column(1): DB608 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

| | EPA SAMPLE NO. | TCX 1 %REC # | TCX 2 %REC # | DCB 1 %REC # | DCB 2 %REC # | OTHER (1) | OTHER (2) | TOT OUT |
|---|---|---|---|---|---|---|---|---|
| 01 | PBLK03 | 28* | 26* | 44* | 41* | | | 4 |
| 02 | MSB03 | 45* | 39* | 60 | 56* | | | 3 |
| 03 | MSBD03 | 35* | 32* | 54* | 50* | | | 4 |
| 04 | MW54606 | 76 | 34* | 47* | 44* | | | 3 |
| 05 | MW54607 | 38* | 30* | 47* | 50* | | | 4 |
| 06 | MW54608 | 40* | 28* | 45* | 42* | | | 4 |

| | ADVISORY QC LIMITS |
|---|---|
| TCX = Tetrachloro-m-xylene | ( 60-150) |
| DCB = Decachlorobiphenyl | ( 60-150) |

# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - POLYNUCLEAR AROMATIC HYDROCARBONS
WATER MATRIX SPIKE BLANK/MATRIX SPIKE BLANK DUPLICATE RECOVERY

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Lab Samp ID: A5B0645603

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: VER05

Matrix Spike - Client Sample No.: ~~SBLK06~~ MSB/MSBD 10/15/95

| COMPOUND | SPIKE ADDED UG/L | MSB CONCENTRATION UG/L | MSB % REC # | QC LIMITS REC. |
|---|---|---|---|---|
| Acenaphthene | 50 | 38 | 76 | 46 - 118 |
| Pyrene | 50 | 39 | 78 | 26 - 127 |

| COMPOUND | SPIKE ADDED UG/L | MSBD CONCENTRATION UG/L | MSBD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| Acenaphthene | 50 | 49 | 98 | 25 | 31 | 46 - 118 |
| Pyrene | 50 | 46 | 92 | 16 | 31 | 26 - 127 |

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

* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike recovery: 0 out of 4 outside limits

Comments: _____

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
SOIL MATRIX SPIKE BLANK/MATRIX SPIKE BLANK DUPLICATE RECOVERY

La ume: Recra Environmental, Inc. Contract: MQ772732MQ Lab Samp ID: A5B0645203

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: VER05

Matrix Spike - Client Sample No.: ~~SBLK27~~ MSB/MSBD MS. 10/14/95 Level:(low/med) LOW

| COMPOUND | SPIKE ADDED UG/KG | MSB CONCENTRATION UG/KG | MSB % REC # | QC LIMITS REC. |
|---|---|---|---|---|
| Acenaphthene | 1200 | 1000 | 83 | 31 - 137 |
| Pyrene | 1200 | 1100 | 92 | 35 - 142 |

| COMPOUND | SPIKE ADDED UG/KG | MSBD CONCENTRATION UG/KG | MSBD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| Acenaphthene | 1200 | 960 | 80 | 4 | 19 | 31 - 137 |
| Pyrene | 1200 | 1000 | 83 | 10 | 36 | 35 - 142 |

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

* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike recovery: 0 out of 4 outside limits

Comments: _____

# WATER PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY



Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: VER05

Matrix Spike - EPA Sample No.: MSB03,MSBD03

| COMPOUND | SPIKE ADDED (ug/L) | MSB CONCENTRATION (ug/L) | MSB % REC # |
|---|---|---|---|
| Aroclor 1242 | 1.00 | 0.38 | 38 |

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC # | % RPD # |
|---|---|---|---|---|
| Aroclor 1242 | 1.00 | 0.31 | 31 | 20 |

COMMENTS:

3F

# SOIL PCB MSB/MSBD RECOVERY

I Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: VER05

Matrix Spike - EPA Sample No.: MSB04,MSBD04

| COMPOUND | SPIKE ADDED (ug/Kg) | MSB CONCENTRATION (ug/Kg) | MSB % REC # |
|---|---|---|---|
| Aroclor 1242 | 333 | 200 | 60 |

| COMPOUND | SPIKE ADDED (ug/Kg) | MSBD CONCENTRATION (ug/Kg) | MSBD % REC # |
|---|---|---|---|
| Aroclor 1242 | 333 | 190 | 57 |

COMMENTS:

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - POLYNUCLEAR AROMATIC HYDROCARBONS
METHOD BLANK SUMMARY

Client No.: SBLK26

Lab Name: Recra Environmental. Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: VER05

Lab File ID: Z24475.RR Lab Sample ID: A5B0645603

Instrument ID: I50Z-A Date Extracted: 09/28/95

Matrix: (soil/water) WATER Date Analyzed: 09/30/95

Level: (low/med) LOW Time Analyzed: 16:10

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

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|---|
| 1 | Matrix Spike Blank | A5B0645601 | Z24476.RR | 09/30/95 |
| 2 | Matrix Spike Blk Dup | A5B0645602 | Z24477.RR | 09/30/95 |
| 3 | MW-546-08 | A5513803 | Z24478.RR | 09/30/95 |

Comments: _____

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - POLYNUCLEAR AROMATIC HYDROCARBONS
ANALYSIS DATA SHEET

000027

Client No.

SBLK26

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: VER05

Matrix: (soil/water) WATER Lab Sample ID: A5B0645603

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: Z24475.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/28/95

Concentrated Extract Volume: 1000(uL) Date Analyzed: 09/30/95

Injection Volume: 2.00(uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 10 | U |
| 208-96-8 | ACENAPHTHYLENE | 10 | U |
| [illegible]-12-7 | ANTHRACENE | 10 | U |
| 55-3 | BENZO(A)ANTHRACENE | 10 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 10 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 10 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 10 | U |
| 50-32-8 | BENZO(A)PYRENE | 10 | U |
| 218-01-9 | CHRYSENE | 10 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 10 | U |
| 206-44-0 | FLUORANTHENE | 10 | U |
| 86-73-7 | FLUORENE | 10 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 10 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 10 | U |
| 91-20-3 | NAPHTHALENE | 10 | U |
| 85-01-8 | PHENANTHRENE | 10 | U |
| 129-00-0 | PYRENE | 10 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
METHOD BLANK SUMMARY

Client No.: SBLK27

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: VER05

Lab File ID: Z24479.RR Lab Sample ID: A5B0645203

Instrument ID: I50Z-A Date Extracted: 09/28/95

Matrix: (soil/water) SOIL Date Analyzed: 09/30/95

Level: (low/med) LOW Time Analyzed: 18:11

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

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|---|
| 1 | DCR-VER-46 | A5513801 | Z24482.RR | 09/30/95 |
| 2 | DCR-VER-47 | A5513802 | Z24483.RR | 09/30/95 |
| 3 | Matrix Spike Blank | A5B0645201 | Z24480.RR | 09/30/95 |
| 4 | Matrix Spike Blk Dup | A5B0645202 | Z24481.RR | 09/30/95 |

ments: _____

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
ANALYSIS DATA SHEET

Client No.: SBLK27

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: VER05

Matrix: (soil/water) SOIL Lab Sample ID: A5B0645203

Sample wt/vol: 40.00 (g/mL) G Lab File ID: Z24479.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/28/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 09/30/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| [illegible]-12-7 | ANTHRACENE | 300 | U |
| 55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 300 | U |
| 50-32-8 | BENZO(A)PYRENE | 300 | U |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

4C

# PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK03

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: VER05

Lab Sample ID: A5B0645303 Lab File ID: _____

Matrix: (soil/water) WATER Extraction: (SepF/Cont/Sonc) SEPF

Sulfur Cleanup: (Y/N) Y Date Extracted: 09/28/95

Date Analyzed (1): 09/29/95 Date Analyzed (2): 09/29/95

Time Analyzed (1): 1920 Time Analyzed (2): 1920

Instrument ID (1): 5890A9 Instrument ID (2): 5890B9

GC Column (1): DB608 ID: 0.53 (mm) GC Column (2): DB1701 ID: 0.53 (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 | MSB03 | A5B0645301 | 09/29/95 | 09/29/95 |
| 02 | MSBD03 | A5B0645302 | 09/29/95 | 09/29/95 |
| 03 | MW54606 | A5509702 | 09/29/95 | 09/29/95 |
| 04 | MW54607 | A5509703 | 09/29/95 | 09/29/95 |
| 05 | MW54608 | A5513803 | 09/30/95 | 09/30/95 |

COMMENTS:

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK03

Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: VER05

Matrix: (soil/water) WATER Lab Sample ID: A5B0645303

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/28/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/29/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) Y

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.065 | U |
| 11104-28-2 | Aroclor-1221 | 0.065 | U |
| 11141-16-5 | Aroclor-1232 | 0.065 | U |
| 53469-21-9 | Aroclor-1242 | 0.065 | U |
| 12672-29-6 | Aroclor-1248 | 0.065 | U |
| 11097-69-1 | Aroclor-1254 | 0.065 | U |
| 11096-82-5 | Aroclor-1260 | 0.065 | U |

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK04

La. Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: VER05

Lab Sample ID: A5B0645103 Lab File ID: _____

Matrix: (soil/water) SOIL Extraction: (SepF/Cont/Sonc) SONC

Sulfur Cleanup: (Y/N) N Date Extracted: 09/28/95

Date Analyzed (1): 09/30/95 Date Analyzed (2): 09/30/95

Time Analyzed (1): 0531 Time Analyzed (2): 0531

Instrument ID (1): 5890A9 Instrument ID (2): 5890B9

GC Column (1): DB608 ID: 0.53 (mm) GC Column (2): DB1701 ID: 0.53 (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 | DCRVER46 | A5513801 | 09/30/95 | 09/30/95 |
| 02 | DCRVER47 | A5513802 | 09/30/95 | 09/30/95 |
| 03 | DCVER0503 | A5509701 | 09/30/95 | 09/30/95 |
| 04 | MSB04 | A5B0645101 | 09/30/95 | 09/30/95 |
| 05 | MSBD04 | A5B0645102 | 09/30/95 | 09/30/95 |

COMMENTS:

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000033

PBLK04

Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: VER05

Matrix: (soil/water) SOIL Lab Sample ID: A5B0645103

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/28/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/30/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 33 | U |
| 11104-28-2 | Aroclor-1221 | 67 | U |
| 11141-16-5 | Aroclor-1232 | 33 | U |
| 53469-21-9 | Aroclor-1242 | 33 | U |
| 12672-29-6 | Aroclor-1248 | 33 | U |
| 11097-69-1 | Aroclor-1254 | 33 | U |
| 11096-82-5 | Aroclor-1260 | 33 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - POLYNUCLEAR AROMATIC HYDROCARBONS
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

000034

Lab Name: Recra Environmental, Inc. Contract: MO772732MO Labsampid: A5C0001474

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: VER05

Lab File ID (Standard): Z24471.RR Date Analyzed: 09/30/95

Instrument ID: I50Z-A Time Analyzed: 14:08

| | | IS1 (ANT) AREA | # | RT | # | IS2 (CRY) AREA | # | RT | # | IS3 (DCB) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 426315 | | 7.50 | | 592403 | | 15.15 | | 247343 | | 4.18 | |
| | UPPER LIMIT | 852630 | | 8.00 | | 1184806 | | 15.65 | | 494686 | | 4.68 | |
| | LOWER LIMIT | 213158 | | 7.00 | | 296202 | | 14.65 | | 123672 | | 3.68 | |
| | CLIENT SAMPLE | | | | | | | | | | | | |
| 1 | Matrix Spike Blank | 414834 | | 7.50 | | 540548 | | 15.13 | | 211304 | | 4.18 | |
| 2 | Matrix Spike Blk Dup | 400655 | | 7.50 | | 569938 | | 15.13 | | 215120 | | 4.18 | |
| 3 | MW-546-08 | 460823 | | 7.50 | | 579740 | | 15.13 | | 242424 | | 4.18 | |
| 4 | SBLK26 | 457236 | | 7.50 | | 554735 | | 15.13 | | 239056 | | 4.18 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS1 (ANT) = Acenaphthene-D10 | ( 50-200) | -0.50 / +0.50 min |
| IS2 (CRY) = Chrysene-D12 | ( 50-200) | -0.50 / +0.50 min |
| IS3 (DCB) = 1,4-Dichlorobenzene-D4 | ( 50-200) | -0.50 / +0.50 min |

\# Column to be used to flag recovery values
* Values outside of contract required QC limits

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - POLYNUCLEAR AROMATIC HYDROCARBONS
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Recra Environmental, Inc. Contract: M0772732M0 Labsampid: A5C0001474

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: VER05

Lab File ID (Standard): Z24471.RR Date Analyzed: 09/30/95

Instrument ID: I50Z-A Time Analyzed: 14:08

| | | IS4 (NPT) AREA | # | RT | # | IS5(PHN) AREA | # | RT | # | IS6 (PRY) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 828064 | | 5.30 | | 522726 | | 10.03 | | 426862 | | 17.75 | |
| | UPPER LIMIT | 1656128 | | 5.80 | | 1045452 | | 10.53 | | 853724 | | 18.25 | |
| | LOWER LIMIT | 414032 | | 4.80 | | 261363 | | 9.53 | | 213431 | | 17.25 | |
| | CLIENT SAMPLE | | | | | | | | | | | | |
| 1 | Matrix Spike Blank | 755368 | | 5.30 | | 516347 | | 10.03 | | 343562 | | 17.73 | |
| 2 | Matrix Spike Blk Dup | 699304 | | 5.30 | | 584797 | | 10.03 | | 364735 | | 17.73 | |
| 3 | MW-546-08 | 798920 | | 5.30 | | 588944 | | 10.03 | | 373668 | | 17.73 | |
| 4 | SBLK26 | 859624 | | 5.30 | | 565762 | | 10.03 | | 384362 | | 17.73 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS4 (NPT) = Naphthalene-D8 | ( 50-200) | -0.50 / +0.50 min |
| IS5 (PHN) = Phenanthrene-D10 | ( 50-200) | -0.50 / +0.50 min |
| IS6 (PRY) = Perylene-D12 | ( 50-200) | -0.50 / +0.50 min |

\# Column to be used to flag recovery values
* Values outside of contract required QC limits

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

**000036**

Lab Name: Recra Environmental, Inc. Contract: MD772732MD Labsampid: A5C0001474

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: VER05

Lab File ID (Standard): Z24471.RR Date Analyzed: 09/30/95

Instrument ID: I50Z-A Time Analyzed: 14:08

| | | IS1 (ANT) AREA | # | RT | # | IS2 (CRY) AREA | # | RT | # | IS3 (DCB) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 426315 | | 7.50 | | 592403 | | 15.15 | | 247343 | | 4.18 | |
| | UPPER LIMIT | 852630 | | 8.00 | | 1184806 | | 15.65 | | 494686 | | 4.68 | |
| | LOWER LIMIT | 213158 | | 7.00 | | 296202 | | 14.65 | | 123672 | | 3.68 | |
| | CLIENT SAMPLE | | | | | | | | | | | | |
| 1 | DCR-VER-46 | 538771 | | 7.50 | | 809940 | | 15.13 | | 280110 | | 4.18 | |
| 2 | DCR-VER-47 | 615756 | | 7.50 | | 775363 | | 15.13 | | 334284 | | 4.18 | |
| 3 | Matrix Spike Blank | 573579 | | 7.50 | | 733976 | | 15.13 | | 316882 | | 4.20 | |
| 4 | Matrix Spike Blk Dup | 561619 | | 7.50 | | 717794 | | 15.13 | | 306354 | | 4.20 | |
| 5 | SBLK27 | 631213 | | 7.50 | | 821198 | | 15.13 | | 361103 | | 4.20 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS1 (ANT) = Acenaphthene-D10 | ( 50-200) | -0.50 / +0.50 min |
| IS2 (CRY) = Chrysene-D12 | ( 50-200) | -0.50 / +0.50 min |
| IS3 (DCB) = 1,4-Dichlorobenzene-D4 | ( 50-200) | -0.50 / +0.50 min |

\# Column to be used to flag recovery values
* Values outside of contract required QC limits

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY



Lab Name: Recra Environmental, Inc. Contract: MO772732MO Labsampid: A5C0001474

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: VER05

Lab File ID (Standard): Z24471.RR Date Analyzed: 09/30/95

Instrument ID: I50Z-A Time Analyzed: 14:08

| | | IS4 (NPT) AREA | # | RT | # | IS5(PHN) AREA | # | RT | # | IS6 (PRY) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 828064 | | 5.30 | | 522726 | | 10.03 | | 426862 | | 17.75 | |
| | UPPER LIMIT | 1656128 | | 5.80 | | 1045452 | | 10.53 | | 853724 | | 18.25 | |
| | LOWER LIMIT | 414032 | | 4.80 | | 261363 | | 9.53 | | 213431 | | 17.25 | |
| | CLIENT SAMPLE | | | | | | | | | | | | |
| 1 | DCR-VER-46 | 1010693 | | 5.30 | | 746822 | | 10.03 | | 604769 | | 17.73 | |
| 2 | DCR-VER-47 | 1080026 | | 5.30 | | 820767 | | 10.03 | | 604906 | | 17.73 | |
| 3 | Matrix Spike Blank | 1091886 | | 5.30 | | 761013 | | 10.03 | | 599356 | | 17.73 | |
| 4 | Matrix Spike Blk Dup | 1007391 | | 5.30 | | 780646 | | 10.03 | | 552201 | | 17.73 | |
| 5 | SBLK27 | 1214726 | | 5.30 | | 856596 | | 10.03 | | 655172 | | 17.75 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS4 (NPT) = Naphthalene-D8 | ( 50-200) | -0.50 / +0.50 min |
| IS5 (PHN) = Phenanthrene-D10 | ( 50-200) | -0.50 / +0.50 min |
| IS6 (PRY) = Perylene-D12 | ( 50-200) | -0.50 / +0.50 min |

# Column to be used to flag recovery values
* Values outside of contract required QC limits

**RECRA ENVIRONMENTAL INC.**

*Chemical and Environmental Analysis Services*

November 13, 1995

Ms. Deborah A. Roskos
Gradient Corporation
44 Brattle Street
Cambridge, Massachusetts 02138

RE: **Revised Form for SDG VER05**

Dear Ms. Roskos:

When Recra was looking back at the forms for SDG VER05, we found this form 1D (Page 000414) to be incorrect. It was originally submitted with 0.38 ug/l for Aroclor-1232, when it should actually be Aroclor-1242. The new form is attached.

We apologize for any inconvenience this has caused Gradient Corporation and ALCOA. If you have any further questions or comments please do not hesitate to contact me at (716)691-2600.

Sincerely,

RECRA ENVIRONMENTAL, INC.

Deborah A. Carella
Program Manager

cc: Julie Schreiber (CDM)
David Dros (Recra)

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MSB03

Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: VER05

Matrix: (soil/water) WATER Lab Sample ID: A5B0645301

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 09/26/95

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/28/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/29/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) Y

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.065 | U |
| 11104-28-2 | Aroclor-1221 | 0.065 | U |
| 11141-16-5 | Aroclor-1232 | 0.065 | U |
| 53469-21-9 | Aroclor-1242 | 0.38 | |
| 12672-29-6 | Aroclor-1248 | 0.065 | U |
| 11097-69-1 | Aroclor-1254 | 0.065 | U |
| 11096-82-5 | Aroclor-1260 | 0.065 | U |

# Sample ID Nos.:

Lab Report Dated:

November 11, 1995

DCR-VER-71
DCR-VER-72
MW-546-09

**RECRA ENVIRONMENTAL INC.**

*Chemical and Environmental Analysis Services*

95DCR 170 FE

November 11, 1995

Mr. Joseph Mihm
Camp, Dresser and McKee / Alcoa
Park Avenue East, Building 65
Massena, NY 13665

RE: **Analytical Results**

Dear Mr. Mihm:

Please find enclosed the data package concerning the analyses of samples recently submitted by your firm. The pertinent information regarding these analyses is listed below:

| | |
|---|---|
| Quote No.: | NY95-438 |
| REI: | 19 |
| SDG #: | CRVER |
| Matrix: | Soil & Water |
| Sample Receipt Date: | 10/13/95 |
| Sample Date: | 10/12,26/95 |

If you have any questions concerning these data, please contact Mr. David J. Dros, Program Manager, at (800) 52R-ECRA and refer to the I.D. number listed below.

Sincerely,

RECRA ENVIRONMENTAL, INC.

for K.E.K.
Kenneth E. Kasperek
Laboratory Manager

KEK/DJD/dms
Enclosure
cc: Frances Gero (cover letter only)
Aluminum Company of America
Mr. Bernard Kunkle (cover letter only)
Aluminum Company of America
Park Avenue East, BLDG. 65
Massena, NY 13665

Reviewed and approved by/date:

David J. Dros
Program Manager

ID #A95-5465
#NY5A5754

Summary [redacted] Cacchiai

Ltr { Schultz
mihm

Orig - Osvaldik
Cochard - all

SAMPLE DATA SUMMARY PACKAGE

RECRA
ENVIRONMENTAL
INC.

SDG NARRATIVE:

Laboratory: Recra Environmental, Inc.

Laboratory Code: RECNY

Contract No.: NY95-438

SDG No.: CRVER

Sample Identifications: DCR-VER-71
DCR-VER-72
MW-546-09

## METHODOLOGY

Analyses were performed in accordance with 1991 New York State Analytical Services protocol. (Revised 1993)

## COMMENTS

Results are reported using standard qualifiers (Q) as defined on the Organic Data Comment Page.

Preliminary results were sent on October 19 and 20, 1995 via facsimile Ms. Julie Schreiber of Camp, Dresser and McKee by Ms. Deborah Carella of Recra Environmental.

Quality Control analysis was performed on a batch basis.

## VOLATILE DATA

Volatile sample and standard areas are listed on the corresponding data system printouts.

Volatile data was processed utilizing Finnigan DataPro Autoquantitation and Recra Environmental's Inc.'s Analytical Information Management Systems (AIMS). All compounds determined to be present by the computer-generated autoquantitation were subjected to a manual ion search for secondary and tertiary ions. False positive compounds are crossed out, initialed and dated in this data package.

Ortho-Xylene and meta & para-Xylene elute separately on a capillary column. They are reported in this data package as Total Xylenes. The concentration is calculated by adding the areas of ortho-Xylene and meta & para-Xylene and using only the response factor from ortho-Xylene to calculate the nanogram amount.

Sample MW-546-09 exhibits a pH of 7.

Volatile Method Blank, VBLK76, exhibits the presence of one (1) Tentatively Identified Compound (TIC).

SEMIVOLATILE DATA

Semivolatile sample and standard areas are listed on the corresponding data system printouts.

Semivolatile data was processed utilizing Teknivant Autoquantitation and Recra Environmental's Inc.'s Analytical Information Management Systems (AIMS). All compounds determined to be present by the computer-generated autoquantitation were subjected to a manual ion search for secondary and tertiary ions. False positive compounds are crossed out, initialed and dated in this data package.

Samples DCR-VER-72 and DCR-VER-72 RE both exhibit the recovery of internal standard Perylene-d12 as outside QC limits.

PCB DATA

Water samples MW-546-09, PBLK07, MSB07 and MSBD07 had 1000 ul of 0.20 ng/ul surrogate mixture added to them. These samples were concentrated to a final volume of 10 mls. This is the appropriate surrogate concentration for CLP waters. However, the 10 ml final volume does not yield the desired detection limits. At the request of Camp, Dresser and McKee/Alcoa, these samples were concentrated to a final volume of 1.0 ml and re-analyzed. The re-analyzed samples are denoted by a "RI" suffix to sample ID. Concentrating these samples to a final volume of 1.0 ml increased the surrogate concentration by a factor of 10. As a result, the re-analyzed samples exhibit surrogate recoveries 10 times higher than those seen in the samples at a 10 ml final volume.

Sample PBLK07 exhibits the surrogate recovery of Tetrachloro-m-xylene on the DB1701 column as outside advisory QC limits.

Sample MSB07 exhibits the surrogate recoveries of Tetrachloro-m-xylene and Decachlorobiphenyl on both the DB608 and DB1701 columns as outside advisory QC limits.

Sample MSBD07 exhibits the surrogate recovery of Tetrachloro-m-xylene on both the DB608 and DB1701 columns and Decachlorobiphenyl on DB1701 column as outside advisory QC limits.

Sample MW-546-09 exhibits the surrogate recovery of Tetrachloro-m-xylene on both the DB608 and DB1701 columns as outside advisory QC limits.

The retention time of surrogate TCX fell outside retention time windows on the DB608 column for PIBLK07, PEM05, MW-546-09, MW-546-09RI, PBLK07RI, MSB07RI, MSBD07RI, PIBLK14 and PEM08.

The retention time of surrogates TCX and DCB fell outside retention time windows on the DB608 column for samples PIBLK11, INDAM05 and INDBM05.

The retention time of surrogate TCX fell outside retention time windows on the DB1701 column for AR124202, PIBLK07, AR124303, MSBD07, MW-546-09RI, PBLK07RI, MSB07RI and MSBD07RI.

The retention time of surrogates TCX and DCB fell outside retention time windows on the DB1701 column for samples PEM05, MW-546-09, PIBLK11, INDAM05, INDBM05, PIBLK14 and PEM09.

"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 his designee, as verified by the following signature."

Kenneth E. Kasperek
Laboratory Director

11/11/95
Date

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION
AND
ANALYTICAL REQUEST SUMMARY

LAB NAME: RECRA ENVIRONMENTAL, INC.

| CUSTOMER SAMPLE ID | LABORATORY SAMPLE ID | ANALYTICAL REQUIREMENTS | | | | | |
|---|---|---|---|---|---|---|---|
| | | VOA GC/MS | BNA GC/MS | VOA GC | PCB | METALS | OTHER |
| DCR-VER-71 | A5546501 | ASP91 | ASP91 | - | ASP91 | - | - |
| DCR-VER-72 | A5546502 | ASP91 | ASP91 | - | ASP91 | - | - |
| MW-546-09 | A5546503 | ASP91 | ASP91 | - | ASP91 | - | - |



RECRA
ENVIRONMENTAL
INC.

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOLATILE ANALYSIS

LAB NAME: RECRA ENVIRONMENTAL, INC.

| SAMPLE IDENTIFICATION | MATRIX | DATE COLLECTED | DATE RECEIVED AT LAB | DATE EXTRACTED | DATE ANALYZED |
|---|---|---|---|---|---|
| DCR-VER-71 | SOIL | 10/12/95 | 10/13/95 | - | 10/16/95 |
| DCR-VER-72 | SOIL | 10/12/95 | 10/13/95 | - | 10/16/95 |
| MW-546-09 | WATER | 10/12/95 | 10/13/95 | - | 10/15/95 |

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
B\N-A ANALYSIS

LAB NAME: RECRA ENVIRONMENTAL, INC.

| SAMPLE IDENTIFICATION | MATRIX | DATE COLLECTED | DATE RECEIVED AT LAB | DATE EXTRACTED | DATE ANALYZED |
|---|---|---|---|---|---|
| DCR-VER-71 | SOIL | 10/12/95 | 10/13/95 | 10/14/95 | 10/18/95 |
| DCR-VER-72 | SOIL | 10/12/95 | 10/13/95 | 10/14/95 | 10/18/95 |
| MW-546-09 | WATER | 10/12/95 | 10/13/95 | 10/17/95 | 10/19/95 |

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
PCB ANALYSIS

LAB NAME: RECRA ENVIRONMENTAL, INC.

| SAMPLE IDENTIFICATION | MATRIX | DATE COLLECTED | DATE RECEIVED AT LAB | DATE EXTRACTED | DATE ANALYZED |
|---|---|---|---|---|---|
| DCR-VER-71 | SOIL | 10/12/95 | 10/13/95 | 10/14/95 | 10/20/95 |
| DCR-VER-72 | SOIL | 10/12/95 | 10/13/95 | 10/14/95 | 10/20/95 |
| MW-546-09 | WATER | 10/12/95 | 10/13/95 | 10/17/95 | 10/18/95 |

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

000009

SAMPLE PREPARATION AND ANALYSIS SUMMARY
ORGANIC ANALYSIS

LAB NAME: RECRA ENVIRONMENTAL, INC.

| SAMPLE IDENTIFICATION | MATRIX | ANALYTICAL PROTOCOL | EXTRACTION METHOD | AUXILARY CLEAN UP | DIL/CONC FACTOR |
|---|---|---|---|---|---|
| DCR-VER-71 | SOIL | ASP91 | SONC | AS REQUIRED | AS REQUIRED |
| DCR-VER-72 | SOIL | ASP91 | SONC | AS REQUIRED | AS REQUIRED |
| MW-546-09 | WATER | ASP91 | CONT, SEPF | AS REQUIRED | AS REQUIRED |



RECRA
ENVIRONMENTAL
INC.

# ORGANIC DATA COMMENT PAGE



Laboratory Name RECRA ENVIRONMENTAL, INC.

USEPA Defined Organic Data Qualifiers:

U - Indicates compound was analyzed for but not detected.

J - Indicates an estimate value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.

C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

G - The TCLP Matrix Spike recovery was greater than the upper limit of the analytical method.

L - The TCLP Matrix Spike recovery was lower than the lower limit of the analytical method.

T - This flag is used when the analyte is found in the associated TCLP extraction as well as in the sample.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results.

P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a "P".

A - This flag indicates that a TIC is a suspected aldol-condensation product.

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

**000011**

Client No.

DCR-VER-71

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: CRVER

Matrix: (soil/water) SOIL Lab Sample ID: A5546501

Sample wt/vol: 5.07 (g/mL) G Lab File ID: G3580.MSQ

Level: (low/med) LOW Date Samp/Recv: 10/12/95 10/13/95

% Moisture: not dec. 7.7 Heated Purge: Y Date Analyzed: 10/16/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 74-87-3 | CHLOROMETHANE | 11 | U |
| 74-83-9 | BROMOMETHANE | 11 | U |
| 75-01-4 | VINYL CHLORIDE | 11 | U |
| 75-00-3 | CHLOROETHANE | 11 | U |
| 5-09-2 | METHYLENE CHLORIDE | 1 | J |
| 67-64-1 | ACETONE | 6 | J |
| 75-15-0 | CARBON DISULFIDE | 11 | U |
| 75-35-4 | 1,1-DICHLOROETHENE | 11 | U |
| 75-34-3 | 1,1-DICHLOROETHANE | 11 | U |
| 540-59-0 | 1,2-DICHLOROETHENE(TOTAL) | 11 | U |
| 67-66-3 | CHLOROFORM | 0.7 | J |
| 107-06-2 | 1,2-DICHLOROETHANE | 21 | |
| 78-93-3 | 2-BUTANONE | 11 | U |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | 11 | U |
| 56-23-5 | CARBON TETRACHLORIDE | 11 | U |
| 75-27-4 | BROMODICHLOROMETHANE | 11 | U |
| 78-87-5 | 1,2-DICHLOROPROPANE | 11 | U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | 11 | U |
| 79-01-6 | TRICHLOROETHENE | 0.6 | J |
| 124-48-1 | DIBROMOCHLOROMETHANE | 11 | U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | 9 | J |
| 71-43-2 | BENZENE | 11 | U |
| 10061-02-6 | Trans-1,3-DICHLOROPROPENE | 11 | U |
| 75-25-2 | BROMOFORM | 11 | U |
| 108-10-1 | 4-METHYL-2-PENTANONE | 11 | U |
| 591-78-6 | 2-HEXANONE | 11 | U |
| 127-18-4 | TETRACHLOROETHENE | 2 | J |
| 108-88-3 | TOLUENE | 4 | BJ |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 11 | U |
| 108-90-7 | CHLOROBENZENE | 11 | U |
| 00-41-4 | ETHYLBENZENE | 11 | U |
| 100-42-5 | STYRENE | 11 | U |
| 1330-20-7 | XYLENE(TOTAL) | 2 | J |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

**000012**

Client No.

DCR-VER-71

Lab Name: Recra Environmental  Contract: MQ772732MQ

Lab Code: RECNY  Case No.: _____  SAS No.: _____  SDG No.: CRVER

Matrix: (soil/water) SOIL  Lab Sample ID: A5546501

Sample wt/vol: 5.07 (g/mL) G  Lab File ID: G3580.MSQ

Level: (low/med) LOW  Date Samp/Recv: 10/12/95 10/13/95

% Moisture: not dec. 7.7  Date Analyzed: 10/16/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.00

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

Number TICs found: 3  CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

| | CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|---|
| 1. | | UNKNOWN SILICON COMPOUND | 20.22 | 56 | J |
| 2. | | UNKNOWN SILICON COMPOUND | 23.02 | 22 | BJ |
| 3. | | UNKNOWN | 24.67 | 7 | J |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

**000013**

Client No.

DCR-VER-72

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: CRVER

Matrix: (soil/water) SOIL Lab Sample ID: A5546502

Sample wt/vol: 5.15 (g/mL) G Lab File ID: G3581.MSQ

Level: (low/med) LOW Date Samp/Recv: 10/12/95 10/13/95

% Moisture: not dec. 12.4 Heated Purge: Y Date Analyzed: 10/16/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 74-87-3 | CHLOROMETHANE | 11 | U |
| 74-83-9 | BROMOMETHANE | 11 | U |
| 75-01-4 | VINYL CHLORIDE | 11 | U |
| 75-00-3 | CHLOROETHANE | 1 | J |
| 75-09-2 | METHYLENE CHLORIDE | 11 | U |
| 67-64-1 | ACETONE | 11 | U |
| 75-15-0 | CARBON DISULFIDE | 11 | U |
| 75-35-4 | 1,1-DICHLOROETHENE | 11 | U |
| 75-34-3 | 1,1-DICHLOROETHANE | 11 | U |
| 540-59-0 | 1,2-DICHLOROETHENE(TOTAL) | 11 | U |
| 67-66-3 | CHLOROFORM | 11 | U |
| 107-06-2 | 1,2-DICHLOROETHANE | 2 | J |
| 78-93-3 | 2-BUTANONE | 11 | U |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | 11 | U |
| 56-23-5 | CARBON TETRACHLORIDE | 11 | U |
| 75-27-4 | BROMODICHLOROMETHANE | 11 | U |
| 78-87-5 | 1,2-DICHLOROPROPANE | 11 | U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | 11 | U |
| 79-01-6 | TRICHLOROETHENE | 11 | U |
| 124-48-1 | DIBROMOCHLOROMETHANE | 11 | U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | 1 | J |
| 71-43-2 | BENZENE | 11 | U |
| 10061-02-6 | Trans-1,3-DICHLOROPROPENE | 11 | U |
| 75-25-2 | BROMOFORM | 11 | U |
| 108-10-1 | 4-METHYL-2-PENTANONE | 11 | U |
| 591-78-6 | 2-HEXANONE | 11 | U |
| 127-18-4 | TETRACHLOROETHENE | 11 | U |
| 108-88-3 | TOLUENE | 11 | U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 11 | U |
| 108-90-7 | CHLOROBENZENE | 11 | U |
| 100-41-4 | ETHYLBENZENE | 11 | U |
| 100-42-5 | STYRENE | 11 | U |
| 1330-20-7 | XYLENE(TOTAL) | 11 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

000014

Client No.

DCR-VER-72

Lab Name: Recra Environmental Contract: MQ772732MQ

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: CRVER

Matrix: (soil/water) SOIL Lab Sample ID: A5546502

Sample wt/vol: 5.15 (g/mL) G Lab File ID: G3581.MSQ

Level: (low/med) LOW Date Samp/Recv: 10/12/95 10/13/95

% Moisture: not dec. 12.4 Date Analyzed: 10/16/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

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

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| | | | | |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

00015

Client No.

MW-546-09

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: CRVER

Matrix: (soil/water) WATER Lab Sample ID: A5546503

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: K1226.MSQ

Level: (low/med) LOW Date Samp/Recv: 10/12/95 10/13/95

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 10/15/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

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

| CAS NO. | COMPOUND | | 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 |
| 5-09-2 | 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 |
| 108-88-3 | TOLUENE | 10 | U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 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 |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

000016

Client No.

MW-546-09

Lab Name: Recra Environmental  Contract: MQ772732MQ

Lab Code: RECNY  Case No.: _____  SAS No.: _____  SDG No.: CRVER

Matrix: (soil/water) WATER  Lab Sample ID: A5546503

Sample wt/vol: 5.00 (g/mL) ML  Lab File ID: K1226.MSQ

Level: (low/med) LOW  Date Samp/Recv: 10/12/95 10/13/95

% Moisture: not dec. _____  Date Analyzed: 10/15/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.00

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

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

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| | | | | |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
ANALYSIS DATA SHEET

000017
Client No.

DCR-VER-71

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: CRVER

Matrix: (soil/water) SOIL Lab Sample ID: A5546501

Sample wt/vol: 40.02 (g/mL) G Lab File ID: Z24672.RR

Level: (low/med) LOW Date Samp/Recv: 10/12/95 10/13/95

% Moisture: 7.6 decanted: (Y/N) N Date Extracted: 10/14/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/18/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.3

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| 20-12-7 | ANTHRACENE | 300 | U |
| 56-55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 300 | U |
| 50-32-8 | BENZO(A)PYRENE | 15 | J |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
ANALYSIS DATA SHEET

**000018**
Client No.

DCR-VER-72

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: CRVER

Matrix: (soil/water) SOIL Lab Sample ID: A5546502

Sample wt/vol: 40.35 (g/mL) G Lab File ID: Z24673.RR

Level: (low/med) LOW Date Samp/Recv: 10/12/95 10/13/95

% Moisture: 25.5 decanted: (Y/N) N Date Extracted: 10/14/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/18/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.3

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 120 | J |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| 120-12-7 | ANTHRACENE | 180 | J |
| 56-55-3 | BENZO(A)ANTHRACENE | 460 | |
| 205-99-2 | BENZO(B)FLUORANTHENE | 730 | |
| 207-08-9 | BENZO(K)FLUORANTHENE | 320 | |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 130 | J |
| 50-32-8 | BENZO(A)PYRENE | 430 | |
| 218-01-9 | CHRYSENE | 650 | |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 50 | J |
| 206-44-0 | FLUORANTHENE | 930 | |
| 86-73-7 | FLUORENE | 94 | J |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 190 | J |
| 91-57-6 | 2-METHYLNAPHTHALENE | 21 | J |
| 91-20-3 | NAPHTHALENE | 33 | J |
| 85-01-8 | PHENANTHRENE | 840 | |
| 129-00-0 | PYRENE | 810 | |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
ANALYSIS DATA SHEET

C00019
Client No.

DCR-VER-72 RE

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: CRVER

Matrix: (soil/water) SOIL Lab Sample ID: A5546502RI

Sample wt/vol: 40.35 (g/mL) G Lab File ID: Z24678.RR

Level: (low/med) LOW Date Samp/Recv: 10/12/95 10/13/95

% Moisture: 25.5 decanted: (Y/N) N Date Extracted: 10/14/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/18/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.3

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 110 | J |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| 120-12-7 | ANTHRACENE | 190 | J |
| 56-55-3 | BENZO(A)ANTHRACENE | 460 | |
| 205-99-2 | BENZO(B)FLUORANTHENE | 750 | |
| 207-08-9 | BENZO(K)FLUORANTHENE | 310 | |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 120 | J |
| 50-32-8 | BENZO(A)PYRENE | 430 | |
| 218-01-9 | CHRYSENE | 620 | |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 46 | J |
| 206-44-0 | FLUORANTHENE | 920 | |
| 86-73-7 | FLUORENE | 94 | J |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 170 | J |
| 91-57-6 | 2-METHYLNAPHTHALENE | 22 | J |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 810 | |
| 129-00-0 | PYRENE | 880 | |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - POLYNUCLEAR AROMATIC HYDROCARBONS
ANALYSIS DATA SHEET

**000020**

Client No.

MW-546-09

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: CRVER

Matrix: (soil/water) WATER Lab Sample ID: A5546503

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: Z24683.RR

Level: (low/med) LOW Date Samp/Recv: 10/12/95 10/13/95

% Moisture: _____ decanted: (Y/N) N Date Extracted: 10/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/19/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 10 | U |
| 208-96-8 | ACENAPHTHYLENE | 10 | U |
| 120-12-7 | ANTHRACENE | 10 | U |
| 56-55-3 | BENZO(A)ANTHRACENE | 10 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 10 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 10 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 10 | U |
| 50-32-8 | BENZO(A)PYRENE | 10 | U |
| 218-01-9 | CHRYSENE | 10 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 10 | U |
| 206-44-0 | FLUORANTHENE | 10 | U |
| 86-73-7 | FLUORENE | 10 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 10 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 10 | U |
| 91-20-3 | NAPHTHALENE | 10 | U |
| 85-01-8 | PHENANTHRENE | 10 | U |
| 129-00-0 | PYRENE | 10 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000021

DCR-VER-71

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: CRVER

Matrix: (soil/water) SOIL Lab Sample ID: A5546501

Sample wt/vol: 30.6 (g/mL) G Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N Date Received: 10/13/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/14/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/20/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 32 | U |
| 11104-28-2 | Aroclor-1221 | 66 | U |
| 11141-16-5 | Aroclor-1232 | 32 | U |
| 53469-21-9 | Aroclor-1242 | 32 | U |
| 12672-29-6 | Aroclor-1248 | 32 | U |
| 11097-69-1 | Aroclor-1254 | 32 | U |
| 11096-82-5 | Aroclor-1260 | 32 | U |

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000022

DCR-VER-72

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: CRVER

Matrix: (soil/water) SOIL Lab Sample ID: A5546502

Sample wt/vol: 30.9 (g/mL) G Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N Date Received: 10/13/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/14/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/20/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 32 | U |
| 11104-28-2 | Aroclor-1221 | 65 | U |
| 11141-16-5 | Aroclor-1232 | 32 | U |
| 53469-21-9 | Aroclor-1242 | 32 | U |
| 12672-29-6 | Aroclor-1248 | 32 | U |
| 11097-69-1 | Aroclor-1254 | 32 | U |
| 11096-82-5 | Aroclor-1260 | 32 | U |

000023
EPA SAMPLE NO.

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

MW-546-09

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: CRVER

Matrix: (soil/water) WATER Lab Sample ID: A5546503

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 10/13/95

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/17/95

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/18/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) Y

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.65 | U |
| 11104-28-2 | Aroclor-1221 | 0.65 | U |
| 11141-16-5 | Aroclor-1232 | 0.65 | U |
| 53469-21-9 | Aroclor-1242 | 0.65 | U |
| 12672-29-6 | Aroclor-1248 | 0.65 | U |
| 11097-69-1 | Aroclor-1254 | 0.65 | U |
| 11096-82-5 | Aroclor-1260 | 0.65 | U |

000024
EPA SAMPLE NO.

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

MW-546-09RI

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: CRVER

Matrix: (soil/water) WATER Lab Sample ID: A5546503RI

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 10/13/95

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/20/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) Y

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.065 | U |
| 11104-28-2 | Aroclor-1221 | 0.065 | U |
| 11141-16-5 | Aroclor-1232 | 0.065 | U |
| 53469-21-9 | Aroclor-1242 | 0.065 | U |
| 12672-29-6 | Aroclor-1248 | 0.065 | U |
| 11097-69-1 | Aroclor-1254 | 0.065 | U |
| 11096-82-5 | Aroclor-1260 | 0.065 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
WATER SURROGATE RECOVERY

000025

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: CRVER

| | Client Sample ID | BFB %REC | # | DCE %REC | # | TOL %REC | # | | | | | | TOT OUT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Matrix Spike Blank | 86 | | 98 | | 94 | | | | | | | 0 |
| 2 | MW-546-09 | 90 | | 101 | | 99 | | | | | | | 0 |
| 3 | VBLK52 | 87 | | 96 | | 96 | | | | | | | 0 |

QC LIMITS

BFB = p-Bromofluorobenzene ( 86-115)
DCE = 1,2-Dichloroethane-D4 ( 76-114)
TOL = Toluene-D8 ( 88-110)

# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
SOIL SURROGATE RECOVERY

000026

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: CRVER

Level (low/med): LOW

| | Client Sample ID | BFB %REC | # | DCE %REC | # | TOL %REC | # | | | | | | TOT OUT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | DCR-VER-71 | 97 | | 112 | | 104 | | | | | | | 0 |
| 2 | DCR-VER-72 | 101 | | 110 | | 103 | | | | | | | 0 |
| 3 | Matrix Spike Blank1 | 95 | | 98 | | 98 | | | | | | | 0 |
| 4 | Matrix Spike BlkDup1 | 94 | | 99 | | 98 | | | | | | | 0 |
| 5 | VBLK76 | 94 | | 98 | | 96 | | | | | | | 0 |

| | | | QC LIMITS |
|---|---|---|---|
| BFB | = | p-Bromofluorobenzene | ( 59-113) |
| DCE | = | 1,2-Dichloroethane-D4 | ( 70-121) |
| TOL | = | Toluene-D8 | ( 84-138) |

\# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
SOIL SURROGATE RECOVERY

000027

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: CRVER

Level (low/med): LOW

| | Client Sample ID | 2CP %REC | # | 2FP %REC | # | DCB %REC | # | FBP %REC | # | NBZ %REC | # | PHL %REC | # | TBP %REC | # | TPH %REC | # | TOT OUT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | DCR-VER-71 | 88 | | 96 | | 76 | | 98 | | 81 | | 96 | | 87 | | 90 | | 0 |
| 2 | DCR-VER-72 | 84 | | 101 | | 69 | | 88 | | 74 | | 87 | | 94 | | 94 | | 0 |
| 3 | DCR-VER-72 RE | 84 | | 98 | | 68 | | 82 | | 75 | | 93 | | 102 | | 95 | | 0 |
| 4 | Matrix Spike Blank | 80 | | 83 | | 73 | | 86 | | 80 | | 95 | | 104 | | 86 | | 0 |
| 5 | Matrix Spike Blk Dup | 87 | | 88 | | 80 | | 94 | | 84 | | 99 | | 104 | | 90 | | 0 |
| 6 | SBLK46 | 87 | | 100 | | 93 | | 107 | | 82 | | 101 | | 106 | | 96 | | 0 |

| | | | QC LIMITS |
|---|---|---|---|
| 2CP | = | 2-Chlorophenol-d4 | ( 20-130) |
| 2FP | = | 2-Fluorophenol | ( 25-121) |
| DCB | = | 1,2-Dichlorobenzene-d4 | ( 20-130) |
| FBP | = | 2-Fluorobiphenyl | ( 30-115) |
| NBZ | = | Nitrobenzene-D5 | ( 23-120) |
| PHL | = | Phenol-D5 | ( 24-113) |
| TBP | = | 2,4,6-Tribromophenol | ( 19-122) |
| TPH | = | Terphenyl-D14 | ( 18-137) |

\# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - POLYNUCLEAR AROMATIC HYDROCARBONS
WATER SURROGATE RECOVERY



Lab Name: Recra Environmental, Inc. Contract: MO772732MO

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: CRVER

| | Client Sample ID | 2CP %REC | # | DCB %REC | # | FBP %REC | # | NBZ %REC | # | PHL %REC | # | TBP %REC | # | TPH %REC | # | | TOT OUT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Matrix Spike Blank1 | 35 | | 33 | | 47 | | 35 | | 31 | | 74 | | 72 | | | 0 |
| 2 | Matrix Spike BlkDup1 | 54 | | 50 | | 66 | | 54 | | 53 | | 95 | | 83 | | | 0 |
| 3 | MW-546-09 | 71 | | 61 | | 69 | | 63 | | 64 | | 83 | | 83 | | | 0 |
| 4 | SBLK47 | 69 | | 60 | | 69 | | 68 | | 69 | | 74 | | 82 | | | 0 |

| | | | QC LIMITS |
|---|---|---|---|
| 2CP | = | 2-Chlorophenol-d4 | ( 33-110) |
| DCB | = | 1,2-Dichlorobenzene-d4 | ( 16-110) |
| FBP | = | 2-Fluorobiphenyl | ( 43-116) |
| NBZ | = | Nitrobenzene-D5 | ( 35-114) |
| PHL | = | Phenol-D5 | ( 10-110) |
| TBP | = | 2,4,6-Tribromophenol | ( 10-123) |
| TPH | = | Terphenyl-D14 | ( 33-141) |

\# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

2E

# WATER PESTICIDE SURROGATE RECOVERY

o Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: CRVER

GC Column(1): DB608 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

| | EPA SAMPLE NO. | TCX 1 %REC # | TCX 2 %REC # | DCB 1 %REC # | DCB 2 %REC # | OTHER (1) | OTHER (2) | TOT OUT |
|---|---|---|---|---|---|---|---|---|
| 01 | PBLK07 | 60 | 54* | 68 | 66 | | | 1 |
| 02 | PBLK07RI | 473* | 400* | 468* | 478* | | | 4 |
| 03 | MSB07 | 47* | 39* | 49* | 46* | | | 4 |
| 04 | MSB07RI | 490* | 418* | 446* | 455* | | | 4 |
| 05 | MSBD07 | 37* | 32* | 60 | 56* | | | 3 |
| 06 | MSBD07RI | 380* | 314* | 515* | 525* | | | 4 |
| 07 | MW-546-09 | 41* | 39* | 64 | 62 | | | 2 |
| 08 | MW-546-09RI | 386* | 354* | 535* | 550* | | | 4 |

ADVISORY QC LIMITS

TCX = Tetrachloro-m-xylene ( 60-150)
DCB = Decachlorobiphenyl ( 60-150)

# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

2F

# SOIL PESTICIDE SURROGATE RECOVERY

ab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: CRVER

GC Column(1): DB608 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

| | EPA SAMPLE NO. | TCX 1 %REC # | TCX 2 %REC # | DCB 1 %REC # | DCB 2 %REC # | OTHER (1) | OTHER (2) | TOT OUT |
|---|---|---|---|---|---|---|---|---|
| 01 | PBLK08 | 84 | 70 | 89 | 86 | | | 0 |
| 02 | DCR-VER-71 | 74 | 66 | 81 | 80 | | | 0 |
| 03 | DCR-VER-72 | 89 | 78 | 99 | 97 | | | 0 |
| 04 | MSB08 | 84 | 71 | 89 | 88 | | | 0 |
| 05 | MSBD08 | 89 | 77 | 96 | 94 | | | 0 |

| | ADVISORY QC LIMITS |
|---|---|
| TCX = Tetrachloro-m-xylene | ( 60-150) |
| DCB = Decachlorobiphenyl | ( 60-150) |

# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
WATER MATRIX SPIKE BLANK RECOVERY

000031

1 Name: Recra Environmental, Inc. Contract: MQ772732MQ Lab Samp ID: A5B0692902

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: CRVER

Matrix Spike - Client Sample No.: ~~VBLK52~~ MSBLANK

MTM 11/3/95

| COMPOUND | SPIKE ADDED UG/L | MSB CONCENTRATION UG/L | MSB % REC # | QC LIMITS REC. |
|---|---|---|---|---|
| 1,1-Dichloroethene | 50 | 61 | 122 | 61 - 145 |
| Trichloroethene | 50 | 57 | 114 | 71 - 120 |
| Benzene | 50 | 54 | 108 | 76 - 127 |
| Toluene | 50 | 51 | 102 | 76 - 125 |
| Chlorobenzene | 50 | 54 | 108 | 75 - 130 |

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

* Values outside of QC limits

Spike recovery: 0 out of 5 outside limits

ments: _____

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
SOIL MATRIX SPIKE BLANK/MATRIX SPIKE BLANK DUPLICATE RECOVERY

Name: Recra Environmental, Inc. Contract: MQ772732MQ Lab Samp ID: A5B0695803

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: CRVER

Matrix Spike - Client Sample No.: ~~VBLK76~~ MS61/MSD61 11/3/95 Level: (low/med) LOW

| COMPOUND | SPIKE ADDED UG/KG | MSB CONCENTRATION UG/KG | MSB % REC # | QC LIMITS REC. |
|---|---|---|---|---|
| 1,1-Dichloroethene | 50 | 55 | 110 | 59 - 172 |
| Trichloroethene | 50 | 40 | 80 | 62 - 137 |
| Benzene | 50 | 51 | 102 | 66 - 142 |
| Toluene | 50 | 50 | 98 | 59 - 139 |
| Chlorobenzene | 50 | 50 | 98 | 60 - 133 |

| COMPOUND | SPIKE ADDED UG/KG | MSBD CONCENTRATION UG/KG | MSBD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 50 | 48 | 96 | 14 | 22 | 59 - 172 |
| Trichloroethene | 50 | 35 | 70 | 13 | 24 | 62 - 137 |
| Benzene | 50 | 46 | 92 | 10 | 21 | 66 - 142 |
| Toluene | 50 | 45 | 88 | 11 | 21 | 59 - 139 |
| Chlorobenzene | 50 | 46 | 90 | 8 | 21 | 60 - 133 |

# 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: _____

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
SOIL MATRIX SPIKE BLANK/MATRIX SPIKE BLANK DUPLICATE RECOVERY

000033

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Lab Samp ID: A5B0693703

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: CRVER

Matrix Spike - Client Sample No.: ~~SBLK46~~ MSB/MSBD after 11/2/93 Level: (low/med) LOW

| COMPOUND | SPIKE ADDED UG/KG | MSB CONCENTRATION UG/KG | MSB % REC # | QC LIMITS REC. |
|---|---|---|---|---|
| Acenaphthene | 1700 | 1500 | 88 | 31 - 137 |
| Pyrene | 1700 | 1400 | 82 | 35 - 142 |

| COMPOUND | SPIKE ADDED UG/KG | MSBD CONCENTRATION UG/KG | MSBD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| Acenaphthene | 1700 | 1600 | 94 | 6 | 19 | 31 - 137 |
| Pyrene | 1700 | 1400 | 82 | 0 | 36 | 35 - 142 |

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

* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike recovery: 0 out of 4 outside limits

Comments: _____

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - POLYNUCLEAR AROMATIC HYDROCARBONS
WATER MATRIX SPIKE BLANK/MATRIX SPIKE BLANK DUPLICATE RECOVERY

000034

Name: Recra Environmental, Inc. Contract: MQ772732MQ Lab Samp ID: A5B0697001

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: CRVER

Matrix Spike - Client Sample No.: ~~SBLK47~~ msb1 / msd1 mtm 11/2/95

| COMPOUND | SPIKE ADDED UG/L | MSB CONCENTRATION UG/L | MSB % REC # | QC LIMITS REC. |
|---|---|---|---|---|
| Acenaphthene | 50 | 24 | 48 | 46 - 118 |
| Pyrene | 50 | 36 | 72 | 26 - 127 |

| COMPOUND | SPIKE ADDED UG/L | MSBD CONCENTRATION UG/L | MSBD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| Acenaphthene | 50 | 31 | 62 | 25 | 31 | 46 - 118 |
| Pyrene | 50 | 44 | 88 | 20 | 31 | 26 - 127 |

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

* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike recovery: 0 out of 4 outside limits

Comments: _____

_____

3F

# WATER PCB MSB/MSBD RECOVERY

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: CRVER

Matrix Spike - EPA Sample No.: MSB07,MSBD07

| COMPOUND | SPIKE ADDED (ug/L) | MSB CONCENTRATION (ug/L) | MSB % REC # |
|---|---|---|---|
| Aroclor 1242 | 10.0 | 3.5 | 35 |

| COMPOUND | SPIKE ADDED (ug/L) | MSBD CONCENTRATION (ug/L) | MSBD % REC # | % RPD |
|---|---|---|---|---|
| Aroclor 1242 | 10.0 | 3.2 | 32 | 9.0 |

COMMENTS:

3F

# WATER PCB MSB/MSBD RECOVERY

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: CRVER

Matrix Spike - EPA Sample No.: MSB07RI,MSBD07RI

| COMPOUND | SPIKE ADDED (ug/L) | MSB CONCENTRATION (ug/L) | MSB % REC # |
|---|---|---|---|
| Aroclor 1242 | 10.0 | 3.2 | 32 |

| COMPOUND | SPIKE ADDED (ug/L) | MSBD CONCENTRATION (ug/L) | MSBD % REC # | % RPD |
|---|---|---|---|---|
| Aroclor 1242 | 10.0 | 2.8 | 28 | 13 |

COMMENTS:

3F

SOIL PCB MSB/MSBD RECOVERY

000037

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: CRVER

Matrix Spike - EPA Sample No.: MSB08,MSBD08

| COMPOUND | SPIKE ADDED (ug/Kg) | MSB CONCENTRATION (ug/Kg) | MSB % REC # |
|---|---|---|---|
| Aroclor 1242 | 333 | 200 | 61 |

| COMPOUND | SPIKE ADDED (ug/Kg) | MSBD CONCENTRATION (ug/Kg) | MSBD % REC # | % RPD |
|---|---|---|---|---|
| Aroclor 1242 | 333 | 210 | 63 | 3.1 |

COMMENTS:

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
METHOD BLANK SUMMARY

000038
Client No.

VBLK52

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: CRVER

Lab File ID: K1207.MSQ Lab Sample ID: A5B0692902

Date Analyzed: 10/14/95 Time Analyzed: 15:15

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

Instrument ID: I50K

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

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 1 | Matrix Spike Blank | A5B0692901 | K1205.MSQ | 14:14 |
| 2 | MW-546-09 | A5546503 | K1226.MSQ | 00:47 |

Comments: _____

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

**000039**

Client No.

VBLK52

Lab Name: Recra Environmental, Contract: MO772732MO

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: CRVER

Matrix: (soil/water) WATER Lab Sample ID: A5B0692902

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: K1207.MSQ

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 10/14/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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 |
| [illegible]-64-1 | ACETONE | 10 | U |
| [illegible]-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 |
| 108-88-3 | TOLUENE | 10 | U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 10 | U |
| 108-90-7 | CHLOROBENZENE | 10 | U |
| 100-41-4 | ETHYLBENZENE | 10 | U |
| [illegible]0-42-5 | STYRENE | 10 | U |
| [illegible]330-20-7 | XYLENE(TOTAL) | 10 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

000040

Client No.

VBLK52

Lab Name: Recra Environmental  Contract: MQ772732MQ

Lab Code: RECNY  Case No.: _____  SAS No.: _____  SDG No.: CRVER

Matrix: (soil/water) WATER  Lab Sample ID: A5B0692902

Sample wt/vol: 5.00 (g/mL) ML  Lab File ID: K1207.MSQ

Level: (low/med) LOW  Date Samp/Recv: _____ _____

% Moisture: not dec. _____  Date Analyzed: 10/14/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.00

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

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

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| | | | | |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
METHOD BLANK SUMMARY

**000041**
Client No.

VBLK76

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: CRVER

Lab File ID: G3571.MSQ Lab Sample ID: A5B0695803

Date Analyzed: 10/16/95 Time Analyzed: 11:00

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

Instrument ID: I50G

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

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 1 | DCR-VER-71 | A5546501 | G3580.MSQ | 16:39 |
| 2 | DCR-VER-72 | A5546502 | G3581.MSQ | 17:11 |
| 3 | Matrix Spike Blank1 | A5B0695801 | G3568.MSQ | 09:22 |
| 4 | Matrix Spike BlkDup1 | A5B0695802 | G3569.MSQ | 09:55 |

Comments: _____

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

**000042**

Client No.: VBLK76

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: CRVER

Matrix: (soil/water) SOIL Lab Sample ID: A5B0695803

Sample wt/vol: 5.00 (g/mL) G Lab File ID: G3571.MSQ

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: not dec. _____ Heated Purge: Y Date Analyzed: 10/16/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | 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 |
| 5-09-2 | METHYLENE CHLORIDE | 10 | U |
| 7-64-1 | 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 |
| 108-88-3 | TOLUENE | 0.9 | J |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | 10 | U |
| 108-90-7 | CHLOROBENZENE | 1 | J |
| 00-41-4 | ETHYLBENZENE | 10 | U |
| 00-42-5 | STYRENE | 10 | U |
| 1330-20-7 | XYLENE(TOTAL) | 10 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

**000043**

Client No.

VBLK76

Lab Name: Recra Environmental  Contract: MQ772732MQ

Lab Code: RECNY  Case No.: _____  SAS No.: _____  SDG No.: CRVER

Matrix: (soil/water) SOIL  Lab Sample ID: A5B0695803

Sample wt/vol: 5.00 (g/mL) G  Lab File ID: G3571.MSQ

Level: (low/med) LOW  Date Samp/Recv: _____ _____

% Moisture: not dec. _____  Date Analyzed: 10/16/95

GC Column: DB-624  ID: 0.53 (mm)  Dilution Factor: 1.00

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

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

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN SILICON COMPOUND | 22.97 | 14 | J |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
METHOD BLANK SUMMARY

C00044
Client No.

SBLK46

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: CRVER

Lab File ID: Z24670.RR Lab Sample ID: A5B0693703

Instrument ID: I50Z-A Date Extracted: 10/14/95

Matrix: (soil/water) SOIL Date Analyzed: 10/18/95

Level: (low/med) LOW Time Analyzed: 14:33

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

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|---|
| 1 | DCR-VER-71 | A5546501 | Z24672.RR | 10/18/95 |
| 2 | DCR-VER-72 | A5546502 | Z24673.RR | 10/18/95 |
| 3 | DCR-VER-72 RE | A5546502RI | Z24678.RR | 10/18/95 |
| 4 | Matrix Spike Blank | A5B0693701 | Z24668.RR | 10/18/95 |
| 5 | Matrix Spike Blk Dup | A5B0693702 | Z24671.RR | 10/18/95 |

mments: _____

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
ANALYSIS DATA SHEET

C00045

Client No.

SBLK46

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: CRVER

Matrix: (soil/water) SOIL Lab Sample ID: A5B0693703

Sample wt/vol: 30.00 (g/mL) G Lab File ID: Z24670.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 10/14/95

Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/18/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 300 | U |
| 208-96-8 | ACENAPHTHYLENE | 300 | U |
| 20-12-7 | ANTHRACENE | 300 | U |
| 5-55-3 | BENZO(A)ANTHRACENE | 300 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 300 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 300 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 300 | U |
| 50-32-8 | BENZO(A)PYRENE | 300 | U |
| 218-01-9 | CHRYSENE | 300 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 300 | U |
| 206-44-0 | FLUORANTHENE | 300 | U |
| 86-73-7 | FLUORENE | 300 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 300 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 300 | U |
| 91-20-3 | NAPHTHALENE | 300 | U |
| 85-01-8 | PHENANTHRENE | 300 | U |
| 129-00-0 | PYRENE | 300 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - POLYNUCLEAR AROMATIC HYDROCARBONS
METHOD BLANK SUMMARY

000046
Client No.

SBLK47

Lab Name: Recra Environmental, Contract: MO772732MO

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: CRVER

Lab File ID: Z24674.RR Lab Sample ID: A5B0697001

Instrument ID: I50Z-A Date Extracted: 10/17/95

Matrix: (soil/water) WATER Date Analyzed: 10/18/95

Level: (low/med) LOW Time Analyzed: 17:35

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

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|---|
| 1 | Matrix Spike Blank1 | A5B0697002 | Z24682.RR | 10/19/95 |
| 2 | Matrix Spike BlkDup1 | A5B0697003 | Z24681.RR | 10/19/95 |
| 3 | MW-546-09 | A5546503 | Z24683.RR | 10/19/95 |

Comments: _____

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - POLYNUCLEAR AROMATIC HYDROCARBONS
ANALYSIS DATA SHEET

Client No.: SBLK47

Lab Name: Recra Environmental, Contract: MQ772732MQ

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: CRVER

Matrix: (soil/water) WATER Lab Sample ID: A5B0697001

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: Z24674.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 10/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/18/95

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 83-32-9 | ACENAPHTHENE | 10 | U |
| 208-96-8 | ACENAPHTHYLENE | 10 | U |
| 120-12-7 | ANTHRACENE | 10 | U |
| 56-55-3 | BENZO(A)ANTHRACENE | 10 | U |
| 205-99-2 | BENZO(B)FLUORANTHENE | 10 | U |
| 207-08-9 | BENZO(K)FLUORANTHENE | 10 | U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 10 | U |
| 50-32-8 | BENZO(A)PYRENE | 10 | U |
| 218-01-9 | CHRYSENE | 10 | U |
| 53-70-3 | DIBENZO(A,H)ANTHRACENE | 10 | U |
| 206-44-0 | FLUORANTHENE | 10 | U |
| 86-73-7 | FLUORENE | 10 | U |
| 193-39-5 | INDENO(1,2,3-CD)PYRENE | 10 | U |
| 91-57-6 | 2-METHYLNAPHTHALENE | 10 | U |
| 91-20-3 | NAPHTHALENE | 10 | U |
| 85-01-8 | PHENANTHRENE | 10 | U |
| 129-00-0 | PYRENE | 10 | U |

EPA SAMPLE NO.

PBLK07

4C

PESTICIDE METHOD BLANK SUMMARY

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: CRVER

Lab Sample ID: A5B0699701 Lab File ID: _____

Matrix: (soil/water) WATER Extraction: (SepF/Cont/Sonc) SEPF

Sulfur Cleanup: (Y/N) Y Date Extracted: 10/17/95

Date Analyzed (1): 10/18/95 Date Analyzed (2): 10/18/95

Time Analyzed (1): 1801 Time Analyzed (2): 1801

Instrument ID (1): 5890A9 Instrument ID (2): 5890B9

GC Column (1): DB608 ID: 0.53 (mm) GC Column (2): DB1701 ID: 0.53 (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 | MSB07 | A5B0699702 | 10/18/95 | 10/18/95 |
| 02 | MSBD07 | A5B0699703 | 10/18/95 | 10/18/95 |
| 03 | MW-546-09 | A5546503 | 10/18/95 | 10/18/95 |

COMMENTS:

1D

EPA SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS DATA SHEET

PBLK07

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: CRVER

Matrix: (soil/water) WATER Lab Sample ID: A5B0699701

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/17/95

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/18/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) Y

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.65 | U |
| 11104-28-2 | Aroclor-1221 | 0.65 | U |
| 11141-16-5 | Aroclor-1232 | 0.65 | U |
| 53469-21-9 | Aroclor-1242 | 0.65 | U |
| 12672-29-6 | Aroclor-1248 | 0.65 | U |
| 11097-69-1 | Aroclor-1254 | 0.65 | U |
| 11096-82-5 | Aroclor-1260 | 0.65 | U |

4C

# PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.: PBLK07RI

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: CRVER

Lab Sample ID: A5B0699701RI Lab File ID: _____

Matrix: (soil/water) WATER Extraction: (SepF/Cont/Sonc) SEPF

Sulfur Cleanup: (Y/N) Y Date Extracted: 10/17/95

Date Analyzed (1): 10/20/95 Date Analyzed (2): 10/20/95

Time Analyzed (1): 1454 Time Analyzed (2): 1454

Instrument ID (1): 5890A9 Instrument ID (2): 5890B9

GC Column (1): DB608 ID: 0.53 (mm) GC Column (2): DB1701 ID: 0.53 (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 | MSB07RI | A5B0699702RI | 10/20/95 | 10/20/95 |
| 02 | MSBD07RI | A5B0699703RI | 10/20/95 | 10/20/95 |
| 03 | MW-546-09RI | A5546503RI | 10/20/95 | 10/20/95 |

COMMENTS:

1D

EPA SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS DATA SHEET

PBLK07RI

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: CRVER

Matrix: (soil/water) WATER Lab Sample ID: A5B0699701RI

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/20/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) Y

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.065 | U |
| 11104-28-2 | Aroclor-1221 | 0.065 | U |
| 11141-16-5 | Aroclor-1232 | 0.065 | U |
| 53469-21-9 | Aroclor-1242 | 0.065 | U |
| 12672-29-6 | Aroclor-1248 | 0.065 | U |
| 11097-69-1 | Aroclor-1254 | 0.065 | U |
| 11096-82-5 | Aroclor-1260 | 0.065 | U |

000052
EPA SAMPLE NO.

4C
PESTICIDE METHOD BLANK SUMMARY

PBLK08

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: CRVER

Lab Sample ID: A5B0693503 Lab File ID: _____

Matrix: (soil/water) SOIL Extraction: (SepF/Cont/Sonc) SONC

Sulfur Cleanup: (Y/N) N Date Extracted: 10/14/95

Date Analyzed (1): 10/20/95 Date Analyzed (2): 10/20/95

Time Analyzed (1): 0820 Time Analyzed (2): 0820

Instrument ID (1): 5890A9 Instrument ID (2): 5890B9

GC Column (1): DB608 ID: 0.53 (mm) GC Column (2): DB1701 ID: 0.53 (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 | DCR-VER-71 | A5546501 | 10/20/95 | 10/20/95 |
| 02 | DCR-VER-72 | A5546502 | 10/20/95 | 10/20/95 |
| 03 | MSB08 | A5B0693501 | 10/20/95 | 10/20/95 |
| 04 | MSBD08 | A5B0693502 | 10/20/95 | 10/20/95 |

COMMENTS:

000053
EPA SAMPLE NO.

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

PBLK08

Lab Name: RECRA ENVIRON Contract: NY95-438

Lab Code: RECNY Case No.: 5754 SAS No.: _____ SDG No.: CRVER

Matrix: (soil/water) SOIL Lab Sample ID: A5B0693503

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/14/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/20/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 33 | U |
| 11104-28-2 | Aroclor-1221 | 67 | U |
| 11141-16-5 | Aroclor-1232 | 33 | U |
| 53469-21-9 | Aroclor-1242 | 33 | U |
| 12672-29-6 | Aroclor-1248 | 33 | U |
| 11097-69-1 | Aroclor-1254 | 33 | U |
| 11096-82-5 | Aroclor-1260 | 33 | U |

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

000054

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Labsampid: A5B0695805

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: CRVER

Lab File ID (Standard): G3567.MSQ Date Analyzed: 10/16/95

Instrument ID: I50G Time Analyzed: 08:29

GC Column(1): DB-624 ID: 0.530 (mm) Heated Purge: (Y/N) Y

| | | IS1 (BCM) AREA | # | RT | # | IS2 (CBZ) AREA | # | RT | # | IS3 (DFB) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 62681 | | 11.22 | | 165280 | | 18.18 | | 175563 | | 13.28 | |
| | UPPER LIMIT | 125362 | | 11.72 | | 330560 | | 18.68 | | 351126 | | 13.78 | |
| | LOWER LIMIT | 31341 | | 10.72 | | 82640 | | 17.68 | | 87782 | | 12.78 | |
| | CLIENT SAMPLE | | | | | | | | | | | | |
| 1 | DCR-VER-71 | 46487 | | 11.32 | | 122259 | | 18.25 | | 148904 | | 13.38 | |
| 2 | DCR-VER-72 | 51802 | | 11.30 | | 134527 | | 18.23 | | 164572 | | 13.37 | |
| 3 | Matrix Spike Blank1 | 64178 | | 11.25 | | 168561 | | 18.22 | | 183705 | | 13.32 | |
| 4 | Matrix Spike BlkDup1 | 65309 | | 11.22 | | 175121 | | 18.20 | | 193642 | | 13.30 | |
| | VBLK76 | 62794 | | 11.22 | | 163130 | | 18.22 | | 175359 | | 13.32 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS1 (BCM) = BROMOCHLOROMETHANE | ( 50-200) | -0.50 / +0.50 min |
| IS2 (CBZ) = Chlorobenzene-D5 | ( 50-200) | -0.50 / +0.50 min |
| IS3 (DFB) = 1,4-Difluorobenzene | ( 50-200) | -0.50 / +0.50 min |

# Column to be used to flag recovery values
* Values outside of contract required QC limits

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-1 - VOLATILES
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

000055

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Labsampid: A5C0001605

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: CRVER

Lab File ID (Standard): K1203.MSQ Date Analyzed: 10/14/95

Instrument ID: I50K Time Analyzed: 13:02

GC Column(1): DB-624 ID: 0.530 (mm) Heated Purge: (Y/N) N

| | | IS1 (BCM) AREA | # | RT | # | IS2 (CBZ) AREA | # | RT | # | IS3 (DFB) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 45606 | | 11.02 | | 195280 | | 18.05 | | 187336 | | 13.15 | |
| | UPPER LIMIT | 91212 | | 11.52 | | 390560 | | 18.55 | | 374672 | | 13.65 | |
| | LOWER LIMIT | 22803 | | 10.52 | | 97640 | | 17.55 | | 93668 | | 12.65 | |
| | CLIENT SAMPLE | | | | | | | | | | | | |
| 1 | Matrix Spike Blank | 40567 | | 11.02 | | 177003 | | 18.05 | | 171319 | | 13.15 | |
| 2 | MW-546-09 | 44554 | | 11.00 | | 175917 | | 18.02 | | 177338 | | 13.12 | |
| 3 | VBLK52 | 39698 | | 10.98 | | 159820 | | 18.02 | | 157659 | | 13.12 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS1 (BCM) = BROMOCHLOROMETHANE | ( 50-200) | -0.50 / +0.50 min |
| IS2 (CBZ) = Chlorobenzene-D5 | ( 50-200) | -0.50 / +0.50 min |
| IS3 (DFB) = 1,4-Difluorobenzene | ( 50-200) | -0.50 / +0.50 min |

\# Column to be used to flag recovery values
* Values outside of contract required QC limits

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

000056

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Labsampid: A5C0001604

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: CRVER

Lab File ID (Standard): Z24664.RR Date Analyzed: 10/18/95

Instrument ID: I50Z-A Time Analyzed: 09:44

| | | IS1 (ANT) AREA | # | RT | # | IS2 (CRY) AREA | # | RT | # | IS3 (DCB) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 469302 | | 15.43 | | 787418 | | 27.92 | | 219174 | | 6.67 | |
| | UPPER LIMIT | 938604 | | 15.93 | | 1574836 | | 28.42 | | 438348 | | 7.17 | |
| | LOWER LIMIT | 234651 | | 14.93 | | 393709 | | 27.42 | | 109587 | | 6.17 | |
| | CLIENT SAMPLE | | | | | | | | | | | | |
| 1 | DCR-VER-71 | 375360 | | 15.42 | | 784782 | | 27.88 | | 174692 | | 6.72 | |
| 2 | DCR-VER-72 | 420906 | | 15.40 | | 661748 | | 27.93 | | 183102 | | 6.68 | |
| 3 | DCR-VER-72 RE | 378447 | | 15.42 | | 621030 | | 27.95 | | 161602 | | 6.70 | |
| 4 | Matrix Spike Blank | 620476 | | 15.43 | | 1140515 | | 27.90 | | 265347 | | 6.73 | |
| 5 | Matrix Spike Blk Dup | 462720 | | 15.42 | | 829621 | | 27.88 | | 215725 | | 6.73 | |
| 6 | SBLK46 | 467575 | | 15.42 | | 885304 | | 27.88 | | 227440 | | 6.72 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS1 (ANT) = Acenaphthene-D10 | ( 50-200) | -0.50 / +0.50 min |
| IS2 (CRY) = Chrysene-D12 | ( 50-200) | -0.50 / +0.50 min |
| IS3 (DCB) = 1,4-Dichlorobenzene-D4 | ( 50-200) | -0.50 / +0.50 min |

\# Column to be used to flag recovery values
* Values outside of contract required QC limits

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - HSL POLYNUCLEAR AROMATIC HYDROCARBONS
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

000057

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Labsampid: A5C0001604

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: CRVER

Lab File ID (Standard): Z24664.RR Date Analyzed: 10/18/95

Instrument ID: I50Z-A Time Analyzed: 09:44

| | | IS4 (NPT) AREA | # | RT | # | IS5 (PHN) AREA | # | RT | # | IS6 (PRY) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 765245 | | 10.22 | | 659606 | | 19.87 | | 1025307 | | 31.92 | |
| | UPPER LIMIT | 1530490 | | 10.72 | | 1319212 | | 20.37 | | 2050614 | | 32.42 | |
| | LOWER LIMIT | 382623 | | 9.72 | | 329803 | | 19.37 | | 512654 | | 31.42 | |
| | CLIENT SAMPLE | | | | | | | | | | | | |
| 1 | DCR-VER-71 | 711131 | | 10.20 | | 678162 | | 19.85 | | 677813 | | 31.90 | |
| 2 | DCR-VER-72 | 752848 | | 10.18 | | 690516 | | 19.85 | | 495447 | * | 31.98 | |
| 3 | DCR-VER-72 RE | 647520 | | 10.20 | | 616833 | | 19.87 | | 463575 | * | 31.98 | |
| 4 | Matrix Spike Blank | 1052151 | | 10.22 | | 889721 | | 19.88 | | 981183 | | 31.90 | |
| 5 | Matrix Spike Blk Dup | 821944 | | 10.22 | | 651439 | | 19.87 | | 719568 | | 31.90 | |
| 6 | SBLK46 | 895400 | | 10.20 | | 754267 | | 19.87 | | 750899 | | 31.90 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS4 (NPT) = Naphthalene-D8 | ( 50-200) | -0.50 / +0.50 min |
| IS5 (PHN) = Phenanthrene-D10 | ( 50-200) | -0.50 / +0.50 min |
| IS6 (PRY) = Perylene-D12 | ( 50-200) | -0.50 / +0.50 min |

\# Column to be used to flag recovery values
* Values outside of contract required QC limits

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - POLYNUCLEAR AROMATIC HYDROCARBONS
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

000058

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Labsampid: A5C0001604

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: CRVER

Lab File ID (Standard): Z24664.RR Date Analyzed: 10/18/95

Instrument ID: I50Z-A Time Analyzed: 09:44

| | | IS1 (ANT) AREA | # | RT | # | IS2 (CRY) AREA | # | RT | # | IS3 (DCB) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 469302 | | 15.43 | | 787418 | | 27.92 | | 219174 | | 6.67 | |
| | UPPER LIMIT | 938604 | | 15.93 | | 1574836 | | 28.42 | | 438348 | | 7.17 | |
| | LOWER LIMIT | 234651 | | 14.93 | | 393709 | | 27.42 | | 109587 | | 6.17 | |
| | CLIENT SAMPLE | | | | | | | | | | | | |
| 1 | SBLK47 | 410948 | | 15.42 | | 839199 | | 27.88 | | 193557 | | 6.67 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS1 (ANT) = Acenaphthene-D10 | ( 50-200) | -0.50 / +0.50 min |
| IS2 (CRY) = Chrysene-D12 | ( 50-200) | -0.50 / +0.50 min |
| IS3 (DCB) = 1,4-Dichlorobenzene-D4 | ( 50-200) | -0.50 / +0.50 min |

# Column to be used to flag recovery values
* Values outside of contract required QC limits

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - POLYNUCLEAR AROMATIC HYDROCARBONS
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

000059

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Labsampid: A5C0001604

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: CRVER

Lab File ID (Standard): Z24664.RR Date Analyzed: 10/18/95

Instrument ID: I50Z-A Time Analyzed: 09:44

| | | IS4 (NPT) AREA | # | RT | # | IS5(PHN) AREA | # | RT | # | IS6 (PRY) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 765245 | | 10.22 | | 659606 | | 19.87 | | 1025307 | | 31.92 | |
| | UPPER LIMIT | 1530490 | | 10.72 | | 1319212 | | 20.37 | | 2050614 | | 32.42 | |
| | LOWER LIMIT | 382623 | | 9.72 | | 329803 | | 19.37 | | 512654 | | 31.42 | |
| | CLIENT SAMPLE | | | | | | | | | | | | |
| 1 | SBLK47 | 745087 | | 10.20 | | 677508 | | 19.87 | | 689181 | | 31.90 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS4 (NPT) = Naphthalene-D8 | ( 50-200) | -0.50 / +0.50 min |
| IS5 (PHN) = Phenanthrene-D10 | ( 50-200) | -0.50 / +0.50 min |
| IS6 (PRY) = Perylene-D12 | ( 50-200) | -0.50 / +0.50 min |

# Column to be used to flag recovery values
* Values outside of contract required QC limits

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - POLYNUCLEAR AROMATIC HYDROCARBONS
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

000060

Lab Name: Recra Environmental, Inc. Contract: MO772732MO Labsampid: A5C0001615

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: CRVER

Lab File ID (Standard): Z24680.RR Date Analyzed: 10/19/95

Instrument ID: I50Z-A Time Analyzed: 09:23

| | | IS1 (ANT) AREA | # | RT | # | IS2 (CRY) AREA | # | RT | # | IS3 (DCB) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 322296 | | 15.33 | | 595679 | | 27.80 | | 150723 | | 6.58 | |
| | UPPER LIMIT | 644592 | | 15.83 | | 1191358 | | 28.30 | | 301446 | | 7.08 | |
| | LOWER LIMIT | 161148 | | 14.83 | | 297840 | | 27.30 | | 75362 | | 6.08 | |
| | CLIENT SAMPLE | | | | | | | | | | | | |
| 1 | Matrix Spike Blank1 | 287147 | | 15.32 | | 514033 | | 27.77 | | 141128 | | 6.57 | |
| 2 | Matrix Spike BlkDup1 | 301308 | | 15.32 | | 526425 | | 27.77 | | 149877 | | 6.58 | |
| 3 | MW-546-09 | 295305 | | 15.32 | | 515196 | | 27.77 | | 118253 | | 6.58 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS1 (ANT) = Acenaphthene-D10 | ( 50-200) | -0.50 / +0.50 min |
| IS2 (CRY) = Chrysene-D12 | ( 50-200) | -0.50 / +0.50 min |
| IS3 (DCB) = 1,4-Dichlorobenzene-D4 | ( 50-200) | -0.50 / +0.50 min |

\# Column to be used to flag recovery values
* Values outside of contract required QC limits

ALUMINUM COMPANY OF AMERICA
ALCOA - DENNISON CROSSROADS VERIFICATION
ASP91-2 - POLYNUCLEAR AROMATIC HYDROCARBONS
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

000061

Lab Name: Recra Environmental, Inc. Contract: MQ772732MQ Labsampid: A5C0001615

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: CRVER

Lab File ID (Standard): Z24680.RR Date Analyzed: 10/19/95

Instrument ID: I50Z-A Time Analyzed: 09:23

| | | IS4 (NPT) AREA | # | RT | # | IS5 (PHN) AREA | # | RT | # | IS6 (PRY) AREA | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 590823 | | 10.13 | | 484154 | | 19.77 | | 726881 | | 31.80 | |
| | UPPER LIMIT | 1181646 | | 10.63 | | 968308 | | 20.27 | | 1453762 | | 32.30 | |
| | LOWER LIMIT | 295412 | | 9.63 | | 242077 | | 19.27 | | 363441 | | 31.30 | |
| | CLIENT SAMPLE | | | | | | | | | | | | |
| 1 | Matrix Spike Blank1 | 512002 | | 10.10 | | 415501 | | 19.75 | | 566368 | | 31.78 | |
| 2 | Matrix Spike BlkDup1 | 562098 | | 10.12 | | 408825 | | 19.75 | | 620641 | | 31.78 | |
| 3 | MW-546-09 | 473534 | | 10.10 | | 443505 | | 19.75 | | 516984 | | 31.78 | |

| | AREA UNIT QC LIMITS | RT QC LIMITS |
|---|---|---|
| IS4 (NPT) = Naphthalene-D8 | ( 50-200) | -0.50 / +0.50 min |
| IS5 (PHN) = Phenanthrene-D10 | ( 50-200) | -0.50 / +0.50 min |
| IS6 (PRY) = Perylene-D12 | ( 50-200) | -0.50 / +0.50 min |

\# Column to be used to flag recovery values
* Values outside of contract required QC limits