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Date: May 16, 2003
Refer to: ER2003-0354

MAY 2003

Mr. John Young, Corrective Action Project Leader
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SUBJECT: SUBMITTAL OF VOLUNTARY CORRECTIVE ACTION (VCA) COMPLETION REPORT FOR AREA OF CONCERN (AOC) 48-012 AT TECHNICAL AREA (TA) 48 LOS ALAMOS NATIONAL LABORATORY (LANL)

Dear Mr. Young:

Enclosed please find two copies of the "Voluntary Corrective Action Completion Report for Area of Concern (AOC) 48-012 at Technical Area (TA) 48". This VCA Completion Report is being submitted in lieu of the Solid Waste Management Unit Assessment Report required by the Notice of Violation Letter dated May 1, 2003 (J. Bearzi to R. Erickson and P. Nanos). The VCA Completion Report provides the information identified in Section G.5 of the Hazardous and Solid Waste Amendments Model VIII of LANL's Resource Conservation and Recovery Act Permit.
In addition, this report details investigation and cleanup activities, and documents that there is no remaining risk to human health and the environment from the contamination that was encountered at this site in August of 2002.

If you have any questions, please contact Gabriela Lopez Escobedo (505) 665-7352.

Sincerely,

David McInroy, Acting Program Manager
Remediation Program
Los Alamos National Laboratory

Sincerely,

for

David Gregory, Project Manager
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DM/DG/GLE/vn

Enclosure: VCA Completion Report for AOC 48-012 at TA 48

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Remediation Program

RRES

LA-UR-03-3314
May 2003
ER2003-0336

Voluntary Corrective Action Completion Report for Area of Concern 48-012 at Technical Area 48

Los Alamos
NATIONAL LABORATORY
Los Alamos NM 87545

Produced by the Risk Reduction and Environmental Stewardship Division's Remediation Program

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EXECUTIVE SUMMARY

This voluntary corrective action (VCA) completion report describes the characterization and remediation of Area of Concern (AOC) 48-012, which is located within Technical Area 48 (TA-48) at Los Alamos National Laboratory (the Laboratory).

In August 2002, soil contamination was identified by a Johnson Controls Northern New Mexico utilities trenching crew. The crew unearthed stained and chemical-smelling soil during site preparation for the placement of a new transportable office building. The Laboratory and the Department of Energy notified the New Mexico Environment Department of the release, and the Laboratory designated the site an area of concern (AOC 48-012). The Laboratory's Risk Reduction and Environmental Stewardship Division–Remediation Program provided technical expertise and contract oversight. Based upon preliminary sampling results and the operational history of TA-48, the chemicals of potential concern (COPCs) included both volatile organic compounds and semi-volatile organic compounds.

The ensuing VCA used Environmental Protection Agency Region 6 preliminary remediation goals as cleanup criteria. The criteria were based upon potential risk to an outdoor worker in an industrial setting and were applied to three primary organic COPCs: 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and naphthalene.

Approximately 190 yd^3 of contaminated material were removed from the site, then transported to, and disposed of, at the Rio Rancho Landfill as industrial waste. Post-excavation screening and sampling results showed the COPCs to be below target cleanup concentrations. The excavated area was backfilled with clean fill, and the site was recontoured to its original elevation and re-covered with asphalt. Characterization, cleanup, and restoration of the site were successfully completed, and further assessment or investigation of this site is not warranted.

CONTENTS

1.0 INTRODUCTION 1

2.0 AOC 48-012 3

2.1 Description and Operational History 3
2.2 Previous Investigations 4
2.3 Preliminary Site Conceptual Model 7
2.4 Investigative Activities 7
2.4.1 Site Surveys 8
2.4.2 Preliminary Grab Samples 8
2.4.3 Pre-excavation Samples and VOC Analyses Results 12
2.4.4 Pre-excavation Samples and SVOC and Radionuclide Analyses Results 16
2.4.5 Data from Samples Collected Prior to Cleanup 16
2.5 Basis for Cleanup 17
2.6 Remedial Activities 18
2.6.1 Confirmatory Sampling Activities and Results 22
2.6.2 Revised Conceptual Model 25
2.6.3 Site Restoration 26
2.7 Site Assessments 26

3.0 WASTE MANAGEMENT 28

4.0 REFERENCES 28

Appendix A Acronyms and Glossary

Appendix B Analytical Laboratory Reports and Chain-of-Custody Records

Appendix C Ecological Scoping Checklist and Surface Water Assessment

Appendix D Photos of VCA Cleanup

List of Figures

Figure 1.0-1. Location of TA-48 with respect to Laboratory technical areas and surrounding landholdings 2
Figure 1.0-2. Location of AOC 48-012 and nearby AOCs 48-002(c) and 48-002(e) 3
Figure 2.4-1. Location of grid nodes and EMFLUX survey results 9
Figure 2.4-2. Preliminary grab samples, pre-excavation borehole locations, contaminant detections, and the approximate location of the cross-section in Figure 2.4-3 10
Figure 2.4-3. Schematic cross-section showing relative position of detected organic chemicals in characterization samples 11
Figure 2.6-1. Location of trenches and area of excavation 20
Figure 2.6-2. Post-excavation sampling locations for PID headspace measurements 21
Figure 2.6-3. Location of post-excavation confirmatory samples and organic chemical detections at AOC 48-012 23

List of Tables

Table 2.1-1. Correspondence Among the Laboratory, the DOE, and NMED Pertaining to AOC 48-0125
Table 2.4-1. Analyses Performed on Pre-Excavation Samples 13
Table 2.4-2. PID Measurements from Boreholes 15
Table 2.5-1. PRGs Proposed for AOC 48-012 17
Table 2.6-1. Headspace Sample PID Measurements in the Walls of the Excavation 18
Table 2.6-2. Summary of Confirmatory Samples Collected 22
Table 2.6-3. Frequency of Detected Organic Chemicals in Confirmatory Samples at AOC 48-012 24
Table 2.6-4. Detected Organic Chemicals in Confirmatory Samples 25
Table 2.7-1. Comparison of Noncarcinogenic Chemicals to Outdoor Worker Values 27
Table 2.7-2. Comparison of Carcinogenic Chemicals to Outdoor Worker Values 28

1.0 INTRODUCTION

This voluntary corrective action (VCA) completion report describes the characterization and remediation of Area of Concern (AOC) 48-012, which is located within Technical Area 48 (TA-48) at Los Alamos National Laboratory (the Laboratory). This investigation and the ensuing corrective action were conducted after a Laboratory facility group discovered contaminated soil in August 2002. Contamination was discovered during utility trenching at Technical Area 48 (TA-48; see Figure 1.0-1) for a new office building. The Laboratory and the DOE notified the New Mexico Environment Department (NMED) on August 8, 2002 of the release through the discharge notification process, in accordance with the New Mexico Water Quality Control Commission (NMWQCC) regulations (20 NMAC 6.2). The Laboratory later requested that the NMED Surface Water Quality Bureau (NMED SWQB) close out the file for the site under the NMWQCC regulations because the source was believed to be an operational spill. The DOE and the Laboratory have proposed that this site be an AOC (AOC 48-012; Figure 1.0-2) because a source indicating routine and systematic releases was not found, and because this contamination is not related to a unit in which wastes were managed.

The objectives of this VCA were

- mitigation of potential health risks associated with contamination at the site,
- removal of the organic contaminant source, and
- prevention of future contaminant migration.

To meet these objectives, LANL prepared work plans to:

- define the nature and extent of contamination at the site,
- excavate and disposed of the contaminated soil,
- verify that cleanup criteria had been met, and
- restore the site.

Section 2.0 of this report summarizes the preliminary conceptual model, investigation activities, data review, revised conceptual model, and site assessment results from the VCA. The current and anticipated future land use, climate, geology, hydrology, ecological resources, and cultural resources of the general area of the AOC are also discussed in section 2.0. Section 3.0 summarizes the site restoration, section 4.0 discusses waste disposal, and section 5.0 lists the references cited in this document. Appendix A provides a list of acronyms and a glossary of terms. Appendix B contains a copy of the analytical laboratory report with results of sample analyses. Appendix C contains the ecological scoping checklist. Appendix D contains photos of the remediation, from the trenching activities that initially uncovered the AOC through characterization, excavation, and site restoration. (The photos are a chronological pictorial of the VCA and are not specifically called out in the text.)

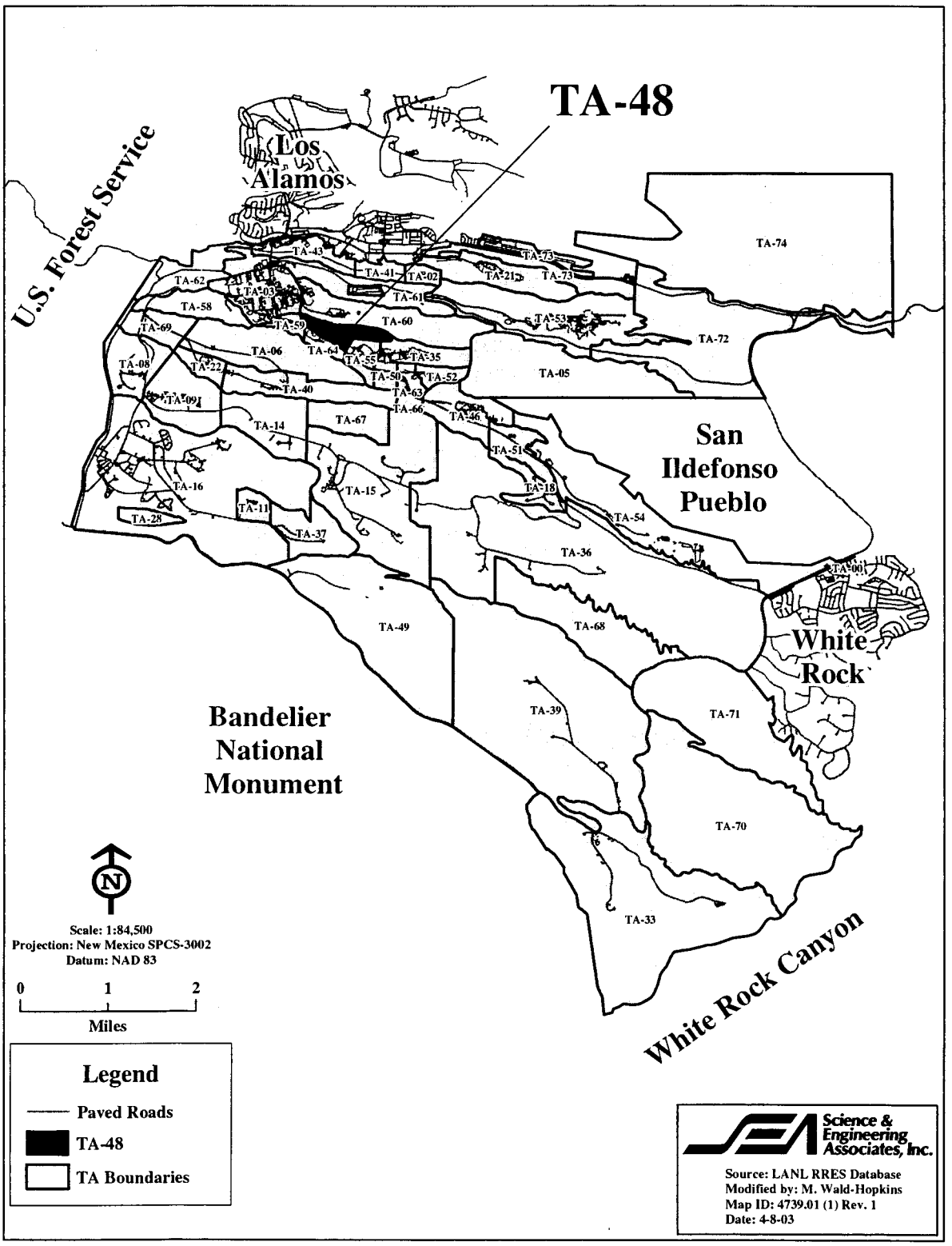

Figure 1.0-1. Location of TA-48 with respect to Laboratory technical areas and surrounding landholdings

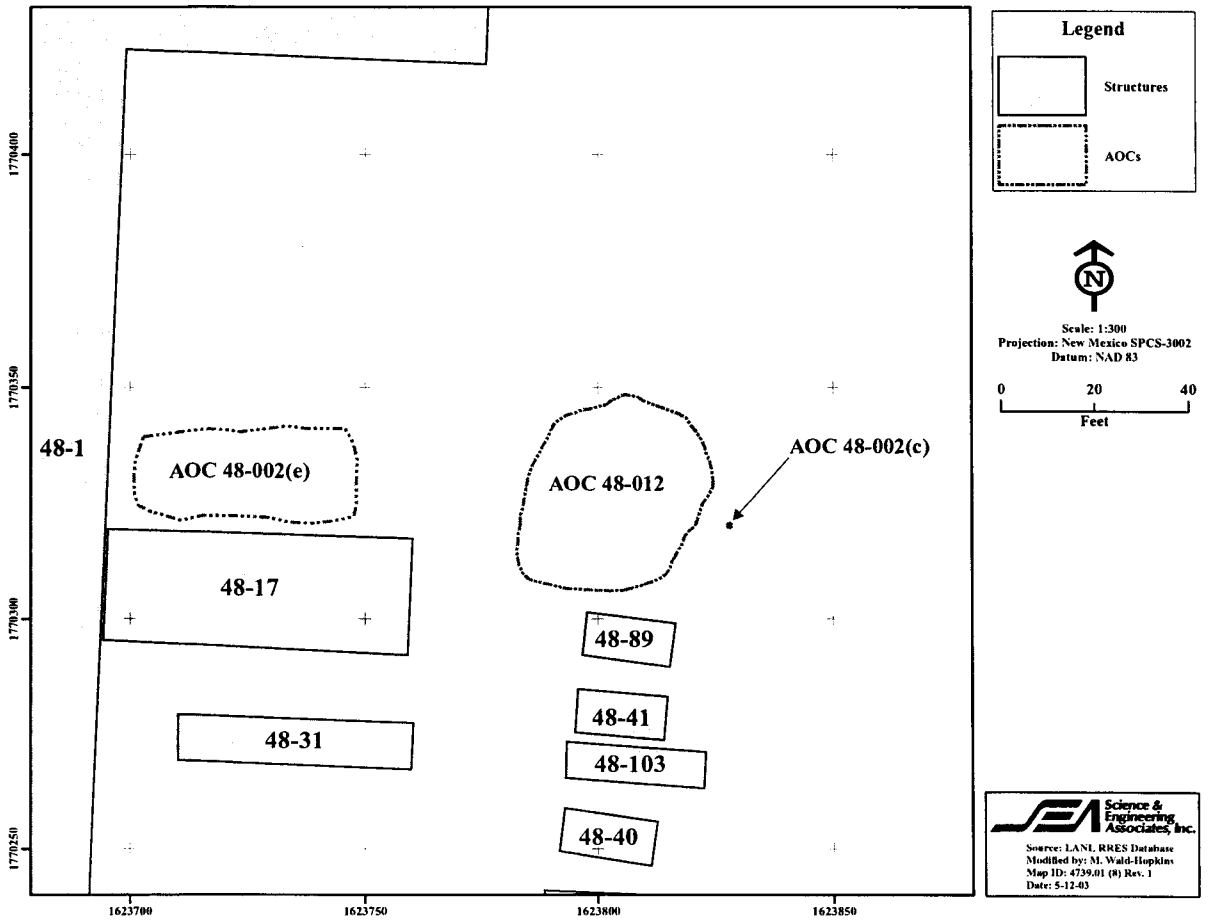

Figure 1.0-2. Location of AOC 48-012 and nearby AOCs 48-002(c) and 48-002(e)

2.0 AOC 48-012

2.1 Description and Operational History

Contaminated soil was unearthed during trenching operations performed by Johnson Controls Northern New Mexico (JCNNM) at TA-48, east of Building 48-1, as part of site preparation for a new building. The Laboratory and the DOE notified NMED of the release and designated the site AOC 48-012. The Laboratory's RRES-R Program provided the technical expertise, management, and contract oversight to plan, investigate, and remediate the site.

TA-48, the radiochemistry site, is located northwest of TA-55, the Plutonium Processing Facility. TA-48 also lies north of Pajarito Road at an approximate latitude and longitude of 35 52 00N and 106 18 20 W (LANL 1992, 07666). TA-48 is situated on Mesita del Buey (the southern finger of South Mesa) between Mortandad Canyon to the north and Twomile Canyon to the south. The elevation at TA-48 ranges from approximately 7100 to 7300 ft. The site lies within the boundaries of the Laboratory in Los Alamos County. The planned land use for this site is industrial, and the site will remain under DOE control for the foreseeable future.

TA-48 was established in 1957 for the purpose of radiochemical work. Historically, TA-48 facilities have been used to study nuclear properties of radioactive materials using analytical and physical chemistry. This work is ongoing. TA-48-1 (RC-1) is the radiochemistry laboratory, which was constructed in 1957. This building lies approximately 130 ft west of AOC 48-012. The only other structures in the area of the AOC at the time of its discovery were storage sheds/trailers (TA-48-40, -41, -89, -103) and an assembly building [TA-48-17 (RC-17)].

Pursuant to NMWQCC regulations, this AOC was reported to the NMED as a one-time spill that might have had the potential to affect surface water or groundwater. The Laboratory's investigation and cleanup was initially conducted pursuant to the requirements of the NMWQCC regulations. Immediately after the contamination was detected, construction work was stopped. The area was cordoned off so that onsite personnel would not be exposed to chemical fumes emanating from the exposed contaminated soil. In addition, the length of the trench was covered by wooden pallets and covered with plastic (see photographs in Appendix D). To protect the area from potential contaminant transfer via rain washing the soil offsite, the spoils pile (excavated soil) was covered with plastic and weighted down with sand bags. Sandbags were also placed along the western edge of the area to help divert rainwater if any away from the trench.

Since the discovery of the contamination at the site, the Laboratory worked to fully characterize the nature and the extent and to determine its source. The DOE, Facility Management Unit 66 (FMU-66), RRES-R, and Chemistry (C) Division arranged for the planning and execution of the site cleanup.

NMED was kept apprised of the progress of activities at the site from the time contamination was discovered throughout cleanup and reporting activities. Correspondence and communications among the Laboratory, the DOE, and NMED have been numerous and are documented in Table 2.1-1.

2.2 Previous Investigations

No previous investigations were conducted at AOC 48-012 (soil contamination) because it is a newly discovered site. However, records related to other AOCs in the area were reviewed to see if a potential existed for these other sites to be the source term for AOC 48-012. The two sites in the vicinity of AOC 48-012 are AOCs 48-002(c) and 48-002(e), both former storage areas (see Figure 1.0-2).

AOC 48-002(e) was a former satellite accumulation area located atop the asphalt, and it was in use from 1988 to approximately 1990. There is no documentation or evidence of releases or spills, and the only reported staining on the asphalt was rust stains from drums. This AOC was located approximately 50 ft west of AOC 48-012 (see Figure 1.0-2). To determine if there was evidence of contamination associated with AOC 48-002(e) two exploratory trenches were excavated in the area of 48-002(e) (see Figure 2.6-1), and no volatile organic contaminants (VOCs) were detected in headspace analyses using a photoionization detector (PID). The PID used was a ppbRAE (PGM 7240) Serial Number 100567. In addition, a RCRA (Resource Conservation and Recover Act) facility investigation (RFI) into AOC 48-002(e), which was conducted in 1994 (LANL 1995, 50295), found no evidence of VOCs, and the semivolatile organic compounds (SVOCs) that were detected were at very low concentrations and were associated with the asphalt at the site.

AOC 48-002(c) was a container storage area formerly located atop the asphalt (10 ft east of AOC 48-012), and it operated for only 1 yr. There is no documentation or evidence of leaks or spills from this area. The former storage area is near the contaminated area; however, there was no evidence that spills on the asphalt surface caused the contamination. Representative samples of potential contaminant runoff from this site were collected at the edge of the pavement in 1991, as part of reconnaissance sampling performed by the Water Quality and Hydrology Group from the Laboratory's Environment, Safety, and

Health Division (ESH-18). No VOCs were detected, and those SVOCs that were detected were attributed to the asphalt pavement.

Table 2.1-1
Correspondence Among the Laboratory, the DOE, and NMED Pertaining to AOC 48-012

Date	Document Identifier No.	From/To	Subject (Abbreviated)	Synopsis of Correspondence/Communication
08/14/02	74056	The Laboratory (M. Saladen) to NMED SWQB (B. Lucas)	Release/discharge notification, per NMWQCC regulations (20 NMAC 6.2), Release ID Number 111	Release/discharge notification of organic compounds near building TA-48-1 at TA-48. The Laboratory and the DOE notified NMED of the release through the discharge notification process in accordance with the NMWQCC regulations (20 NMAC 6.2).
09/03/02	73567.1	NMED (J. Young) to the Laboratory (J. Brown) and the DOE (E. Trollinger)	Release/discharge notification, TA-48, Los Alamos National Laboratory	NMED recommends that the Laboratory perform an interim measure cleanup of identified contamination as a potential release from an existing AOC [48-002(e and/or c)], unless the Laboratory can prove it is an operational release.
9/11/02	74057	The Laboratory to NMED SWQB and NMED Hazardous Waste Bureau (HWB)	Amendment to the August 14, 2002, release/discharge notification sent to NMED SWQB	The Laboratory/DOE amends the release/discharge notification with an update of results of samples collected at the site and provides preliminary remediation goals (PRGs) for the cleanup at the site.
9/17/02	74059	E-mail message from DOE (D. Gregory) to NMED SWQB and NMED HWB (B. Lucas and L. Winn)	TA-48 status/invitation for site visit	DOE/the Laboratory invites NMED to visit the site during remediation activities to discuss the site's remedial state.
9/23/02	74058	E-mail message from DOE (D. Gregory) to NMED SWQB and NMED HWB (B. Lucas and L. Winn)	TA-48 status/invitation for site visit	DOE/the Laboratory invites NMED to visit the site after remediation activities are completed; excavation was kept open to allow discussion of confirmation sampling.
10/04/02	73903.1	The Laboratory (D. McInroy) and the DOE (E. Trollinger) to NMED (J. Young)	Release/discharge notification and notification of new AOC at TA-48	The Laboratory adds release to list of sites to clean up through RRES-R as AOC 48-012. RRES-R review discounts newly discovered contaminant as release from existing AOCs 48-002(e) and 48-002(c) because of previous RFI results and current samples collected from AOC 48-012.
11/13/02	74060	The Laboratory (M. Saladen) to NMED SWQB (B. Lucas)	TA-48 spill, request for closure under WQCC regulations	The Laboratory asks NMED SWQB to close out the file for the TA-48 spill under NMWQCC regulations because the source is no longer believed to be a current operational spill based on newly acquired sample data.
12/18/02	73819.1	NMED (J. Young) to the Laboratory (J. Brown) and the DOE (E. Trollinger)	Newly identified solid waste management unit (SWMU) at TA-48, Los Alamos National Laboratory	NMED SWQB defers to NMED HWB for investigation of the site. NMED asks the Laboratory to submit a SWMU assessment report about the site within 30 days of receipt of the correspondence.

Table 2.1-1 (continued)

Date	Document Identifier No.	From/To	Subject (Abbreviated)	Synopsis of Correspondence/Communication
01/16/03	73847.1	The Laboratory (D. McInroy) and the DOE (E. Trollinger) to NMED (J. Young)	Extension request for the SWMU assessment report for newly identified SWMU at TA-48, Los Alamos National Laboratory	The Laboratory requests an extension for submittal of the report to May 30, 2003. The Laboratory suggests a change in the reporting process to provide a VCA completion report instead of a SWMU assessment report because the site was cleaned up as soon as it was discovered. A VCA report would provide more information than an assessment report and would include all sample data and risk assessments for the site.
02/06/03	73832.1	NMED (J. Young) to the Laboratory (J. Brown) and the DOE (E. Trollinger)	Extension request for the SWMU assessment report for newly identified SWMU 48-012 at TA- 48, Los Alamos National Laboratory	NMED grants an extension to March 31, 2003, for submittal of the VCA completion report in lieu of a SWMU assessment report.
2/13/03	Not applicable	DOE (D. Gregory) to NMED (J. Young)	Phone conversation regarding AOC 48-012	The Laboratory/DOE believes NMED is in agreement and understands that AOC 48-012 has been cleaned up and no longer presents any risks. The only outstanding task is completing the report of cleanup, which was delayed due to Laboratory/ DOE funding constraints, contract negotiations, and insufficient resources for producing the VCA completion report by NMED's due date.
02/19/03	75903.1	The Laboratory (D. McInroy) and the DOE (E. Trollinger) to NMED (J. Young)	Extension for the SWMU assessment report for potential release site (PRS) 48-012 at TA 48, Los Alamos National Laboratory	The Laboratory re-requests an extension to May 30, 2003, for delivery of the report; a March 31 deadline is not possible for various reasons, the uppermost of which are lack of funds, development of contracts, and resource commitments.
03/14/03	75937.1	NMED (J. Young) to the Laboratory (J. Brown) and the DOE (E. Trollinger)	Extension request for the SWMU assessment report for newly identified SWMU 48-012 at TA-48, Los Alamos National Laboratory	NMED denies the request for an extension to May 30, 2003, for submittal of the VCA completion report.
03/31/03	75938	The Laboratory (D. McInroy) and the DOE (D. Gregory) to NMED HWB (J. Kieling)	Extension for the VCA completion report for PRS 48-012 at TA-48, Los Alamos National Laboratory	The Laboratory explains again why it is unable to meet the March 31, 2003, deadline for submittal of the VCA completion report; it will deliver the report by May 30, 2003.
05/01/03	74030	NMED (J. Bearzi) to the Laboratory (P. Nanos) and the DOE (R. Erickson)	Notice of violation, failure to provide SWMU assessment report for newly identified SWMU 48-012 at TA-48, Los Alamos National Laboratory	NMED requires the Laboratory to submit a report within 15 days of receiving the notice. NMED states that failure to comply could result in initiation of formal enforcement actions.

The Laboratory/DOE concluded that AOCs 48-002(c), 48-002(e), and 48-012 were not related for the following reasons:

- Soil contamination was not found immediately below the asphalt [detected contamination started at 3 ft below ground surface (bgs)], as it would be if the source were releases from the storage areas described above.
- The results from the RFI for AOCs 48-002(c) and 48-002(e) did not indicate VOCs.
- The PID analysis of surface soils from within the two trenches that were dug at AOC 48-002(e) after AOC 48-012 was discovered did not detect VOCs.

2.3 Preliminary Site Conceptual Model

The potential sources of contamination and potential transport pathways that could result in onsite and offsite redistribution of contaminants are controlled by the physical characteristics of the site and include previous and current surface conditions. The site is entirely paved from TA-48-01 (to the west) to the eastern security fence, the surface at TA-48 has been disturbed from its native condition. Several structures, mainly storage buildings, surround the AOC area. The asphalt surface affects the movement of moisture, runoff, erosion, and evapotranspiration.

The contamination at TA-48 may be the result of an accidental one-time spill or passive leakage. The possible contaminant transport pathways include the surface water transport of contaminants through runoff and the infiltration and subsurface migration of volatile contaminants through pore gas.

Because the contamination was located in subsurface soils, which were paved, potential exposure could only occur if the area were excavated.

In general, the site-specific environment is as described in the 1992 OU 1129 RFI work plan (LANL 1992, 07666) for TA-48. There is no watercourse within the AOC boundary. There is no vegetative cover on the mesa top (where the soil contamination was originally located) and the area is covered by asphalt. Surface water runoff from the mesa top flows to the north toward Mortandad Canyon. There are minor structural or operational factors that might affect the site hydrology (Appendix C). No wetlands or floodplains exist close to AOC 48-012. The wildlife habitat in this area was assessed during the preparation of the ecological scoping checklist (see Appendix C) and during the earlier ecological survey of TA-48 (Dunham 1992, 64963.1). The survey shows there are no threatened or endangered species in the immediate vicinity.

2.4 Investigative Activities

The characterization and remediation activities were performed in accordance with the following ER Project SOPs:

- ER-SOP-1.01, Rev. 1, General Instructions for Field Investigations
- ER-SOP-1.02, Rev. 1, Sample Container and Preservation
- ER-SOP-1.03, Rev. 2, Handling, Packaging and Shipping of Samples
- ER-SOP-1.04, Rev. 5, Sample Control and Field Documentation
- ER-SOP-1.05, Rev. 1, Field Quality Control Samples
- ER-SOP-1.06, Rev. 2, Management of ER Project Wastes

- ER-SOP-1.08, Rev. 1, Field Decontamination of Drilling and Sampling Equipment
- ER-SOP-1.10, Rev. 1, Waste Characterization
- ER-SOP-4.01, Rev. 2, Drilling Methods and Drill Site Management
- ER-SOP-4.04, Rev. 2, General Borehole Logging
- ER-SOP-6.09, Rev. 1, Spade-and-Scoop Method for Collection of Soil Samples
- ER-SOP-6.26, Rev. 1, Core Barrel Sampling for Subsurface Earth Materials

The investigation and remediation activities were partially guided by use of a PID. The PID used was a ppbRAE (PGM 7240) serial number 100567 that had minimum detection limit of 1 ppb.

2.4.1 Site Surveys

On August 16, 2002, a ground penetrating radar (GPR) survey was conducted to detect underground pipelines that could be potential sources of contamination at the site. Using the GPR survey results, and the location of the contaminated soil found during trenching activities, a 10-ft × 10-ft grid was laid out for an EMFLUX survey whose purpose was to help define the lateral extent of contamination. The grid encompassed the area in which the contamination was first detected, the probable migration pathway from this area, and a linear anomaly outlined by the GPR survey.

EMFLUX samplers were deployed around the contamination area on August 20, 2002, at the 50 intersecting points of the 10-ft × 10-ft grid to measure VOC and SVOC concentrations in soil gas (Figure 2.4-1). An electric drill was used to perforate the asphalt at the site and to drill 0.33 ft into the underlying material (see photograph in Appendix D). The EMFLUX samplers were placed in the holes, which were then temporarily sealed. The samplers were allowed to adsorb VOCs and SVOCs from soil gas for a period of 3 days, after which they were sent offsite for laboratory analysis.

Following EPA Method 8020/8015B, the soil gas samples were analyzed with a gas chromatograph equipped with a PID and a flame ionization detector (FID). Concentrations of benzene, toluene, ethylbenzene, xylenes [BTEX], 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, naphthalene, and total petroleum hydrocarbons (TPH) were detected. The data obtained in this survey represent relative concentrations (nanogram [ng)] of sorbed VOCs/SVOCs from pore gas) and are not directly comparable to analytical data from the soil and core samples. The EMFLUX survey identified three areas of elevated organic concentrations (Figure 2.4-1): the first in the area of the contamination found during trenching activities; another to the northeast near the fence; and another north of Building 48-17 and east of Building 48-1. The survey results were used in the planning of additional sampling and trenching at the site. Boreholes were planned for the area to the northeast and for the main contamination plume. Trenching was planned for the area north of Building 48-17.

2.4.2 Preliminary Grab Samples

Soil grab samples were collected on August 23, 2002 to better understand the nature and extent of the contamination before remediation activities commenced. Using the spade-and-scoop method, one sample (Sample Number 48-FS-S) was collected from 0–6 in. at the bottom of the excavated (utility) trench in the contaminated area where organic chemicals were first detected. Another surface soil sample (Sample Number 48-C-S) was collected in the vicinity of, but a distance from, the contaminated area (approximately 120 ft south). (See Figure 2.4-2 for sample locations.) These samples were sent to an offsite laboratory for analyses (see Appendix B).

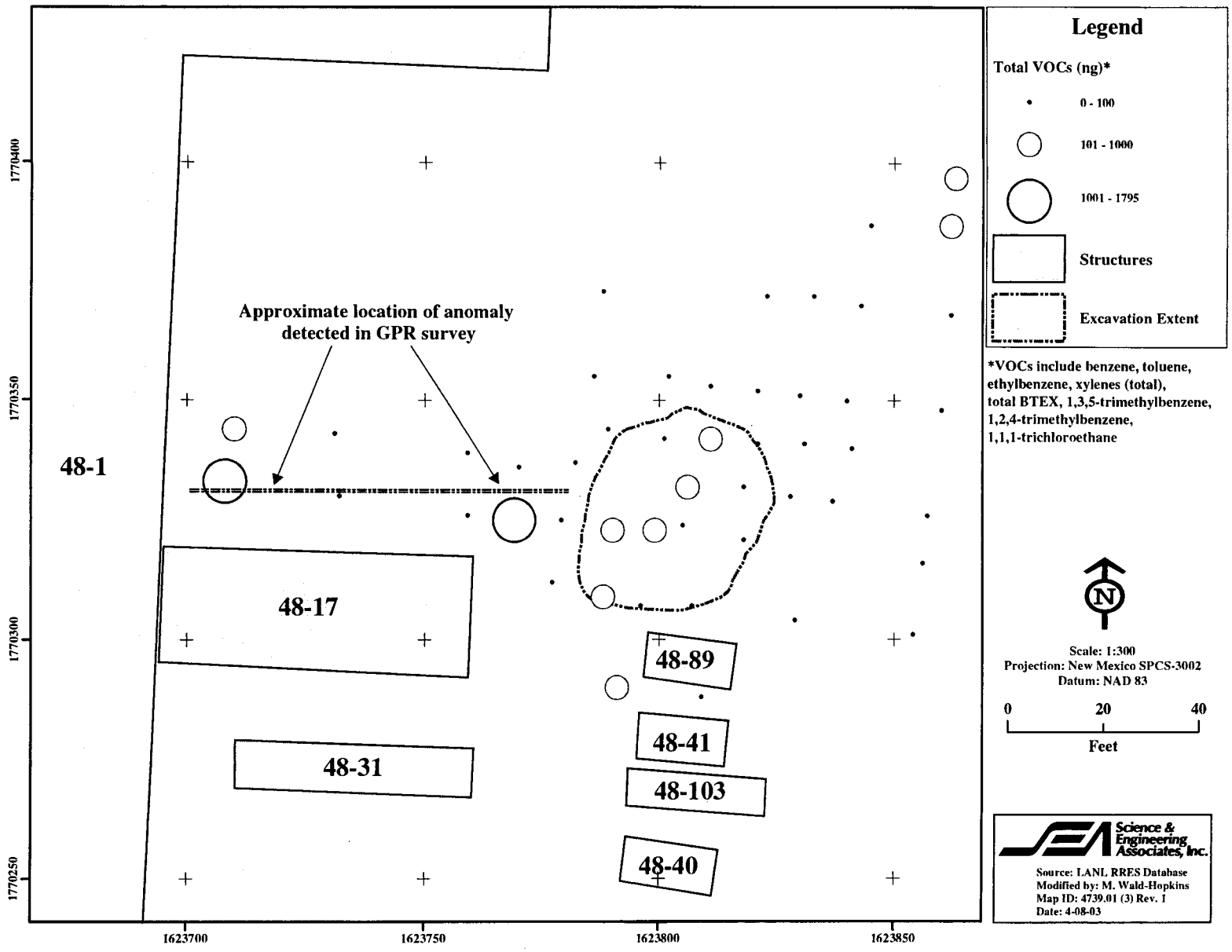

Figure 2.4-1. Location of grid nodes and EMFLUX survey results

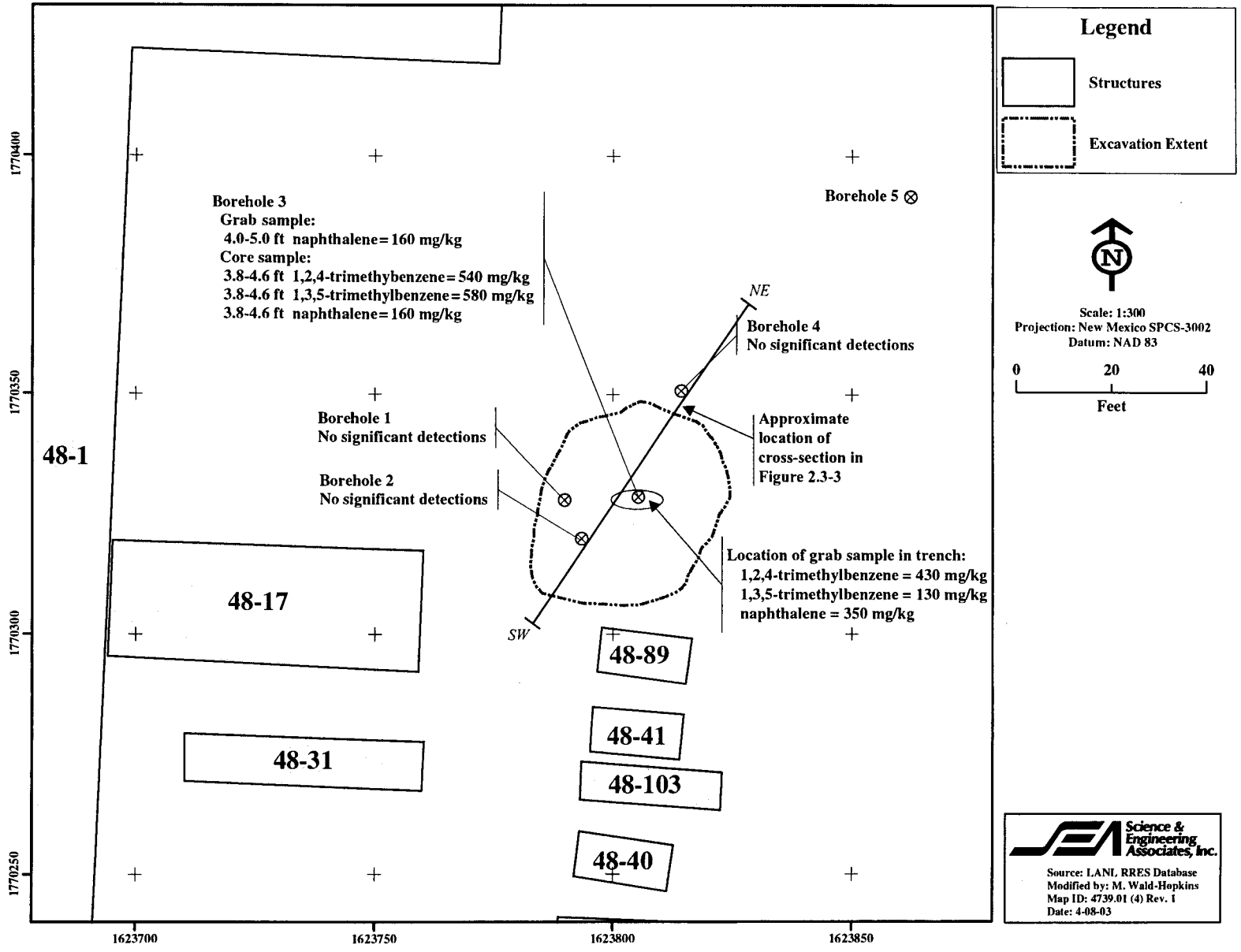

Figure 2.4-2. Preliminary grab samples, pre-excavation borehole locations, contaminant detections, and the approximate location of the cross-section in Figure 2.4-3

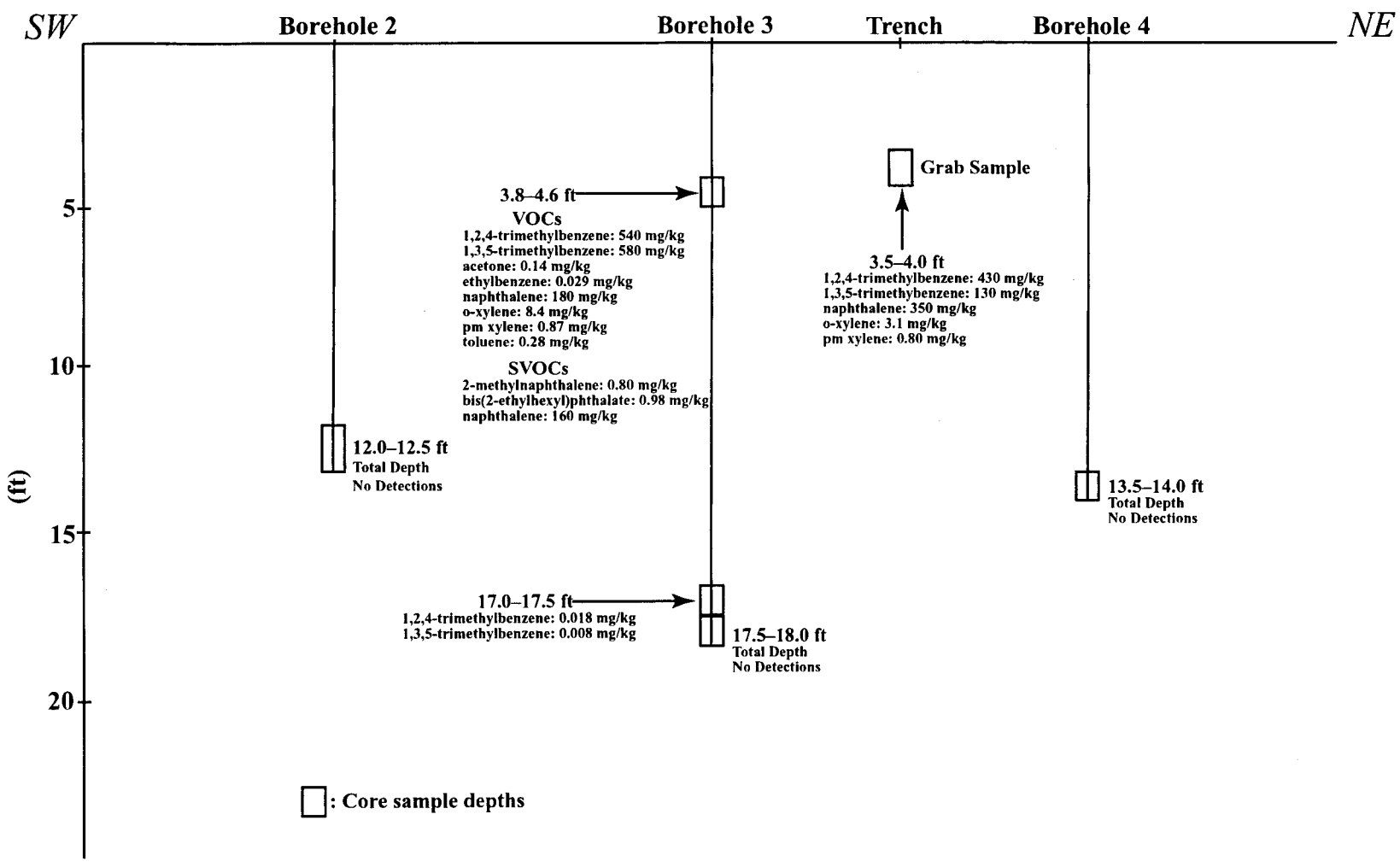

Figure 2.4-3. Schematic cross-section showing relative position of detected organic chemicals in characterization samples

Sample Number 48-FS-S was analyzed for VOCs, SVOCs, sulfates, target analyte list (TAL) metals, TPH, diesel range organics (DRO), polychlorinated biphenyls (PCBs), iron, free water, nitrate/nitrite, organic acids, tritium, gamma spectroscopy, isotopic plutonium, isotopic uranium, and strontium-90. Sample Number 48-C-S was analyzed for VOCs, SVOCs, sulfates, nitrate/nitrite, iron, free water, and organic acids. The laboratory analytical reports are included in Appendix B of this report.

Results from Sample Number 48-FS-S showed no elevated concentrations or activities of nitrate, nitrite, inorganic chemicals, PCBs, tritium, gamma-emitting radionuclides, isotopic plutonium, or isotopic uranium. The strontium-90 concentration was similar to the Laboratory's soil fallout value (1.4 pCi/g versus 1.31 pCi/g fallout value) (LANL 1998, 59730). Three organic chemicals were detected at elevated concentrations: 1,2,4-trimethylbenzene (430 mg/kg), 1,3,5-trimethylbenzene (130 mg/kg), and naphthalene (350 mg/kg). In addition, 1-methylnaphthalene, 2-methylnaphthalene, benzo(a)anthracene, benzo(b&k)fluoranthene, chrysene, fluoranthene, phenanthrene, pyrene, and p/m-xylenes were detected at concentrations less than 1 mg/kg. Bis(2-ethylhexyl)phthalate and o-xylene were detected at concentrations of 2.4 mg/kg and 3.1 mg/kg, respectively. Nitrate and nitrite were not detected in Sample Number 48-C-S. Benzo(a)anthracene, chrysene, fluoranthene, phenanthrene, and pyrene were detected at concentrations <1.0 mg/kg, and no VOCs were detected in this sample. Table 2.4-1 lists the samples collected at the site prior to excavation.

2.4.3 Pre-excavation Samples and VOC Analyses Results

EMFLUX survey results were used to guide the selection of surface and subsurface sampling locations for VOCs (Figure 2.4-2). Five locations (Boreholes 1–5) were sampled to verify EMFLUX results and determine the extent of contamination (Figure 2.4-2).

Drilling began on September 3, 2002, using a truck-mounted hollow-stem auger drill rig. Using a "cookie cutter" auger extension, approximately 1 ft in diameter, disks of asphalt were removed from the sampling locations. This allowed surface samples to be collected using Encore VOC samplers and the spade-and-scoop method for other analytes. The borehole cores were field-screened at 1-ft intervals using a PID. The detection limit for the PID is 1 ppb. The PID allowed the field crew to use the demarcation between contaminated and non-contaminated core intervals in the determination of the vertical extent of contamination. Boreholes were advanced to the demarcation point and samples taken for laboratory analysis to verify the vertical extent of contamination. If organic chemicals were not detected with the PID, the total depth of the borehole was at least 8 ft.

In Boreholes 1 and 2 were located south west of the contamination. PID measurements of headspace samples in these two boreholes indicated very little VOC contamination, and it became evident that the contaminated area was less extensive than originally indicated by the EMFLUX survey. Table 2.4-2 shows the PID headspace sample measurements at each borehole. Borehole 5 was placed to the northeast of the contaminated area near the fence where the EMFLUX survey results indicated higher VOCs than the surrounding samples. The location for Borehole 3 was chosen to target the area of the contamination. Headspace samples from Borehole 3 were measured with the PID at detected elevated VOC concentrations (up to 400 ppm). Boreholes 4 and 5 were placed northeast of Boreholes 1–3 (Figure 2.4-2).

Table 2.4-1
Analyses Performed on Pre-Excavation Samples

Sample ID	Location ID	Date Collected	Depth (ft)	Sample Type (Media is ALL H)	TAL Metals	PCBs	SVOCs	VOCs	TPH DRO	Gamma Spec.	Strontium 90	Isotopic Uranium	Isotopic Plutonium	Tritium	TTL Iron, % Moisture	Acid Extract 8270	Nitrate/Nitrite	Sulfate
48-FS-S	In Trench	08/23/02	0 - 0.5	Grab	X	X	X	X	X	X	X	X	X	X	X	X	X	X
48-C-S	S. of TA-48-37	08/23/02	0 - 0.5	Grab			X	X							X	X	X	X
01A	BH 1	09/03/02	0.5	Encore				X										
02A	BH 1	09/03/02	1.0	Encore				X										
03A	BH 2	09/04/02	0.5	Encore				X										
04A	BH 2	09/04/02	1.0	Encore				X										
05A	BH 3	09/04/02	0.5	Encore				X										
06A	BH 3	09/04/02	1.0	Encore				X										
07A	BH 4	09/05/02	0.5	Encore				X										
08A	BH 4	09/05/02	1.0	Encore				X										
09A	BH 5	09/05/02	1.0	Encore				X										
010A	BH 5	09/05/02	1.5	Encore				X										
011A	BH 5	09/05/02	1.0 - 1.5	Grab			X											
012A - F	BH 3	09/04/02	0 - 0.5	Grab			X			X	X	X	X	X				
013A - F	BH 3	09/04/02	0.5 - 1.0	Grab			X			X	X	X	X	X				
014A - D	BH 3	09/05/02	4.0 - 5.0	Grab					X	X	X	X	X	X				
015A - D	BH 3	09/05/02	16 - 17	Grab						X	X	X	X	X				
016A - D	BH 3	09/05/02	16 - 17 Dup	Grab						X	X	X	X	X				
01A	BH 2	09/04/02	12.0 - 12.5	Lexan tube				X										
02A	BH 3	09/05/02	3.8 - 4.6	Lexan tube				X										
03A	BH 3	09/05/02	17.0 – 17.5	Lexan tube				X										
04A	BH 3	09/05/02	17.5 – 18.0	Lexan tube				X										

Table 2.4-1 (continued)

Sample ID	Location ID	Date Collected	Depth (ft)	Sample Type (Media is ALL H)	TAL Metals	PCBs	SVOCs	VOCs	TPH DRO	Gamma Spec.	Strontium 90	Isotopic Uranium	Isotopic Plutonium	Tritium	TTL Iron, % Moisture	Acid Extract 8270	Nitrate/Nitrite	Sulfate	TCLP Metals
05A	BH 4	09/05/02	13.5 – 14.0	Lexan tube				X											
06A	BH 3	09/05/02	4.0 – 5.0	Grab			X												
07A	BH 3	09/05/02	16.0 – 17.0	Grab			X												
08A	BH 3	09/05/02	16.0 – 17.0	Dup			X												

Note: An *X* indicates that a sample was submitted for the type of analysis indicated in the column; empty cells indicate no sample was analyzed for that particular suite.

Table 2.4-2
PID Measurements from Boreholes

Borehole	Depth (ft)	PID Measurement (ppm)
1	0.5	0.0
	0.5-1.0	0.0
	1.0-2.0	0.0
	2.0-3.0	0.0
	4.0	0.0
	8.0	0.0
2	Surface	0.3
	0.5	0.0
	1.0	2.0
	3.5	1.4
	3.5	0.3
	4.0	0.2
	5.0	3.0
	7.0	0.1
	8.0	0.6
	9.0	0.2
	10.0	0.3
	11.0	0.2
3	1.0	22.0
	2.0	8.0
	3.0	100.0
	4.0	212.0
	4.0	262.0
	4.0	>200
	4.5	82.0
	5.0	400.0
	6.0	44.0
	7.0	78.0
	8.0	22.0
	10.0	5.5
	10.5	4.0
	11.0	3.6
	12.0	9.8
	13.0	3.0
	14.0	22.0
	15.0	4.0
	17.0	5.0
	18.0	4.0

Table 2.4-2 (continued)

Borehole	Depth (ft)	PID Measurement (ppm)
4	Surface	<1.0
	0.5	<1.0
	1.0	<1.0
	2.0	<1.0
	3.0	<1.0
	4.0	<1.0
	5.0	<1.0
	6.0	<1.0
	7.0	<1.0
	8.0	<1.0
	9.0	<1.0
	9.0	<1.0
	10.0	<1.0
	11.0	<1.0
	12.0	<1.0
	13.0	<1.0
	14.0	<1.0

Note: The PID used was a ppbRAE (PGM 7240), serial number 100567.

Using Encore samplers, ten shallow samples were collected from the five boreholes for VOC analyses (see Appendix B). This was done at depths of 0.5 ft and 1.0 ft from Boreholes 1 through 4, and at depths of 1.0 ft and 1.5 ft from Borehole 5. These samples, which consisted of primarily crushed tuff fill, were sent to an offsite laboratory for VOC analyses. No VOCs were detected in any of the 10 Encore VOC samples at the shallow depths. For VOC analyses of deeper core, samples were collected from Boreholes 2, 3, and 4 in Lexan tubes. Samples collected from Boreholes 2 and 4 were taken from the total depth (TD) of the boreholes, 12.0–12.5 ft and 13.5–14.0 ft, respectively, to confirm vertical extent of the VOC plume. No VOCs were detected in either sample. From Borehole 3, a core sample was collected just above the sample with the highest PID measurement (400 ppm). This sample, which was collected from a depth of 3.8–4.6 ft, reported concentrations of 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and naphthalene, at 540 mg/kg, 580 mg/kg, and 160 mg/kg, respectively. Acetone, ethylbenzene, o-xylene, p/m-xylenes, and toluene were also detected at concentrations ranging from 0.029 mg/kg (ethylbenzene) to 8.4 mg/kg (o-xylene). The sample from 17.0–17.5 ft reported detected concentrations of 1,2,4-trimethylbenzene (0.018 mg/kg) and 1,3,5-trimethylbenzene (0.006 mg/kg). The sample from the TD of Borehole 3, at 17.5–18.0 ft, reported no detected VOCs. (See Figure 2.4-3 for a cross-sectional spatial representation of these results.)

2.4.4 Pre-excavation Samples and SVOC and Radionuclide Analyses Results

Grab samples for SVOC analysis were collected from Borehole 5 (1.0- to 1.5-ft depth); no SVOCs were detected in the sample.

Grab samples were collected from Borehole 3 at depths of 0–0.5 ft, 0.5–1.0 ft, 4.0–5.0 ft, and 16.0–17.0 ft. These samples were sent to an offsite laboratory for analyses of SVOCs, gamma spectroscopy, isotopic plutonium, isotopic uranium, tritium, and strontium-90 (see Appendix B). One sample was also analyzed for DRO from the 16.0- to 17.0-ft depth. Results from the samples taken at the 0.0- to 0.5-ft depth showed no elevated concentrations (>1 mg/kg or above background/fallout) of organics or radionuclides. The 0.5- to 1.0-ft sample depth showed no elevated concentrations of radionuclides; however, benzo(a)anthracene, benzo(a)pyrene, benzo(b&k)fluoranthene, chrysene, fluoranthene, and pyrene were detected at < 0.6 mg/kg. From the 4.0- to 5.0-ft sample depth, there were no elevated concentrations of radionuclides in Borehole 3. For SVOCs, naphthalene was detected at 160 mg/kg, and bis(2-ethylhexyl)phthalate and 2-methylnaphthalene were detected at <1.0 mg/kg. No radionuclides or SVOCs were detected at elevated concentrations in the 16- to 17-ft samples from Borehole 3.

2.4.5 Data from Samples Collected Prior to Cleanup

This section assesses the data from the site that were used to identify COPCs and to define nature and extent of contamination (confirmatory samples not included). This data review process includes

- comparing site data to Laboratory-wide background values (BVs) for inorganic chemicals,
- comparing site data to naturally occurring background and fallout concentrations for radionuclides, and
- comparing site data to sample-specific estimated quantitation limits (EQLs) for organic chemicals.

The primary COPCs identified at the site, prior to cleanup activities, were 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and naphthalene. Other organic chemicals detected included acetone, benzo(a)anthracene, benzo(a)pyrene, benzo(b&k)fluoranthene, bis(2-ethylhexyl)phthalate, chrysene, ethylbenzene, fluoranthene, 1-methylnaphthalene, 2-methylnaphthalene, phenanthrene, pyrene, toluene, o-xylene, and p/m-xylenes. Neither radionuclides (Sample 48-FS-S and Borehole 3 samples) nor inorganic chemicals (Sample 48-FS-S) were detected above background/fallout values.

2.5 Basis for Cleanup

Using EPA Region 6 soil screening levels, PRGs were developed and established as cleanup criteria for AOC 48-012 (EPA 2001, 71466). PRGs were based upon potential risk to an outdoor worker in an industrial setting. The PRGs were limited to the three primary chemicals of potential concern (COPCs):1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and naphthalene. Because there are three COPCs, the single chemical values from EPA Region 6 were reduced by one-third in order to meet the target of a hazard index of 1.0 or less. Table 2.5-1 shows the single chemical PRGs and the values applied to this site. On September 11, 2002 the Laboratory/DOE forwarded the PRGs for the cleanup of the site to NMED SWQB and NMED HWB.

Table 2.5-1
PRGs Proposed for AOC 48-012

COPC	Single Chemical PRGs (mg/kg)	Site PRGs (mg/kg)
1,2,4-trimethylbenzene	210	70
1,3,5-trimethylbenzene	87	29
Naphthalene	240	80

2.6 Remedial Activities

On September 12, 2002, an attempt was made to locate an unidentified pipeline (the anomaly located with GPR), which was at the time believed to be the source of the soil contamination. Using a backhoe, three "potholes" were dug at points along the length of the anomaly (see Figure 2.6-1 and photographs in Appendix D); however, no evidence of a pipeline or additional contamination was encountered. Headspace samples were collected and measured for VOCs using the PID, but no elevated measurements were noted. The potholes were backfilled the same day.

On September 13, 2003, excavation of the contaminated soil began. Using the PID with direct readings and by measuring headspace samples as a guide, soil was removed from the contaminated area first with a backhoe and then with an excavator (see photographs in Appendix D). Excavation continued until no VOCs were detected with the PID. Table 2.6-1 lists the headspace samples that were collected on the perimeter from the walls of the final excavation; Figure 2.6-2 shows the locations of the samples. Excavation concluded on September 23, 2002, after approximately 190 yd^3 of soil had been removed from the site. The size of the excavation was approximately 40 × 35 ft, with a maximum depth of 7 ft.

Table 2.6-1
Headspace Sample PID Measurements in the Walls of the Excavation

Location	Depth (ft)	PID Measurement (ppm)
1	3.0	0.0
2	3.0	0.0
3	3.0	0.0
4	3.0	0.0
5	2.5	0.0
	4.0	0.0
6	2.5	0.0
7	2.5	0.0
	4.3	0.0
8	6.5	0.0
9	3.0	0.0
	4.5	0.0
	6.5	0.0
10	4.0	0.0
11	6.0	0.0
12	5.5	0.0
13	2.5	0.0
14	3.0	0.0
	4.5	0.0
	6.0	0.0

Table 2.6-1 (continued)

Location	Depth (ft)	PID Measurement (ppm)
15	2.5	0.0
	4.0	0.0
	7.0	0.0
16	2.5	0.0
	5.0	0.0
	6.5	0.0
17	3.0	0.0
	5.0	0.0
	7.0	0.0
18	3.0	0.0
	4.5	0.0
	6.0	0.0
19	3.5	0.0
	5.5	0.0
	7.0	0.0

Note: The PID used was a ppbRAE (PGM 7240), serial number 100567.

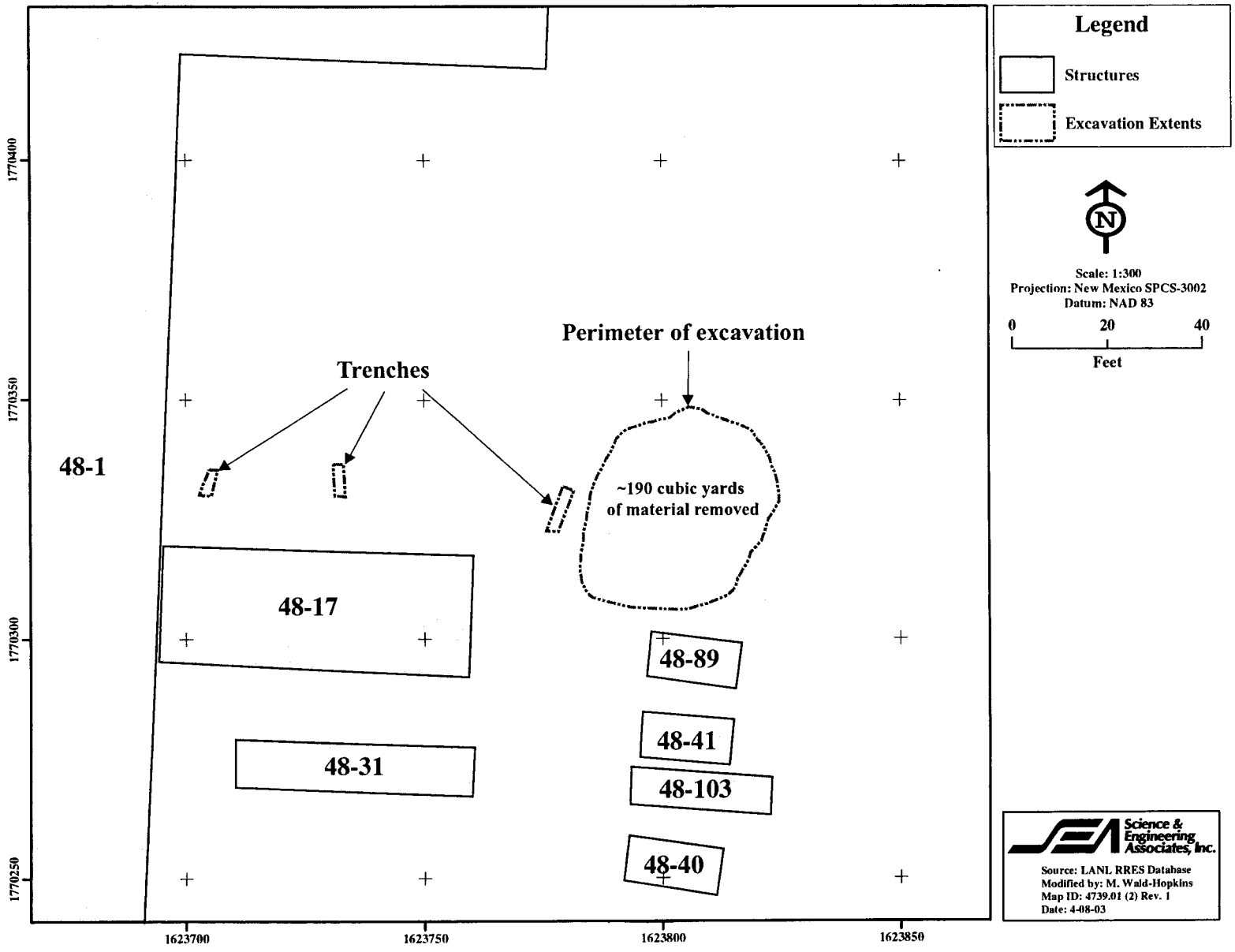

Figure 2.6-1. Location of trenches and area of excavation

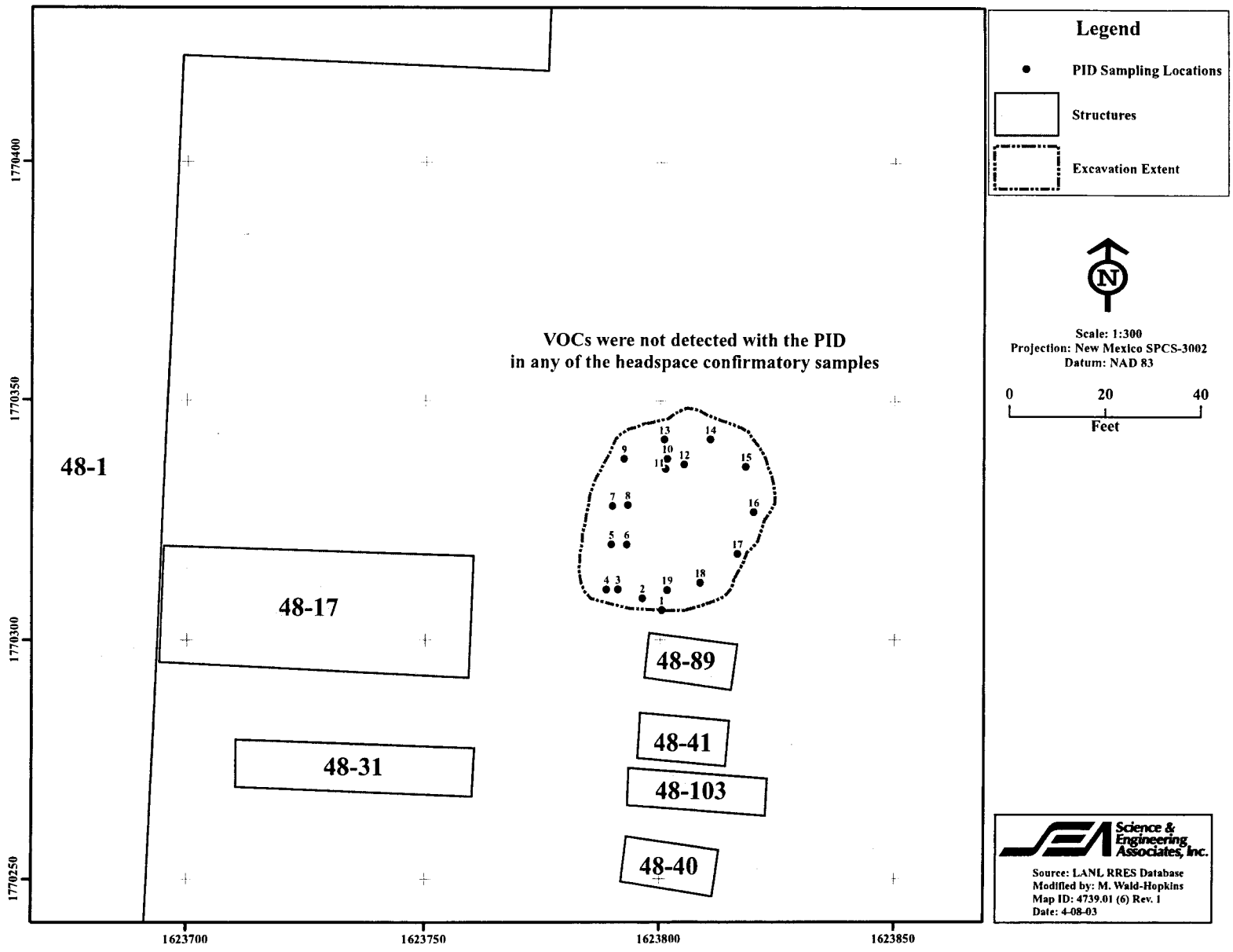

Figure 2.6-2. Post-excavation sampling locations for PID headspace measurements

2.6.1 Confirmatory Sampling Activities and Results

After the conclusion of excavation on September 23, 2002, 10 confirmatory samples were collected at the bottom surface of the excavated area, which was 7 ft bgs (Table 2.6-2, Figure 2.6-3, and photographs in Appendix D). The confirmatory soil samples were located using a 10-ft × 10-ft grid and were taken from the excavation bottom to a depth of 6 in. bgs. The samples were collected using the spade-and-scoop method and sent to an offsite laboratory for analyses of VOCs and SVOCs (see Appendix B).

No VOCs were detected in the samples. Six of the ten samples had detected SVOCs. Two of the COPCs (1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene) were not detected in any of the confirmatory samples, while the other COPC (naphthalene) was detected in three confirmatory samples at concentrations ranging from 0.065 mg/kg to 13.7 mg/kg (Table 2.6-3). These naphthalene concentrations are below the proposed PRG (80 mg/kg) shown in Table 2.5-1. In three samples (RE48-02-49520, -49523, and -49525), low levels (<1.0 mg/kg) of other organic chemicals were detected. These chemicals included anthracene, benzo(a)anthracene, benzo(b)fluoranthene, chrysene, fluoranthene, phenanthrene, and pyrene. One sample (RE48-02-49521) had elevated concentrations of several polycyclic aromatic hydrocarbons (PAHs). Table 2.6-3 lists the frequency with which each chemical was detected in the 10 confirmatory samples. Table 2.6-4 lists the organic chemicals detected in the confirmatory samples.

Table 2.6-2
Summary of Confirmatory Samples Collected

Sample ID	Location ID	Depth (ft)	Media Type	SVOCs	VOCs
RE48-02-49520	48-02-21182	6.0	Tuff	X	X
RE48-02-49521	48-02-21183	7.3	Tuff	X	X
RE48-02-49522	48-02-21184	7.0	Tuff	X	X
RE48-02-49523	48-02-21185	7.0	Tuff	X	X
RE48-02-49524	48-02-21186	6.5	Tuff	X	X
RE48-02-49525	48-02-21187	6.0	Tuff	X	X
RE48-02-49526	48-02-21188	6.0	Tuff	X	X
RE48-02-49527	48-02-21189	7.0	Tuff	X	X
RE48-02-49528, duplicate of RE48-02-49527	48-02-21190	7.0	Tuff	X	X
RE48-02-49529	48-02-21191	7.0	Tuff	X	X

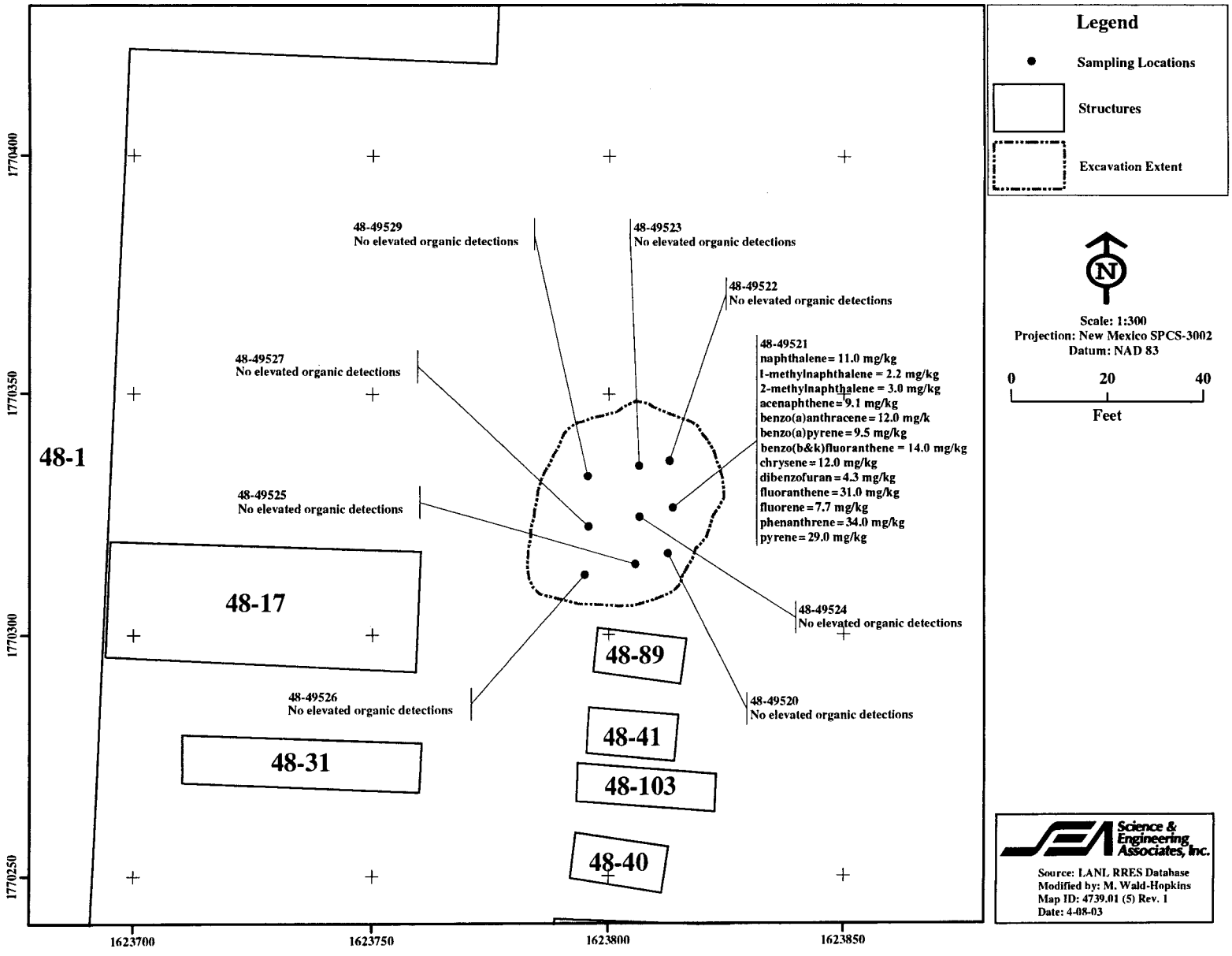

Figure 2.6-3. Location of post-excavation confirmatory samples and organic chemical detections at AOC 48-012

Table 2.6-3
Frequency of Detected Organic Chemicals in Confirmatory Samples at AOC 48-012

Analyte	Media	Number of Analyses	Number of Detects	Concentration Range (mg/kg)	Frequency of Detects
Acenaphthene	Soil/tuff	10	1	[3.3E-02] to 10.7	1/10
Anthracene	Soil/tuff	10	2	[3.3E-02] to 11.0	2/10
Benzo(a)anthracene	Soil/tuff	10	2	[3.3E-02] to 17.4	2/10
Benzo(a)pyrene	Soil/tuff	10	1	[3.3E-02] to 10.5	1/10
Benzo(b)fluoranthene	Soil/tuff	10	2	[3.3E-02] to 12.3	2/10
Benzo(g,h,i)perylene	Soil/tuff	10	1	[0.33] to 3.2	1/10
Chrysene	Soil/tuff	10	2	[3.3E-02] to 11.8	2/10
Dibenz(a,h)anthracene	Soil/tuff	10	1	[0.33] to 9.7	1/10
Dibenzofuran	Soil/tuff	10	1	[3.3E-02] to 5.3	1/10
Dimethylphenol[2,4-]	Soil/tuff	10	1	[3.3E-02] to 0.31	1/10
Fluoranthene	Soil/tuff	10	4	[3.4E-02] to 26.1	4/10
Fluorene	Soil/tuff	10	1	[3.3E-02] to 9.3	1/10
Indeno(1,2,3-cd)pyrene	Soil/tuff	10	1	[0.33] to 1.0	1/10
Methylnaphthalene[2-]	Soil/tuff	10	1	[2.5E-02] to 3.7	1/10
Methylphenol[2-]	Soil/tuff	10	1	[3.3E-02] to 0.2	1/10
Methylphenol[4-]	Soil/tuff	10	1	[3.3E-02] to 0.44	1/10
Naphthalene	Soil/tuff	20*	3	[2.5E-02] to 13.7	3/20
Phenanthrene	Soil/tuff	10	3	[3.3E-02] to 37.2	3/10
Pyrene	Soil/tuff	10	4	[3.4E-02] to 34.7	4/10

Note: The numbers in brackets are the detection limits and they indicate that a result is below the detection limit.

* Naphthalene was included in the analysis of VOCs and SVOCs, thereby doubling the number of analyses for this chemical.

Table 2.6-4
Detected Organic Chemicals in Confirmatory Samples

Sample ID	Analyte	Concentration (mg/kg)
RE48-02-49520	Fluoranthene	0.066
	Phenanthrene	0.059
	Pyrene	0.06
RE48-02-49521	Acenaphthene	10.7
	Anthracene	11.0
	Benzo(a)anthracene	17.4
	Benzo(a)pyrene	10.5
	Benzo(b)fluoranthene	12.3
	Benzo(g,h,i)perylene	3.2
	Chrysene	11.8
	Dibenz(a,h)anthracene	9.7
	Dibenzofuran	5.3
	Fluoranthene	26.1
	Fluorene	9.3
	Indeno(1,2,3-cd)pyrene	1.0
	Naphthalene	13.7
	Phenanthrene	37.2
	Pyrene	34.7
	2-Methylnaphthalene	3.7
	2,4-Dimethylphenol	0.31
	2-Methylphenol	0.2
	4-Methylphenol	0.44
RE48-02-49523	Fluoranthene	0.043
	Pyrene	0.045
RE48-02-49524	Naphthalene	0.13
RE48-02-49525	Anthracene	0.043
	Benzo(a)anthracene	0.12
	Benzo(b)flouranthene	0.11
	Chrysene	0.078
	Fluoranthene	0.18
	Phenanthrene	0.16
	Pyrene	0.23
RE48-02-49529	Naphthalene	0.065

2.6.2 Revised Conceptual Model

This section evaluates the COPCs in order to identify trends that could indicate a release from AOC 48-012 and to identify the extent of the contamination resulting from such a release. Results of the data review were used to reassess and revise the preliminary site conceptual model.

2.6.2.1 Source of Contamination at AOC 48-012

The source of organic chemical contamination at AOC 48-012 is unknown, but it was probably the result of an accidental spill or waste that was inappropriately disposed of. Observations from the excavation during the remedial activities indicate that the contamination did not originate from a buried pipe (outfall) as initially suspected.

2.6.2.2 Nature and Extent of Organic Chemicals

Prior to remedial activities, 23 organic chemicals were detected in soil and core samples at the site. Of these, 3 organic chemicals (1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and naphthalene) were detected at elevated concentrations. The vertical extent of the organic chemical plume was defined by borehole core samples (collected prior to the cleanup activities), which showed no detected organic chemicals at TD, and by post-excavation confirmatory samples. The lateral extent of the plume was initially defined by the EMFLUX survey (see section 2.3.2), then verified by boreholes (see section 2.3.4 and 2.3.5) and post-excavation confirmatory samples, and by using the PID during the excavation activities to measure the headspace in samples collected from the perimeter of the excavation as it advanced. Table 2.6-1 lists the headspace samples that were collected from the walls of the final excavation; Figure 2.6-2 shows the locations of the samples. These samples showed no detected concentrations of VOCs.

2.6.2.3 Contaminant Release Mechanisms and Transport Pathways

Residual contamination at AOC 48-012 is nominal. Post-excavation PID soil headspace samples and confirmatory soil samples show that the majority of the contaminated material has been removed from the site. As a result of this cleanup activity, and given the depth of the residual contamination, minimal potential exists for contaminant transport from AOC 48-012.

2.6.3 Site Restoration

Approximately 190 yd^3 of clean fill was backfilled into the excavation using dump trucks, a backhoe, and a sheepsfoot roller. The clean fill was distributed in 1-ft lifts and compacted using the roller (see photographs in Appendix D). Upon completion of the backfilling, JCNNM personnel paved the excavated area with asphalt.

2.7 Site Assessments

Tables 2.7-1 and Table 2.7-2 compare the maximum detected concentrations of each chemical detected in the confirmatory samples with EPA Region 6 soil values for an outdoor worker (EPA 2001, 71466). As shown in Table 2.6-3, neither 1,2,4-trimethylbenzene nor 1,3,5-trimethylbenzene were detected in any of the confirmatory samples, and naphthalene was detected below the proposed PRG of 80 mg/kg. Therefore, the remediation activities at AOC 48-012 successfully reduced COPC concentrations to levels below the target PRGs. However, several other organic chemicals were detected in the confirmatory samples and are evaluated below.

The maximum concentrations of noncarcinogenic chemicals detected in the confirmatory samples were all below the EPA Region 6 outdoor worker values and resulted in a hazard index (HI) of approximately 0.08. The concentrations of carcinogenic chemicals detected in the confirmatory samples were above the EPA Region 6 outdoor worker values for benzo(a)anthracene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and benzo(a)pyrene (these values are based on a 10^{-6} cancer risk level.) The

total excess incremental cancer risk from these chemicals, based on the maximum detected concentrations, is approximately 1×10^{-4}.

All the maximum values come from one sample (RE48-02-49521), so it is unlikely that this level of risk would be realized by workers at this site. The next highest concentrations of carcinogenic chemicals came from sample RE48-02-49525 and result in an excess incremental cancer risk of approximately 4×10^{-6}. A third confirmatory sample (RE48-02-49520) reported a detected concentration of benzo(a)anthracene, which results in an excess incremental cancer risk of approximately 1×10^{-7}. Carcinogenic chemicals were not detected in any other confirmatory samples, so the risk level across the site is less than the maximum risk and more on the order of 10^{-5}.

In addition, the residual contamination at this site has been covered by 7 ft of fill which itself is covered by asphalt. It is therefore not accessible to receptors and presents no potential risk to a worker.

Table 2.7-1
Comparison of Noncarcinogenic Chemicals to Outdoor Worker Values

Analyte	Sample ID	Maximum Concentration (mg/kg)	EPA Outdoor Worker Value (mg/kg)
Acenaphthene	RE48-02-49521	10.7	33000
Anthracene	RE48-02-49521	11.0	100000
Dibenzofuran	RE48-02-49521	5.3	3500
Fluoranthene	RE48-02-49521	26.1	24000
Fluorene	RE48-02-49521	9.3	26000
Naphthalene	RE48-02-49521	13.7	210
Phenanthrene	RE48-02-49521	37.2	32000[a]
Pyrene	RE48-02-49521	34.7	32000
2-Methylnaphthalene	RE48-02-49521	3.7	210[b]
2,4-Dimethylphenol	RE48-02-49521	0.31	14000
2-Methylphenol	RE48-02-49521	0.19	34000
4-Methylphenol	RE48-02-49521	0.44	3400
Benzo(g,h,i)perylene	RE48-02-49521	3.2	32000[a]

[a] Phenanthrene and benzo(g,h,i)perylene do not have an EPA value, so pyrene was used as a surrogate based on structural similarity.

[b] 2-methylnaphthalene does not have an EPA value, so naphthalene was used as a surrogate based on structural similarity

Table 2.7-2
Comparison of Carcinogenic Chemicals to Outdoor Worker Values

Analyte	Sample ID	Maximum Concentration (mg/kg)	EPA Outdoor Worker Value (mg/kg)
Benzo(a)anthracene	RE48-02-49521	17.4	2.3
Benzo(a)pyrene	RE48-02-49521	10.5	0.23
Benzo(b)fluoranthene	RE48-02-49521	12.3	2.3
Chrysene	RE48-02-49521	11.8	230
Dibenz(a,h)anthracene	RE48-02-49521	9.7	0.23
Indeno(1,2,3-cd)pyrene	RE48-02-49521	1.0	2.3

An ecological screening assessment was completed for this site and it is presented in Appendix C. The ecological screening assessment concluded that the site has no visible ecological receptors and presented no obvious ecological effects. Ecological risk is not evaluated because the residual contamination is at 7 ft bgs and is not accessible to receptors (if any were present). In addition, this site is located in the middle of an industrial area and does not provide suitable habitat for supporting receptor populations. Therefore, ecological risk is not an issue at AOC 48-012.

Following the remediation of the AOC, concentrations of the three COPCs were reduced to levels below proposed PRGs. In addition, the concentrations of the other chemicals (primarily PAHs) detected in the confirmatory samples did not pose a potentially unacceptable risk to human health.

3.0 WASTE MANAGEMENT

Approximately 190 yd^3 of contaminated soil were removed from AOC 48-012, placed in roll-off bins, and transported to the Rio Rancho Landfill for final disposal.

4.0 REFERENCES

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Appendix A

Acronyms and Glossary

A-1.0 ACRONYMS

AOC	area of concern
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, xylenes
BV	background value
C	Chemistry (Laboratory Division)
COPC	chemical of potential concern
DOE	US Department of Energy
DRO	diesel range organics
EPA	US Environmental Protection Agency
FID	flame ionization detector
FMU	facility management unit
GPR	ground penetrating radar
HI	hazard index
JCNNM	Johnson Controls Northern New Mexico
LANL	Los Alamos National Laboratory
ng	nanogram
NMED	New Mexico Environment Department
NMWQCC	New Mexico Water Quality Control Commission
NMED SWQB	New Mexico Environment Department Surface Water Quality Bureau
NMED HWB	New Mexico Environment Department Hazardous Waste Bureau
PCB	polychlorinated biphenyl
PID	photoionization detector
PRG	preliminary remediation goal
RC	radiochemistry
RCRA	Resource Conservation and Recovery Act
RFI	RCRA facility investigation
RRES-R	Risk Reduction and Environmental Stewardship Division–Remediation (program)
SVOC	semivolatile organic compounds
SWMU	solid waste management unit
T&E	threatened and endangered
TA	technical area
TAL	target analyte list
TD	total depth
TPH	total petroleum hydrocarbons
VCA	voluntary corrective action
VOC	volatile organic compound

A-2.0 GLOSSARY

absorption — The penetration of substances into the bulk of a solid or liquid.

accuracy — A measure of the closeness of measurements to the true value of the parameter being measured.

adsorption — The surface retention of solid, liquid, or gas molecules, atoms, or ions by a solid or a liquid.

aliquot (also known as a *subsample*) — A portion of a sample that is representative of the entire sample.

alluvial — Relating to geologic deposits or features formed by running water.

analysis — Includes physical analysis, chemical analysis, and knowledge-of-process determinations. (Laboratory Hazardous Waste Facility Permit)

analyte — The element, nuclide, or ion a chemical analysis seeks to identify and/or quantify; the chemical constituent of interest.

anomaly — A deviation that is beyond normal variations.

aquifer — Body of permeable geologic material whose saturated portion is capable of readily yielding groundwater to wells.

area of concern (AOC) — Areas at the Laboratory that might warrant further investigation for releases based on past facility waste-management activities.

background level — Naturally occurring concentrations (levels) of an inorganic chemical and naturally occurring radionuclides in soil, sediment, and tuff.

background radiation — Amount of radioactivity naturally present in the environment, including cosmic rays from space and natural radiation from soils and rock.

background screening value (BSV) — A threshold used to identify site sample results that may be greater than background levels.

background level — Naturally occurring concentrations (levels) of an inorganic chemical and naturally occurring radionuclides in soil, sediment, and tuff.

baseline risk assessment (also known *as risk assessment*) — A site-specific analysis of the potential adverse effects of hazardous constituents that are released from a site in the absence of any control or mitigation actions. A baseline risk assessment consists of four steps: data collection and analysis, exposure assessment, toxicity assessment, and risk characterization.

calibration — Process used to identify the relationship between the true analyte concentration or other variable and the response of a measurement instrument, chemical analysis method, or other measurement system.

chemical — Any naturally occurring or man-made substance characterized by a definite molecular composition, including molecules that contain radionuclides.

chemical analysis — Process used to measure one or more attributes of a sample in a clearly defined, controlled, systematic manner. Often requires treating a sample chemically or physically before measurement.

chemical of potential concern (COPC) — A chemical, detected at a site, that has the potential to adversely affect human receptors due to its concentration, distribution, and mechanism of toxicity. A COPC remains a concern until exposure pathways and receptors are evaluated in a site-specific human health risk assessment.

chemical of potential ecological concern (COPEC) — A chemical, detected at a site, that has the potential to adversely affect ecological receptors due to its concentration, distribution, and mechanism of toxicity.

cleanup levels — Media-specific contaminant concentration levels that must be met by a selected corrective action. Cleanup levels are established by using criteria such as protection of human health and the environment; compliance with regulatory requirements; reduction of toxicity, mobility, or volume through treatment; long- and short-term effectiveness; implementability; cost; and public acceptance.

collocated sample — One of two or more samples collected within close proximity of each other meant to represent the same immediate area.

conceptual model — See *site conceptual model.*

confined — Said of groundwater in an artesian aquifer.

contaminant — Any chemical (including radionuclides) present in environmental media or on structural debris.

corrective action — Action to rectify conditions adverse to human health or the environment.

decontamination — Removal of unwanted material from the surface of or from within another material.

discharge — Accidental or intentional spilling, leaking, pumping, pouring, emitting, emptying, or dumping of hazardous waste into or on any land or water. (RCRA, 40 CFR 260.10)

disposal — The discharge, deposit, injection, dumping, spilling, leaking, or placing of any solid waste or hazardous waste into or on any land or water so that such solid waste or hazardous waste or any constituent thereof may enter the environment or be emitted into the air or discharged into any waters, including groundwaters. (40 CFR Part 260.10)

DOE — See *US Department of Energy*

dose — Quantity of radiation that is absorbed, per unit of mass, by the body or by any portion of the body.

duplicate analysis — Analysis performed on one of a pair of identically prepared subsamples taken from the same sample.

duplicate measurement — An additional measurement performed on a prepared sample under identical conditions to evaluate the variance in the measurement.

ecological screening level (ESL) — An organism's exposure-response threshold for a given chemical constituent. The concentration of a substance in a particular medium corresponds to a hazard quotient (HQ) of 1.0 for a given organism below which no risk is indicated.

effluent — Liquid discharged as a waste, such as contaminated water from a factory or the outflow from a sewage works; water discharged from a storm sewer or from land after irrigation.

EPA — See *US Environmental Protection Agency*

ephemeral — Said of a stream or spring that flows only during and immediately after periods of rainfall or snowmelt.

estimated quantitation limit (EQL) — The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine analytical laboratory operating conditions. The low point on a calibration curve should reflect this quantitation limit. The EQL is not used to establish detection status. Sample estimated quantitation limits are highly matrix-dependent, and the specified estimated quantitation limits might not always be achievable. See the statement of work (SOW) for analytical services (RFP No. 9-XS1-Q4257) for a more complete definition.

evapotranspiration — The combined discharge of water from the earth's surface to the atmosphere by evaporation from lakes, streams, and soil surfaces, and by transpiration from plants.

exposure pathway — Mode by which a receptor may be exposed to contaminants in environmental media (e.g., drinking water, ingesting food, or inhaling dust).

field duplicate (replicate) **samples** — Two separate, independent samples taken from the same source that are collected in such a manner that they are collocated samples, equally representative of the sample matrix at a given location and time.

field sample — See *sample*.

flood plain — The portion of a river valley that is built of overbank sediment deposited when the river floods.

gamma radiation — A form of electromagnetic, high-energy radiation emitted from a nucleus. Gamma rays are essentially the same as x-rays and require heavy shielding, such as concrete or steel, to be blocked.

grab sample — A specimen collected by a single application of a field sampling procedure to a target population (e.g., the surface soil from a single hole collected following the spade-and-scoop sampling procedure or a single air filter left in the field for three months).

groundwater — Water in a subsurface saturated zone; water beneath the regional water table.

hazard index (HI) — The sum of hazard quotients for multiple contaminants to which a receptor (j) is determined to be exposed, i.e., $HI_j = \sum_I HQ_{ij}$.

hazard quotient (HQ) — The ratio of a calculated exposure (E) to or dose (D) from a given contaminant (I) to a given receptor (j) over a reference value (TRV) for contaminant (I) determined to be protective of receptor (j), i.e., $HQ_{ij} = E_{ij}$ [or D_{ij}]TRV_{ij}.

hazardous constituent — Those constituents listed in Appendix VIII to 40 CFR Part 261.

hazardous waste — Any solid waste is generally a hazardous waste if it

- is not excluded from regulation as a hazardous waste,
- is listed in the regulations as a hazardous waste,
- exhibits any of the defined characteristics of hazardous waste (ignitability, corrosivity, reactivity, or toxicity), or
- is a mixture of solid waste and hazardous waste.

See 40 CFR 261.3 for a complete definition of hazardous waste.

industrial-use scenario — Industrial use is the scenario in which current Laboratory operations continue. Any necessary remediation involves cleanup to standards designed to ensure a safe and healthy work environment for Laboratory workers.

infiltration — Entry of water into the ground.

interim measure — Short-term actions taken to respond to immediate threats to human health or to prevent damage or contaminant migration to the environment.

intermittent stream — A stream that flows only in certain reaches due to losing and gaining characteristics of the channel bed.

leaching — The separation or dissolving out of soluble constituents of a solid material by the natural action of percolating water or by chemicals.

matrix (see also *sample matrix*) — Relatively fine material in which coarser fragments or crystals are embedded; also called "ground mass" in the case of igneous rocks.

medium (environmental) — Any media capable of absorbing or transporting constituents. Examples of media include tuffs, soils and sediments derived from these tuffs, surface water, soil water, groundwater, air, structural surfaces, and debris.

migration — The movement of inorganic and organic species through unsaturated or saturated materials.

migration pathway — A route (e.g., a stream or subsurface flow path) that controls the potential movement of contaminants to environmental receptors (plants, animals, humans).

mitigation — (1) Avoiding an impact altogether by not taking a certain action or parts of an action. (2) Minimizing impacts by limiting the degree or magnitude of the action and its implementation. (3) Rectifying the impact by repairing, rehabilitating, or restoring the affected environment. (4) Reducing or eliminating the impact over time by preservation and maintenance operations during the life of the action. (5) Compensating for the impact by replacing or providing substitute resources or environments.

model — A mathematical approximation of a physical, biological, or social system.

operable unit (OU) — At the Laboratory, one of 24 areas originally established for administering the ER Project. Set up as groups of potential release sites, the OUs were aggregated based on geographic proximity for the purpose of planning and conducting RCRA facility assessments and RCRA facility investigations. As the project matured, it became apparent that 24 were too many to allow efficient communication and to ensure consistency in approach. Therefore, in 1994, the 24 OUs were reduced to six administrative "field units."

outfall — The vent or end of a drain, pipe, sewer, ditch, or other conduit that carries wastewater, sewage, storm runoff or other effluent into a stream.

piezometric surface — The surface that represents the static head in an aquifer: applies to both confined and unconfined aquifers (also called *potentiometric surface*).

polychlorinated biphenyls (PCBs) — Any chemical substance that is limited to the biphenyl molecule that has been chlorinated to varying degrees or any combination of substances which contains such substances. PCBs are colorless, odorless compounds that are chemically, electrically, and thermally stable and have proven to be toxic to both humans and animals.

population (statistical) — A set of units or a continuum in a physical, biological, or social system of interest (e.g., the residents of Los Alamos County, the water in an alluvial aquifer, or the plants in Pajarito Canyon).

potential release site (PRS) — Refers to potentially contaminated sites at the Laboratory that are identified either as solid waste management units (SWMUs) or areas of concern (AOCs). PRS refers to SWMUs and AOCs collectively.

precision — A concept used to describe dispersion of measurements with respect to a measure of location or central tendency. Precision may be represented by the inverse of the standard deviation of a set of measurements.

preliminary remediation goal (PRG) — Acceptable exposure levels, protective of human health and the environment, that are used as a risk-based tool for evaluating remedial alternatives.

preliminary risk assessment — A risk assessment conducted using conservative assumptions and scenarios and assuming no mitigating or corrective measures beyond those already in place.

prepared sample — A sample treated in such a manner as to render it amenable to analysis. May include digestate, distillate, electroplate, extract, filter retentate, filtrate, homogenate, precipitate, pulverized/sieved portion of sample, residue, etc.

radiation — Energy emitted in the form of rays or particles that are thrown off by disintegrating atoms. The rays or particles emitted may consist of neutrons, positrons, alpha particles, beta particles, or gamma radiation.

radionuclide — A nuclide (species of atom) that exhibits radioactivity.

RCRA facility assessment (RFA) — Usually the first step in the RCRA corrective action process, to identify potential and actual releases from solid waste management units and make preliminary determinations about releases, the need for corrective action, and stabilization measures.

RCRA facility investigation (RFI) — The investigation that determines if a release has occurred and the nature and extent of the contamination at a hazardous waste facility. The RFI is generally equivalent to the remedial investigation portion of the Comprehensive Environment Response, Compensation, and Liability Act (CERCLA) process.

receptor — A person, plant, animal, or geographical location that is exposed to a chemical or physical agent released to the environment by human activities.

release — Any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing of hazardous waste or hazardous constituents into the environment (including the abandonment or discarding of barrels, containers, and other closed receptacles that contain any hazardous wastes or hazardous constituents).

remediation — The process of reducing the concentration of a contaminant (or contaminants) in air, water, or soil media to a level that poses an acceptable risk to human health and the environment; the act of restoring a contaminated area to a usable condition based on specified standards.

Resource Conservation and Recovery Act (RCRA) — The Solid Waste Disposal Act as amended by the Resource Conservation and Recovery Act of 1976. (40 CFR 270.2)

risk — A measure of a negative or undesirable impact associated with an event.

risk assessment — See *baseline risk assessment.*

risk assessment, preliminary — See *preliminary risk assessment.*

risk characterization — The summarization and integration of the results of toxicity and exposure assessments into quantitative and qualitative expressions of risk. The major assumptions, scientific judgments, and sources of uncertainty related to the assessment are also presented.

sample — A portion of a material (e.g., rock, soil, water, air), which, alone or in combination with other samples, is expected to be representative of the material or area from which it is taken. Samples are typically sent to a laboratory for analysis or inspection or are analyzed in the field. When referring to samples of environmental media, the term *field sample* may be used.

sample matrix — In chemical analysis, that portion of a sample which is exclusive of the analytes of interest. Together, the matrix and analytes of interest form the sample.

sediment — (1) A mass of fragmented inorganic solid that comes from the weathering of rock and is carried or dropped by air, water, gravity, or ice; or a mass that is accumulated by any other natural agent and that forms in layers on the earth's surface such as sand, gravel, silt, mud, fill, or loess. (2) A solid material that is not in solution and either is distributed through the liquid or has settled out of the liquid.

site characterization — Defining the pathways and methods of migration of the hazardous *waste* or constituents, including the media affected, the extent, direction and speed of the contaminants, complicating factors influencing movement, concentration profiles, etc. (US Environmental Protection Agency, May 1994. "RCRA Corrective Action Plan, Final," Publication EPA-520/R-94/004, Office of Solid Waste and Emergency Response, Washington, DC)

site conceptual model — A qualitative or quantitative description of sources of contamination, environmental transport pathways for contamination, and biota that may be impacted by contamination (called receptors) and whose relationships describe qualitatively or quantitatively the release of contamination from the sources, the movement of contamination along the pathways to the exposure points, and the uptake of contaminant by the receptors.

soil gas — Those gaseous elements and compounds that occur in the void spaces in unsaturated rock or soil. Such gases can move through or leave the rock or soil, depending on changes in pressure.

soil water — Water in the unsaturated zone, regardless of whether it occurs in soil or rock.

solid waste — Any garbage; refuse; sludge from a waste treatment plant, water-supply treatment plant, or air-pollution-control facility; and other discarded material including solid, liquid, semisolid, or contained gaseous material resulting from industrial, commercial, mining, and agricultural operations and from community activities.

solid waste management unit (SWMU) — Any discernible unit at which solid wastes have been placed at any time, irrespective of whether the unit was intended for the management of solid *or* hazardous waste. Such units include any area at a facility at which solid wastes have been routinely and systematically released. This definition includes regulated units (i.e., landfills, surface impoundments, waste piles, and land treatment units) but does not include passive leakage or one-time spills from production areas and units in which wastes have not been managed (e.g., product storage areas).

spring — The site where groundwater discharges to the ground surface.

standard operating procedure (SOP) — A document that details the method for an operation, analysis, or action with thoroughly prescribed techniques and steps, and is officially approved as the method for performing certain routine or repetitive tasks.

subsample — See *aliquot*.

surrogate compound or surrogate — An organic compound used in the analyses of organic target analytes that is similar in composition and behavior to target analytes but is not normally found in field samples. Surrogates are added to every blank and spike sample to evaluate the efficiency with which analytes are recovered during extraction and analysis.

target analyte — An element, chemical, or parameter, the concentration, mass, or magnitude of which is designed to be quantified by use of a particular test method.

technical area (TA) — The Laboratory established technical areas as administrative units for all its operations. There are currently 49 active TAs spread over 43 mi^2.

transport or transportation — The movement of a *hazardous waste* by air, rail, highway, or water. (40 CFR 260.10)

treatment — Any method, technique, or process, including elementary neutralization, designed to change the physical, chemical, or biological character or composition of any hazardous waste so as to neutralize such waste; recover energy or material resources from the waste; or so as to render such waste nonhazardous or less hazardous; safer to transport, store, or dispose of; or amenable for recovery or storage; or reduced in volume.

tuff — A compacted deposit of volcanic ash and dust that contains rock and mineral fragments accumulated during an eruption.

unconfined — Said of water in a saturated zone that is open to the atmosphere (that is, not beneath a confining bed or under artesian pressure).

unsaturated zone — The zone between the land surface and the regional water table and between perched zones of saturation. Generally, fluid pressure in this zone is less than atmospheric pressure, and some of the voids may contain air or other gases at atmospheric pressure.

US Department of Energy (DOE) — Federal agency that sponsors energy research and regulates nuclear materials for weapons production.

US Environmental Protection Agency (EPA) — Federal agency responsible for enforcing environmental laws. While state regulatory agencies may be authorized to administer some of this responsibility, the EPA retains oversight authority to ensure protection of human health and the environment.

water table — The top of the regional saturated zone; the piezometric surface associated with an unconfined aquifer.

Appendix B

Analytical Laboratory Reports
and Chain-of-Custody Records

B-1.0. GRAB SAMPLES IN TRENCH

ASSAIGAI ANALYTICAL LABORATORIES, INC.

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Explanation of codes

B	*analyte detected in Method Blank*
E	*result is estimated*
H	*analyzed out of hold time*
N	*tentatively identified compound*
S	*subcontracted*
1-9	*see footnote*

GTS DURATEK
attn: **KEITH TUCKER**
555 OPPENHEIMER SUITE 101
LOS ALAMOS NM 87544

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **GTS DURATEK**
Project: **TA-48 N & E CHAR.**
Order: **0208537 gts02** Receipt: **08-26-02**

William P. Biava: President of Assaigai Analytical Laboratories, Inc.

Sample: ***48.FS.S / 48-1*** Collected: *08-23-02 13:50:00* By: *KT*
Matrix: ***C***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0208537-01A		**ASTM D2216**					By:	NL		
MO0212	WC.2002.1126.2		Moisture	17.1	%	1	0.1	H	08-26-02	08-29-02
0208537-01A		**EPA 300.0**					By:	DAW		
W02349	WC.2002.1136.10	14797-65-0	Nitrate, as N	ND	mg / Kg	10	0.05		09-03-02	09-03-02
W02349	WC.2002.1136.10	14797-55-8	Nitrite, as N	ND	mg / Kg	10	0.05		09-03-02	09-03-02
W02349	WC.2002.1136.10		Sulfate	0.96	mg / Kg	10	0.05		09-03-02	09-03-02
0208537-01A		**SW846 3050A/6010A ICP**					By:	CWJ		
M021167	MT.2002.1021.25	7429-90-5	Aluminum	2700	mg / Kg	1	10		08-27-02	08-30-02
M021167	MT.2002.1021.25	7440-36-0	Antimony	ND	mg / Kg	1	2.5	2	08-27-02	08-30-02
M021167	MT.2002.1021.25	7440-38-2	Arsenic	2.3	mg / Kg	1	1.5		08-27-02	08-30-02
M021167	MT.2002.1021.25	7440-39-3	Barium	21.4	mg / Kg	1	2.5		08-27-02	08-30-02
M021167	MT.2002.1021.25	7440-41-7	Beryllium	ND	mg / Kg	1	1		08-27-02	08-30-02
M021167	MT.2002.1021.25	7440-43-9	Cadmium	ND	mg / Kg	1	0.25		08-27-02	08-30-02
M021167	MT.2002.1021.25	7440-70-2	Calcium	711	mg / Kg	1	25		08-27-02	08-30-02
M021167	MT.2002.1021.25	7440-47-3	Chromium	ND	mg / Kg	1	2.5		08-27-02	08-30-02
M021167	MT.2002.1021.25	7440-48-4	Cobalt	ND	mg / Kg	1	1.5		08-27-02	08-30-02
M021167	MT.2002.1029.27	7440-50-8	Copper	ND	mg / Kg	1	2.5		08-27-02	09-03-02
M021167	MT.2002.1021.25	7439-89-6	Iron	6580	mg / Kg	1	10		08-27-02	08-30-02
M021167	MT.2002.1021.25	7439-92-1	Lead	ND	mg / Kg	1	5		08-27-02	08-30-02
M021167	MT.2002.1021.25	7439-95-4	Magnesium	462	mg / Kg	1	50		08-27-02	08-30-02
M021167	MT.2002.1021.25	7439-96-5	Manganese	113	mg / Kg	1	0.5	2	08-27-02	08-30-02
M021167	MT.2002.1029.27	7440-02-0	Nickel	ND	mg / Kg	1	2.5		08-27-02	09-03-02
M021167	MT.2002.1029.27	7440-09-7	Potassium	272	mg / Kg	1	50		08-27-02	09-03-02
M021167	MT.2002.1021.25	7782-49-2	Selenium	ND	mg / Kg	1	3		08-27-02	08-30-02

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Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **GTS DURATEK**

Project: **TA-48 N & E CHAR.**

Order: **0208537** **gts02** Receipt: **08-26-02**

Sample: ***48.FS.S / 48-1*** Collected: *08-23-02 13:50:00* By: *KT*

Matrix: ***C***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0208537-01A		**SW846 3050A/6010A ICP**					By:	CWJ		
M021167	MT.2002.1021.25	7440-22-4	Silver	ND	mg / Kg	1	2		08-27-02	08-30-02
M021167	MT.2002.1029.27	7440-23-5	Sodium	35.8	mg / Kg	1	20		08-27-02	09-03-02
M021167	MT.2002.1021.25	7440-28-0	Thallium	ND	mg / Kg	1	10		08-27-02	08-30-02
M021167	MT.2002.1029.27	7440-62-2	Vanadium	4.55	mg / Kg	1	0.5		08-27-02	09-03-02
M021167	MT.2002.1021.25	7440-66-6	Zinc	27.7	mg / Kg	1	0.02		08-27-02	08-30-02
0208537-01A		**SW846 3550A/8082 PCBs by GC/ECD**					By:	ALG		
X02353	XG.2002.1395.11	12674-11-2	Aroclor 1016	ND	mg / Kg	1	0.05		08-29-02	08-30-02
X02353	XG.2002.1395.11	11104-28-2	Aroclor 1221	ND	mg / Kg	1	0.05		08-29-02	08-30-02
X02353	XG.2002.1395.11	11141-16-5	Aroclor 1232	ND	mg / Kg	1	0.05		08-29-02	08-30-02
X02353	XG.2002.1395.11	53469-21-9	Aroclor 1242	ND	mg / Kg	1	0.05		08-29-02	08-30-02
X02353	XG.2002.1395.11	12672-29-6	Aroclor 1248	ND	mg / Kg	1	0.05		08-29-02	08-30-02
X02353	XG.2002.1395.11	11097-69-1	Aroclor 1254	ND	mg / Kg	1	0.05		08-29-02	08-30-02
X02353	XG.2002.1395.11	11096-82-5	Aroclor 1260	ND	mg / Kg	1	0.05		08-29-02	08-30-02
0208537-01A		**SW846 3550A/8270B SVOCs by GC/MS**					By:	DS		
X02369	XG.2002.1394.2	120-82-1	1,2,4-Trichlorobenzene	ND	mg / Kg	1	0.03	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	95-50-1	1,2-Dichlorobenzene	ND	mg / Kg	1	0.03	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	541-73-1	1,3-Dichlorobenzene	ND	mg / Kg	1	0.03	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	106-46-7	1,4-Dichlorobenzene	ND	mg / Kg	1	0.03	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	90-12-0	1-Methylnaphthalene	0.063	mg / Kg	1	0.03	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	58-90-2	2,3,4,6-Tetrachlorophenol	ND	mg / Kg	1	1.5	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	95-95-4	2,4,5-Trichlorophenol	ND	mg / Kg	1	0.3	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	88-06-2	2,4,6-Trichlorophenol	ND	mg / Kg	1	0.3	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	120-83-2	2,4-Dichlorophenol	ND	mg / Kg	1	0.3	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	105-67-9	2,4-Dimethylphenol	ND	mg / Kg	1	0.03	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	51-28-5	2,4-Dinitrophenol	ND	mg / Kg	1	0.67	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	121-14-2	2,4-Dinitrotoluene	ND	mg / Kg	1	0.3	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	606-20-2	2,6-Dinitrotoluene	ND	mg / Kg	1	0.3	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	91-58-7	2-Chloronaphthalene	ND	mg / Kg	1	0.03	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	95-57-8	2-Chlorophenol	ND	mg / Kg	1	0.03	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	91-57-6	2-Methylnaphthalene	0.24	mg / Kg	1	0.03	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	95-48-7	2-Methylphenol	ND	mg / Kg	1	0.03	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	88-74-4	2-Nitroaniline	ND	mg / Kg	1	0.3	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	88-75-5	2-Nitrophenol	ND	mg / Kg	1	0.3	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	91-94-1	3,3-Dichlorobenzidine	ND	mg / Kg	1	0.3	1	08-28-02	08-29-02
X02369	XG.2002.1394.2		3+4 Methylphenol	ND	mg / Kg	1	0.03	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	99-09-2	3-Nitroaniline	ND	mg / Kg	1	0.3	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	534-52-1	4,6-Dinitro-2-methylphenol	ND	mg / Kg	1	0.3	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	101-55-3	4-Bromophenyl-phenylether	ND	mg / Kg	1	0.03	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	59-50-7	4-Chloro-3-methylphenol	ND	mg / Kg	1	0.3	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	106-47-8	4-Chloroaniline	ND	mg / Kg	1	0.3	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	7005-72-3	4-Chlorophenyl-phenylether	ND	mg / Kg	1	0.03	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	100-01-6	4-Nitroaniline	ND	mg / Kg	1	0.3	1	08-28-02	08-29-02

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Sample: ***48.FS.S / 48-1*** Collected: *08-23-02 13:50:00* By: *KT*
Matrix: ***C***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0208537-01A		SW846 3550A/8270B SVOCs by GC/MS					By:	DS		
X02369	XG.2002.1394.2	100-02-7	4-Nitrophenol	ND	mg / Kg	1	0.6	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	83-32-9	Acenaphthene	ND	mg / Kg	1	0.03	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	208-96-8	Acenaphthylene	ND	mg / Kg	1	0.03	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	62-53-3	Aniline	ND	mg / Kg	1	0.3	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	120-12-7	Anthracene	ND	mg / Kg	1	0.03	1	08-28-02	08-29-02
X02369	XG.2002.1394.2		Azobenzene&1,2-Diphenylhydrazine	ND	mg / Kg	1	0.03	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	56-55-3	Benzo (a) anthracene	0.062	mg / Kg	1	0.03	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	50-32-8	Benzo(a)pyrene	ND	mg / Kg	1	0.03	1	08-28-02	08-29-02
X02369	XG.2002.1394.2		Benzo(b & k)fluoranthene	0.095	mg / Kg	1	0.03	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	191-24-2	Benzo(g,h,i)perylene	ND	mg / Kg	1	0.3	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	64-85-0	Benzoic acid	ND	mg / Kg	1	3	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	100-51-6	Benzyl alcohol	ND	mg / Kg	1	1.5	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	111-44-4	bis (2-Chloroethyl) ether	ND	mg / Kg	1	0.03	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	111-91-1	bis(2-Chloroethoxy)methane	ND	mg / Kg	1	0.03	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	108-60-1	bis(2-Chloroisopropyl)ether	ND	mg / Kg	1	0.03	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	117-81-7	bis(2-Ethylhexyl)phthalate	2.4	mg / Kg	1	0.3	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	85-68-7	Butylbenzylphthalate	ND	mg / Kg	1	0.03	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	218-01-9	Chrysene	0.056	mg / Kg	1	0.03	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	53-70-3	Dibenz(a,h)anthracene	ND	mg / Kg	1	0.3	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	132-64-9	Dibenzofuran	ND	mg / Kg	1	0.03	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	84-66-2	Diethylphthalate	ND	mg / Kg	1	0.03	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	131-11-3	Dimethylphthalate	ND	mg / Kg	1	0.03	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	84-74-2	di-n-Butylphthalate	ND	mg / Kg	1	0.3	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	117-84-0	di-n-Octylphthalate	ND	mg / Kg	1	0.3	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	206-44-0	Fluoranthene	0.13	mg / Kg	1	0.03	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	86737	Fluorene	ND	mg / Kg	1	0.03	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	118-74-1	Hexachlorobenzene	ND	mg / Kg	1	0.03	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	87-68-3	Hexachlorobutadiene	ND	mg / Kg	1	0.03	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	77-47-4	Hexachlorocyclopentadiene	ND	mg / Kg	1	1.5	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	67-72-1	Hexachloroethane	ND	mg / Kg	1	0.03	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	193-39-5	Indeno(1,2,3-cd)pyrene	ND	mg / Kg	1	0.3	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	78-59-1	Isophorone	ND	mg / Kg	1	0.03	1	08-28-02	08-29-02
X02369	XG.2002.1393.1	91-20-3	Naphthalene	210	mg / Kg	414	0.03	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	98-95-3	Nitrobenzene	ND	mg / Kg	1	0.03	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	62-75-9	n-Nitroso-dimethyl-amine	ND	mg / Kg	1	0.3	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	621-64-7	n-Nitroso-di-n-propylamine	ND	mg / Kg	1	0.03	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	86-30-6	n-Nitrosodiphenylamine	ND	mg / Kg	1	0.03	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	87-86-5	Pentachlorophenol	ND	mg / Kg	1	0.3	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	85-01-8	Phenanthrene	0.12	mg / Kg	1	0.03	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	108-95-2	Phenol	ND	mg / Kg	1	0.3	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	129-00-0	Pyrene	0.12	mg / Kg	1	0.03	1	08-28-02	08-29-02
X02369	XG.2002.1394.2	110-86-1	Pyridine	ND	mg / Kg	1	0.3	1	08-28-02	08-29-02

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Order: **0208537** **gts02** Receipt: **08-26-02**

Sample: ***48.FS.S / 48-1*** Collected: *08-23-02 13:50:00* By: *KT*

Matrix: ***C***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0208537-01A		**SW846 7471 CVAA**					By:	JRE		
M021165	MT.2002.995.18	7439-97-6	Mercury	ND	mg / Kg	1	0.05		08-27-02	08-27-02
0208537-01A		**SW846 ME/8015A Diesel Range Organics by GC/FID**					By:	REH		
X02376	XG.2002.1386.1		Diesel Range Organics	18000	mg / Kg	20	25		08-27-02	08-28-02
0208537-01B		**SW846 1311/3010A/6010A ICP TCLP**					By:	CWJ		
M021172	MT.2002.1008.85	7440-38-2	Arsenic	ND	mg / L	1	0.1		08-28-02	08-29-02
M021172	MT.2002.1008.85	7440-39-3	Barium	0.5	mg / L	1	0.1		08-28-02	08-29-02
M021172	MT.2002.1008.85	7440-43-9	Cadmium	ND	mg / L	1	0.02		08-28-02	08-29-02
M021172	MT.2002.1008.85	7440-47-3	Chromium	ND	mg / L	1	0.02		08-28-02	08-29-02
M021172	MT.2002.1008.85	7439-92-1	Lead	ND	mg / L	1	0.05		08-28-02	08-29-02
M021172	MT.2002.1008.85	7782-49-2	Selenium	ND	mg / L	1	0.05		08-28-02	08-29-02
M021172	MT.2002.1008.85	7440-22-4	Silver	ND	mg / L	1	0.04		08-28-02	08-29-02
0208537-01B		**SW846 1311/7470 CVAA TCLP**					By:	JRE		
M021171	MT.2002.1004.34	7439-97-6	Mercury	ND	mg / L	1	0.0002		08-28-02	08-28-02
0208537-01C		**SW846 8260B Purgeable VOCs by GC/MS**					By:	JAA		
X02359	XG.2002.1378.6	75-34-3	1,1 Dichloroethane	ND	mg / Kg	20	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.6	75-35-4	1,1 Dichloroethene	ND	mg / Kg	20	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.6	71-55-6	1,1,1 Trichloroethane	ND	mg / Kg	20	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.6	630-20-6	1,1,1,2 Tetrachloroethane	ND	mg / Kg	20	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.6	79-00-5	1,1,2 Trichloroethane	ND	mg / Kg	20	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.6	79-34-5	1,1,2,2 Tetrachloroethane	ND	mg / Kg	20	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.6	106-93-4	1,2 Dibromoethane (EDB)	ND	mg / Kg	20	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.6	95-50-1	1,2 Dichlorobenzene	ND	mg / Kg	20	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.6	107-06-2	1,2 Dichloroethane (EDC)	ND	mg / Kg	20	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.6	78-87-5	1,2 Dichloropropane	ND	mg / Kg	20	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.6	96-18-4	1,2,3 Trichloropropane	ND	mg / Kg	20	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.10	95-63-6	1,2,4-Trimethylbenzene	430	mg / Kg	400	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.6	541-73-1	1,3 Dichlorobenzene	ND	mg / Kg	20	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.10	108-67-8	1,3,5-Trimethylbenzene	130	mg / Kg	400	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.6	764-41-0	1,4 Dichloro-2-butene	ND	mg / Kg	20	0.05		08-27-02	08-27-02
X02359	XG.2002.1378.6	106-46-7	1,4 Dichlorobenzene	ND	mg / Kg	20	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.6	78-93-3	2-Butanone (MEK)	ND	mg / Kg	20	0.025		08-27-02	08-27-02
X02359	XG.2002.1378.6	591-78-6	2-Hexanone (MBK)	ND	mg / Kg	20	0.025		08-27-02	08-27-02
X02359	XG.2002.1378.6	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	mg / Kg	20	0.025		08-27-02	08-27-02
X02359	XG.2002.1378.6	67-64-1	Acetone	ND	mg / Kg	20	0.05		08-27-02	08-27-02
X02359	XG.2002.1378.6	107-02-8	Acrolein	ND	mg / Kg	20	0.1		08-27-02	08-27-02
X02359	XG.2002.1378.6	107-13-1	Acrylonitrile	ND	mg / Kg	20	0.1		08-27-02	08-27-02
X02359	XG.2002.1378.6	71-43-2	Benzene	ND	mg / Kg	20	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.6	75-27-4	Bromodichloromethane	ND	mg / Kg	20	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.6	75-25-2	Bromoform	ND	mg / Kg	20	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.6	74-83-9	Bromomethane	ND	mg / Kg	20	0.025		08-27-02	08-27-02
X02359	XG.2002.1378.6	75-15-0	Carbon disulfide	ND	mg / Kg	20	0.025		08-27-02	08-27-02

Certificate of Analysis

Client: **GTS DURATEK**
Project: **TA-48 N & E CHAR.**
Order: **0208537** **gts02** Receipt: **08-26-02**

Sample: ***48.FS.S / 48-1*** Collected: *08-23-02 13:50:00* By: *KT*
Matrix: ***C***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0208537-01C		**SW846 8260B Purgeable VOCs by GC/MS**					By:	JAA		
X02359	XG.2002.1378.6	56-23-5	Carbon tetrachloride	ND	mg / Kg	20	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.6	108-90-7	Chlorobenzene	ND	mg / Kg	20	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.6	124-48-1	Chlorodibromomethane	ND	mg / Kg	20	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.6	75-00-3	Chloroethane	ND	mg / Kg	20	0.025		08-27-02	08-27-02
X02359	XG.2002.1378.6	67-66-3	Chloroform	ND	mg / Kg	20	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.6	74-87-3	Chloromethane	ND	mg / Kg	20	0.025		08-27-02	08-27-02
X02359	XG.2002.1378.6	156-59-2	cis-1,2 dichloroethene	ND	mg / Kg	20	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.6		cis-1,3 Dichloropropene	ND	mg / Kg	20	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.6	74-95-3	Dibromomethane	ND	mg / Kg	20	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.6	97-63-2	Ethyl methacrylate	ND	mg / Kg	20	0.025		08-27-02	08-27-02
X02359	XG.2002.1378.6	100-41-4	Ethylbenzene	ND	mg / Kg	20	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.6		Freon 113	ND	mg / Kg	20	0.035		08-27-02	08-27-02
X02359	XG.2002.1378.6	75-71-8	Freon 12	ND	mg / Kg	20	0.05		08-27-02	08-27-02
X02359	XG.2002.1378.6	1634-04-4	Methyl t-butyl ether (MTBE)	ND	mg / Kg	20	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.6	75-09-2	Methylene chloride	ND	mg / Kg	20	0.05		08-27-02	08-27-02
X02359	XG.2002.1378.10	91-20-3	Naphthalene	350	mg / Kg	400	0.025		08-27-02	08-27-02
X02359	XG.2002.1378.6	95-47-6	o-Xylene	3.1	mg / Kg	20	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.6	108-38-3/106-42	p/m-Xylenes	0.60	mg / Kg	20	0.01		08-27-02	08-27-02
X02359	XG.2002.1378.6	100-42-5	Styrene	ND	mg / Kg	20	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.6	156-60-5	t-1,2 Dichloroethene	ND	mg / Kg	20	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.6	10061-02-6	t-1,3 Dichloropropene	ND	mg / Kg	20	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.6	127-18-4	Tetrachloroethene (PCE)	ND	mg / Kg	20	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.6	108-88-3	Toluene	ND	mg / Kg	20	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.6	79-01-6	Trichloroethene	ND	mg / Kg	20	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.6	75-69-4	Trichlorofluoromethane	ND	mg / Kg	20	0.025		08-27-02	08-27-02
X02359	XG.2002.1378.6	108-05-4	Vinyl acetate	ND	mg / Kg	20	0.025		08-27-02	08-27-02
X02359	XG.2002.1378.6	75-01-4	Vinyl chloride	ND	mg / Kg	20	0.01		08-27-02	08-27-02
0208537-01D		**Eichrom**					By:	SM		
ARS021158	SB.2002.301.1		Plutonium-238	0.04+/-0.04	pCi/g	1	0.08	S	09-12-02	09-12-02
ARS021158	SB.2002.301.1		Plutonium-239/240	0.04+/-0.03	pCi/g	1	0.04	S	09-12-02	09-12-02
ARS021158	SB.2002.301.2		Uranium-234	0.63+/-0.11	pCi/g	1	0.05	S	09-12-02	09-12-02
ARS021158	SB.2002.301.2		Uranium-235	0.06+/-0.04	pCi/g	1	0.06	S	09-12-02	09-12-02
ARS021158	SB.2002.301.2		Uranium-238	0.64+/-0.11	pCi/g	1	0.07	S	09-12-02	09-12-02
0208537-01D		**EPA 901.1M**					By:	KCE		
ARS021158	SB.2002.300.1		Americium-241	0.005+/-0.02	pCi/g	1	0.02	S	09-16-02	09-16-02
ARS021158	SB.2002.300.1		Beryllium-7	-0.02+/--0.21	pCi/g	1	0.08	S	09-16-02	09-16-02
ARS021158	SB.2002.300.1		Cadmium-109	-1.34+/--0.19	pCi/g	1	0.2	S	09-16-02	09-16-02
ARS021158	SB.2002.300.1		Cerium-141	0.003+/-0.01	pCi/g	1	0.01	S	09-16-02	09-16-02
ARS021158	SB.2002.300.1		Cerium-144	0.009+/-0.05	pCi/g	1	0.05	S	09-16-02	09-16-02
ARS021158	SB.2002.300.1		Cesium-134	0.04+/-0.008	pCi/g	1	0.05	S	09-16-02	09-16-02
ARS021158	SB.2002.300.1		Cesium-137	-0.002+/--0.36	pCi/g	1	0.01	S	09-16-02	09-16-02

Certificate of Analysis

Client: **GTS DURATEK**
Project: **TA-48 N & E CHAR.**
Order: **0208537** **gts02** Receipt: **08-26-02**

Sample: ***48.FS.S / 48-1*** Collected: *08-23-02 13:50:00* By: *KT*
Matrix: ***C***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0208537-01D		**EPA 901.1M**					By:	KCE		
ARS021158	SB.2002.300.1		Cobalt-57	0.00+/-0.00	pCi/g	1	0.002	S	09-16-02	09-16-02
ARS021158	SB.2002.300.1		Cobalt-60	0.01+/-0.01	pCi/g	1	0.02	S	09-16-02	09-16-02
ARS021158	SB.2002.300.1		Manganese-54	-0.006+/--0.07	pCi/g	1	0.01	S	09-16-02	09-16-02
ARS021158	SB.2002.300.1		Zinc-65	-0.11+/--0.03	pCi/g	1	0.04	S	09-16-02	09-16-02
ARS021158	SB.2002.300.1		Zirconium-95	-0.006+/--0.02	pCi/g	1	0.02	S	09-16-02	09-16-02
0208537-01D		**EPA 905M**					By:	DR		
ARS021158	SB.2002.302.1		Strontium-90	1.40+/-0.60	pCi/g	1	1.37	S	09-11-02	09-11-02
0208537-01D		**EPA 906M**					By:	BZ		
ARS021158	SB.2002.299.8		Tritium	7.35+/-0.20	pCi/g	1	0.46	S	09-11-02	09-11-02

Sample: ***48.C.S / 48-1*** Collected: *08-23-02 14:10:00* By: *KT*
Matrix: ***C***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0208537-02A		**ASTM D2216**					By:	NL		
MO0212	WC.2002.1126.3		Moisture	9.9	%	1	0.1	H	08-26-02	08-29-02
0208537-02A		**EPA 300.0**					By:	DAW		
W02349	WC.2002.1136.13	14797-65-0	Nitrate, as N	ND	mg / Kg	10	0.05		09-03-02	09-03-02
W02349	WC.2002.1136.13	14797-55-8	Nitrite, as N	ND	mg / Kg	10	0.05		09-03-02	09-03-02
W02349	WC.2002.1136.13		Sulfate	1.53	mg / Kg	10	0.05		09-03-02	09-03-02
0208537-02A		**SW846 3050A/6010A ICP**					By:	CWJ		
M021167	MT.2002.1021.30	7439-89-6	Iron	8130	mg / Kg	1	10		08-27-02	08-30-02
0208537-02A		**SW846 3550A/8270B SVOCs by GC/MS**					By:	DS		
X02369	XG.2002.1394.3	120-82-1	1,2,4-Trichlorobenzene	ND	mg / Kg	1	0.03		08-28-02	08-29-02
X02369	XG.2002.1394.3	95-50-1	1,2-Dichlorobenzene	ND	mg / Kg	1	0.03		08-28-02	08-29-02
X02369	XG.2002.1394.3	541-73-1	1,3-Dichlorobenzene	ND	mg / Kg	1	0.03		08-28-02	08-29-02
X02369	XG.2002.1394.3	106-46-7	1,4-Dichlorobenzene	ND	mg / Kg	1	0.03		08-28-02	08-29-02
X02369	XG.2002.1394.3	90-12-0	1-Methylnaphthalene	ND	mg / Kg	1	0.03		08-28-02	08-29-02
X02369	XG.2002.1394.3	58-90-2	2,3,4,6-Tetrachlorophenol	ND	mg / Kg	1	1.5		08-28-02	08-29-02
X02369	XG.2002.1394.3	95-95-4	2,4,5-Trichlorophenol	ND	mg / Kg	1	0.3		08-28-02	08-29-02
X02369	XG.2002.1394.3	88-06-2	2,4,6-Trichlorophenol	ND	mg / Kg	1	0.3		08-28-02	08-29-02
X02369	XG.2002.1394.3	120-83-2	2,4-Dichlorophenol	ND	mg / Kg	1	0.3		08-28-02	08-29-02
X02369	XG.2002.1394.3	105-67-9	2,4-Dimethylphenol	ND	mg / Kg	1	0.03		08-28-02	08-29-02
X02369	XG.2002.1394.3	51-28-5	2,4-Dinitrophenol	ND	mg / Kg	1	0.67		08-28-02	08-29-02
X02369	XG.2002.1394.3	121-14-2	2,4-Dinitrotoluene	ND	mg / Kg	1	0.3		08-28-02	08-29-02
X02369	XG.2002.1394.3	606-20-2	2,6-Dinitrotoluene	ND	mg / Kg	1	0.3		08-28-02	08-29-02
X02369	XG.2002.1394.3	91-58-7	2-Chloronaphthalene	ND	mg / Kg	1	0.03		08-28-02	08-29-02
X02369	XG.2002.1394.3	95-57-8	2-Chlorophenol	ND	mg / Kg	1	0.03		08-28-02	08-29-02
X02369	XG.2002.1394.3	91-57-6	2-Methylnaphthalene	ND	mg / Kg	1	0.03		08-28-02	08-29-02

Certificate of Analysis

Client: **GTS DURATEK**
Project: **TA-48 N & E CHAR.**
Order: **0208537** **gts02** Receipt: **08-26-02**

Sample: ***48.C.S / 48-1*** Collected: *08-23-02 14:10:00* By: *KT*
Matrix: ***C***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0208537-02A		SW846 3550A/8270B SVOCs by GC/MS					By:	DS		
X02369	XG.2002.1394.3	95-48-7	2-Methylphenol	ND	mg / Kg	1	0.03		08-28-02	08-29-02
X02369	XG.2002.1394.3	88-74-4	2-Nitroaniline	ND	mg / Kg	1	0.3		08-28-02	08-29-02
X02369	XG.2002.1394.3	88-75-5	2-Nitrophenol	ND	mg / Kg	1	0.3		08-28-02	08-29-02
X02369	XG.2002.1394.3	91-94-1	3,3-Dichlorobenzidine	ND	mg / Kg	1	0.3		08-28-02	08-29-02
X02369	XG.2002.1394.3		3+4 Methylphenol	ND	mg / Kg	1	0.03		08-28-02	08-29-02
X02369	XG.2002.1394.3	99-09-2	3-Nitroaniline	ND	mg / Kg	1	0.3		08-28-02	08-29-02
X02369	XG.2002.1394.3	534-52-1	4,6-Dinitro-2-methylphenol	ND	mg / Kg	1	0.3		08-28-02	08-29-02
X02369	XG.2002.1394.3	101-55-3	4-Bromophenyl-phenylether	ND	mg / Kg	1	0.03		08-28-02	08-29-02
X02369	XG.2002.1394.3	59-50-7	4-Chloro-3-methylphenol	ND	mg / Kg	1	0.3		08-28-02	08-29-02
X02369	XG.2002.1394.3	106-47-8	4-Chloroaniline	ND	mg / Kg	1	0.3		08-28-02	08-29-02
X02369	XG.2002.1394.3	7005-72-3	4-Chlorophenyl-phenylether	ND	mg / Kg	1	0.03		08-28-02	08-29-02
X02369	XG.2002.1394.3	100-01-6	4-Nitroaniline	ND	mg / Kg	1	0.3		08-28-02	08-29-02
X02369	XG.2002.1394.3	100-02-7	4-Nitrophenol	ND	mg / Kg	1	0.6		08-28-02	08-29-02
X02369	XG.2002.1394.3	83-32-9	Acenaphthene	ND	mg / Kg	1	0.03		08-28-02	08-29-02
X02369	XG.2002.1394.3	208-96-8	Acenaphthylene	ND	mg / Kg	1	0.03		08-28-02	08-29-02
X02369	XG.2002.1394.3	62-53-3	Aniline	ND	mg / Kg	1	0.3		08-28-02	08-29-02
X02369	XG.2002.1394.3	120-12-7	Anthracene	ND	mg / Kg	1	0.03		08-28-02	08-29-02
X02369	XG.2002.1394.3		Azobenzene&1,2-Diphenylhydrazine	ND	mg / Kg	1	0.03		08-28-02	08-29-02
X02369	XG.2002.1394.3	56-55-3	Benzo (a) anthracene	0.067	mg / Kg	1	0.03		08-28-02	08-29-02
X02369	XG.2002.1393.2	50-32-8	Benzo(a)pyrene	ND	mg / Kg	18	0.03		08-28-02	08-29-02
X02369	XG.2002.1393.2		Benzo(b & k)fluoranthene	ND	mg / Kg	18	0.03		08-28-02	08-29-02
X02369	XG.2002.1393.2	191-24-2	Benzo(g,h,i)perylene	ND	mg / Kg	18	0.3		08-28-02	08-29-02
X02369	XG.2002.1394.3	64-85-0	Benzoic acid	ND	mg / Kg	1	3		08-28-02	08-29-02
X02369	XG.2002.1394.3	100-51-6	Benzyl alcohol	ND	mg / Kg	1	1.5		08-28-02	08-29-02
X02369	XG.2002.1394.3	111-44-4	bis (2-Chloroethyl) ether	ND	mg / Kg	1	0.03		08-28-02	08-29-02
X02369	XG.2002.1394.3	111-91-1	bis(2-Chloroethoxy)methane	ND	mg / Kg	1	0.03		08-28-02	08-29-02
X02369	XG.2002.1394.3	108-60-1	bis(2-Chloroisopropyl)ether	ND	mg / Kg	1	0.03		08-28-02	08-29-02
X02369	XG.2002.1394.3	117-81-7	bis(2-Ethylhexyl)phthalate	ND	mg / Kg	1	0.3		08-28-02	08-29-02
X02369	XG.2002.1394.3	85-68-7	Butylbenzylphthalate	ND	mg / Kg	1	0.03		08-28-02	08-29-02
X02369	XG.2002.1394.3	218-01-9	Chrysene	0.059	mg / Kg	1	0.03		08-28-02	08-29-02
X02369	XG.2002.1393.2	53-70-3	Dibenz(a,h)anthracene	ND	mg / Kg	18	0.3		08-28-02	08-29-02
X02369	XG.2002.1394.3	132-64-9	Dibenzofuran	ND	mg / Kg	1	0.03		08-28-02	08-29-02
X02369	XG.2002.1394.3	84-66-2	Diethylphthalate	ND	mg / Kg	1	0.03		08-28-02	08-29-02
X02369	XG.2002.1394.3	131-11-3	Dimethylphthalate	ND	mg / Kg	1	0.03		08-28-02	08-29-02
X02369	XG.2002.1394.3	84-74-2	di-n-Butylphthalate	ND	mg / Kg	1	0.3		08-28-02	08-29-02
X02369	XG.2002.1393.2	117-84-0	di-n-Octylphthalate	ND	mg / Kg	18	0.3		08-28-02	08-29-02
X02369	XG.2002.1394.3	206-44-0	Fluoranthene	0.16	mg / Kg	1	0.03		08-28-02	08-29-02
X02369	XG.2002.1394.3	86737	Fluorene	ND	mg / Kg	1	0.03		08-28-02	08-29-02
X02369	XG.2002.1394.3	118-74-1	Hexachlorobenzene	ND	mg / Kg	1	0.03		08-28-02	08-29-02
X02369	XG.2002.1394.3	87-68-3	Hexachlorobutadiene	ND	mg / Kg	1	0.03		08-28-02	08-29-02
X02369	XG.2002.1394.3	77-47-4	Hexachlorocyclopentadiene	ND	mg / Kg	1	1.5		08-28-02	08-29-02
X02369	XG.2002.1394.3	67-72-1	Hexachloroethane	ND	mg / Kg	1	0.03		08-28-02	08-29-02

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Certificate of Analysis

Client: **GTS DURATEK**

Project: **TA-48 N & E CHAR.**

Order: **0208537** **gts02** Receipt: **08-26-02**

Sample: ***48.C.S / 48-1*** Collected: *08-23-02 14:10:00* By: *KT*

Matrix: ***C***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0208537-02A		**SW846 3550A/8270B SVOCs by GC/MS**					By:	DS		
X02369	XG.2002.1393.2	193-39-5	Indeno(1,2,3-cd)pyrene	ND	mg / Kg	18	0.3		08-28-02	08-29-02
X02369	XG.2002.1394.3	78-59-1	Isophorone	ND	mg / Kg	1	0.03		08-28-02	08-29-02
X02369	XG.2002.1394.3	91-20-3	Naphthalene	ND	mg / Kg	1	0.03		08-28-02	08-29-02
X02369	XG.2002.1394.3	98-95-3	Nitrobenzene	ND	mg / Kg	1	0.03		08-28-02	08-29-02
X02369	XG.2002.1394.3	62-75-9	n-Nitroso-dimethyl-amine	ND	mg / Kg	1	0.3		08-28-02	08-29-02
X02369	XG.2002.1394.3	621-64-7	n-Nitroso-di-n-propylamine	ND	mg / Kg	1	0.03		08-28-02	08-29-02
X02369	XG.2002.1394.3	86-30-6	n-Nitrosodiphenylamine	ND	mg / Kg	1	0.03		08-28-02	08-29-02
X02369	XG.2002.1394.3	87-86-5	Pentachlorophenol	ND	mg / Kg	1	0.3		08-28-02	08-29-02
X02369	XG.2002.1394.3	85-01-8	Phenanthrene	0.12	mg / Kg	1	0.03		08-28-02	08-29-02
X02369	XG.2002.1394.3	108-95-2	Phenol	ND	mg / Kg	1	0.3		08-28-02	08-29-02
X02369	XG.2002.1394.3	129-00-0	Pyrene	0.18	mg / Kg	1	0.03		08-28-02	08-29-02
X02369	XG.2002.1394.3	110-86-1	Pyridine	ND	mg / Kg	1	0.3		08-28-02	08-29-02
0208537-02B		**SW846 8260B Purgeable VOCs by GC/MS**					By:	JAA		
X02359	XG.2002.1378.5	75-34-3	1,1 Dichloroethane	ND	mg / Kg	1	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.5	75-35-4	1,1 Dichloroethene	ND	mg / Kg	1	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.5	71-55-6	1,1,1 Trichloroethane	ND	mg / Kg	1	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.5	630-20-6	1,1,1,2 Tetrachloroethane	ND	mg / Kg	1	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.5	79-00-5	1,1,2 Trichloroethane	ND	mg / Kg	1	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.5	79-34-5	1,1,2,2 Tetrachloroethane	ND	mg / Kg	1	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.5	106-93-4	1,2 Dibromoethane (EDB)	ND	mg / Kg	1	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.5	95-50-1	1,2 Dichlorobenzene	ND	mg / Kg	1	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.5	107-06-2	1,2 Dichloroethane (EDC)	ND	mg / Kg	1	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.5	78-87-5	1,2 Dichloropropane	ND	mg / Kg	1	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.5	96-18-4	1,2,3 Trichloropropane	ND	mg / Kg	1	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.5	95-63-6	1,2,4-Trimethylbenzene	ND	mg / Kg	1	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.5	541-73-1	1,3 Dichlorobenzene	ND	mg / Kg	1	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.5	108-67-8	1,3,5-Trimethylbenzene	ND	mg / Kg	1	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.5	764-41-0	1,4 Dichloro-2-butene	ND	mg / Kg	1	0.05		08-27-02	08-27-02
X02359	XG.2002.1378.5	106-46-7	1,4 Dichlorobenzene	ND	mg / Kg	1	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.5	78-93-3	2-Butanone (MEK)	ND	mg / Kg	1	0.025		08-27-02	08-27-02
X02359	XG.2002.1378.5	591-78-6	2-Hexanone (MBK)	ND	mg / Kg	1	0.025		08-27-02	08-27-02
X02359	XG.2002.1378.5	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	mg / Kg	1	0.025		08-27-02	08-27-02
X02359	XG.2002.1378.5	67-64-1	Acetone	ND	mg / Kg	1	0.05		08-27-02	08-27-02
X02359	XG.2002.1378.5	107-02-8	Acrolein	ND	mg / Kg	1	0.1		08-27-02	08-27-02
X02359	XG.2002.1378.5	107-13-1	Acrylonitrile	ND	mg / Kg	1	0.1		08-27-02	08-27-02
X02359	XG.2002.1378.5	71-43-2	Benzene	ND	mg / Kg	1	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.5	75-27-4	Bromodichloromethane	ND	mg / Kg	1	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.5	75-25-2	Bromoform	ND	mg / Kg	1	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.5	74-83-9	Bromomethane	ND	mg / Kg	1	0.025		08-27-02	08-27-02
X02359	XG.2002.1378.5	75-15-0	Carbon disulfide	ND	mg / Kg	1	0.025		08-27-02	08-27-02
X02359	XG.2002.1378.5	56-23-5	Carbon tetrachloride	ND	mg / Kg	1	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.5	108-90-7	Chlorobenzene	ND	mg / Kg	1	0.005		08-27-02	08-27-02

Certificate of Analysis

Client: **GTS DURATEK**
Project: **TA-48 N & E CHAR.**
Order: **0208537** **gts02** Receipt: **08-26-02**

Sample: ***48.C.S / 48-1*** Collected: *08-23-02 14:10:00* By: *KT*
Matrix: ***C***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0208537-02B		SW846 8260B Purgeable VOCs by GC/MS						By: JAA		
X02359	XG.2002.1378.5	124-48-1	Chlorodibromomethane	ND	mg / Kg	1	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.5	75-00-3	Chloroethane	ND	mg / Kg	1	0.025		08-27-02	08-27-02
X02359	XG.2002.1378.5	67-66-3	Chloroform	ND	mg / Kg	1	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.5	74-87-3	Chloromethane	ND	mg / Kg	1	0.025		08-27-02	08-27-02
X02359	XG.2002.1378.5	156-59-2	cis-1,2 dichloroethene	ND	mg / Kg	1	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.5		cis-1,3 Dichloropropene	ND	mg / Kg	1	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.5	74-95-3	Dibromomethane	ND	mg / Kg	1	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.5	97-63-2	Ethyl methacrylate	ND	mg / Kg	1	0.025		08-27-02	08-27-02
X02359	XG.2002.1378.5	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.5		Freon 113	ND	mg / Kg	1	0.035		08-27-02	08-27-02
X02359	XG.2002.1378.5	75-71-8	Freon 12	ND	mg / Kg	1	0.05		08-27-02	08-27-02
X02359	XG.2002.1378.5	1634-04-4	Methyl t-butyl ether (MTBE)	ND	mg / Kg	1	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.5	75-09-2	Methylene chloride	ND	mg / Kg	1	0.05		08-27-02	08-27-02
X02359	XG.2002.1378.5	91-20-3	Naphthalene	ND	mg / Kg	1	0.025		08-27-02	08-27-02
X02359	XG.2002.1378.5	95-47-6	o-Xylene	ND	mg / Kg	1	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.5	108-38-3/106-42	p/m-Xylenes	ND	mg / Kg	1	0.01		08-27-02	08-27-02
X02359	XG.2002.1378.5	100-42-5	Styrene	ND	mg / Kg	1	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.5	156-60-5	t-1,2 Dichloroethene	ND	mg / Kg	1	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.5	10061-02-6	t-1,3 Dichloropropene	ND	mg / Kg	1	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.5	127-18-4	Tetrachloroethene (PCE)	ND	mg / Kg	1	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.5	108-88-3	Toluene	ND	mg / Kg	1	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.5	79-01-6	Trichloroethene	ND	mg / Kg	1	0.005		08-27-02	08-27-02
X02359	XG.2002.1378.5	75-69-4	Trichlorofluoromethane	ND	mg / Kg	1	0.025		08-27-02	08-27-02
X02359	XG.2002.1378.5	108-05-4	Vinyl acetate	ND	mg / Kg	1	0.025		08-27-02	08-27-02
X02359	XG.2002.1378.5	75-01-4	Vinyl chloride	ND	mg / Kg	1	0.01		08-27-02	08-27-02

Unless otherwise noted, all samples were received in acceptable condition and all sampling was performed by client or client representative. Sample result of ND indicates Not Detected, ie result is less than the sample specific Detection Limit. Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. All results relate only to the items tested. Any miscellaneous workorder information or foonotes will appear below.

1 A surrogate recovery was outside of QC criteria, suggesting matrix interference problems. This should be taken into account when reviewing the data.

2 The matrix spike and the matrix spike duplicate performed on this sample had recoveries that were outside of QA/QC criteria (low) due to matrix interference.

ASSAIGAI ANALYTICAL LABORATORIES, INC.

Chain of Custody Record

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EL PASO, TEXAS 79925
(915) 593-6000

127 EASTGATE DRIVE, 212-C
LOS ALAMOS, NEW MEXICO 87544
(505) 662-2558

Lab job No.: 0208537 Date 8/23/02

Page 1 of 1

Client: DURATEK FEDERAL SERVICES, INC.
Address: 555 OPPENHEIMER DR. STE 101
City / State / Zip: LOS ALAMOS, NM 87544
Project Name / Number: TA-48 N&E CHAR.
Contract / Purchase Order / Quote:

Project Manager / Contact: KEITH TUCKER
Telephone No.: 505-661-6621
Fax No.: 505-661-2541
Samplers: (signature)

Analysis Required

AAL Fraction Number	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	VOC, SVOC, SULFATE	TAL METAL, TCLP MTL	TPH, DRO, PCB	TCL IRON, % MOISTURE	ACID EXTRACT 8270	NITRATE/NITRITE	TRITIUM, GAMMA SPEC	SR90	I129 U, I129 PU	Remarks
01ABCD	48.FS.S / 48-1	8/23/02	1350	C	VARIOUS	✓	N/A	15	✓	✓	✓	✓	✓	✓	✓	✓	✓	5 DAY TAT ON VOC & SVOC.
02AB	48.C.S / 48-1	8/23/02	1410	C	VARIOUS	✓	N/A	8	✓			✓	✓	✓				5 DAY TAT ON VOC & SVOC

Relinquished by:	Date / Time	Received by:	Relinquished by:	Date / Time	Received by:
Signature: [signature]	8/23/02	Signature: [signature]	Signature: [signature]	8/23/02	Signature: [signature] 9:20
Printed: KEITH TUCKER	1500	Printed: Elvin J. Chavez	Printed: Elvin J. Chavez	8:00	Printed: [illegible]
Company: DURATEK		Company:	Company:		Company: CAL
Reason: RELEASE FOR ANALYSIS		Reason:	Reason:		Reason:

Method of Shipment:
Shipment No.
Special Instructions:

Comments: Temp. 3°
per EC TAL BY ICP is okay on 8/26/02 [illegible]

After analysis, samples are to be:
- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

DURA

B-2.0. SHALLOW SAMPLES FROM BOREHOLES 1 THROUGH 5

ASSAIGAI ANALYTICAL LABORATORIES, INC.

P.O. Box 90430 • Albuquerque, New Mexico 87199 • (505) 345-8964 • FAX (505) 345-7259

3332 Wedgewood, E-5 • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820

127 Eastgate Drive, 212-C • Los Alamos, New Mexico 87544 • (505) 662-255

Explanation of codes

B	*analyte detected in Method Blank*
E	*result is estimated*
H	*analyzed out of hold time*
N	*tentatively identified compound*
S	*subcontracted*
1-9	*see footnote*

GTS DURATEK
attn: **KEITH TUCKER**
555 OPPENHEIMER SUITE 101
LOS ALAMOS NM 87544

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **GTS DURATEK**
Project: **TA-48**
Order: **0209141 GTS02** Receipt: **09-09-02**

William P. Biava: President of Assaigai Analytical Laboratories, Inc.

Sample: ***BH1-ENCORE-0.5*** Collected: *09-03-02 16:20:00* By: *KT*
Matrix: ***ENCORE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209141-01A		**SW846 8260B Purgeable VOCs by GC/MS**					By:	JAA		
X02392	XG.2002.1506.2	75-34-3	1,1 Dichloroethane	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.2	75-35-4	1,1 Dichloroethene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.2	71-55-6	1,1,1 Trichloroethane	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.2	630-20-6	1,1,1,2 Tetrachloroethane	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1514.1	79-00-5	1,1,2 Trichloroethane	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.2	79-34-5	1,1,2,2 Tetrachloroethane	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.2	106-93-4	1,2 Dibromoethane (EDB)	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.2	95-50-1	1,2 Dichlorobenzene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.2	107-06-2	1,2 Dichloroethane (EDC)	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.2	78-87-5	1,2 Dichloropropane	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.2	96-18-4	1,2,3 Trichloropropane	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.2	95-63-6	1,2,4-Trimethylbenzene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.2	541-73-1	1,3 Dichlorobenzene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.2	108-67-8	1,3,5-Trimethylbenzene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.2	764-41-0	1,4 Dichloro-2-butene	ND	mg / Kg	1	0.05		09-16-02	09-16-02
X02392	XG.2002.1506.2	106-46-7	1,4 Dichlorobenzene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.2	78-93-3	2-Butanone (MEK)	ND	mg / Kg	1	0.025		09-16-02	09-16-02
X02392	XG.2002.1506.2	591-78-6	2-Hexanone (MBK)	ND	mg / Kg	1	0.025		09-16-02	09-16-02
X02392	XG.2002.1506.2	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	mg / Kg	1	0.025		09-16-02	09-16-02
X02392	XG.2002.1513.2	67-64-1	Acetone	ND	mg / Kg	1	0.05		09-17-02	09-17-02
X02392	XG.2002.1506.2	107-02-8	Acrolein	ND	mg / Kg	1	0.1		09-16-02	09-16-02
X02392	XG.2002.1506.2	107-13-1	Acrylonitrile	ND	mg / Kg	1	0.1		09-16-02	09-16-02
X02392	XG.2002.1506.2	71-43-2	Benzene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.2	75-27-4	Bromodichloromethane	ND	mg / Kg	1	0.005		09-16-02	09-16-02

Member:
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Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **GTS DURATEK**
Project: **TA-48**
Order: **0209141** **GTS02** Receipt: **09-09-02**

Sample: ***BH1-ENCORE-0.5*** Collected: *09-03-02 16:20:00* By: *KT*
Matrix: ***ENCORE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209141-01A		**SW846 8260B Purgeable VOCs by GC/MS**						By: JAA		
X02392	XG.2002.1506.2	75-25-2	Bromoform	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.2	74-83-9	Bromomethane	ND	mg / Kg	1	0.025		09-16-02	09-16-02
X02392	XG.2002.1506.2	75-15-0	Carbon disulfide	ND	mg / Kg	1	0.025		09-16-02	09-16-02
X02392	XG.2002.1506.2	56-23-5	Carbon tetrachloride	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.2	108-90-7	Chlorobenzene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.2	124-48-1	Chlorodibromomethane	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.2	75-00-3	Chloroethane	ND	mg / Kg	1	0.025		09-16-02	09-16-02
X02392	XG.2002.1506.2	67-66-3	Chloroform	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.2	74-87-3	Chloromethane	ND	mg / Kg	1	0.025		09-16-02	09-16-02
X02392	XG.2002.1506.2	156-59-2	cis-1,2 dichloroethene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.2		cis-1,3 Dichloropropene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.2	74-95-3	Dibromomethane	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.2	97-63-2	Ethyl methacrylate	ND	mg / Kg	1	0.025		09-16-02	09-16-02
X02392	XG.2002.1506.2	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.2		Freon 113	ND	mg / Kg	1	0.035		09-16-02	09-16-02
X02392	XG.2002.1506.2	75-71-8	Freon 12	ND	mg / Kg	1	0.05		09-16-02	09-16-02
X02392	XG.2002.1506.2	1634-04-4	Methyl t-butyl ether (MTBE)	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.2	75-09-2	Methylene chloride	ND	mg / Kg	1	0.05		09-16-02	09-16-02
X02392	XG.2002.1506.2	91-20-3	Naphthalene	ND	mg / Kg	1	0.025		09-16-02	09-16-02
X02392	XG.2002.1506.2	95-47-6	o-Xylene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.2	108-38-3/106-42	p/m-Xylenes	ND	mg / Kg	1	0.01		09-16-02	09-16-02
X02392	XG.2002.1506.2	100-42-5	Styrene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.2	156-60-5	t-1,2 Dichloroethene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.2	10061-02-6	t-1,3 Dichloropropene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.2	127-18-4	Tetrachloroethene (PCE)	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.2	108-88-3	Toluene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.2	79-01-6	Trichloroethene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.2	75-69-4	Trichlorofluoromethane	ND	mg / Kg	1	0.025		09-16-02	09-16-02
X02392	XG.2002.1506.2	108-05-4	Vinyl acetate	ND	mg / Kg	1	0.025		09-16-02	09-16-02
X02392	XG.2002.1506.2	75-01-4	Vinyl chloride	ND	mg / Kg	1	0.01		09-16-02	09-16-02

Sample: ***BH1-ENCORE-1.0*** Collected: *09-03-02 16:25:00* By: *KT*
Matrix: ***ENCORE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209141-02A		**SW846 8260B Purgeable VOCs by GC/MS**						By: JAA		
X02392	XG.2002.1506.3	75-34-3	1,1 Dichloroethane	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.3	75-35-4	1,1 Dichloroethene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.3	71-55-6	1,1,1 Trichloroethane	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.3	630-20-6	1,1,1,2 Tetrachloroethane	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.3	79-00-5	1,1,2 Trichloroethane	ND	mg / Kg	1	0.005		09-16-02	09-16-02

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **GTS DURATEK**

Project: **TA-48**

Order: **0209141** **GTS02** Receipt: **09-09-02**

Sample: ***BH1-ENCORE-1.0*** Collected: *09-03-02 16:25:00* By: *KT*

Matrix: ***ENCORE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209141-02A		**SW846 8260B Purgeable VOCs by GC/MS**					By:	JAA		
X02392	XG.2002.1506.3	79-34-5	1,1,2,2 Tetrachloroethane	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.3	106-93-4	1,2 Dibromoethane (EDB)	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.3	95-50-1	1,2 Dichlorobenzene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.3	107-06-2	1,2 Dichloroethane (EDC)	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.3	78-87-5	1,2 Dichloropropane	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.3	96-18-4	1,2,3 Trichloropropane	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.3	95-63-6	1,2,4-Trimethylbenzene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.3	541-73-1	1,3 Dichlorobenzene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.3	108-67-8	1,3,5-Trimethylbenzene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.3	764-41-0	1,4 Dichloro-2-butene	ND	mg / Kg	1	0.05		09-16-02	09-16-02
X02392	XG.2002.1506.3	106-46-7	1,4 Dichlorobenzene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.3	78-93-3	2-Butanone (MEK)	ND	mg / Kg	1	0.025		09-16-02	09-16-02
X02392	XG.2002.1506.3	591-78-6	2-Hexanone (MBK)	ND	mg / Kg	1	0.025		09-16-02	09-16-02
X02392	XG.2002.1506.3	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	mg / Kg	1	0.025		09-16-02	09-16-02
X02392	XG.2002.1506.3	67-64-1	Acetone	ND	mg / Kg	1	0.05		09-16-02	09-16-02
X02392	XG.2002.1506.3	107-02-8	Acrolein	ND	mg / Kg	1	0.1		09-16-02	09-16-02
X02392	XG.2002.1506.3	107-13-1	Acrylonitrile	ND	mg / Kg	1	0.1		09-16-02	09-16-02
X02392	XG.2002.1506.3	71-43-2	Benzene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.3	75-27-4	Bromodichloromethane	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.3	75-25-2	Bromoform	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.3	74-83-9	Bromomethane	ND	mg / Kg	1	0.025		09-16-02	09-16-02
X02392	XG.2002.1506.3	75-15-0	Carbon disulfide	ND	mg / Kg	1	0.025		09-16-02	09-16-02
X02392	XG.2002.1506.3	56-23-5	Carbon tetrachloride	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.3	108-90-7	Chlorobenzene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.3	124-48-1	Chlorodibromomethane	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.3	75-00-3	Chloroethane	ND	mg / Kg	1	0.025		09-16-02	09-16-02
X02392	XG.2002.1506.3	67-66-3	Chloroform	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.3	74-87-3	Chloromethane	ND	mg / Kg	1	0.025		09-16-02	09-16-02
X02392	XG.2002.1506.3	156-59-2	cis-1,2 dichloroethene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.3		cis-1,3 Dichloropropene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.3	74-95-3	Dibromomethane	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.3	97-63-2	Ethyl methacrylate	ND	mg / Kg	1	0.025		09-16-02	09-16-02
X02392	XG.2002.1506.3	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.3		Freon 113	ND	mg / Kg	1	0.035		09-16-02	09-16-02
X02392	XG.2002.1506.3	75-71-8	Freon 12	ND	mg / Kg	1	0.05		09-16-02	09-16-02
X02392	XG.2002.1506.3	1634-04-4	Methyl t-butyl ether (MTBE)	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.3	75-09-2	Methylene chloride	ND	mg / Kg	1	0.05		09-16-02	09-16-02
X02392	XG.2002.1506.3	91-20-3	Naphthalene	ND	mg / Kg	1	0.025		09-16-02	09-16-02
X02392	XG.2002.1506.3	95-47-6	o-Xylene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.3	108-38-3/106-42	p/m-Xylenes	ND	mg / Kg	1	0.01		09-16-02	09-16-02
X02392	XG.2002.1506.3	100-42-5	Styrene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.3	156-60-5	t-1,2 Dichloroethene	ND	mg / Kg	1	0.005		09-16-02	09-16-02

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **GTS DURATEK**

Project: **TA-48**

Order: **0209141** **GTS02** Receipt: **09-09-02**

Sample: ***BH1-ENCORE-1.0*** Collected: *09-03-02 16:25:00* By: *KT*

Matrix: ***ENCORE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209141-02A		**SW846 8260B Purgeable VOCs by GC/MS**					By:	JAA		
X02392	XG.2002.1506.3	10061-02-6	t-1,3 Dichloropropene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.3	127-18-4	Tetrachloroethene (PCE)	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.3	108-88-3	Toluene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.3	79-01-6	Trichloroethene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.3	75-69-4	Trichlorofluoromethane	ND	mg / Kg	1	0.025		09-16-02	09-16-02
X02392	XG.2002.1506.3	108-05-4	Vinyl acetate	ND	mg / Kg	1	0.025		09-16-02	09-16-02
X02392	XG.2002.1506.3	75-01-4	Vinyl chloride	ND	mg / Kg	1	0.01		09-16-02	09-16-02

Sample: ***BH2-ENCORE-0.5*** Collected: *09-04-02 8:05:00* By: *KT*

Matrix: ***ENCORE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209141-03A		**SW846 8260B Purgeable VOCs by GC/MS**					By:	JAA		
X02392	XG.2002.1506.4	75-34-3	1,1 Dichloroethane	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.4	75-35-4	1,1 Dichloroethene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.4	71-55-6	1,1,1 Trichloroethane	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.4	630-20-6	1,1,1,2 Tetrachloroethane	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.4	79-00-5	1,1,2 Trichloroethane	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.4	79-34-5	1,1,2,2 Tetrachloroethane	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.4	106-93-4	1,2 Dibromoethane (EDB)	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.4	95-50-1	1,2 Dichlorobenzene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.4	107-06-2	1,2 Dichloroethane (EDC)	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.4	78-87-5	1,2 Dichloropropane	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.4	96-18-4	1,2,3 Trichloropropane	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.4	95-63-6	1,2,4-Trimethylbenzene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.4	541-73-1	1,3 Dichlorobenzene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.4	108-67-8	1,3,5-Trimethylbenzene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.4	764-41-0	1,4 Dichloro-2-butene	ND	mg / Kg	1	0.05		09-16-02	09-16-02
X02392	XG.2002.1506.4	106-46-7	1,4 Dichlorobenzene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.4	78-93-3	2-Butanone (MEK)	ND	mg / Kg	1	0.025		09-16-02	09-16-02
X02392	XG.2002.1506.4	591-78-6	2-Hexanone (MBK)	ND	mg / Kg	1	0.025		09-16-02	09-16-02
X02392	XG.2002.1506.4	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	mg / Kg	1	0.025		09-16-02	09-16-02
X02392	XG.2002.1513.3	67-64-1	Acetone	ND	mg / Kg	1	0.05		09-17-02	09-17-02
X02392	XG.2002.1506.4	107-02-8	Acrolein	ND	mg / Kg	1	0.1		09-16-02	09-16-02
X02392	XG.2002.1506.4	107-13-1	Acrylonitrile	ND	mg / Kg	1	0.1		09-16-02	09-16-02
X02392	XG.2002.1506.4	71-43-2	Benzene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.4	75-27-4	Bromodichloromethane	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.4	75-25-2	Bromoform	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.4	74-83-9	Bromomethane	ND	mg / Kg	1	0.025		09-16-02	09-16-02
X02392	XG.2002.1506.4	75-15-0	Carbon disulfide	ND	mg / Kg	1	0.025		09-16-02	09-16-02
X02392	XG.2002.1506.4	56-23-5	Carbon tetrachloride	ND	mg / Kg	1	0.005		09-16-02	09-16-02

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **GTS DURATEK**
Project: **TA-48**
Order: **0209141** **GTS02** Receipt: **09-09-02**

Sample: ***BH2-ENCORE-0.5*** Collected: *09-04-02 8:05:00* By: *KT*
Matrix: ***ENCORE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209141-03A		**SW846 8260B Purgeable VOCs by GC/MS**					By:	JAA		
X02392	XG.2002.1506.4	108-90-7	Chlorobenzene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.4	124-48-1	Chlorodibromomethane	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.4	75-00-3	Chloroethane	ND	mg / Kg	1	0.025		09-16-02	09-16-02
X02392	XG.2002.1506.4	67-66-3	Chloroform	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.4	74-87-3	Chloromethane	ND	mg / Kg	1	0.025		09-16-02	09-16-02
X02392	XG.2002.1506.4	156-59-2	cis-1,2 dichloroethene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.4		cis-1,3 Dichloropropene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.4	74-95-3	Dibromomethane	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.4	97-63-2	Ethyl methacrylate	ND	mg / Kg	1	0.025		09-16-02	09-16-02
X02392	XG.2002.1506.4	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.4		Freon 113	ND	mg / Kg	1	0.035		09-16-02	09-16-02
X02392	XG.2002.1506.4	75-71-8	Freon 12	ND	mg / Kg	1	0.05		09-16-02	09-16-02
X02392	XG.2002.1506.4	1634-04-4	Methyl t-butyl ether (MTBE)	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.4	75-09-2	Methylene chloride	ND	mg / Kg	1	0.05		09-16-02	09-16-02
X02392	XG.2002.1506.4	91-20-3	Naphthalene	ND	mg / Kg	1	0.025		09-16-02	09-16-02
X02392	XG.2002.1506.4	95-47-6	o-Xylene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.4	108-38-3/106-42	p/m-Xylenes	ND	mg / Kg	1	0.01		09-16-02	09-16-02
X02392	XG.2002.1506.4	100-42-5	Styrene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.4	156-60-5	t-1,2 Dichloroethene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.4	10061-02-6	t-1,3 Dichloropropene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.4	127-18-4	Tetrachloroethene (PCE)	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.4	108-88-3	Toluene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.4	79-01-6	Trichloroethene	ND	mg / Kg	1	0.005		09-16-02	09-16-02
X02392	XG.2002.1506.4	75-69-4	Trichlorofluoromethane	ND	mg / Kg	1	0.025		09-16-02	09-16-02
X02392	XG.2002.1506.4	108-05-4	Vinyl acetate	ND	mg / Kg	1	0.025		09-16-02	09-16-02
X02392	XG.2002.1506.4	75-01-4	Vinyl chloride	ND	mg / Kg	1	0.01		09-16-02	09-16-02

Sample: ***BH2-ENCORE-1.0*** Collected: *09-04-02 8:10:00* By: *KT*
Matrix: ***ENCORE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209141-04A		**SW846 8260B Purgeable VOCs by GC/MS**					By:	JAA		
X02392	XG.2002.1506.6	75-34-3	1,1 Dichloroethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.6	75-35-4	1,1 Dichloroethene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.6	71-55-6	1,1,1 Trichloroethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.6	630-20-6	1,1,1,2 Tetrachloroethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.6	79-00-5	1,1,2 Trichloroethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.6	79-34-5	1,1,2,2 Tetrachloroethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.6	106-93-4	1,2 Dibromoethane (EDB)	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.6	95-50-1	1,2 Dichlorobenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.6	107-06-2	1,2 Dichloroethane (EDC)	ND	mg / Kg	1	0.005		09-18-02	09-18-02

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **GTS DURATEK**

Project: **TA-48**

Order: **0209141** **GTS02** Receipt: **09-09-02**

Sample: ***BH2-ENCORE-1.0*** Collected: *09-04-02 8:10:00* By: *KT*

Matrix: ***ENCORE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209141-04A		**SW846 8260B Purgeable VOCs by GC/MS**					By:	JAA		
X02392	XG.2002.1506.6	78-87-5	1,2 Dichloropropane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.6	96-18-4	1,2,3 Trichloropropane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.6	95-63-6	1,2,4-Trimethylbenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.6	541-73-1	1,3 Dichlorobenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.6	108-67-8	1,3,5-Trimethylbenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.6	764-41-0	1,4 Dichloro-2-butene	ND	mg / Kg	1	0.05		09-18-02	09-18-02
X02392	XG.2002.1506.6	106-46-7	1,4 Dichlorobenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.6	78-93-3	2-Butanone (MEK)	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.6	591-78-6	2-Hexanone (MBK)	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.6	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.6	67-64-1	Acetone	ND	mg / Kg	1	0.05		09-18-02	09-18-02
X02392	XG.2002.1506.6	107-02-8	Acrolein	ND	mg / Kg	1	0.1		09-18-02	09-18-02
X02392	XG.2002.1506.6	107-13-1	Acrylonitrile	ND	mg / Kg	1	0.1		09-18-02	09-18-02
X02392	XG.2002.1506.6	71-43-2	Benzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.6	75-27-4	Bromodichloromethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.6	75-25-2	Bromoform	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.6	74-83-9	Bromomethane	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.6	75-15-0	Carbon disulfide	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.6	56-23-5	Carbon tetrachloride	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.6	108-90-7	Chlorobenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.6	124-48-1	Chlorodibromomethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.6	75-00-3	Chloroethane	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.6	67-66-3	Chloroform	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.6	74-87-3	Chloromethane	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.6	156-59-2	cis-1,2 dichloroethene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.6		cis-1,3 Dichloropropene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.6	74-95-3	Dibromomethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.6	97-63-2	Ethyl methacrylate	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.6	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.6		Freon 113	ND	mg / Kg	1	0.035		09-18-02	09-18-02
X02392	XG.2002.1506.6	75-71-8	Freon 12	ND	mg / Kg	1	0.05		09-18-02	09-18-02
X02392	XG.2002.1506.6	1634-04-4	Methyl t-butyl ether (MTBE)	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.6	75-09-2	Methylene chloride	ND	mg / Kg	1	0.05		09-18-02	09-18-02
X02392	XG.2002.1506.6	91-20-3	Naphthalene	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.6	95-47-6	o-Xylene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.6	108-38-3/106-42	p/m-Xylenes	ND	mg / Kg	1	0.01		09-18-02	09-18-02
X02392	XG.2002.1506.6	100-42-5	Styrene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.6	156-60-5	t-1,2 Dichloroethene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.6	10061-02-6	t-1,3 Dichloropropene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.6	127-18-4	Tetrachloroethene (PCE)	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.6	108-88-3	Toluene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.6	79-01-6	Trichloroethene	ND	mg / Kg	1	0.005		09-18-02	09-18-02

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **GTS DURATEK**
Project: **TA-48**
Order: **0209141** **GTS02** Receipt: **09-09-02**

Sample: ***BH2-ENCORE-1.0*** Collected: *09-04-02 8:10:00* By: *KT*
Matrix: ***ENCORE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209141-04A		**SW846 8260B Purgeable VOCs by GC/MS**					By:	JAA		
X02392	XG.2002.1506.6	75-69-4	Trichlorofluoromethane	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.6	108-05-4	Vinyl acetate	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.6	75-01-4	Vinyl chloride	ND	mg / Kg	1	0.01		09-18-02	09-18-02

Sample: ***BH3-ENCORE-0.5*** Collected: *09-04-02 11:20:00* By: *KT*
Matrix: ***ENCORE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209141-05A		**SW846 8260B Purgeable VOCs by GC/MS**					By:	JAA		
X02392	XG.2002.1506.7	75-34-3	1,1 Dichloroethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.7	75-35-4	1,1 Dichloroethene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.7	71-55-6	1,1,1 Trichloroethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.7	630-20-6	1,1,1,2 Tetrachloroethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.7	79-00-5	1,1,2 Trichloroethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.7	79-34-5	1,1,2,2 Tetrachloroethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.7	106-93-4	1,2 Dibromoethane (EDB)	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.7	95-50-1	1,2 Dichlorobenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.7	107-06-2	1,2 Dichloroethane (EDC)	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.7	78-87-5	1,2 Dichloropropane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.7	96-18-4	1,2,3 Trichloropropane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.7	95-63-6	1,2,4-Trimethylbenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.7	541-73-1	1,3 Dichlorobenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.7	108-67-8	1,3,5-Trimethylbenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.7	764-41-0	1,4 Dichloro-2-butene	ND	mg / Kg	1	0.05		09-18-02	09-18-02
X02392	XG.2002.1506.10	106-46-7	1,4 Dichlorobenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.7	78-93-3	2-Butanone (MEK)	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.7	591-78-6	2-Hexanone (MBK)	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.7	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.7	67-64-1	Acetone	ND	mg / Kg	1	0.05		09-18-02	09-18-02
X02392	XG.2002.1506.7	107-02-8	Acrolein	ND	mg / Kg	1	0.1		09-18-02	09-18-02
X02392	XG.2002.1506.7	107-13-1	Acrylonitrile	ND	mg / Kg	1	0.1		09-18-02	09-18-02
X02392	XG.2002.1506.7	71-43-2	Benzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.7	75-27-4	Bromodichloromethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.7	75-25-2	Bromoform	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.7	74-83-9	Bromomethane	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.7	75-15-0	Carbon disulfide	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.7	56-23-5	Carbon tetrachloride	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.7	108-90-7	Chlorobenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.7	124-48-1	Chlorodibromomethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.7	75-00-3	Chloroethane	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.7	67-66-3	Chloroform	ND	mg / Kg	1	0.005		09-18-02	09-18-02

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **GTS DURATEK**
Project: **TA-48**
Order: **0209141** **GTS02** Receipt: **09-09-02**

Sample: ***BH3-ENCORE-0.5*** Collected: *09-04-02 11:20:00* By: *KT*
Matrix: ***ENCORE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209141-05A		**SW846 8260B Purgeable VOCs by GC/MS**					By:	JAA		
X02392	XG.2002.1506.7	74-87-3	Chloromethane	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.7	156-59-2	cis-1,2 dichloroethene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.7		cis-1,3 Dichloropropene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.7	74-95-3	Dibromomethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.7	97-63-2	Ethyl methacrylate	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.7	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.7		Freon 113	ND	mg / Kg	1	0.035		09-18-02	09-18-02
X02392	XG.2002.1506.7	75-71-8	Freon 12	ND	mg / Kg	1	0.05		09-18-02	09-18-02
X02392	XG.2002.1506.7	1634-04-4	Methyl t-butyl ether (MTBE)	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.7	75-09-2	Methylene chloride	ND	mg / Kg	1	0.05		09-18-02	09-18-02
X02392	XG.2002.1506.7	91-20-3	Naphthalene	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.7	95-47-6	o-Xylene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.7	108-38-3/106-42	p/m-Xylenes	ND	mg / Kg	1	0.01		09-18-02	09-18-02
X02392	XG.2002.1506.7	100-42-5	Styrene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.7	156-60-5	t-1,2 Dichloroethene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.7	10061-02-6	t-1,3 Dichloropropene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.7	127-18-4	Tetrachloroethene (PCE)	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.7	108-88-3	Toluene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.7	79-01-6	Trichloroethene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.7	75-69-4	Trichlorofluoromethane	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.7	108-05-4	Vinyl acetate	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.7	75-01-4	Vinyl chloride	ND	mg / Kg	1	0.01		09-18-02	09-18-02

Sample: ***BH3-ENCORE-1.0*** Collected: *09-04-02 11:30:00* By: *KT*
Matrix: ***ENCORE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209141-06A		**SW846 8260B Purgeable VOCs by GC/MS**					By:	JAA		
X02392	XG.2002.1506.8	75-34-3	1,1 Dichloroethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.8	75-35-4	1,1 Dichloroethene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.8	71-55-6	1,1,1 Trichloroethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.8	630-20-6	1,1,1,2 Tetrachloroethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.8	79-00-5	1,1,2 Trichloroethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.8	79-34-5	1,1,2,2 Tetrachloroethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.8	106-93-4	1,2 Dibromoethane (EDB)	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.8	95-50-1	1,2 Dichlorobenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.8	107-06-2	1,2 Dichloroethane (EDC)	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.8	78-87-5	1,2 Dichloropropane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.8	96-18-4	1,2,3 Trichloropropane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.8	95-63-6	1,2,4-Trimethylbenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.8	541-73-1	1,3 Dichlorobenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **GTS DURATEK**

Project: **TA-48**

Order: **0209141** **GTS02** Receipt: **09-09-02**

Sample: ***BH3-ENCORE-1.0*** Collected: *09-04-02 11:30:00* By: *KT*

Matrix: ***ENCORE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209141-06A		**SW846 8260B Purgeable VOCs by GC/MS**					By:	JAA		
X02392	XG.2002.1506.8	108-67-8	1,3,5-Trimethylbenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.8	764-41-0	1,4 Dichloro-2-butene	ND	mg / Kg	1	0.05		09-18-02	09-18-02
X02392	XG.2002.1506.8	106-46-7	1,4 Dichlorobenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.8	78-93-3	2-Butanone (MEK)	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.8	591-78-6	2-Hexanone (MBK)	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.8	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.8	67-64-1	Acetone	ND	mg / Kg	1	0.05		09-18-02	09-18-02
X02392	XG.2002.1506.8	107-02-8	Acrolein	ND	mg / Kg	1	0.1		09-18-02	09-18-02
X02392	XG.2002.1506.8	107-13-1	Acrylonitrile	ND	mg / Kg	1	0.1		09-18-02	09-18-02
X02392	XG.2002.1506.8	71-43-2	Benzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.8	75-27-4	Bromodichloromethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.8	75-25-2	Bromoform	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.8	74-83-9	Bromomethane	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.8	75-15-0	Carbon disulfide	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.8	56-23-5	Carbon tetrachloride	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.8	108-90-7	Chlorobenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.8	124-48-1	Chlorodibromomethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.8	75-00-3	Chloroethane	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.8	67-66-3	Chloroform	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.8	74-87-3	Chloromethane	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.8	156-59-2	cis-1,2 dichloroethene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.8		cis-1,3 Dichloropropene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.8	74-95-3	Dibromomethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.8	97-63-2	Ethyl methacrylate	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.8	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.8		Freon 113	ND	mg / Kg	1	0.035		09-18-02	09-18-02
X02392	XG.2002.1506.8	75-71-8	Freon 12	ND	mg / Kg	1	0.05		09-18-02	09-18-02
X02392	XG.2002.1506.8	1634-04-4	Methyl t-butyl ether (MTBE)	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.8	75-09-2	Methylene chloride	ND	mg / Kg	1	0.05		09-18-02	09-18-02
X02392	XG.2002.1506.8	91-20-3	Naphthalene	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.8	95-47-6	o-Xylene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.8	108-38-3/106-42	p/m-Xylenes	ND	mg / Kg	1	0.01		09-18-02	09-18-02
X02392	XG.2002.1506.8	100-42-5	Styrene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.8	156-60-5	t-1,2 Dichloroethene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.8	10061-02-6	t-1,3 Dichloropropene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.8	127-18-4	Tetrachloroethene (PCE)	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.8	108-88-3	Toluene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.8	79-01-6	Trichloroethene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.8	75-69-4	Trichlorofluoromethane	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.8	108-05-4	Vinyl acetate	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.8	75-01-4	Vinyl chloride	ND	mg / Kg	1	0.01		09-18-02	09-18-02

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **GTS DURATEK**

Project: **TA-48**

Order: **0209141** **GTS02** Receipt: **09-09-02**

Sample: ***BH4-ENCORE-0.5*** Collected: *09-05-02 9:45:00* By: *KT*

Matrix: ***ENCORE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209141-07A		**SW846 8260B Purgeable VOCs by GC/MS**						By: JAA		
X02392	XG.2002.1506.11	75-34-3	1,1 Dichloroethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.11	75-35-4	1,1 Dichloroethene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.11	71-55-6	1,1,1 Trichloroethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.11	630-20-6	1,1,1,2 Tetrachloroethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.11	79-00-5	1,1,2 Trichloroethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.11	79-34-5	1,1,2,2 Tetrachloroethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.11	106-93-4	1,2 Dibromoethane (EDB)	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.11	95-50-1	1,2 Dichlorobenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.11	107-06-2	1,2 Dichloroethane (EDC)	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.11	78-87-5	1,2 Dichloropropane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.11	96-18-4	1,2,3 Trichloropropane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.11	95-63-6	1,2,4-Trimethylbenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.11	541-73-1	1,3 Dichlorobenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.11	108-67-8	1,3,5-Trimethylbenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.11	764-41-0	1,4 Dichloro-2-butene	ND	mg / Kg	1	0.05		09-18-02	09-18-02
X02392	XG.2002.1506.11	106-46-7	1,4 Dichlorobenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.11	78-93-3	2-Butanone (MEK)	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.11	591-78-6	2-Hexanone (MBK)	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.11	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.11	67-64-1	Acetone	ND	mg / Kg	1	0.05		09-18-02	09-18-02
X02392	XG.2002.1506.11	107-02-8	Acrolein	ND	mg / Kg	1	0.1		09-18-02	09-18-02
X02392	XG.2002.1506.11	107-13-1	Acrylonitrile	ND	mg / Kg	1	0.1		09-18-02	09-18-02
X02392	XG.2002.1506.11	71-43-2	Benzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.11	75-27-4	Bromodichloromethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.11	75-25-2	Bromoform	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.11	74-83-9	Bromomethane	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.11	75-15-0	Carbon disulfide	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.11	56-23-5	Carbon tetrachloride	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.11	108-90-7	Chlorobenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.11	124-48-1	Chlorodibromomethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.11	75-00-3	Chloroethane	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.11	67-66-3	Chloroform	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.11	74-87-3	Chloromethane	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.11	156-59-2	cis-1,2 dichloroethene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.11		cis-1,3 Dichloropropene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.11	74-95-3	Dibromomethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.11	97-63-2	Ethyl methacrylate	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.11	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.11		Freon 113	ND	mg / Kg	1	0.035		09-18-02	09-18-02
X02392	XG.2002.1506.11	75-71-8	Freon 12	ND	mg / Kg	1	0.05		09-18-02	09-18-02
X02392	XG.2002.1506.11	1634-04-4	Methyl t-butyl ether (MTBE)	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.11	75-09-2	Methylene chloride	ND	mg / Kg	1	0.05		09-18-02	09-18-02
X02392	XG.2002.1506.11	91-20-3	Naphthalene	ND	mg / Kg	1	0.025		09-18-02	09-18-02

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **GTS DURATEK**
Project: **TA-48**
Order: **0209141** **GTS02** Receipt: **09-09-02**

Sample: ***BH4-ENCORE-0.5*** Collected: *09-05-02 9:45:00* By: *KT*
Matrix: ***ENCORE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209141-07A		SW846 8260B Purgeable VOCs by GC/MS					By:	JAA		
X02392	XG.2002.1506.11	95-47-6	o-Xylene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.11	108-38-3/106-42	p/m-Xylenes	ND	mg / Kg	1	0.01		09-18-02	09-18-02
X02392	XG.2002.1506.11	100-42-5	Styrene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.11	156-60-5	t-1,2 Dichloroethene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.11	10061-02-6	t-1,3 Dichloropropene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.11	127-18-4	Tetrachloroethene (PCE)	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.16	108-88-3	Toluene	ND	mg / Kg	2	0.005		09-19-02	09-19-02
X02392	XG.2002.1506.11	79-01-6	Trichloroethene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.11	75-69-4	Trichlorofluoromethane	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.11	108-05-4	Vinyl acetate	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.11	75-01-4	Vinyl chloride	ND	mg / Kg	1	0.01		09-18-02	09-18-02

Sample: ***BH4-ENCORE-1.0*** Collected: *09-05-02 9:50:00* By: *KT*
Matrix: ***ENCORE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209141-08A		SW846 8260B Purgeable VOCs by GC/MS					By:	JAA		
X02392	XG.2002.1506.12	75-34-3	1,1 Dichloroethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.12	75-35-4	1,1 Dichloroethene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.12	71-55-6	1,1,1 Trichloroethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.12	630-20-6	1,1,1,2 Tetrachloroethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.12	79-00-5	1,1,2 Trichloroethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.12	79-34-5	1,1,2,2 Tetrachloroethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.12	106-93-4	1,2 Dibromoethane (EDB)	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.12	95-50-1	1,2 Dichlorobenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.12	107-06-2	1,2 Dichloroethane (EDC)	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.12	78-87-5	1,2 Dichloropropane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.12	96-18-4	1,2,3 Trichloropropane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.17	95-63-6	1,2,4-Trimethylbenzene	ND	mg / Kg	1	0.005		09-19-02	09-19-02
X02392	XG.2002.1506.12	541-73-1	1,3 Dichlorobenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.12	108-67-8	1,3,5-Trimethylbenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.12	764-41-0	1,4 Dichloro-2-butene	ND	mg / Kg	1	0.05		09-18-02	09-18-02
X02392	XG.2002.1506.12	106-46-7	1,4 Dichlorobenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.12	78-93-3	2-Butanone (MEK)	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.12	591-78-6	2-Hexanone (MBK)	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.12	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.12	67-64-1	Acetone	ND	mg / Kg	1	0.05		09-18-02	09-18-02
X02392	XG.2002.1506.12	107-02-8	Acrolein	ND	mg / Kg	1	0.1		09-18-02	09-18-02
X02392	XG.2002.1506.12	107-13-1	Acrylonitrile	ND	mg / Kg	1	0.1		09-18-02	09-18-02
X02392	XG.2002.1506.12	71-43-2	Benzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.12	75-27-4	Bromodichloromethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **GTS DURATEK**
Project: **TA-48**
Order: **0209141** **GTS02** Receipt: **09-09-02**

Sample: ***BH4-ENCORE-1.0*** Collected: *09-05-02 9:50:00* By: *KT*
Matrix: ***ENCORE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209141-08A		**SW846 8260B Purgeable VOCs by GC/MS**					By:	JAA		
X02392	XG.2002.1506.12	75-25-2	Bromoform	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.12	74-83-9	Bromomethane	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.12	75-15-0	Carbon disulfide	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.12	56-23-5	Carbon tetrachloride	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.12	108-90-7	Chlorobenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.12	124-48-1	Chlorodibromomethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.12	75-00-3	Chloroethane	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.12	67-66-3	Chloroform	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.12	74-87-3	Chloromethane	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.12	156-59-2	cis-1,2 dichloroethene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.12		cis-1,3 Dichloropropene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.12	74-95-3	Dibromomethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.12	97-63-2	Ethyl methacrylate	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.12	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.12		Freon 113	ND	mg / Kg	1	0.035		09-18-02	09-18-02
X02392	XG.2002.1506.12	75-71-8	Freon 12	ND	mg / Kg	1	0.05		09-18-02	09-18-02
X02392	XG.2002.1506.12	1634-04-4	Methyl t-butyl ether (MTBE)	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.12	75-09-2	Methylene chloride	ND	mg / Kg	1	0.05		09-18-02	09-18-02
X02392	XG.2002.1506.12	91-20-3	Naphthalene	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.12	95-47-6	o-Xylene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.12	108-38-3/106-42	p/m-Xylenes	ND	mg / Kg	1	0.01		09-18-02	09-18-02
X02392	XG.2002.1506.12	100-42-5	Styrene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.12	156-60-5	t-1,2 Dichloroethene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.12	10061-02-6	t-1,3 Dichloropropene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.12	127-18-4	Tetrachloroethene (PCE)	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.17	108-88-3	Toluene	ND	mg / Kg	1	0.005		09-19-02	09-19-02
X02392	XG.2002.1506.12	79-01-6	Trichloroethene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.12	75-69-4	Trichlorofluoromethane	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.12	108-05-4	Vinyl acetate	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.12	75-01-4	Vinyl chloride	ND	mg / Kg	1	0.01		09-18-02	09-18-02

Sample: ***BH5-ENCORE-1.0*** Collected: *09-05-02 11:05:00* By: *KT*
Matrix: ***ENCORE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209141-09A		**SW846 8260B Purgeable VOCs by GC/MS**					By:	JAA		
X02392	XG.2002.1506.13	75-34-3	1,1 Dichloroethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.13	75-35-4	1,1 Dichloroethene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.13	71-55-6	1,1,1 Trichloroethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.13	630-20-6	1,1,1,2 Tetrachloroethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.13	79-00-5	1,1,2 Trichloroethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **GTS DURATEK**

Project: **TA-48**

Order: **0209141** **GTS02** Receipt: **09-09-02**

Sample: ***BH5-ENCORE-1.0*** Collected: *09-05-02 11:05:00* By: *KT*

Matrix: ***ENCORE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209141-09A		**SW846 8260B Purgeable VOCs by GC/MS**						By: JAA		
X02392	XG.2002.1506.13	79-34-5	1,1,2,2 Tetrachloroethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.13	106-93-4	1,2 Dibromoethane (EDB)	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.13	95-50-1	1,2 Dichlorobenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.13	107-06-2	1,2 Dichloroethane (EDC)	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.13	78-87-5	1,2 Dichloropropane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.13	96-18-4	1,2,3 Trichloropropane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.13	95-63-6	1,2,4-Trimethylbenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.13	541-73-1	1,3 Dichlorobenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.13	108-67-8	1,3,5-Trimethylbenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.13	764-41-0	1,4 Dichloro-2-butene	ND	mg / Kg	1	0.05		09-18-02	09-18-02
X02392	XG.2002.1506.13	106-46-7	1,4 Dichlorobenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.13	78-93-3	2-Butanone (MEK)	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.13	591-78-6	2-Hexanone (MBK)	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.13	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.13	67-64-1	Acetone	ND	mg / Kg	1	0.05		09-18-02	09-18-02
X02392	XG.2002.1506.13	107-02-8	Acrolein	ND	mg / Kg	1	0.1		09-18-02	09-18-02
X02392	XG.2002.1506.13	107-13-1	Acrylonitrile	ND	mg / Kg	1	0.1		09-18-02	09-18-02
X02392	XG.2002.1506.13	71-43-2	Benzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.13	75-27-4	Bromodichloromethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.13	75-25-2	Bromoform	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.13	74-83-9	Bromomethane	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.13	75-15-0	Carbon disulfide	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.13	56-23-5	Carbon tetrachloride	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.13	108-90-7	Chlorobenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.13	124-48-1	Chlorodibromomethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.13	75-00-3	Chloroethane	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.13	67-66-3	Chloroform	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.13	74-87-3	Chloromethane	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.13	156-59-2	cis-1,2 dichloroethene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.13		cis-1,3 Dichloropropene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.13	74-95-3	Dibromomethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.13	97-63-2	Ethyl methacrylate	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.13	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.13		Freon 113	ND	mg / Kg	1	0.035		09-18-02	09-18-02
X02392	XG.2002.1506.13	75-71-8	Freon 12	ND	mg / Kg	1	0.05		09-18-02	09-18-02
X02392	XG.2002.1506.13	1634-04-4	Methyl t-butyl ether (MTBE)	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.13	75-09-2	Methylene chloride	ND	mg / Kg	1	0.05		09-18-02	09-18-02
X02392	XG.2002.1506.13	91-20-3	Naphthalene	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.13	95-47-6	o-Xylene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.13	108-38-3/106-42	p/m-Xylenes	ND	mg / Kg	1	0.01		09-18-02	09-18-02
X02392	XG.2002.1506.13	100-42-5	Styrene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.13	156-60-5	t-1,2 Dichloroethene	ND	mg / Kg	1	0.005		09-18-02	09-18-02

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **GTS DURATEK**
Project: **TA-48**
Order: **0209141** **GTS02** Receipt: **09-09-02**

Sample: ***BH5-ENCORE-1.0*** Collected: *09-05-02 11:05:00* By: *KT*
Matrix: ***ENCORE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209141-09A		**SW846 8260B Purgeable VOCs by GC/MS**						By: JAA		
X02392	XG.2002.1506.13	10061-02-6	t-1,3 Dichloropropene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.13	127-18-4	Tetrachloroethene (PCE)	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.13	108-88-3	Toluene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.13	79-01-6	Trichloroethene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.13	75-69-4	Trichlorofluoromethane	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.13	108-05-4	Vinyl acetate	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.13	75-01-4	Vinyl chloride	ND	mg / Kg	1	0.01		09-18-02	09-18-02

Sample: ***BH5-ENCORE-1.5*** Collected: *09-05-02 11:06:00* By: *KT*
Matrix: ***ENCORE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209141-10A		**SW846 8260B Purgeable VOCs by GC/MS**						By: JAA		
X02392	XG.2002.1506.14	75-34-3	1,1 Dichloroethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.14	75-35-4	1,1 Dichloroethene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.14	71-55-6	1,1,1 Trichloroethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.14	630-20-6	1,1,1,2 Tetrachloroethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.14	79-00-5	1,1,2 Trichloroethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.14	79-34-5	1,1,2,2 Tetrachloroethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.14	106-93-4	1,2 Dibromoethane (EDB)	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.14	95-50-1	1,2 Dichlorobenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.14	107-06-2	1,2 Dichloroethane (EDC)	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.14	78-87-5	1,2 Dichloropropane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.14	96-18-4	1,2,3 Trichloropropane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.14	95-63-6	1,2,4-Trimethylbenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.14	541-73-1	1,3 Dichlorobenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.14	108-67-8	1,3,5-Trimethylbenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.14	764-41-0	1,4 Dichloro-2-butene	ND	mg / Kg	1	0.05		09-18-02	09-18-02
X02392	XG.2002.1506.14	106-46-7	1,4 Dichlorobenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.14	78-93-3	2-Butanone (MEK)	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.14	591-78-6	2-Hexanone (MBK)	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.14	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.14	67-64-1	Acetone	ND	mg / Kg	1	0.05		09-18-02	09-18-02
X02392	XG.2002.1506.14	107-02-8	Acrolein	ND	mg / Kg	1	0.1		09-18-02	09-18-02
X02392	XG.2002.1506.14	107-13-1	Acrylonitrile	ND	mg / Kg	1	0.1		09-18-02	09-18-02
X02392	XG.2002.1506.14	71-43-2	Benzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.14	75-27-4	Bromodichloromethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.14	75-25-2	Bromoform	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.14	74-83-9	Bromomethane	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.14	75-15-0	Carbon disulfide	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.14	56-23-5	Carbon tetrachloride	ND	mg / Kg	1	0.005		09-18-02	09-18-02

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **GTS DURATEK**
Project: **TA-48**
Order: **0209141** **GTS02** Receipt: **09-09-02**

Sample: ***BH5-ENCORE-1.5*** Collected: *09-05-02 11:06:00* By: *KT*
Matrix: ***ENCORE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209141-10A		**SW846 8260B Purgeable VOCs by GC/MS**					By:	JAA		
X02392	XG.2002.1506.14	108-90-7	Chlorobenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.14	124-48-1	Chlorodibromomethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.14	75-00-3	Chloroethane	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.14	67-66-3	Chloroform	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.14	74-87-3	Chloromethane	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.14	156-59-2	cis-1,2 dichloroethene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.14		cis-1,3 Dichloropropene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.14	74-95-3	Dibromomethane	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.14	97-63-2	Ethyl methacrylate	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.14	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.14		Freon 113	ND	mg / Kg	1	0.035		09-18-02	09-18-02
X02392	XG.2002.1506.14	75-71-8	Freon 12	ND	mg / Kg	1	0.05		09-18-02	09-18-02
X02392	XG.2002.1506.14	1634-04-4	Methyl t-butyl ether (MTBE)	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.14	75-09-2	Methylene chloride	ND	mg / Kg	1	0.05		09-18-02	09-18-02
X02392	XG.2002.1506.14	91-20-3	Naphthalene	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.14	95-47-6	o-Xylene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.14	108-38-3/106-42	p/m-Xylenes	ND	mg / Kg	1	0.01		09-18-02	09-18-02
X02392	XG.2002.1506.14	100-42-5	Styrene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.14	156-60-5	t-1,2 Dichloroethene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.14	10061-02-6	t-1,3 Dichloropropene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.14	127-18-4	Tetrachloroethene (PCE)	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.18	108-88-3	Toluene	ND	mg / Kg	1	0.005		09-19-02	09-19-02
X02392	XG.2002.1506.14	79-01-6	Trichloroethene	ND	mg / Kg	1	0.005		09-18-02	09-18-02
X02392	XG.2002.1506.14	75-69-4	Trichlorofluoromethane	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.14	108-05-4	Vinyl acetate	ND	mg / Kg	1	0.025		09-18-02	09-18-02
X02392	XG.2002.1506.14	75-01-4	Vinyl chloride	ND	mg / Kg	1	0.01		09-18-02	09-18-02

Sample: ***BH5-1.0-1.5*** Collected: *09-05-02 11:15:00* By: *KT*
Matrix: ***COMP***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209141-11A		**SW846 3550A/8270B SVOCs by GC/MS**					By:	DS		
X02389	XG.2002.1512.2	120-82-1	1,2,4-Trichlorobenzene	ND	mg / Kg	1	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.2	95-50-1	1,2-Dichlorobenzene	ND	mg / Kg	1	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.2	541-73-1	1,3-Dichlorobenzene	ND	mg / Kg	1	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.2	106-46-7	1,4-Dichlorobenzene	ND	mg / Kg	1	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.2	90-12-0	1-Methylnaphthalene	ND	mg / Kg	1	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.2	58-90-2	2,3,4,6-Tetrachlorophenol	ND	mg / Kg	1	1.5		09-12-02	09-20-02
X02389	XG.2002.1512.2	95-95-4	2,4,5-Trichlorophenol	ND	mg / Kg	1	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.2	88-06-2	2,4,6-Trichlorophenol	ND	mg / Kg	1	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.2	120-83-2	2,4-Dichlorophenol	ND	mg / Kg	1	0.3		09-12-02	09-20-02

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **GTS DURATEK**

Project: **TA-48**

Order: **0209141** **GTS02** Receipt: **09-09-02**

Sample: ***BH5-1.0-1.5*** Collected: *09-05-02 11:15:00* By: *KT*

Matrix: ***COMP***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209141-11A		**SW846 3550A/8270B SVOCs by GC/MS**					By:	DS		
X02389	XG.2002.1512.2	105-67-9	2,4-Dimethylphenol	ND	mg / Kg	1	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.2	51-28-5	2,4-Dinitrophenol	ND	mg / Kg	1	0.67		09-12-02	09-20-02
X02389	XG.2002.1512.2	121-14-2	2,4-Dinitrotoluene	ND	mg / Kg	1	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.2	606-20-2	2,6-Dinitrotoluene	ND	mg / Kg	1	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.2	91-58-7	2-Chloronaphthalene	ND	mg / Kg	1	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.2	95-57-8	2-Chlorophenol	ND	mg / Kg	1	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.2	91-57-6	2-Methylnaphthalene	ND	mg / Kg	1	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.2	95-48-7	2-Methylphenol	ND	mg / Kg	1	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.2	88-74-4	2-Nitroaniline	ND	mg / Kg	1	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.2	88-75-5	2-Nitrophenol	ND	mg / Kg	1	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.2	91-94-1	3,3-Dichlorobenzidine	ND	mg / Kg	1	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.2		3+4 Methylphenol	ND	mg / Kg	1	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.2	99-09-2	3-Nitroaniline	ND	mg / Kg	1	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.2	534-52-1	4,6-Dinitro-2-methylphenol	ND	mg / Kg	1	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.2	101-55-3	4-Bromophenyl-phenylether	ND	mg / Kg	1	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.2	59-50-7	4-Chloro-3-methylphenol	ND	mg / Kg	1	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.2	106-47-8	4-Chloroaniline	ND	mg / Kg	1	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.2	7005-72-3	4-Chlorophenyl-phenylether	ND	mg / Kg	1	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.2	100-01-6	4-Nitroaniline	ND	mg / Kg	1	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.2	100-02-7	4-Nitrophenol	ND	mg / Kg	1	0.6		09-12-02	09-20-02
X02389	XG.2002.1512.2	83-32-9	Acenaphthene	ND	mg / Kg	1	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.2	208-96-8	Acenaphthylene	ND	mg / Kg	1	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.2	62-53-3	Aniline	ND	mg / Kg	1	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.2	120-12-7	Anthracene	ND	mg / Kg	1	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.2		Azobenzene&1,2-Diphenylhydrazine	ND	mg / Kg	1	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.2	56-55-3	Benzo (a) anthracene	ND	mg / Kg	1	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.2	50-32-8	Benzo(a)pyrene	ND	mg / Kg	1	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.2		Benzo(b & k)fluoranthene	ND	mg / Kg	1	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.2	191-24-2	Benzo(g,h,i)perylene	ND	mg / Kg	1	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.2	64-85-0	Benzoic acid	ND	mg / Kg	1	3		09-12-02	09-20-02
X02389	XG.2002.1512.2	100-51-6	Benzyl alcohol	ND	mg / Kg	1	1.5		09-12-02	09-20-02
X02389	XG.2002.1512.2	111-44-4	bis (2-Chloroethyl) ether	ND	mg / Kg	1	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.2	111-91-1	bis(2-Chloroethoxy)methane	ND	mg / Kg	1	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.2	108-60-1	bis(2-Chloroisopropyl)ether	ND	mg / Kg	1	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.2	117-81-7	bis(2-Ethylhexyl)phthalate	ND	mg / Kg	1	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.2	85-68-7	Butylbenzylphthalate	ND	mg / Kg	1	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.2	218-01-9	Chrysene	ND	mg / Kg	1	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.2	53-70-3	Dibenz(a,h)anthracene	ND	mg / Kg	1	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.2	132-64-9	Dibenzofuran	ND	mg / Kg	1	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.2	84-66-2	Diethylphthalate	ND	mg / Kg	1	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.2	131-11-3	Dimethylphthalate	ND	mg / Kg	1	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.2	84-74-2	di-n-Butylphthalate	ND	mg / Kg	1	0.3		09-12-02	09-20-02

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **GTS DURATEK**
Project: **TA-48**
Order: **0209141** **GTS02** Receipt: **09-09-02**

Sample: ***BH5-1.0-1.5*** Collected: *09-05-02 11:15:00* By: *KT*
Matrix: ***COMP***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209141-11A		**SW846 3550A/8270B SVOCs by GC/MS**					By:	DS		
X02389	XG.2002.1512.2	117-84-0	di-n-Octylphthalate	ND	mg / Kg	1	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.2	206-44-0	Fluoranthene	ND	mg / Kg	1	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.2	86737	Fluorene	ND	mg / Kg	1	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.2	118-74-1	Hexachlorobenzene	ND	mg / Kg	1	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.2	87-68-3	Hexachlorobutadiene	ND	mg / Kg	1	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.2	77-47-4	Hexachlorocyclopentadiene	ND	mg / Kg	1	1.5		09-12-02	09-20-02
X02389	XG.2002.1512.2	67-72-1	Hexachloroethane	ND	mg / Kg	1	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.2	193-39-5	Indeno(1,2,3-cd)pyrene	ND	mg / Kg	1	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.2	78-59-1	Isophorone	ND	mg / Kg	1	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.2	91-20-3	Naphthalene	ND	mg / Kg	1	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.2	98-95-3	Nitrobenzene	ND	mg / Kg	1	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.2	62-75-9	n-Nitroso-dimethyl-amine	ND	mg / Kg	1	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.2	621-64-7	n-Nitroso-di-n-propylamine	ND	mg / Kg	1	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.2	86-30-6	n-Nitrosodiphenylamine	ND	mg / Kg	1	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.2	87-86-5	Pentachlorophenol	ND	mg / Kg	1	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.2	85-01-8	Phenanthrene	ND	mg / Kg	1	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.2	108-95-2	Phenol	ND	mg / Kg	1	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.2	129-00-0	Pyrene	ND	mg / Kg	1	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.2	110-86-1	Pyridine	ND	mg / Kg	1	0.3		09-12-02	09-20-02

Sample: ***BH3-0-0.5*** Collected: *09-04-02 11:35:00* By: *KT*
Matrix: ***COMP***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209141-12A		**SW846 3550A/8270B SVOCs by GC/MS**					By:	DS		
X02389	XG.2002.1512.3	120-82-1	1,2,4-Trichlorobenzene	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.3	95-50-1	1,2-Dichlorobenzene	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.3	541-73-1	1,3-Dichlorobenzene	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.3	106-46-7	1,4-Dichlorobenzene	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.3	90-12-0	1-Methylnaphthalene	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.3	58-90-2	2,3,4,6-Tetrachlorophenol	ND	mg / Kg	5	1.5		09-12-02	09-20-02
X02389	XG.2002.1512.3	95-95-4	2,4,5-Trichlorophenol	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.3	88-06-2	2,4,6-Trichlorophenol	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.3	120-83-2	2,4-Dichlorophenol	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.3	105-67-9	2,4-Dimethylphenol	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.3	51-28-5	2,4-Dinitrophenol	ND	mg / Kg	5	0.67		09-12-02	09-20-02
X02389	XG.2002.1512.3	121-14-2	2,4-Dinitrotoluene	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.3	606-20-2	2,6-Dinitrotoluene	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.3	91-58-7	2-Chloronaphthalene	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.3	95-57-8	2-Chlorophenol	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.3	91-57-6	2-Methylnaphthalene	ND	mg / Kg	5	0.03		09-12-02	09-20-02

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **GTS DURATEK**
Project: **TA-48**
Order: **0209141** **GTS02** Receipt: **09-09-02**

Sample: ***BH3-0-0.5*** Collected: *09-04-02 11:35:00* By: *KT*
Matrix: ***COMP***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209141-12A		**SW846 3550A/8270B SVOCs by GC/MS**					By:	DS		
X02389	XG.2002.1512.3	95-48-7	2-Methylphenol	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.3	88-74-4	2-Nitroaniline	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.3	88-75-5	2-Nitrophenol	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.3	91-94-1	3,3-Dichlorobenzidine	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.3		3+4 Methylphenol	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.3	99-09-2	3-Nitroaniline	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.3	534-52-1	4,6-Dinitro-2-methylphenol	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.3	101-55-3	4-Bromophenyl-phenylether	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.3	59-50-7	4-Chloro-3-methylphenol	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.3	106-47-8	4-Chloroaniline	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.3	7005-72-3	4-Chlorophenyl-phenylether	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.3	100-01-6	4-Nitroaniline	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.3	100-02-7	4-Nitrophenol	ND	mg / Kg	5	0.6		09-12-02	09-20-02
X02389	XG.2002.1512.3	83-32-9	Acenaphthene	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.3	208-96-8	Acenaphthylene	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.3	62-53-3	Aniline	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.3	120-12-7	Anthracene	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.3		Azobenzene&1,2-Diphenylhydrazine	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.3	56-55-3	Benzo (a) anthracene	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.3	50-32-8	Benzo(a)pyrene	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.3		Benzo(b & k)fluoranthene	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.3	191-24-2	Benzo(g,h,i)perylene	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.3	64-85-0	Benzoic acid	ND	mg / Kg	5	3		09-12-02	09-20-02
X02389	XG.2002.1512.3	100-51-6	Benzyl alcohol	ND	mg / Kg	5	1.5		09-12-02	09-20-02
X02389	XG.2002.1512.3	111-44-4	bis (2-Chloroethyl) ether	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.3	111-91-1	bis(2-Chloroethoxy)methane	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.3	108-60-1	bis(2-Chloroisopropyl)ether	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.3	117-81-7	bis(2-Ethylhexyl)phthalate	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.3	85-68-7	Butylbenzylphthalate	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.3	218-01-9	Chrysene	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.3	53-70-3	Dibenz(a,h)anthracene	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.3	132-64-9	Dibenzofuran	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.3	84-66-2	Diethylphthalate	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.3	131-11-3	Dimethylphthalate	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.3	84-74-2	di-n-Butylphthalate	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.3	117-84-0	di-n-Octylphthalate	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.3	206-44-0	Fluoranthene	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.3	86737	Fluorene	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.3	118-74-1	Hexachlorobenzene	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.3	87-68-3	Hexachlorobutadiene	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.3	77-47-4	Hexachlorocyclopentadiene	ND	mg / Kg	5	1.5		09-12-02	09-20-02
X02389	XG.2002.1512.3	67-72-1	Hexachloroethane	ND	mg / Kg	5	0.03		09-12-02	09-20-02

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **GTS DURATEK**

Project: **TA-48**

Order: **0209141** **GTS02** Receipt: **09-09-02**

Sample: ***BH3-0-0.5*** Collected: *09-04-02 11:35:00* By: *KT*

Matrix: ***COMP***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209141-12A		**SW846 3550A/8270B SVOCs by GC/MS**					By:	DS		
X02389	XG.2002.1512.3	193-39-5	Indeno(1,2,3-cd)pyrene	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.3	78-59-1	Isophorone	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.3	91-20-3	Naphthalene	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.3	98-95-3	Nitrobenzene	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.3	62-75-9	n-Nitroso-dimethyl-amine	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.3	621-64-7	n-Nitroso-di-n-propylamine	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.3	86-30-6	n-Nitrosodiphenylamine	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.3	87-86-5	Pentachlorophenol	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.3	85-01-8	Phenanthrene	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.3	108-95-2	Phenol	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.3	129-00-0	Pyrene	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.3	110-86-1	Pyridine	ND	mg / Kg	5	0.3		09-12-02	09-20-02
0209141-12B		**EPA 906M**					By:	BZ		
ARS021201	SB.2002.322.1		Tritium	ND	pCi/g	1	1.51	S	09-19-02	09-19-02
0209141-12C		**EPA 901.1M**					By:	KCE		
ARS021201	SB.2002.319.1		Americium-241	0.002+/-0.02	pCi/g	1	0.02	S	09-20-02	09-20-02
ARS021201	SB.2002.319.1		Beryllium-7	0.04+/-0.09	pCi/g	1	0.1	S	09-20-02	09-20-02
ARS021201	SB.2002.319.1		Cesium-134	0.03+/-0.01	pCi/g	1	0.16	S	09-20-02	09-20-02
ARS021201	SB.2002.319.1		Cesium-137	-0.0007+/--0.04	pCi/g	1	0.02	S	09-20-02	09-20-02
ARS021201	SB.2002.319.1		Cobalt-57	0.002+/-0.01	pCi/g	1	0.01	S	09-20-02	09-20-02
ARS021201	SB.2002.319.1		Cobalt-58	0.005+/-0.01	pCi/g	1	0.01	S	09-20-02	09-20-02
ARS021201	SB.2002.319.1		Cobalt-60	0.0006+/-0.02	pCi/g	1	0.02	S	09-20-02	09-20-02
ARS021201	SB.2002.319.1		Manganese-54	-0.01+/--0.03	pCi/g	1	0.02	S	09-20-02	09-20-02
ARS021201	SB.2002.319.1		Zinc-65	-0.07+/--0.04	pCi/g	1	0.04	S	09-20-02	09-20-02
ARS021201	SB.2002.319.1		Zirconium-95	0.00+/-0.00	pCi/g	1	0.01	S	09-20-02	09-20-02
0209141-12D		**EPA 905M**					By:	DR		
ARS021201	SB.2002.321.1		Strontium-90	0.73+/-0.51	pCi/g	1	1.31	S	10-10-02	10-10-02
0209141-12E		**Eichrom**					By:	SM		
ARS021201	SB.2002.320.2		Plutonium-238	0.02+/-0.02	pCi/g	1	0.01	S	10-08-02	10-08-02
ARS021201	SB.2002.320.2		Plutonium-239/240	0.02+/-0.02	pCi/g	1	0.01	S	10-08-02	10-08-02
ARS021201	SB.2002.320.1		Uranium-234	0.63+/-0.12	pCi/g	1	0.02	S	10-09-02	10-09-02
ARS021201	SB.2002.320.1		Uranium-235	0.01+/-0.02	pCi/g	1	0.01	S	10-09-02	10-09-02
ARS021201	SB.2002.320.1		Uranium-238	0.61+/-0.11	pCi/g	1	0.01	S	10-09-02	10-09-02

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **GTS DURATEK**
Project: **TA-48**
Order: **0209141** **GTS02** Receipt: **09-09-02**

Sample: ***BH3-0.5-1.0*** Collected: *09-04-02 11:36:00* By: *KT*
Matrix: ***COMP***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209141-13A		**SW846 3550A/8270B SVOCs by GC/MS**					By:	DS		
X02389	XG.2002.1512.4	120-82-1	1,2,4-Trichlorobenzene	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.4	95-50-1	1,2-Dichlorobenzene	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.4	541-73-1	1,3-Dichlorobenzene	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.4	106-46-7	1,4-Dichlorobenzene	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.4	90-12-0	1-Methylnaphthalene	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.4	58-90-2	2,3,4,6-Tetrachlorophenol	ND	mg / Kg	5	1.5		09-12-02	09-20-02
X02389	XG.2002.1512.4	95-95-4	2,4,5-Trichlorophenol	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.4	88-06-2	2,4,6-Trichlorophenol	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.4	120-83-2	2,4-Dichlorophenol	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.4	105-67-9	2,4-Dimethylphenol	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.4	51-28-5	2,4-Dinitrophenol	ND	mg / Kg	5	0.67		09-12-02	09-20-02
X02389	XG.2002.1512.4	121-14-2	2,4-Dinitrotoluene	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.4	606-20-2	2,6-Dinitrotoluene	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.4	91-58-7	2-Chloronaphthalene	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.4	95-57-8	2-Chlorophenol	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.4	91-57-6	2-Methylnaphthalene	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.4	95-48-7	2-Methylphenol	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.4	88-74-4	2-Nitroaniline	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.4	88-75-5	2-Nitrophenol	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.4	91-94-1	3,3-Dichlorobenzidine	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.4		3+4 Methylphenol	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.4	99-09-2	3-Nitroaniline	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.4	534-52-1	4,6-Dinitro-2-methylphenol	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.4	101-55-3	4-Bromophenyl-phenylether	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.4	59-50-7	4-Chloro-3-methylphenol	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.4	106-47-8	4-Chloroaniline	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.4	7005-72-3	4-Chlorophenyl-phenylether	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.4	100-01-6	4-Nitroaniline	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.4	100-02-7	4-Nitrophenol	ND	mg / Kg	5	0.6		09-12-02	09-20-02
X02389	XG.2002.1512.4	83-32-9	Acenaphthene	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.4	208-96-8	Acenaphthylene	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.4	62-53-3	Aniline	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.4	120-12-7	Anthracene	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.4		Azobenzene&1,2-Diphenylhydrazine	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.4	56-55-3	Benzo (a) anthracene	0.30	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.4	50-32-8	Benzo(a)pyrene	0.29	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.4		Benzo(b & k)fluoranthene	0.49	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.4	191-24-2	Benzo(g,h,i)perylene	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.4	64-85-0	Benzoic acid	ND	mg / Kg	5	3		09-12-02	09-20-02
X02389	XG.2002.1512.4	100-51-6	Benzyl alcohol	ND	mg / Kg	5	1.5		09-12-02	09-20-02
X02389	XG.2002.1512.4	111-44-4	bis (2-Chloroethyl) ether	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.4	111-91-1	bis(2-Chloroethoxy)methane	ND	mg / Kg	5	0.03		09-12-02	09-20-02

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Certificate of Analysis

Client: **GTS DURATEK**
Project: **TA-48**
Order: **0209141** **GTS02** Receipt: **09-09-02**

Sample: ***BH3-0.5-1.0*** Collected: *09-04-02 11:36:00* By: *KT*
Matrix: ***COMP***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209141-13A		**SW846 3550A/8270B SVOCs by GC/MS**					By:	DS		
X02389	XG.2002.1512.4	108-60-1	bis(2-Chloroisopropyl)ether	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.4	117-81-7	bis(2-Ethylhexyl)phthalate	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.4	85-68-7	Butylbenzylphthalate	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.4	218-01-9	Chrysene	0.32	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.4	53-70-3	Dibenz(a,h)anthracene	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.4	132-64-9	Dibenzofuran	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.4	84-66-2	Diethylphthalate	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.4	131-11-3	Dimethylphthalate	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.4	84-74-2	di-n-Butylphthalate	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.4	117-84-0	di-n-Octylphthalate	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.4	206-44-0	Fluoranthene	0.37	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.4	86737	Fluorene	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.4	118-74-1	Hexachlorobenzene	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.4	87-68-3	Hexachlorobutadiene	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.4	77-47-4	Hexachlorocyclopentadiene	ND	mg / Kg	5	1.5		09-12-02	09-20-02
X02389	XG.2002.1512.4	67-72-1	Hexachloroethane	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.4	193-39-5	Indeno(1,2,3-cd)pyrene	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.4	78-59-1	Isophorone	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.4	91-20-3	Naphthalene	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.4	98-95-3	Nitrobenzene	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.4	62-75-9	n-Nitroso-dimethyl-amine	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.4	621-64-7	n-Nitroso-di-n-propylamine	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.4	86-30-6	n-Nitrosodiphenylamine	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.4	87-86-5	Pentachlorophenol	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.4	85-01-8	Phenanthrene	ND	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.4	108-95-2	Phenol	ND	mg / Kg	5	0.3		09-12-02	09-20-02
X02389	XG.2002.1512.4	129-00-0	Pyrene	0.53	mg / Kg	5	0.03		09-12-02	09-20-02
X02389	XG.2002.1512.4	110-86-1	Pyridine	ND	mg / Kg	5	0.3		09-12-02	09-20-02
0209141-13B		**EPA 906M**					By:	BZ		
ARS021201	SB.2002.322.2		Tritium	ND	pCi/g	1	1.3	S	09-19-02	09-19-02
0209141-13C		**EPA 901.1M**					By:	KCE		
ARS021201	SB.2002.319.2		Americium-241	0.01+/-0.02	pCi/g	1	0.02	S	09-20-02	09-20-02
ARS021201	SB.2002.319.2		Beryllium-7	-0.02+/--0.77	pCi/g	1	0.11	S	09-20-02	09-20-02
ARS021201	SB.2002.319.2		Cesium-134	-0.40+/--1.10	pCi/g	1	0.2	S	09-20-02	09-20-02
ARS021201	SB.2002.319.2		Cesium-137	-0.0005+/--0.02	pCi/g	1	0.02	S	09-20-02	09-20-02
ARS021201	SB.2002.319.2		Cobalt-57	0.0005+/-0.006	pCi/g	1	0.007	S	09-20-02	09-20-02
ARS021201	SB.2002.319.2		Cobalt-58	-0.01+/--0.04	pCi/g	1	0.02	S	09-20-02	09-20-02
ARS021201	SB.2002.319.2		Cobalt-60	0.01+/-0.02	pCi/g	1	0.02	S	09-20-02	09-20-02
ARS021201	SB.2002.319.2		Manganese-54	-0.0001+/--0.01	pCi/g	1	0.02	S	09-20-02	09-20-02

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Certificate of Analysis

Client: **GTS DURATEK**
Project: **TA-48**
Order: **0209141** **GTS02** Receipt: **09-09-02**

Sample: ***BH3-0.5-1.0*** Collected: *09-04-02 11:36:00* By: *KT*
Matrix: ***COMP***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209141-13C		**EPA 901.1M**					By:	KCE		
ARS021201	SB.2002.319.2		Zinc-65	-0.10+/--0.05	pCi/g	1	0.05	S	09-20-02	09-20-02
ARS021201	SB.2002.319.2		Zirconium-95	-0.01+/--0.01	pCi/g	1	0.02	S	09-20-02	09-20-02
0209141-13D		**EPA 905M**					By:	DR		
ARS021201	SB.2002.321.2		Strontium-90	0.41+/-0.46	pCi/g	1	1.24	S	10-10-02	10-10-02
0209141-13E		**Eichrom**					By:	SM		
ARS021201	SB.2002.320.4		Plutonium-238	0.009+/-0.01	pCi/g	1	0.01	S	10-08-02	10-08-02
ARS021201	SB.2002.320.4		Plutonium-239/240	-0.005+/-0.01	pCi/g	1	0.01	S	10-08-02	10-08-02
ARS021201	SB.2002.320.3		Uranium-234	0.59+/-0.11	pCi/g	1	0.02	S	10-09-02	10-09-02
ARS021201	SB.2002.320.3		Uranium-235	0.06+/-0.04	pCi/g	1	0.01	S	10-09-02	10-09-02
ARS021201	SB.2002.320.3		Uranium-238	0.55+/-0.10	pCi/g	1	0.01	S	10-09-02	10-09-02

Sample: ***BH3-4.0-5.0*** Collected: *09-05-02 8:40:00* By: *KT*
Matrix: ***COMP***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209141-14A		**EPA 906M**					By:	BZ		
ARS021201	SB.2002.322.3		Tritium	ND	pCi/g	1	1.47	S	09-19-02	09-19-02
0209141-14B		**EPA 901.1M**					By:	KCE		
ARS021201	SB.2002.319.3		Americium-241	0.02+/-0.02	pCi/g	1	0.03	S	09-23-02	09-23-02
ARS021201	SB.2002.319.3		Beryllium-7	0.11+/-0.12	pCi/g	1	0.14	S	09-23-02	09-23-02
ARS021201	SB.2002.319.3		Cesium-134	0.01+/-0.004	pCi/g	1	0.24	S	09-23-02	09-23-02
ARS021201	SB.2002.319.3		Cesium-137	-0.02+/--0.06	pCi/g	1	0.02	S	09-23-02	09-23-02
ARS021201	SB.2002.319.3		Cobalt-57	0.0001+/-0.008	pCi/g	1	0.009	S	09-23-02	09-23-02
ARS021201	SB.2002.319.3		Cobalt-58	-0.01+/--0.05	pCi/g	1	0.02	S	09-23-02	09-23-02
ARS021201	SB.2002.319.3		Cobalt-60	-0.003+/--0.03	pCi/g	1	0.02	S	09-23-02	09-23-02
ARS021201	SB.2002.319.3		Manganese-54	0.0006+/-0.02	pCi/g	1	0.02	S	09-23-02	09-23-02
ARS021201	SB.2002.319.3		Zinc-65	-0.05+/--0.05	pCi/g	1	0.05	S	09-23-02	09-23-02
ARS021201	SB.2002.319.3		Zirconium-95	-0.05+/--0.07	pCi/g	1	0.05	S	09-23-02	09-23-02
0209141-14C		**EPA 905M**					By:	DR		
ARS021201	SB.2002.321.3		Strontium-90	1.17+/-0.56	pCi/g	1	1.35	S	10-10-02	10-10-02
0209141-14D		**Eichrom**					By:	SM		
ARS021201	SB.2002.320.6		Plutonium-238	0.06+/-0.03	pCi/g	1	0.01	S	10-08-02	10-08-02
ARS021201	SB.2002.320.6		Plutonium-239/240	0.02+/-0.02	pCi/g	1	0.01	S	10-08-02	10-08-02
ARS021201	SB.2002.320.5		Uranium-234	0.83+/-0.13	pCi/g	1	0.02	S	10-09-02	10-09-02
ARS021201	SB.2002.320.5		Uranium-235	0.05+/-0.03	pCi/g	1	0.01	S	10-09-02	10-09-02
ARS021201	SB.2002.320.5		Uranium-238	0.81+/-0.12	pCi/g	1	0.01	S	10-09-02	10-09-02

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **GTS DURATEK**
Project: **TA-48**
Order: **0209141** **GTS02** Receipt: **09-09-02**

Sample: ***BH3-16-17*** Collected: *09-05-02 9:20:00* By: *KT*
Matrix: ***COMP***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209141-15A		**EPA 906M**					By:	BZ		
ARS021201	SB.2002.322.4		Tritium	ND	pCi/g	1	1.51	S	09-19-02	09-19-02
0209141-15B		**EPA 901.1M**					By:	DR		
ARS021201	SB.2002.319.4		Americium-241	-0.006+/--0.06	pCi/g	1	0.01	S	09-24-02	09-24-02
ARS021201	SB.2002.319.4		Beryllium-7	0.01+/-0.07	pCi/g	1	0.08	S	09-24-02	09-24-02
ARS021201	SB.2002.319.4		Cesium-134	0.06+/-0.01	pCi/g	1	0.12	S	09-24-02	09-24-02
ARS021201	SB.2002.319.4		Cesium-137	-0.02+/--0.01	pCi/g	1	0.01	S	09-24-02	09-24-02
ARS021201	SB.2002.319.4		Cobalt-57	-0.0005+/--0.005	pCi/g	1	0.006	S	09-24-02	09-24-02
ARS021201	SB.2002.319.4		Cobalt-58	-0.0008+/--0.30	pCi/g	1	0.01	S	09-24-02	09-24-02
ARS021201	SB.2002.319.4		Cobalt-60	-0.003+/--0.11	pCi/g	1	0.02	S	09-24-02	09-24-02
ARS021201	SB.2002.319.4		Manganese-54	-0.02+/--0.02	pCi/g	1	0.01	S	09-24-02	09-24-02
ARS021201	SB.2002.319.4		Zinc-65	-0.006+/--0.01	pCi/g	1	0.02	S	09-24-02	09-24-02
ARS021201	SB.2002.319.4		Zirconium-95	0.02+/-0.02	pCi/g	1	0.02	S	09-24-02	09-24-02
0209141-15C		**EPA 905M**					By:	DR		
ARS021201	SB.2002.321.4		Strontium-90	0.11+/-0.44	pCi/g	1	1.28	S	10-10-02	10-10-02
0209141-15D		**Eichrom**					By:	SM		
ARS021201	SB.2002.320.8		Plutonium-238	0.05+/-0.03	pCi/g	1	0.01	S	10-08-02	10-08-02
ARS021201	SB.2002.320.8		Plutonium-239/240	0.01+/-0.01	pCi/g	1	0.01	S	10-08-02	10-08-02
ARS021201	SB.2002.320.7		Uranium-234	0.70+/-0.11	pCi/g	1	0.02	S	10-09-02	10-09-02
ARS021201	SB.2002.320.7		Uranium-235	0.04+/-0.03	pCi/g	1	0.01	S	10-09-02	10-09-02
ARS021201	SB.2002.320.7		Uranium-238	0.66+/-0.11	pCi/g	1	0.01	S	10-09-02	10-09-02
0209141-15E		**SW846 ME/8015A Diesel Range Organics by GC/FID**					By:	JM		
X02376	XG.2002.1444.8		Diesel Range Organics	ND	mg / Kg	1	25		09-11-02	09-11-02

Sample: ***BH3-16-17-DUP*** Collected: *09-05-02 9:20:00* By: *KT*
Matrix: ***COMP***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209141-16A		**EPA 906M**					By:	BZ		
ARS021201	SB.2002.322.5		Tritium	ND	pCi/g	1	1.73	S	09-19-02	09-19-02
0209141-16B		**EPA 901.1M**					By:	DR		
ARS021201	SB.2002.319.5		Americium-241	0.004+/-0.04	pCi/g	1	0.04	S	09-23-02	09-23-02
ARS021201	SB.2002.319.5		Beryllium-7	0.04+/-0.16	pCi/g	1	0.18	S	09-23-02	09-23-02
ARS021201	SB.2002.319.5		Cesium-134	-0.39+/--0.61	pCi/g	1	0.3	S	09-23-02	09-23-02
ARS021201	SB.2002.319.5		Cesium-137	-0.01+/--0.04	pCi/g	1	0.03	S	09-23-02	09-23-02
ARS021201	SB.2002.319.5		Cobalt-57	0.003+/-0.01	pCi/g	1	0.01	S	09-23-02	09-23-02
ARS021201	SB.2002.319.5		Cobalt-58	0.02+/-0.02	pCi/g	1	0.02	S	09-23-02	09-23-02
ARS021201	SB.2002.319.5		Cobalt-60	0.01+/-0.03	pCi/g	1	0.03	S	09-23-02	09-23-02

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **GTS DURATEK**

Project: **TA-48**

Order: **0209141** **GTS02** Receipt: **09-09-02**

Sample: ***BH3-16-17-DUP*** Collected: *09-05-02 9:20:00* By: *KT*

Matrix: ***COMP***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209141-16B		**EPA 901.1M**					By:	DR		
ARS021201	SB.2002.319.5		Manganese-54	-0.005+/--0.15	pCi/g	1	0.01	S	09-23-02	09-23-02
ARS021201	SB.2002.319.5		Zinc-65	-0.008+/--0.06	pCi/g	1	0.02	S	09-23-02	09-23-02
ARS021201	SB.2002.319.5		Zirconium-95	-0.0009+/--0.04	pCi/g	1	0.04	S	09-23-02	09-23-02
0209141-16C		**EPA 905M**					By:	DR		
ARS021201	SB.2002.321.5		Strontium-90	0.08+/-0.44	pCi/g	1	1.3	S	10-10-02	10-10-02
0209141-16D		**Eichrom**					By:	SM		
ARS021201	SB.2002.320.10		Plutonium-238	0.05+/-0.03	pCi/g	1	0.01	S	10-08-02	10-08-02
ARS021201	SB.2002.320.10		Plutonium-239/240	0.02+/-0.02	pCi/g	1	0.01	S	10-08-02	10-08-02
ARS021201	SB.2002.320.9		Uranium-234	0.71+/-0.12	pCi/g	1	0.02	S	10-09-02	10-09-02
ARS021201	SB.2002.320.9		Uranium-235	0.03+/-0.03	pCi/g	1	0.01	S	10-09-02	10-09-02
ARS021201	SB.2002.320.9		Uranium-238	0.65+/-0.11	pCi/g	1	0.01	S	10-09-02	10-09-02

Unless otherwise noted, all samples were received in acceptable condition and all sampling was performed by client or client representative. Sample result of ND indicates Not Detected, ie result is less than the sample specific Detection Limit. Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. All results relate only to the items tested. Any miscellaneous workorder information or foonotes will appear below.

ASSAIGAI ANALYTICAL LABORATORIES, INC.

Chain of Custody Record

7300 JEFFERSON N.E.
ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

127 EASTGATE DRIVE, 212-C
LOS ALAMOS, NEW MEXICO 87544
(505) 662-2558

Lab job No.: 0209141 Date _____

Page 1 2 of 2

Client: DURATEK FEDERAL SERVICES
Address: 555 OPPENHEIMER DR STE 101
City / State / Zip: LOS ALAMOS, NM 87544
Project Name / Number: TA-48
Contract / Purchase Order / Quote _____

Project Manager / Contact: KEITH TUCKER
Telephone No.: 505-661-6621
Fax No.: 505-661-2541
Samplers: (signature) [signature]

AAL Fraction Number	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation: Temp.	Preservation: Chemical	No. of Containers	SVOC	TRITIUM	GAMMA SPEC	Sr 90	Iso U	Iso Pu	TPH-DRO				Remarks
13A-E	BH3-0.5-1.0	9/4/02	1136	COMP	8oz. JARS	✓		5	✓	✓	✓	✓	✓						Solids
14A-D	BH3-4.0-5.0	9/5/02	0840	COMP	8oz. JARS	✓		4		✓	✓	✓	✓						
15A-D	BH3-16-17	9/5/02	0920	COMP	8oz. JARS	✓		5		✓	✓	✓	✓	✓					
16A-D	BH3-16-17-DUP	9/5/02	0920	COMP	8oz. JARS	✓		4		✓	✓	✓	✓						

Relinquished by:	Date	Received by:	Relinquished by:	Date	Received by:
Signature [signature]	9/6/02	Signature [signature]	Signature [signature]	9/6/02	Signature [signature]
Printed KEITH TUCKER	Time	Printed ELVIN J. CARVER	Printed	Time	Printed [illegible]
Company DURATEK	1000	Company	Company	1615	Company AAL
Reason RELEASE FOR ANALYSIS		Reason	Reason		Reason analysis

Method of Shipment: _____
Shipment No. _____
Special Instructions: _____

Comments: _____

After analysis, samples are to be:
- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

COURIER

ASSAIGAI ANALYTICAL LABORATORIES, INC.

Chain of Custody Record

7300 JEFFERSON N.E.
ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

127 EASTGATE DRIVE, 212-C
LOS ALAMOS, NEW MEXICO 87544
(505) 662-2558

Lab job No. 0209141 Date _____

Page 1 of 2

Client: DURATEK FEDERAL SERVICES

Address: 555 OPPENHEIMER DR. STE 101

City / State / Zip: LOS ALAMOS, NM 87544

Project Name / Number: TA-48

Contract / Purchase Order / Quote _____

Project Manager / Contact: KEITH TUCKER

Telephone No. 505-661-6621

Fax No. 505-661-2541

Samplers : (signature) [signature]

AAL Fraction Number	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	VOC	SVOC	TRITIUM	GAMMA SPEC	SR 90	Iso U, Iso Pu				Remarks
01A	BH1-ENCORE-0.5	9/3/02	1620	ENCORE	SCRAM ENCORE	✓		1	✓									
02A	BH1-ENCORE-1.0	9/3/02	1625			✓		1	✓									
03A	BH2-ENCORE-0.5	9/4/02	0805			✓		1	✓									
04A	BH2-ENCORE-1.0	9/4/02	0810			✓		1	✓									
05A	BH3-ENCORE-0.5	9/4/02	1120			✓		1	✓									
06A	BH3-ENCORE-1.0	9/4/02	1130			✓		1	✓									
07A	BH4-ENCORE-0.5	9/5/02	0945			✓		1	✓									
08A	BH4-ENCORE-1.0	9/5/02	0950			✓		1	✓									
09A	BH5-ENCORE-1.0	9/5/02	1105			✓		1	✓									
10A	BH5-ENCORE-1.5	9/5/02	1106	✓	✓	✓		1	✓									
11A	BH5-1.0-1.5	9/5/02	1115	GMP.	8oz. JAR	✓		1		✓								
12A-E	BH3-0-0.5	9/4/02	1135	GMP.	8oz. JARS	✓		5		✓	✓	✓	✓	✓				Sid 9-9-02

Relinquished by:	Date	Received by:	Relinquished by:	Date	Received by:
Signature [signature]	9/6/02	Signature [signature]	Signature [signature]	9/6/02	Signature [signature] 802
Printed KEITH TUCKER	Time	Printed ELVIA J. GOMEZ	Printed	Time	Printed [signature]
Company DURATEK	1000	Company	Company	1615	Company AAL
Reason RELEASE FOR ANALYSIS		Reason	Reason		Reason analysis

Method of Shipment: _____

Shipment No. _____

Special Instructions: _____

Comments: _____

After analysis, samples are to be:

- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

COUR

B-3.0. DEEP SAMPLES FROM BOREHOLES 2, 3, AND 4

ASSAIGAI ANALYTICAL LABORATORIES, INC.

P.O. Box 90430 • Albuquerque, New Mexico 87199 • (505) 345-8964 • FAX (505) 345-7259

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127 Eastgate Drive, 212-C • Los Alamos, New Mexico 87544 • (505) 662-2556

Explanation of codes

B	*analyte detected in Method Blank*
E	*result is estimated*
H	*analyzed out of hold time*
N	*tentatively identified compound*
S	*subcontracted*
1-9	*see footnote*

GTS DURATEK
attn: **KEITH TUCKER**
555 OPPENHEIMER SUITE 101
LOS ALAMOS NM 87544

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **GTS DURATEK**
Project: **TA-48**
Order: **0209107** **GTS02** Receipt: **09-06-02**

William P. Biava, President of Assaigai Analytical Laboratories, Inc.

Sample: ***BH2-12.0-12.5*** Collected: *09-04-02 10:42:00* By: *KT*
Matrix: ***CORE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209107-01A		**SW846 8260B Purgeable VOCs by GC/MS**						By: JAA		
X02359	XG.2002.1424.8	75-34-3	1,1 Dichloroethane	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.8	75-35-4	1,1 Dichloroethene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.8	71-55-6	1,1,1 Trichloroethane	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.8	630-20-6	1,1,1,2 Tetrachloroethane	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.8	79-00-5	1,1,2 Trichloroethane	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.8	79-34-5	1,1,2,2 Tetrachloroethane	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.8	106-93-4	1,2 Dibromoethane (EDB)	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.8	95-50-1	1,2 Dichlorobenzene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.8	107-06-2	1,2 Dichloroethane (EDC)	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.8	78-87-5	1,2 Dichloropropane	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.8	96-18-4	1,2,3 Trichloropropane	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.8	95-63-6	1,2,4-Trimethylbenzene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.8	541-73-1	1,3 Dichlorobenzene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.8	108-67-8	1,3,5-Trimethylbenzene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.8	764-41-0	1,4 Dichloro-2-butene	ND	mg / Kg	1	0.05		09-06-02	09-06-02
X02359	XG.2002.1424.8	106-46-7	1,4 Dichlorobenzene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.8	78-93-3	2-Butanone (MEK)	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.8	591-78-6	2-Hexanone (MBK)	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.8	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.8	67-64-1	Acetone	ND	mg / Kg	1	0.05		09-06-02	09-06-02
X02359	XG.2002.1424.8	107-02-8	Acrolein	ND	mg / Kg	1	0.1		09-06-02	09-06-02
X02359	XG.2002.1424.8	107-13-1	Acrylonitrile	ND	mg / Kg	1	0.1		09-06-02	09-06-02
X02359	XG.2002.1424.8	71-43-2	Benzene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.8	75-27-4	Bromodichloromethane	ND	mg / Kg	1	0.005		09-06-02	09-06-02

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Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **GTS DURATEK**
Project: **TA-48**
Order: **0209107** **GTS02** Receipt: **09-06-02**

Sample: ***BH2-12.0-12.5*** Collected: *09-04-02 10:42:00* By: *KT*
Matrix: ***CORE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209107-01A		SW846 8260B Purgeable VOCs by GC/MS					By:	JAA		
X02359	XG.2002.1424.8	75-25-2	Bromoform	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.8	74-83-9	Bromomethane	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.8	75-15-0	Carbon disulfide	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.8	56-23-5	Carbon tetrachloride	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.8	108-90-7	Chlorobenzene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.8	124-48-1	Chlorodibromomethane	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.8	75-00-3	Chloroethane	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.8	67-66-3	Chloroform	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.8	74-87-3	Chloromethane	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.8	156-59-2	cis-1,2 dichloroethene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.8		cis-1,3 Dichloropropene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.8	74-95-3	Dibromomethane	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.8	97-63-2	Ethyl methacrylate	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.8	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.8		Freon 113	ND	mg / Kg	1	0.035		09-06-02	09-06-02
X02359	XG.2002.1424.8	75-71-8	Freon 12	ND	mg / Kg	1	0.05		09-06-02	09-06-02
X02359	XG.2002.1424.8	1634-04-4	Methyl t-butyl ether (MTBE)	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.8	75-09-2	Methylene chloride	ND	mg / Kg	1	0.05		09-06-02	09-06-02
X02359	XG.2002.1424.8	91-20-3	Naphthalene	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.8	95-47-6	o-Xylene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.8	108-38-3/106-42	p/m-Xylenes	ND	mg / Kg	1	0.01		09-06-02	09-06-02
X02359	XG.2002.1424.8	100-42-5	Styrene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.8	156-60-5	t-1,2 Dichloroethene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.8	10061-02-6	t-1,3 Dichloropropene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.8	127-18-4	Tetrachloroethene (PCE)	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.8	108-88-3	Toluene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.8	79-01-6	Trichloroethene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.8	75-69-4	Trichlorofluoromethane	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.8	108-05-4	Vinyl acetate	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.8	75-01-4	Vinyl chloride	ND	mg / Kg	1	0.01		09-06-02	09-06-02

Sample: ***BH3-3.8-4.6*** Collected: *09-05-02 8:30:00* By: *KT*
Matrix: ***CORE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209107-02A		SW846 8260B Purgeable VOCs by GC/MS					By:	JM		
X02359	XG.2002.1424.23	75-34-3	1,1 Dichloroethane	ND	mg / Kg	1	0.005		09-07-02	09-07-02
X02359	XG.2002.1424.23	75-35-4	1,1 Dichloroethene	ND	mg / Kg	1	0.005		09-07-02	09-07-02
X02359	XG.2002.1424.12	71-55-6	1,1,1 Trichloroethane	ND	mg / Kg	100	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.23	630-20-6	1,1,1,2 Tetrachloroethane	ND	mg / Kg	1	0.005		09-07-02	09-07-02
X02359	XG.2002.1424.23	79-00-5	1,1,2 Trichloroethane	ND	mg / Kg	1	0.005		09-07-02	09-07-02

Certificate of Analysis

Client: **GTS DURATEK**
Project: **TA-48**
Order: **0209107** **GTS02** Receipt: **09-06-02**

Sample: ***BH3-3.8-4.6*** Collected: *09-05-02 8:30:00* By: *KT*
Matrix: ***CORE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209107-02A		**SW846 8260B Purgeable VOCs by GC/MS**					By:	**JM**		
X02359	XG.2002.1430.5	79-34-5	1,1,2,2 Tetrachloroethane	ND	mg / Kg	1000	0.005		09-09-02	09-09-02
X02359	XG.2002.1424.23	106-93-4	1,2 Dibromoethane (EDB)	ND	mg / Kg	1	0.005		09-07-02	09-07-02
X02359	XG.2002.1424.23	95-50-1	1,2 Dichlorobenzene	ND	mg / Kg	1	0.005		09-07-02	09-07-02
X02359	XG.2002.1424.12	107-06-2	1,2 Dichloroethane (EDC)	ND	mg / Kg	100	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.12	78-87-5	1,2 Dichloropropane	ND	mg / Kg	100	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.23	96-18-4	1,2,3 Trichloropropane	ND	mg / Kg	1	0.005		09-07-02	09-07-02
X02359	XG.2002.1430.5	95-63-6	1,2,4-Trimethylbenzene	540	mg / Kg	1000	0.005		09-09-02	09-09-02
X02359	XG.2002.1424.23	541-73-1	1,3 Dichlorobenzene	ND	mg / Kg	1	0.005		09-07-02	09-07-02
X02359	XG.2002.1430.5	108-67-8	1,3,5-Trimethylbenzene	580	mg / Kg	1000	0.005		09-09-02	09-09-02
X02359	XG.2002.1424.12	764-41-0	1,4 Dichloro-2-butene	ND	mg / Kg	100	0.05		09-06-02	09-06-02
X02359	XG.2002.1424.23	764-41-0	1,4 Dichloro-2-butene	ND	mg / Kg	1	0.05		09-07-02	09-07-02
X02359	XG.2002.1424.23	106-46-7	1,4 Dichlorobenzene	ND	mg / Kg	1	0.005		09-07-02	09-07-02
X02359	XG.2002.1424.23	78-93-3	2-Butanone (MEK)	ND	mg / Kg	1	0.025		09-07-02	09-07-02
X02359	XG.2002.1424.12	591-78-6	2-Hexanone (MBK)	ND	mg / Kg	100	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.23	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	mg / Kg	1	0.025		09-07-02	09-07-02
X02359	XG.2002.1424.23	67-64-1	Acetone	0.14	mg / Kg	1	0.05		09-07-02	09-07-02
X02359	XG.2002.1424.23	107-02-8	Acrolein	ND	mg / Kg	1	0.1		09-07-02	09-07-02
X02359	XG.2002.1424.23	107-13-1	Acrylonitrile	ND	mg / Kg	1	0.1		09-07-02	09-07-02
X02359	XG.2002.1424.12	71-43-2	Benzene	ND	mg / Kg	100	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.12	75-27-4	Bromodichloromethane	ND	mg / Kg	100	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.23	75-25-2	Bromoform	ND	mg / Kg	1	0.005		09-07-02	09-07-02
X02359	XG.2002.1424.23	74-83-9	Bromomethane	ND	mg / Kg	1	0.025		09-07-02	09-07-02
X02359	XG.2002.1424.23	75-15-0	Carbon disulfide	ND	mg / Kg	1	0.025		09-07-02	09-07-02
X02359	XG.2002.1424.12	56-23-5	Carbon tetrachloride	ND	mg / Kg	100	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.23	108-90-7	Chlorobenzene	ND	mg / Kg	1	0.005		09-07-02	09-07-02
X02359	XG.2002.1424.23	124-48-1	Chlorodibromomethane	ND	mg / Kg	1	0.005		09-07-02	09-07-02
X02359	XG.2002.1424.23	75-00-3	Chloroethane	ND	mg / Kg	1	0.025		09-07-02	09-07-02
X02359	XG.2002.1424.23	67-66-3	Chloroform	ND	mg / Kg	1	0.005		09-07-02	09-07-02
X02359	XG.2002.1424.23	74-87-3	Chloromethane	ND	mg / Kg	1	0.025		09-07-02	09-07-02
X02359	XG.2002.1424.23	156-59-2	cis-1,2 dichloroethene	ND	mg / Kg	1	0.005		09-07-02	09-07-02
X02359	XG.2002.1424.23		cis-1,3 Dichloropropene	ND	mg / Kg	1	0.005		09-07-02	09-07-02
X02359	XG.2002.1424.12	74-95-3	Dibromomethane	ND	mg / Kg	100	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.23	97-63-2	Ethyl methacrylate	ND	mg / Kg	1	0.025		09-07-02	09-07-02
X02359	XG.2002.1424.23	100-41-4	Ethylbenzene	0.029	mg / Kg	1	0.005		09-07-02	09-07-02
X02359	XG.2002.1424.23		Freon 113	ND	mg / Kg	1	0.035		09-07-02	09-07-02
X02359	XG.2002.1424.23	75-71-8	Freon 12	ND	mg / Kg	1	0.05		09-07-02	09-07-02
X02359	XG.2002.1424.23	1634-04-4	Methyl t-butyl ether (MTBE)	ND	mg / Kg	1	0.005		09-07-02	09-07-02
X02359	XG.2002.1424.12	75-09-2	Methylene chloride	ND	mg / Kg	100	0.05		09-06-02	09-06-02
X02359	XG.2002.1430.5	91-20-3	Naphthalene	160	mg / Kg	1000	0.025		09-09-02	09-09-02
X02359	XG.2002.1424.12	95-47-6	o-Xylene	8.4	mg / Kg	100	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.23	108-38-3/106-42	p/m-Xylenes	0.97	mg / Kg	1	0.01		09-07-02	09-07-02
X02359	XG.2002.1424.23	100-42-5	Styrene	ND	mg / Kg	1	0.005		09-07-02	09-07-02

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **GTS DURATEK**

Project: **TA-48**

Order: **0209107** **GTS02** Receipt: **09-06-02**

Sample: ***BH3-3.8-4.6*** Collected: *09-05-02 8:30:00* By: *KT*

Matrix: ***CORE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209107-02A		**SW846 8260B Purgeable VOCs by GC/MS**						By: JM		
X02359	XG.2002.1424.23	156-60-5	t-1,2 Dichloroethene	ND	mg / Kg	1	0.005		09-07-02	09-07-02
X02359	XG.2002.1424.23	10061-02-6	t-1,3 Dichloropropene	ND	mg / Kg	1	0.005		09-07-02	09-07-02
X02359	XG.2002.1424.23	127-18-4	Tetrachloroethene (PCE)	ND	mg / Kg	1	0.005		09-07-02	09-07-02
X02359	XG.2002.1424.23	108-88-3	Toluene	0.28	mg / Kg	1	0.005		09-07-02	09-07-02
X02359	XG.2002.1424.12	79-01-6	Trichloroethene	ND	mg / Kg	100	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.23	75-69-4	Trichlorofluoromethane	ND	mg / Kg	1	0.025		09-07-02	09-07-02
X02359	XG.2002.1424.23	108-05-4	Vinyl acetate	ND	mg / Kg	1	0.025		09-07-02	09-07-02
X02359	XG.2002.1424.23	75-01-4	Vinyl chloride	ND	mg / Kg	1	0.01		09-07-02	09-07-02

Sample: ***BH3-17.0-17.5*** Collected: *09-05-02 9:20:00* By: *KT*

Matrix: ***CORE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209107-03A		**SW846 8260B Purgeable VOCs by GC/MS**						By: JAA		
X02359	XG.2002.1424.9	75-34-3	1,1 Dichloroethane	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.9	75-35-4	1,1 Dichloroethene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.9	71-55-6	1,1,1 Trichloroethane	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.9	630-20-6	1,1,1,2 Tetrachloroethane	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.9	79-00-5	1,1,2 Trichloroethane	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.9	79-34-5	1,1,2,2 Tetrachloroethane	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.9	106-93-4	1,2 Dibromoethane (EDB)	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.9	95-50-1	1,2 Dichlorobenzene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.9	107-06-2	1,2 Dichloroethane (EDC)	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.9	78-87-5	1,2 Dichloropropane	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.9	96-18-4	1,2,3 Trichloropropane	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.9	95-63-6	1,2,4-Trimethylbenzene	0.018	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.9	541-73-1	1,3 Dichlorobenzene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.9	108-67-8	1,3,5-Trimethylbenzene	0.005	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.9	764-41-0	1,4 Dichloro-2-butene	ND	mg / Kg	1	0.05		09-06-02	09-06-02
X02359	XG.2002.1424.9	106-46-7	1,4 Dichlorobenzene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.9	78-93-3	2-Butanone (MEK)	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.9	591-78-6	2-Hexanone (MBK)	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.9	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.9	67-64-1	Acetone	ND	mg / Kg	1	0.05		09-06-02	09-06-02
X02359	XG.2002.1424.9	107-02-8	Acrolein	ND	mg / Kg	1	0.1		09-06-02	09-06-02
X02359	XG.2002.1424.9	107-13-1	Acrylonitrile	ND	mg / Kg	1	0.1		09-06-02	09-06-02
X02359	XG.2002.1424.9	71-43-2	Benzene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.9	75-27-4	Bromodichloromethane	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.9	75-25-2	Bromoform	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.9	74-83-9	Bromomethane	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.9	75-15-0	Carbon disulfide	ND	mg / Kg	1	0.025		09-06-02	09-06-02

Certificate of Analysis

Client: **GTS DURATEK**
Project: **TA-48**
Order: **0209107** **GTS02** Receipt: **09-06-02**

Sample: ***BH3-17.0-17.5*** Collected: *09-05-02 9:20:00* By: *KT*
Matrix: ***CORE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209107-03A		SW846 8260B Purgeable VOCs by GC/MS					By:	JAA		
X02359	XG.2002.1424.9	56-23-5	Carbon tetrachloride	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.9	108-90-7	Chlorobenzene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.9	124-48-1	Chlorodibromomethane	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.9	75-00-3	Chloroethane	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.9	67-66-3	Chloroform	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.9	74-87-3	Chloromethane	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.9	156-59-2	cis-1,2 dichloroethene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.9		cis-1,3 Dichloropropene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.9	74-95-3	Dibromomethane	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.9	97-63-2	Ethyl methacrylate	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.9	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.9		Freon 113	ND	mg / Kg	1	0.035		09-06-02	09-06-02
X02359	XG.2002.1424.9	75-71-8	Freon 12	ND	mg / Kg	1	0.05		09-06-02	09-06-02
X02359	XG.2002.1424.9	1634-04-4	Methyl t-butyl ether (MTBE)	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.9	75-09-2	Methylene chloride	ND	mg / Kg	1	0.05		09-06-02	09-06-02
X02359	XG.2002.1424.9	91-20-3	Naphthalene	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.9	95-47-6	o-Xylene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.9	108-38-3/106-42	p/m-Xylenes	ND	mg / Kg	1	0.01		09-06-02	09-06-02
X02359	XG.2002.1424.9	100-42-5	Styrene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.9	156-60-5	t-1,2 Dichloroethene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.9	10061-02-6	t-1,3 Dichloropropene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.9	127-18-4	Tetrachloroethene (PCE)	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.9	108-88-3	Toluene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.9	79-01-6	Trichloroethene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.9	75-69-4	Trichlorofluoromethane	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.9	108-05-4	Vinyl acetate	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.9	75-01-4	Vinyl chloride	ND	mg / Kg	1	0.01		09-06-02	09-06-02

Sample: ***BH3-17.5-18.0*** Collected: *09-05-02 9:20:00* By: *KT*
Matrix: ***CORE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209107-04A		SW846 8260B Purgeable VOCs by GC/MS					By:	JAA		
X02359	XG.2002.1424.10	75-34-3	1,1 Dichloroethane	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.10	75-35-4	1,1 Dichloroethene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.10	71-55-6	1,1,1 Trichloroethane	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.10	630-20-6	1,1,1,2 Tetrachloroethane	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.10	79-00-5	1,1,2 Trichloroethane	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.10	79-34-5	1,1,2,2 Tetrachloroethane	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.10	106-93-4	1,2 Dibromoethane (EDB)	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.10	95-50-1	1,2 Dichlorobenzene	ND	mg / Kg	1	0.005		09-06-02	09-06-02

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **GTS DURATEK**

Project: **TA-48**

Order: **0209107** **GTS02** Receipt: **09-06-02**

Sample: ***BH3-17.5-18.0*** Collected: *09-05-02 9:20:00* By: *KT*

Matrix: ***CORE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209107-04A		SW846 8260B Purgeable VOCs by GC/MS					By:	JAA		
X02359	XG.2002.1424.10	107-06-2	1,2 Dichloroethane (EDC)	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.10	78-87-5	1,2 Dichloropropane	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.10	96-18-4	1,2,3 Trichloropropane	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.10	95-63-6	1,2,4-Trimethylbenzene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.10	541-73-1	1,3 Dichlorobenzene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.10	108-67-8	1,3,5-Trimethylbenzene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.10	764-41-0	1,4 Dichloro-2-butene	ND	mg / Kg	1	0.05		09-06-02	09-06-02
X02359	XG.2002.1424.10	106-46-7	1,4 Dichlorobenzene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.10	78-93-3	2-Butanone (MEK)	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.10	591-78-6	2-Hexanone (MBK)	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.10	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.10	67-64-1	Acetone	ND	mg / Kg	1	0.05		09-06-02	09-06-02
X02359	XG.2002.1424.10	107-02-8	Acrolein	ND	mg / Kg	1	0.1		09-06-02	09-06-02
X02359	XG.2002.1424.10	107-13-1	Acrylonitrile	ND	mg / Kg	1	0.1		09-06-02	09-06-02
X02359	XG.2002.1424.10	71-43-2	Benzene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.10	75-27-4	Bromodichloromethane	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.10	75-25-2	Bromoform	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.10	74-83-9	Bromomethane	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.10	75-15-0	Carbon disulfide	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.10	56-23-5	Carbon tetrachloride	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.10	108-90-7	Chlorobenzene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.10	124-48-1	Chlorodibromomethane	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.10	75-00-3	Chloroethane	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.10	67-66-3	Chloroform	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.10	74-87-3	Chloromethane	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.10	156-59-2	cis-1,2 dichloroethene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.10		cis-1,3 Dichloropropene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.10	74-95-3	Dibromomethane	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.10	97-63-2	Ethyl methacrylate	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.10	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.10		Freon 113	ND	mg / Kg	1	0.035		09-06-02	09-06-02
X02359	XG.2002.1424.10	75-71-8	Freon 12	ND	mg / Kg	1	0.05		09-06-02	09-06-02
X02359	XG.2002.1424.10	1634-04-4	Methyl t-butyl ether (MTBE)	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.10	75-09-2	Methylene chloride	ND	mg / Kg	1	0.05		09-06-02	09-06-02
X02359	XG.2002.1424.10	91-20-3	Naphthalene	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.10	95-47-6	o-Xylene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.10	108-38-3/106-42	p/m-Xylenes	ND	mg / Kg	1	0.01		09-06-02	09-06-02
X02359	XG.2002.1424.10	100-42-5	Styrene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.10	156-60-5	t-1,2 Dichloroethene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.10	10061-02-6	t-1,3 Dichloropropene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.10	127-18-4	Tetrachloroethene (PCE)	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.10	108-88-3	Toluene	ND	mg / Kg	1	0.005		09-06-02	09-06-02

Certificate of Analysis

Client: **GTS DURATEK**
Project: **TA-48**
Order: **0209107** **GTS02** Receipt: **09-06-02**

Sample: ***BH3-17.5-18.0*** Collected: *09-05-02 9:20:00* By: *KT*
Matrix: ***CORE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209107-04A		SW846 8260B Purgeable VOCs by GC/MS					By:	JAA		
X02359	XG.2002.1424.10	79-01-6	Trichloroethene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.10	75-69-4	Trichlorofluoromethane	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.10	108-05-4	Vinyl acetate	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.10	75-01-4	Vinyl chloride	ND	mg / Kg	1	0.01		09-06-02	09-06-02

Sample: ***BH4-13.5-14.0*** Collected: *09-05-02 10:40:00* By: *KT*
Matrix: ***CORE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209107-05A		SW846 8260B Purgeable VOCs by GC/MS					By:	JAA		
X02359	XG.2002.1424.11	75-34-3	1,1 Dichloroethane	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.11	75-35-4	1,1 Dichloroethene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.11	71-55-6	1,1,1 Trichloroethane	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.11	630-20-6	1,1,1,2 Tetrachloroethane	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.11	79-00-5	1,1,2 Trichloroethane	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.11	79-34-5	1,1,2,2 Tetrachloroethane	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.11	106-93-4	1,2 Dibromoethane (EDB)	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.11	95-50-1	1,2 Dichlorobenzene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.11	107-06-2	1,2 Dichloroethane (EDC)	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.11	78-87-5	1,2 Dichloropropane	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.11	96-18-4	1,2,3 Trichloropropane	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.11	95-63-6	1,2,4-Trimethylbenzene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.11	541-73-1	1,3 Dichlorobenzene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.11	108-67-8	1,3,5-Trimethylbenzene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.11	764-41-0	1,4 Dichloro-2-butene	ND	mg / Kg	1	0.05		09-06-02	09-06-02
X02359	XG.2002.1424.11	106-46-7	1,4 Dichlorobenzene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.11	78-93-3	2-Butanone (MEK)	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.11	591-78-6	2-Hexanone (MBK)	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.11	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.11	67-64-1	Acetone	ND	mg / Kg	1	0.05		09-06-02	09-06-02
X02359	XG.2002.1424.11	107-02-8	Acrolein	ND	mg / Kg	1	0.1		09-06-02	09-06-02
X02359	XG.2002.1424.11	107-13-1	Acrylonitrile	ND	mg / Kg	1	0.1		09-06-02	09-06-02
X02359	XG.2002.1424.11	71-43-2	Benzene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.11	75-27-4	Bromodichloromethane	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.11	75-25-2	Bromoform	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.11	74-83-9	Bromomethane	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.11	75-15-0	Carbon disulfide	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.11	56-23-5	Carbon tetrachloride	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.11	108-90-7	Chlorobenzene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.11	124-48-1	Chlorodibromomethane	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.11	75-00-3	Chloroethane	ND	mg / Kg	1	0.025		09-06-02	09-06-02

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Certificate of Analysis

Client: **GTS DURATEK**

Project: **TA-48**

Order: **0209107** **GTS02** Receipt: **09-06-02**

Sample: ***BH4-13.5-14.0*** Collected: *09-05-02 10:40:00* By: *KT*

Matrix: ***CORE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209107-05A		**SW846 8260B Purgeable VOCs by GC/MS**					By:	JAA		
X02359	XG.2002.1424.11	67-66-3	Chloroform	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.11	74-87-3	Chloromethane	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.11	156-59-2	cis-1,2 dichloroethene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.11		cis-1,3 Dichloropropene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.11	74-95-3	Dibromomethane	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.11	97-63-2	Ethyl methacrylate	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.11	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.11		Freon 113	ND	mg / Kg	1	0.035		09-06-02	09-06-02
X02359	XG.2002.1424.11	75-71-8	Freon 12	ND	mg / Kg	1	0.05		09-06-02	09-06-02
X02359	XG.2002.1424.11	1634-04-4	Methyl t-butyl ether (MTBE)	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.11	75-09-2	Methylene chloride	ND	mg / Kg	1	0.05		09-06-02	09-06-02
X02359	XG.2002.1424.11	91-20-3	Naphthalene	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.11	95-47-6	o-Xylene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.11	108-38-3/106-42	p/m-Xylenes	ND	mg / Kg	1	0.01		09-06-02	09-06-02
X02359	XG.2002.1424.11	100-42-5	Styrene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.11	156-60-5	t-1,2 Dichloroethene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.11	10061-02-6	t-1,3 Dichloropropene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.11	127-18-4	Tetrachloroethene (PCE)	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.11	108-88-3	Toluene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.11	79-01-6	Trichloroethene	ND	mg / Kg	1	0.005		09-06-02	09-06-02
X02359	XG.2002.1424.11	75-69-4	Trichlorofluoromethane	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.11	108-05-4	Vinyl acetate	ND	mg / Kg	1	0.025		09-06-02	09-06-02
X02359	XG.2002.1424.11	75-01-4	Vinyl chloride	ND	mg / Kg	1	0.01		09-06-02	09-06-02

Sample: ***BH3-4.0-5.0*** Collected: *09-05-02 8:40:00* By: *KT*

Matrix: ***COMPOSITE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209107-06A		**SW846 3550A/8270B SVOCs by GC/MS**					By:	JM		
X02389	XG.2002.1422.7	120-82-1	1,2,4-Trichlorobenzene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.7	95-50-1	1,2-Dichlorobenzene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.7	541-73-1	1,3-Dichlorobenzene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.7	106-46-7	1,4-Dichlorobenzene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.7	90-12-0	1-Methylnaphthalene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.7	58-90-2	2,3,4,6-Tetrachlorophenol	ND	mg / Kg	1	1.5		09-07-02	09-08-02
X02389	XG.2002.1422.7	95-95-4	2,4,5-Trichlorophenol	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.7	88-06-2	2,4,6-Trichlorophenol	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.7	120-83-2	2,4-Dichlorophenol	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.7	105-67-9	2,4-Dimethylphenol	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.7	51-28-5	2,4-Dinitrophenol	ND	mg / Kg	1	0.67		09-07-02	09-08-02
X02389	XG.2002.1422.7	121-14-2	2,4-Dinitrotoluene	ND	mg / Kg	1	0.3		09-07-02	09-08-02

Certificate of Analysis

Client: **GTS DURATEK**
Project: **TA-48**
Order: **0209107** **GTS02** Receipt: **09-06-02**

Sample: ***BH3-4.0-5.0*** Collected: *09-05-02 8:40:00* By: *KT*
Matrix: ***COMPOSITE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209107-06A		SW846 3550A/8270B SVOCs by GC/MS					By:	JM		
X02389	XG.2002.1422.7	606-20-2	2,6-Dinitrotoluene	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.7	91-58-7	2-Chloronaphthalene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.7	95-57-8	2-Chlorophenol	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.7	91-57-6	2-Methylnaphthalene	0.080	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.7	95-48-7	2-Methylphenol	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.7	88-74-4	2-Nitroaniline	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.7	88-75-5	2-Nitrophenol	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.7	91-94-1	3,3-Dichlorobenzidine	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.7		3+4 Methylphenol	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.7	99-09-2	3-Nitroaniline	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.7	534-52-1	4,6-Dinitro-2-methylphenol	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.7	101-55-3	4-Bromophenyl-phenylether	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.7	59-50-7	4-Chloro-3-methylphenol	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.7	106-47-8	4-Chloroaniline	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.7	7005-72-3	4-Chlorophenyl-phenylether	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.7	100-01-6	4-Nitroaniline	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.7	100-02-7	4-Nitrophenol	ND	mg / Kg	1	0.6		09-07-02	09-08-02
X02389	XG.2002.1422.7	83-32-9	Acenaphthene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.7	208-96-8	Acenaphthylene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.7	62-53-3	Aniline	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.7	120-12-7	Anthracene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.7		Azobenzene&1,2-Diphenylhydrazine	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.7	56-55-3	Benzo (a) anthracene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.7	50-32-8	Benzo(a)pyrene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.7		Benzo(b & k)fluoranthene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.7	191-24-2	Benzo(g,h,i)perylene	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.7	64-85-0	Benzoic acid	ND	mg / Kg	1	3		09-07-02	09-08-02
X02389	XG.2002.1422.7	100-51-6	Benzyl alcohol	ND	mg / Kg	1	1.5		09-07-02	09-08-02
X02389	XG.2002.1422.7	111-44-4	bis (2-Chloroethyl) ether	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.7	111-91-1	bis(2-Chloroethoxy)methane	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.7	108-60-1	bis(2-Chloroisopropyl)ether	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.7	117-81-7	bis(2-Ethylhexyl)phthalate	0.78	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.7	85-68-7	Butylbenzylphthalate	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.7	218-01-9	Chrysene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.7	53-70-3	Dibenz(a,h)anthracene	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.7	132-64-9	Dibenzofuran	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.7	84-66-2	Diethylphthalate	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.7	131-11-3	Dimethylphthalate	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.7	84-74-2	di-n-Butylphthalate	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.7	117-84-0	di-n-Octylphthalate	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.7	206-44-0	Fluoranthene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.7	86737	Fluorene	ND	mg / Kg	1	0.03		09-07-02	09-08-02

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **GTS DURATEK**

Project: **TA-48**

Order: **0209107** **GTS02** Receipt: **09-06-02**

Sample: ***BH3-4.0-5.0*** Collected: *09-05-02 8:40:00* By: *KT*

Matrix: ***COMPOSITE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209107-06A		SW846 3550A/8270B SVOCs by GC/MS					By:	JM		
X02389	XG.2002.1422.7	118-74-1	Hexachlorobenzene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.7	87-68-3	Hexachlorobutadiene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.7	77-47-4	Hexachlorocyclopentadiene	ND	mg / Kg	1	1.5		09-07-02	09-08-02
X02389	XG.2002.1422.7	67-72-1	Hexachloroethane	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.7	193-39-5	Indeno(1,2,3-cd)pyrene	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.7	78-59-1	Isophorone	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.9	91-20-3	Naphthalene	160	mg / Kg	91	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.7	98-95-3	Nitrobenzene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.7	62-75-9	n-Nitroso-dimethyl-amine	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.7	621-64-7	n-Nitroso-di-n-propylamine	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.7	86-30-6	n-Nitrosodiphenylamine	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.7	87-86-5	Pentachlorophenol	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.7	85-01-8	Phenanthrene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.7	108-95-2	Phenol	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.7	129-00-0	Pyrene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.7	110-86-1	Pyridine	ND	mg / Kg	1	0.3		09-07-02	09-08-02

Sample: ***BH3-16-17*** Collected: *09-05-02 9:20:00* By: *KT*

Matrix: ***COMPOSITE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209107-07A		SW846 3550A/8270B SVOCs by GC/MS					By:	JM		
X02389	XG.2002.1422.4	120-82-1	1,2,4-Trichlorobenzene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.4	95-50-1	1,2-Dichlorobenzene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.4	541-73-1	1,3-Dichlorobenzene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.4	106-46-7	1,4-Dichlorobenzene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.4	90-12-0	1-Methylnaphthalene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.4	58-90-2	2,3,4,6-Tetrachlorophenol	ND	mg / Kg	1	1.5		09-07-02	09-08-02
X02389	XG.2002.1422.4	95-95-4	2,4,5-Trichlorophenol	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.4	88-06-2	2,4,6-Trichlorophenol	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.4	120-83-2	2,4-Dichlorophenol	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.4	105-67-9	2,4-Dimethylphenol	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.4	51-28-5	2,4-Dinitrophenol	ND	mg / Kg	1	0.67		09-07-02	09-08-02
X02389	XG.2002.1422.4	121-14-2	2,4-Dinitrotoluene	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.4	606-20-2	2,6-Dinitrotoluene	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.4	91-58-7	2-Chloronaphthalene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.4	95-57-8	2-Chlorophenol	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.4	91-57-6	2-Methylnaphthalene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.4	95-48-7	2-Methylphenol	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.4	88-74-4	2-Nitroaniline	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.4	88-75-5	2-Nitrophenol	ND	mg / Kg	1	0.3		09-07-02	09-08-02

Certificate of Analysis

Client: **GTS DURATEK**
Project: **TA-48**
Order: **0209107** **GTS02** Receipt: **09-06-02**

Sample: ***BH3-16-17*** Collected: *09-05-02 9:20:00* By: *KT*
Matrix: ***COMPOSITE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209107-07A		SW846 3550A/8270B SVOCs by GC/MS					By:	JM		
X02389	XG.2002.1422.4	91-94-1	3,3-Dichlorobenzidine	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.4		3+4 Methylphenol	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.4	99-09-2	3-Nitroaniline	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.4	534-52-1	4,6-Dinitro-2-methylphenol	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.4	101-55-3	4-Bromophenyl-phenylether	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.4	59-50-7	4-Chloro-3-methylphenol	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.4	106-47-8	4-Chloroaniline	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.4	7005-72-3	4-Chlorophenyl-phenylether	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.4	100-01-6	4-Nitroaniline	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.4	100-02-7	4-Nitrophenol	ND	mg / Kg	1	0.6		09-07-02	09-08-02
X02389	XG.2002.1422.4	83-32-9	Acenaphthene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.4	208-96-8	Acenaphthylene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.4	62-53-3	Aniline	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.4	120-12-7	Anthracene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.4		Azobenzene&1,2-Diphenylhydrazine	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.4	56-55-3	Benzo (a) anthracene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.4	50-32-8	Benzo(a)pyrene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.4		Benzo(b & k)fluoranthene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.4	191-24-2	Benzo(g,h,i)perylene	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.4	64-85-0	Benzoic acid	ND	mg / Kg	1	3		09-07-02	09-08-02
X02389	XG.2002.1422.4	100-51-6	Benzyl alcohol	ND	mg / Kg	1	1.5		09-07-02	09-08-02
X02389	XG.2002.1422.4	111-44-4	bis (2-Chloroethyl) ether	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.4	111-91-1	bis(2-Chloroethoxy)methane	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.4	108-60-1	bis(2-Chloroisopropyl)ether	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.4	117-81-7	bis(2-Ethylhexyl)phthalate	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.4	85-68-7	Butylbenzylphthalate	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.4	218-01-9	Chrysene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.4	53-70-3	Dibenz(a,h)anthracene	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.4	132-64-9	Dibenzofuran	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.4	84-66-2	Diethylphthalate	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.4	131-11-3	Dimethylphthalate	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.4	84-74-2	di-n-Butylphthalate	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.4	117-84-0	di-n-Octylphthalate	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.4	206-44-0	Fluoranthene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.4	86737	Fluorene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.4	118-74-1	Hexachlorobenzene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.4	87-68-3	Hexachlorobutadiene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.4	77-47-4	Hexachlorocyclopentadiene	ND	mg / Kg	1	1.5		09-07-02	09-08-02
X02389	XG.2002.1422.4	67-72-1	Hexachloroethane	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.4	193-39-5	Indeno(1,2,3-cd)pyrene	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.4	78-59-1	Isophorone	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.4	91-20-3	Naphthalene	ND	mg / Kg	1	0.03		09-07-02	09-08-02

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **GTS DURATEK**

Project: **TA-48**

Order: **0209107** **GTS02** Receipt: **09-06-02**

Sample: ***BH3-16-17*** Collected: *09-05-02 9:20:00* By: *KT*

Matrix: ***COMPOSITE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209107-07A		**SW846 3550A/8270B SVOCs by GC/MS**					By:	JM		
X02389	XG.2002.1422.4	98-95-3	Nitrobenzene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.4	62-75-9	n-Nitroso-dimethyl-amine	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.4	621-64-7	n-Nitroso-di-n-propylamine	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.4	86-30-6	n-Nitrosodiphenylamine	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.4	87-86-5	Pentachlorophenol	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.4	85-01-8	Phenanthrene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.4	108-95-2	Phenol	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.4	129-00-0	Pyrene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.4	110-86-1	Pyridine	ND	mg / Kg	1	0.3		09-07-02	09-08-02

Sample: ***BH3-16-17 DUP*** Collected: *09-05-02 9:20:00* By: *KT*

Matrix: ***COMPOSITE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209107-08A		**SW846 3550A/8270B SVOCs by GC/MS**					By:	JM		
X02389	XG.2002.1422.5	120-82-1	1,2,4-Trichlorobenzene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.5	95-50-1	1,2-Dichlorobenzene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.5	541-73-1	1,3-Dichlorobenzene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.5	106-46-7	1,4-Dichlorobenzene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.5	90-12-0	1-Methylnaphthalene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.5	58-90-2	2,3,4,6-Tetrachlorophenol	ND	mg / Kg	1	1.5		09-07-02	09-08-02
X02389	XG.2002.1422.5	95-95-4	2,4,5-Trichlorophenol	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.5	88-06-2	2,4,6-Trichlorophenol	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.5	120-83-2	2,4-Dichlorophenol	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.5	105-67-9	2,4-Dimethylphenol	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.5	51-28-5	2,4-Dinitrophenol	ND	mg / Kg	1	0.67		09-07-02	09-08-02
X02389	XG.2002.1422.5	121-14-2	2,4-Dinitrotoluene	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.5	606-20-2	2,6-Dinitrotoluene	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.5	91-58-7	2-Chloronaphthalene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.5	95-57-8	2-Chlorophenol	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.5	91-57-6	2-Methylnaphthalene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.5	95-48-7	2-Methylphenol	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.5	88-74-4	2-Nitroaniline	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.5	88-75-5	2-Nitrophenol	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.5	91-94-1	3,3-Dichlorobenzidine	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.5		3+4 Methylphenol	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.5	99-09-2	3-Nitroaniline	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.5	534-52-1	4,6-Dinitro-2-methylphenol	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.5	101-55-3	4-Bromophenyl-phenylether	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.5	59-50-7	4-Chloro-3-methylphenol	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.5	106-47-8	4-Chloroaniline	ND	mg / Kg	1	0.3		09-07-02	09-08-02

Certificate of Analysis

Client: **GTS DURATEK**
Project: **TA-48**
Order: **0209107** **GTS02** Receipt: **09-06-02**

Sample: ***BH3-16-17 DUP*** Collected: *09-05-02 9:20:00* By: *KT*
Matrix: ***COMPOSITE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209107-08A		SW846 3550A/8270B SVOCs by GC/MS					By:	JM		
X02389	XG.2002.1422.5	7005-72-3	4-Chlorophenyl-phenylether	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.5	100-01-6	4-Nitroaniline	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.5	100-02-7	4-Nitrophenol	ND	mg / Kg	1	0.6		09-07-02	09-08-02
X02389	XG.2002.1422.5	83-32-9	Acenaphthene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.5	208-96-8	Acenaphthylene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.5	62-53-3	Aniline	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.5	120-12-7	Anthracene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.5		Azobenzene&1,2-Diphenylhydrazine	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.5	56-55-3	Benzo (a) anthracene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.5	50-32-8	Benzo(a)pyrene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.5		Benzo(b & k)fluoranthene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.5	191-24-2	Benzo(g,h,i)perylene	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.5	64-85-0	Benzoic acid	ND	mg / Kg	1	3		09-07-02	09-08-02
X02389	XG.2002.1422.5	100-51-6	Benzyl alcohol	ND	mg / Kg	1	1.5		09-07-02	09-08-02
X02389	XG.2002.1422.5	111-44-4	bis (2-Chloroethyl) ether	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.5	111-91-1	bis(2-Chloroethoxy)methane	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.5	108-60-1	bis(2-Chloroisopropyl)ether	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.5	117-81-7	bis(2-Ethylhexyl)phthalate	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.5	85-68-7	Butylbenzylphthalate	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.5	218-01-9	Chrysene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.5	53-70-3	Dibenz(a,h)anthracene	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.5	132-64-9	Dibenzofuran	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.5	84-66-2	Diethylphthalate	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.5	131-11-3	Dimethylphthalate	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.5	84-74-2	di-n-Butylphthalate	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.5	117-84-0	di-n-Octylphthalate	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.5	206-44-0	Fluoranthene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.5	86737	Fluorene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.5	118-74-1	Hexachlorobenzene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.5	87-68-3	Hexachlorobutadiene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.5	77-47-4	Hexachlorocyclopentadiene	ND	mg / Kg	1	1.5		09-07-02	09-08-02
X02389	XG.2002.1422.5	67-72-1	Hexachloroethane	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.5	193-39-5	Indeno(1,2,3-cd)pyrene	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.5	78-59-1	Isophorone	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.5	91-20-3	Naphthalene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.5	98-95-3	Nitrobenzene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.5	62-75-9	n-Nitroso-dimethyl-amine	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.5	621-64-7	n-Nitroso-di-n-propylamine	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.5	86-30-6	n-Nitrosodiphenylamine	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.5	87-86-5	Pentachlorophenol	ND	mg / Kg	1	0.3		09-07-02	09-08-02
X02389	XG.2002.1422.5	85-01-8	Phenanthrene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.5	108-95-2	Phenol	ND	mg / Kg	1	0.3		09-07-02	09-08-02

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **GTS DURATEK**

Project: **TA-48**

Order: **0209107** **GTS02** Receipt: **09-06-02**

Sample: ***BH3-16-17 DUP*** Collected: *09-05-02 9:20:00* By: *KT*

Matrix: ***COMPOSITE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0209107-08A		**SW846 3550A/8270B SVOCs by GC/MS**						By: JM		
X02389	XG.2002.1422.5	129-00-0	Pyrene	ND	mg / Kg	1	0.03		09-07-02	09-08-02
X02389	XG.2002.1422.5	110-86-1	Pyridine	ND	mg / Kg	1	0.3		09-07-02	09-08-02

Unless otherwise noted, all samples were received in acceptable condition and all sampling was performed by client or client representative. Sample result of ND indicates Not Detected, ie result is less than the sample specific Detection Limit. Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. All results relate only to the items tested. Any miscellaneous workorder information or foonotes will appear below.

ASSAIGAI ANALYTICAL LABORATORIES, INC.

Chain of Custody Record

7300 JEFFERSON N.E.
ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

127 EASTGATE DRIVE, 212-C
LOS ALAMOS, NEW MEXICO 87544
(505) 662-2558

Lab job No.: 020910 Date 9/6/02

Page 1 of 1

Client: DURATEK FEDERAL SERVICES, INC.
Address: 555 OPPENHEIMER DR. STE 101
City / State / Zip: LOS ALAMOS NM 87544
Project Name / Number: TA-48
Contract / Purchase Order / Quote:

Project Manager / Contact: KEITH TUCKER
Telephone No.: 505-661-6621
Fax No.: 505-661-2541
Samplers: (signature)

Analysis Required

AAL Fraction Number	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	VOC	SVOC									Remarks
1A	BH2-12.0-12.5	9/4/02	1042	CORE	6" LEXAN TUBE	✓		1	✓										48 HR TAT
2A	BH3-3.8-4.6	9/5/02	0830	CORE	6" LEXAN TUBE	✓		1	✓										
3A	BH3-17.0-17.5	9/5/02	0920	CORE	6" LEXAN TUBE	✓		1	✓										
4A	BH3-17.5-18.0	9/5/02	0920	CORE	6" LEXAN TUBE	✓		1	✓										
5A	BH4-13.5-14.0	9/5/02	1040	CORE	6" LEXAN TUBE	✓		1	✓										
6A	BH3-4.0-5.0	9/5/02	0840	COMPOSITE	8oz JAR	✓		1		✓									
7A	BH3-16-17	9/5/02	0920	COMPOSITE	8oz JAR	✓		1		✓									
8A	BH3-16-17 DUP	9/5/02	0920	COMPOSITE	8oz JAR	✓		1		✓									

Relinquished by:	Date	Received by:	Relinquished by:	Date	Received by:
Signature:	9/6/02	Signature:	Signature:	9/6/02	Signature:
Printed: KEITH TUCKER	Time	Printed: ELVIN J.	Printed: Elvin J.	Time	Printed:
Company: DURATEK	1000	Company:	Company:	1615	Company:
Reason: RELEASE FOR ANALYSIS		Reason:	Reason:		Reason:

Method of Shipment:
Shipment No.:
Special Instructions:

Comments:

After analysis, samples are to be:
- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

COURIER

B-4.0. CONFIRMATORY SAMPLES

Los Alamos National Laboratory
Organic Data Reporting Form 1

Dry Weight

209522 01

Lab: AAL
Sample #: RE48-02-49520
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: VOC
Method: SW-846:8260B

Date analyzed: 10/02/2002
% moisture: 14.40
Lab Sample #: 0209522-01A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
108-67-8	Trimethylbenzene[1,3,5-]	0.00505051	0.0023	0.00505051	U						
95-63-6	Trimethylbenzene[1,2,4-]	0.00505051	0.0027	0.00505051	U						
541-73-1	Dichlorobenzene[1,3-]	0.00505051	0.0026	0.00505051	U						
106-46-7	Dichlorobenzene[1,4-]	0.00505051	0.0023	0.00505051	U						
95-50-1	Dichlorobenzene[1,2-]	0.00505051	0.0016	0.00505051	U						
91-20-3	Naphthalene	0.0252525	0.0027	0.0252525	U						
95-47-6	Xylene[1,2-]	0.00505051	0.0018	0.00505051	U						
75-71-8	Dichlorodifluoromethane	0.0505051	0.0032	0.0505051	U						
74-87-3	Chloromethane	0.0252525	0.0019	0.0252525	U						
75-01-4	Vinyl Chloride	0.010101	0.0011	0.010101	U						
74-83-9	Bromomethane	0.0252525	0.0083	0.0252525	U						
75-00-3	Chloroethane	0.0252525	0.0011	0.0252525	U						
75-69-4	Trichlorofluoromethane	0.0252525	0.002	0.0252525	U						
75-35-4	Dichloroethene[1,1-]	0.00505051	0.0019	0.00505051	U						
67-64-1	Acetone	0.0505051	0.0281	0.0505051	U						
76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	0.0353535	0.0026	0.0353535	U						
75-15-0	Carbon Disulfide	0.0252525	0.0047	0.0252525	U						
75-09-2	Methylene Chloride	0.0505051	0.0064	0.0505051	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49520
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: VOC
Method: SW-846:8260B

Date analyzed: 10/02/2002
% moisture: 14.40
Lab Sample #: 0209522-01A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
156-60-5	Dichloroethene[trans-1,2-]	0.00505051	0.0021	0.00505051	U						
75-34-3	Dichloroethane[1,1-]	0.00505051	0.0007	0.00505051	U						
78-93-3	Butanone[2-]	0.0252525	0.0104	0.0252525	U						
156-59-2	Dichloroethene[cis-1,2-]	0.00505051	0.0015	0.00505051	U						
67-66-3	Chloroform	0.00505051	0.0005	0.00505051	U						
71-55-6	Trichloroethane[1,1,1-]	0.00505051	0.0012	0.00505051	U						
56-23-5	Carbon Tetrachloride	0.00505051	0.0014	0.00505051	U						
107-06-2	Dichloroethane[1,2-]	0.00505051	0.001	0.00505051	U						
71-43-2	Benzene	0.00505051	0.0015	0.00505051	U						
79-01-6	Trichloroethene	0.00505051	0.0019	0.00505051	U						
78-87-5	Dichloropropane[1,2-]	0.00505051	0.0005	0.00505051	U						
74-95-3	Dibromomethane	0.00505051	0.0021	0.00505051	U						
75-27-4	Bromodichloromethane	0.00505051	0.0006	0.00505051	U						
10061-01-5	Dichloropropene[cis-1,3-]	0.00505051	0.0014	0.00505051	U						
108-10-1	Methyl-2-pentanone[4-]	0.0252525	0.0033	0.0252525	U						
108-88-3	Toluene	0.00505051	0.0019	0.00505051	U						
10061-02-6	Dichloropropene[trans-1,3-]	0.00505051	0.0011	0.00505051	U						
79-00-5	Trichloroethane[1,1,2-]	0.00505051	0.0023	0.00505051	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49520
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: VOC
Method: SW-846:8260B

Date analyzed: 10/02/2002
% moisture: 14.40
Lab Sample #: 0209522-01A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
591-78-6	Hexanone[2-]	0.0252525	0.0051	0.0252525	U						
127-18-4	Tetrachloroethene	0.00505051	0.004	0.00505051	U						
106-93-4	Dibromoethane[1,2-]	0.00505051	0.0013	0.00505051	U						
124-48-1	Chlorodibromomethane	0.00505051	0.0015	0.00505051	U						
108-90-7	Chlorobenzene	0.00505051	0.0014	0.00505051	U						
630-20-6	Tetrachloroethane[1,1,1,2-]	0.00505051	0.0008	0.00505051	U						
100-41-4	Ethylbenzene	0.00505051	0.0024	0.00505051	U						
1330-20-7	Xylene (Total)	0.010101	0.0052	0.010101	U						
100-42-5	Styrene	0.00505051	0.0013	0.00505051	U						
75-25-2	Bromoform	0.00505051	0.0037	0.00505051	U						
79-34-5	Tetrachloroethane[1,1,2,2-]	0.00505051	0.0006	0.00505051	U						
96-18-4	Trichloropropane[1,2,3-]	0.00505051	0.0013	0.00505051	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49521
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: VOC
Method: SW-846:8260B

Date analyzed: 10/02/2002
% moisture: 12.70
Lab Sample #: 0209522-02A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
108-67-8	Trimethylbenzene[1,3,5-]	0.00505051	0.0023	0.00505051	U						
95-63-6	Trimethylbenzene[1,2,4-]	0.00505051	0.0027	0.00505051	U						
541-73-1	Dichlorobenzene[1,3-]	0.00505051	0.0026	0.00505051	U						
106-46-7	Dichlorobenzene[1,4-]	0.00505051	0.0023	0.00505051	U						
95-50-1	Dichlorobenzene[1,2-]	0.00505051	0.0016	0.00505051	U						
91-20-3	Naphthalene	0.0252525	0.0027	0.0252525	U						
95-47-6	Xylene[1,2-]	0.00505051	0.0018	0.00505051	U						
75-71-8	Dichlorodifluoromethane	0.0505051	0.0032	0.0505051	U						
74-87-3	Chloromethane	0.0252525	0.0019	0.0252525	U						
75-01-4	Vinyl Chloride	0.010101	0.0011	0.010101	U						
74-83-9	Bromomethane	0.0252525	0.0083	0.0252525	U						
75-00-3	Chloroethane	0.0252525	0.0011	0.0252525	U						
75-69-4	Trichlorofluoromethane	0.0252525	0.002	0.0252525	U						
75-35-4	Dichloroethene[1,1-]	0.00505051	0.0019	0.00505051	U						
67-64-1	Acetone	0.0505051	0.0281	0.0505051	U						
76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	0.0353535	0.0026	0.0353535	U						
75-15-0	Carbon Disulfide	0.0252525	0.0047	0.0252525	U						
75-09-2	Methylene Chloride	0.0505051	0.0064	0.0505051	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49521
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: VOC
Method: SW-846:8260B

Date analyzed: 10/02/2002
% moisture: 12.70
Lab Sample #: 0209522-02A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
156-60-5	Dichloroethene[trans-1,2-]	0.00505051	0.0021	0.00505051	U						
75-34-3	Dichloroethane[1,1-]	0.00505051	0.0007	0.00505051	U						
78-93-3	Butanone[2-]	0.0252525	0.0104	0.0252525	U						
156-59-2	Dichloroethene[cis-1,2-]	0.00505051	0.0015	0.00505051	U						
67-66-3	Chloroform	0.00505051	0.0005	0.00505051	U						
71-55-6	Trichloroethane[1,1,1-]	0.00505051	0.0012	0.00505051	U						
56-23-5	Carbon Tetrachloride	0.00505051	0.0014	0.00505051	U						
107-06-2	Dichloroethane[1,2-]	0.00505051	0.001	0.00505051	U						
71-43-2	Benzene	0.00505051	0.0015	0.00505051	U						
79-01-6	Trichloroethene	0.00505051	0.0019	0.00505051	U						
78-87-5	Dichloropropane[1,2-]	0.00505051	0.0005	0.00505051	U						
74-95-3	Dibromomethane	0.00505051	0.0021	0.00505051	U						
75-27-4	Bromodichloromethane	0.00505051	0.0006	0.00505051	U						
10061-01-5	Dichloropropene[cis-1,3-]	0.00505051	0.0014	0.00505051	U						
108-10-1	Methyl-2-pentanone[4-]	0.0252525	0.0033	0.0252525	U						
108-88-3	Toluene	0.00505051	0.0019	0.00505051	U						
10061-02-6	Dichloropropene[trans-1,3-]	0.00505051	0.0011	0.00505051	U						
79-00-5	Trichloroethane[1,1,2-]	0.00505051	0.0023	0.00505051	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49522
Matrix: SO
Units: MG/KG

03

Dilution factor: 1.00
Request #: 1243S
Suite: VOC
Method: SW-846:8260B

Date analyzed: 10/02/2002
% moisture: 13.40
Lab Sample #: 0209522-03A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
108-67-8	Trimethylbenzene[1,3,5-]	0.00505051	0.0023	0.00505051	U						
95-63-6	Trimethylbenzene[1,2,4-]	0.00505051	0.0027	0.00505051	U						
541-73-1	Dichlorobenzene[1,3-]	0.00505051	0.0026	0.00505051	U						
106-46-7	Dichlorobenzene[1,4-]	0.00505051	0.0023	0.00505051	U						
95-50-1	Dichlorobenzene[1,2-]	0.00505051	0.0016	0.00505051	U						
91-20-3	Naphthalene	0.0252525	0.0027	0.0252525	U						
95-47-6	Xylene[1,2-]	0.00505051	0.0018	0.00505051	U						
75-71-8	Dichlorodifluoromethane	0.0505051	0.0032	0.0505051	U						
74-87-3	Chloromethane	0.0252525	0.0019	0.0252525	U						
75-01-4	Vinyl Chloride	0.010101	0.0011	0.010101	U						
74-83-9	Bromomethane	0.0252525	0.0083	0.0252525	U						
75-00-3	Chloroethane	0.0252525	0.0011	0.0252525	U						
75-69-4	Trichlorofluoromethane	0.0252525	0.002	0.0252525	U						
75-35-4	Dichloroethene[1,1-]	0.00505051	0.0019	0.00505051	U						
67-64-1	Acetone	0.0505051	0.0281	0.0505051	U						
76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	0.0353535	0.0026	0.0353535	U						
75-15-0	Carbon Disulfide	0.0252525	0.0047	0.0252525	U						
75-09-2	Methylene Chloride	0.0505051	0.0064	0.0505051	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49522
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: VOC
Method: SW-846:8260B

Date analyzed: 10/02/2002
% moisture: 13.40
Lab Sample #: 0209522-03A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
156-60-5	Dichloroethene[trans-1,2-]	0.00505051	0.0021	0.00505051	U						
75-34-3	Dichloroethane[1,1-]	0.00505051	0.0007	0.00505051	U						
78-93-3	Butanone[2-]	0.0252525	0.0104	0.0252525	U						
156-59-2	Dichloroethene[cis-1,2-]	0.00505051	0.0015	0.00505051	U						
67-66-3	Chloroform	0.00505051	0.0005	0.00505051	U						
71-55-6	Trichloroethane[1,1,1-]	0.00505051	0.0012	0.00505051	U						
56-23-5	Carbon Tetrachloride	0.00505051	0.0014	0.00505051	U						
107-06-2	Dichloroethane[1,2-]	0.00505051	0.001	0.00505051	U						
71-43-2	Benzene	0.00505051	0.0015	0.00505051	U						
79-01-6	Trichloroethene	0.00505051	0.0019	0.00505051	U						
78-87-5	Dichloropropane[1,2-]	0.00505051	0.0005	0.00505051	U						
74-95-3	Dibromomethane	0.00505051	0.0021	0.00505051	U						
75-27-4	Bromodichloromethane	0.00505051	0.0006	0.00505051	U						
10061-01-5	Dichloropropene[cis-1,3-]	0.00505051	0.0014	0.00505051	U						
108-10-1	Methyl-2-pentanone[4-]	0.0252525	0.0033	0.0252525	U						
108-88-3	Toluene	0.00505051	0.0019	0.00505051	U						
10061-02-6	Dichloropropene[trans-1,3-]	0.00505051	0.0011	0.00505051	U						
79-00-5	Trichloroethane[1,1,2-]	0.00505051	0.0023	0.00505051	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49522
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: VOC
Method: SW-846:8260B

Date analyzed: 10/02/2002
% moisture: 13.40
Lab Sample #: 0209522-03A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
591-78-6	Hexanone[2-]	0.0252525	0.0051	0.0252525	U						
127-18-4	Tetrachloroethene	0.00505051	0.004	0.00505051	U						
106-93-4	Dibromoethane[1,2-]	0.00505051	0.0013	0.00505051	U						
124-48-1	Chlorodibromomethane	0.00505051	0.0015	0.00505051	U						
108-90-7	Chlorobenzene	0.00505051	0.0014	0.00505051	U						
630-20-6	Tetrachloroethane[1,1,1,2-]	0.00505051	0.0008	0.00505051	U						
100-41-4	Ethylbenzene	0.00505051	0.0024	0.00505051	U						
1330-20-7	Xylene (Total)	0.010101	0.0052	0.010101	U						
100-42-5	Styrene	0.00505051	0.0013	0.00505051	U						
75-25-2	Bromoform	0.00505051	0.0037	0.00505051	U						
79-34-5	Tetrachloroethane[1,1,2,2-]	0.00505051	0.0006	0.00505051	U						
96-18-4	Trichloropropane[1,2,3-]	0.00505051	0.0013	0.00505051	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49523
Matrix: SO
Units: MG/KG

04

Dilution factor: 1.00
Request #: 1243S
Suite: VOC
Method: SW-846:8260B

Date analyzed: 10/02/2002
% moisture: 12.70
Lab Sample #: 0209522-04A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
108-67-8	Trimethylbenzene[1,3,5-]	0.00505051	0.0023	0.00505051	U						
95-63-6	Trimethylbenzene[1,2,4-]	0.00505051	0.0027	0.00505051	U						
541-73-1	Dichlorobenzene[1,3-]	0.00505051	0.0026	0.00505051	U						
106-46-7	Dichlorobenzene[1,4-]	0.00505051	0.0023	0.00505051	U						
95-50-1	Dichlorobenzene[1,2-]	0.00505051	0.0016	0.00505051	U						
91-20-3	Naphthalene	0.0252525	0.0027	0.0252525	U						
95-47-6	Xylene[1,2-]	0.00505051	0.0018	0.00505051	U						
75-71-8	Dichlorodifluoromethane	0.0505051	0.0032	0.0505051	U						
74-87-3	Chloromethane	0.0252525	0.0019	0.0252525	U						
75-01-4	Vinyl Chloride	0.010101	0.0011	0.010101	U						
74-83-9	Bromomethane	0.0252525	0.0083	0.0252525	U						
75-00-3	Chloroethane	0.0252525	0.0011	0.0252525	U						
75-69-4	Trichlorofluoromethane	0.0252525	0.002	0.0252525	U						
75-35-4	Dichloroethene[1,1-]	0.00505051	0.0019	0.00505051	U						
67-64-1	Acetone	0.0505051	0.0281	0.0505051	U						
76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	0.0353535	0.0026	0.0353535	U						
75-15-0	Carbon Disulfide	0.0252525	0.0047	0.0252525	U						
75-09-2	Methylene Chloride	0.0505051	0.0064	0.0505051	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49523
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: VOC
Method: SW-846:8260B

Date analyzed: 10/02/2002
% moisture: 12.70
Lab Sample #: 0209522-04A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
156-60-5	Dichloroethene[trans-1,2-]	0.00505051	0.0021	0.00505051	U						
75-34-3	Dichloroethane[1,1-]	0.00505051	0.0007	0.00505051	U						
78-93-3	Butanone[2-]	0.0252525	0.0104	0.0252525	U						
156-59-2	Dichloroethene[cis-1,2-]	0.00505051	0.0015	0.00505051	U						
67-66-3	Chloroform	0.00505051	0.0005	0.00505051	U						
71-55-6	Trichloroethane[1,1,1-]	0.00505051	0.0012	0.00505051	U						
56-23-5	Carbon Tetrachloride	0.00505051	0.0014	0.00505051	U						
107-06-2	Dichloroethane[1,2-]	0.00505051	0.001	0.00505051	U						
71-43-2	Benzene	0.00505051	0.0015	0.00505051	U						
79-01-6	Trichloroethene	0.00505051	0.0019	0.00505051	U						
78-87-5	Dichloropropane[1,2-]	0.00505051	0.0005	0.00505051	U						
74-95-3	Dibromomethane	0.00505051	0.0021	0.00505051	U						
75-27-4	Bromodichloromethane	0.00505051	0.0006	0.00505051	U						
10061-01-5	Dichloropropene[cis-1,3-]	0.00505051	0.0014	0.00505051	U						
108-10-1	Methyl-2-pentanone[4-]	0.0252525	0.0033	0.0252525	U						
108-88-3	Toluene	0.00505051	0.0019	0.00505051	U						
10061-02-6	Dichloropropene[trans-1,3-]	0.00505051	0.0011	0.00505051	U						
79-00-5	Trichloroethane[1,1,2-]	0.00505051	0.0023	0.00505051	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49523
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: VOC
Method: SW-846:8260B

Date analyzed: 10/02/2002
% moisture: 12.70
Lab Sample #: 0209522-04A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
591-78-6	Hexanone[2-]	0.0252525	0.0051	0.0252525	U						
127-18-4	Tetrachloroethene	0.00505051	0.004	0.00505051	U						
106-93-4	Dibromoethane[1,2-]	0.00505051	0.0013	0.00505051	U						
124-48-1	Chlorodibromomethane	0.00505051	0.0015	0.00505051	U						
108-90-7	Chlorobenzene	0.00505051	0.0014	0.00505051	U						
630-20-6	Tetrachloroethane[1,1,1,2-]	0.00505051	0.0008	0.00505051	U						
100-41-4	Ethylbenzene	0.00505051	0.0024	0.00505051	U						
1330-20-7	Xylene (Total)	0.010101	0.0052	0.010101	U						
100-42-5	Styrene	0.00505051	0.0013	0.00505051	U						
75-25-2	Bromoform	0.00505051	0.0037	0.00505051	U						
79-34-5	Tetrachloroethane[1,1,2,2-]	0.00505051	0.0006	0.00505051	U						
96-18-4	Trichloropropane[1,2,3-]	0.00505051	0.0013	0.00505051	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49524 05
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: VOC
Method: SW-846:8260B

Date analyzed: 10/02/2002
% moisture: 7.50
Lab Sample #: 0209522-05A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
108-67-8	Trimethylbenzene[1,3,5-]	0.00505051	0.0023	0.00505051	U						
95-63-6	Trimethylbenzene[1,2,4-]	0.00505051	0.0027	0.00505051	U						
541-73-1	Dichlorobenzene[1,3-]	0.00505051	0.0026	0.00505051	U						
106-46-7	Dichlorobenzene[1,4-]	0.00505051	0.0023	0.00505051	U						
95-50-1	Dichlorobenzene[1,2-]	0.00505051	0.0016	0.00505051	U						
91-20-3	Naphthalene	0.0252525	0.0027	0.0252525	U						
95-47-6	Xylene[1,2-]	0.00505051	0.0018	0.00505051	U						
75-71-8	Dichlorodifluoromethane	0.0505051	0.0032	0.0505051	U						
74-87-3	Chloromethane	0.0252525	0.0019	0.0252525	U						
75-01-4	Vinyl Chloride	0.010101	0.0011	0.010101	U						
74-83-9	Bromomethane	0.0252525	0.0083	0.0252525	U						
75-00-3	Chloroethane	0.0252525	0.0011	0.0252525	U						
75-69-4	Trichlorofluoromethane	0.0252525	0.002	0.0252525	U						
75-35-4	Dichloroethene[1,1-]	0.00505051	0.0019	0.00505051	U						
67-64-1	Acetone	0.111111	0.0281	0.0505051	U	V4					
76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	0.0353535	0.0026	0.0353535	U						
75-15-0	Carbon Disulfide	0.0252525	0.0047	0.0252525	U						
75-09-2	Methylene Chloride	0.0505051	0.0064	0.0505051	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49524
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: VOC
Method: SW-846:8260B

Date analyzed: 10/02/2002
% moisture: 7.50
Lab Sample #: 0209522-05A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
156-60-5	Dichloroethene[trans-1,2-]	0.00505051	0.0021	0.00505051	U						
75-34-3	Dichloroethane[1,1-]	0.00505051	0.0007	0.00505051	U						
78-93-3	Butanone[2-]	0.0252525	0.0104	0.0252525	U						
156-59-2	Dichloroethene[cis-1,2-]	0.00505051	0.0015	0.00505051	U						
67-66-3	Chloroform	0.00505051	0.0005	0.00505051	U						
71-55-6	Trichloroethane[1,1,1-]	0.00505051	0.0012	0.00505051	U						
56-23-5	Carbon Tetrachloride	0.00505051	0.0014	0.00505051	U						
107-06-2	Dichloroethane[1,2-]	0.00505051	0.001	0.00505051	U						
71-43-2	Benzene	0.00505051	0.0015	0.00505051	U						
79-01-6	Trichloroethene	0.00505051	0.0019	0.00505051	U						
78-87-5	Dichloropropane[1,2-]	0.00505051	0.0005	0.00505051	U						
74-95-3	Dibromomethane	0.00505051	0.0021	0.00505051	U						
75-27-4	Bromodichloromethane	0.00505051	0.0006	0.00505051	U						
10061-01-5	Dichloropropene[cis-1,3-]	0.00505051	0.0014	0.00505051	U						
108-10-1	Methyl-2-pentanone[4-]	0.0252525	0.0033	0.0252525	U						
108-88-3	Toluene	0.0111111	0.0019	0.00505051	E U	VB					
10061-02-6	Dichloropropene[trans-1,3-]	0.00505051	0.0011	0.00505051	U						
79-00-5	Trichloroethane[1,1,2-]	0.00505051	0.0023	0.00505051	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49524
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: VOC
Method: SW-846:8260B

Date analyzed: 10/02/2002
% moisture: 7.50
Lab Sample #: 0209522-05A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
591-78-6	Hexanone[2-]	0.0252525	0.0051	0.0252525	U						
127-18-4	Tetrachloroethene	0.00505051	0.004	0.00505051	U						
106-93-4	Dibromoethane[1,2-]	0.00505051	0.0013	0.00505051	U						
124-48-1	Chlorodibromomethane	0.00505051	0.0015	0.00505051	U						
108-90-7	Chlorobenzene	0.00505051	0.0014	0.00505051	U						
630-20-6	Tetrachloroethane[1,1,1,2-]	0.00505051	0.0008	0.00505051	U						
100-41-4	Ethylbenzene	0.00505051	0.0024	0.00505051	U						
1330-20-7	Xylene (Total)	0.010101	0.0052	0.010101	U						
100-42-5	Styrene	0.00505051	0.0013	0.00505051	U						
75-25-2	Bromoform	0.00505051	0.0037	0.00505051	U						
79-34-5	Tetrachloroethane[1,1,2,2-]	0.00505051	0.0006	0.00505051	U						
96-18-4	Trichloropropane[1,2,3-]	0.00505051	0.0013	0.00505051	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49525
Matrix: SO
Units: MG/KG

D6

Dilution factor: 1.00
Request #: 1243S
Suite: VOC
Method: SW-846:8260B

Date analyzed: 10/02/2002
% moisture: 11.20
Lab Sample #: 0209522-06A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
108-67-8	Trimethylbenzene[1,3,5-]	0.00505051	0.0023	0.00505051	U						
95-63-6	Trimethylbenzene[1,2,4-]	0.00505051	0.0027	0.00505051	U						
541-73-1	Dichlorobenzene[1,3-]	0.00505051	0.0026	0.00505051	U						
106-46-7	Dichlorobenzene[1,4-]	0.00505051	0.0023	0.00505051	U						
95-50-1	Dichlorobenzene[1,2-]	0.00505051	0.0016	0.00505051	U						
91-20-3	Naphthalene	0.0252525	0.0027	0.0252525	U						
95-47-6	Xylene[1,2-]	0.00505051	0.0018	0.00505051	U						
75-71-8	Dichlorodifluoromethane	0.0505051	0.0032	0.0505051	U						
74-87-3	Chloromethane	0.0252525	0.0019	0.0252525	U						
75-01-4	Vinyl Chloride	0.010101	0.0011	0.010101	U						
74-83-9	Bromomethane	0.0252525	0.0083	0.0252525	U						
75-00-3	Chloroethane	0.0252525	0.0011	0.0252525	U						
75-69-4	Trichlorofluoromethane	0.0252525	0.002	0.0252525	U						
75-35-4	Dichloroethene[1,1-]	0.00505051	0.0019	0.00505051	U						
67-64-1	Acetone	0.0505051	0.0281	0.0505051	U						
76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	0.0353535	0.0026	0.0353535	U						
75-15-0	Carbon Disulfide	0.0252525	0.0047	0.0252525	U						
75-09-2	Methylene Chloride	0.0505051	0.0064	0.0505051	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49525
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: VOC
Method: SW-846:8260B

Date analyzed: 10/02/2002
% moisture: 11.20
Lab Sample #: 0209522-06A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
156-60-5	Dichloroethene[trans-1,2-]	0.00505051	0.0021	0.00505051	U						
75-34-3	Dichloroethane[1,1-]	0.00505051	0.0007	0.00505051	U						
78-93-3	Butanone[2-]	0.0252525	0.0104	0.0252525	U						
156-59-2	Dichloroethene[cis-1,2-]	0.00505051	0.0015	0.00505051	U						
67-66-3	Chloroform	0.00505051	0.0005	0.00505051	U						
71-55-6	Trichloroethane[1,1,1-]	0.00505051	0.0012	0.00505051	U						
56-23-5	Carbon Tetrachloride	0.00505051	0.0014	0.00505051	U						
107-06-2	Dichloroethane[1,2-]	0.00505051	0.001	0.00505051	U						
71-43-2	Benzene	0.00505051	0.0015	0.00505051	U						
79-01-6	Trichloroethene	0.00505051	0.0019	0.00505051	U						
78-87-5	Dichloropropane[1,2-]	0.00505051	0.0005	0.00505051	U						
74-95-3	Dibromomethane	0.00505051	0.0021	0.00505051	U						
75-27-4	Bromodichloromethane	0.00505051	0.0006	0.00505051	U						
10061-01-5	Dichloropropene[cis-1,3-]	0.00505051	0.0014	0.00505051	U						
108-10-1	Methyl-2-pentanone[4-]	0.0252525	0.0033	0.0252525	U						
108-88-3	Toluene	0.00808081	0.0019	0.00505051	E U, VH						
10061-02-6	Dichloropropene[trans-1,3-]	0.00505051	0.0011	0.00505051	U						
79-00-5	Trichloroethane[1,1,2-]	0.00505051	0.0023	0.00505051	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49525
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: VOC
Method: SW-846:8260B

Date analyzed: 10/02/2002
% moisture: 11.20
Lab Sample #: 0209522-06A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
591-78-6	Hexanone[2-]	0.0252525	0.0051	0.0252525	U						
127-18-4	Tetrachloroethene	0.00505051	0.004	0.00505051	U						
106-93-4	Dibromoethane[1,2-]	0.00505051	0.0013	0.00505051	U						
124-48-1	Chlorodibromomethane	0.00505051	0.0015	0.00505051	U						
108-90-7	Chlorobenzene	0.00505051	0.0014	0.00505051	U						
630-20-6	Tetrachloroethane[1,1,1,2-]	0.00505051	0.0008	0.00505051	U						
100-41-4	Ethylbenzene	0.00505051	0.0024	0.00505051	U						
1330-20-7	Xylene (Total)	0.010101	0.0052	0.010101	U						
100-42-5	Styrene	0.00505051	0.0013	0.00505051	U						
75-25-2	Bromoform	0.00505051	0.0037	0.00505051	U						
79-34-5	Tetrachloroethane[1,1,2,2-]	0.00505051	0.0006	0.00505051	U						
96-18-4	Trichloropropane[1,2,3-]	0.00505051	0.0013	0.00505051	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49526
Matrix: SO
Units: MG/KG

07

Dilution factor: 1.00
Request #: 1243S
Suite: VOC
Method: SW-846:8260B

Date analyzed: 10/02/2002
% moisture: 16.10
Lab Sample #: 0209522-07A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
108-67-8	Trimethylbenzene[1,3,5-]	0.00505051	0.0023	0.00505051	U						
95-63-6	Trimethylbenzene[1,2,4-]	0.00505051	0.0027	0.00505051	U						
541-73-1	Dichlorobenzene[1,3-]	0.00505051	0.0026	0.00505051	U						
106-46-7	Dichlorobenzene[1,4-]	0.00505051	0.0023	0.00505051	U						
95-50-1	Dichlorobenzene[1,2-]	0.00505051	0.0016	0.00505051	U						
91-20-3	Naphthalene	0.0252525	0.0027	0.0252525	U						
95-47-6	Xylene[1,2-]	0.00505051	0.0018	0.00505051	U						
75-71-8	Dichlorodifluoromethane	0.0505051	0.0032	0.0505051	U						
74-87-3	Chloromethane	0.0252525	0.0019	0.0252525	U						
75-01-4	Vinyl Chloride	0.010101	0.0011	0.010101	U						
74-83-9	Bromomethane	0.0252525	0.0083	0.0252525	U						
75-00-3	Chloroethane	0.0252525	0.0011	0.0252525	U						
75-69-4	Trichlorofluoromethane	0.0252525	0.002	0.0252525	U						
75-35-4	Dichloroethene[1,1-]	0.00505051	0.0019	0.00505051	U						
67-64-1	Acetone	0.0505051	0.0281	0.0505051	U						
76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	0.0353535	0.0026	0.0353535	U						
75-15-0	Carbon Disulfide	0.0252525	0.0047	0.0252525	U						
75-09-2	Methylene Chloride	0.0505051	0.0064	0.0505051	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49526
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: VOC
Method: SW-846:8260B

Date analyzed: 10/02/2002
% moisture: 16.10
Lab Sample #: 0209522-07A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
156-60-5	Dichloroethene[trans-1,2-]	0.00505051	0.0021	0.00505051	U						
75-34-3	Dichloroethane[1,1-]	0.00505051	0.0007	0.00505051	U						
78-93-3	Butanone[2-]	0.0252525	0.0104	0.0252525	U						
156-59-2	Dichloroethene[cis-1,2-]	0.00505051	0.0015	0.00505051	U						
67-66-3	Chloroform	0.00505051	0.0005	0.00505051	U						
71-55-6	Trichloroethane[1,1,1-]	0.00505051	0.0012	0.00505051	U						
56-23-5	Carbon Tetrachloride	0.00505051	0.0014	0.00505051	U						
107-06-2	Dichloroethane[1,2-]	0.00505051	0.001	0.00505051	U						
71-43-2	Benzene	0.00505051	0.0015	0.00505051	U						
79-01-6	Trichloroethene	0.00505051	0.0019	0.00505051	U						
78-87-5	Dichloropropane[1,2-]	0.00505051	0.0005	0.00505051	U						
74-95-3	Dibromomethane	0.00505051	0.0021	0.00505051	U						
75-27-4	Bromodichloromethane	0.00505051	0.0006	0.00505051	U						
10061-01-5	Dichloropropene[cis-1,3-]	0.00505051	0.0014	0.00505051	U						
108-10-1	Methyl-2-pentanone[4-]	0.0252525	0.0033	0.0252525	U						
108-88-3	Toluene	0.00808081	0.0019	0.00505051	E U	VH					
10061-02-6	Dichloropropene[trans-1,3-]	0.00505051	0.0011	0.00505051	U						
79-00-5	Trichloroethane[1,1,2-]	0.00505051	0.0023	0.00505051	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49527
Matrix: SO
Units: MG/KG

08

Dilution factor: 1.00
Request #: 1243S
Suite: VOC
Method: SW-846:8260B

Date analyzed: 10/02/2002
% moisture: 16.10
Lab Sample #: 0209522-08A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
108-67-8	Trimethylbenzene[1,3,5-]	0.00505051	0.0023	0.00505051	U						
95-63-6	Trimethylbenzene[1,2,4-]	0.00505051	0.0027	0.00505051	U						
541-73-1	Dichlorobenzene[1,3-]	0.00505051	0.0026	0.00505051	U						
106-46-7	Dichlorobenzene[1,4-]	0.00505051	0.0023	0.00505051	U						
95-50-1	Dichlorobenzene[1,2-]	0.00505051	0.0016	0.00505051	U						
91-20-3	Naphthalene	0.0252525	0.0027	0.0252525	U						
95-47-6	Xylene[1,2-]	0.00505051	0.0018	0.00505051	U						
75-71-8	Dichlorodifluoromethane	0.0505051	0.0032	0.0505051	U						
74-87-3	Chloromethane	0.0252525	0.0019	0.0252525	U						
75-01-4	Vinyl Chloride	0.010101	0.0011	0.010101	U						
74-83-9	Bromomethane	0.0252525	0.0083	0.0252525	U						
75-00-3	Chloroethane	0.0252525	0.0011	0.0252525	U						
75-69-4	Trichlorofluoromethane	0.0252525	0.002	0.0252525	U						
75-35-4	Dichloroethene[1,1-]	0.00505051	0.0019	0.00505051	U						
67-64-1	Acetone	0.0505051	0.0281	0.0505051	U						
76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	0.0353535	0.0026	0.0353535	U						
75-15-0	Carbon Disulfide	0.0252525	0.0047	0.0252525	U						
75-09-2	Methylene Chloride	0.0505051	0.0064	0.0505051	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49527
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: VOC
Method: SW-846:8260B

Date analyzed: 10/02/2002
% moisture: 16.10
Lab Sample #: 0209522-08A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
156-60-5	Dichloroethene[trans-1,2-]	0.00505051	0.0021	0.00505051	U						
75-34-3	Dichloroethane[1,1-]	0.00505051	0.0007	0.00505051	U						
78-93-3	Butanone[2-]	0.0252525	0.0104	0.0252525	U						
156-59-2	Dichloroethene[cis-1,2-]	0.00505051	0.0015	0.00505051	U						
67-66-3	Chloroform	0.00505051	0.0005	0.00505051	U						
71-55-6	Trichloroethane[1,1,1-]	0.00505051	0.0012	0.00505051	U						
56-23-5	Carbon Tetrachloride	0.00505051	0.0014	0.00505051	U						
107-06-2	Dichloroethane[1,2-]	0.00505051	0.001	0.00505051	U						
71-43-2	Benzene	0.00505051	0.0015	0.00505051	U						
79-01-6	Trichloroethene	0.00505051	0.0019	0.00505051	U						
78-87-5	Dichloropropane[1,2-]	0.00505051	0.0005	0.00505051	U						
74-95-3	Dibromomethane	0.00505051	0.0021	0.00505051	U						
75-27-4	Bromodichloromethane	0.00505051	0.0006	0.00505051	U						
10061-01-5	Dichloropropene[cis-1,3-]	0.00505051	0.0014	0.00505051	U						
108-10-1	Methyl-2-pentanone[4-]	0.0252525	0.0033	0.0252525	U						
108-88-3	Toluene	0.00909091	0.0019	0.00505051	E	U, VH					
10061-02-6	Dichloropropene[trans-1,3-]	0.00505051	0.0011	0.00505051	U						
79-00-5	Trichloroethane[1,1,2-]	0.00505051	0.0023	0.00505051	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49527
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: VOC
Method: SW-846:8260B

Date analyzed: 10/02/2002
% moisture: 16.10
Lab Sample #: 0209522-08A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
591-78-6	Hexanone[2-]	0.0252525	0.0051	0.0252525	U						
127-18-4	Tetrachloroethene	0.00505051	0.004	0.00505051	U						
106-93-4	Dibromoethane[1,2-]	0.00505051	0.0013	0.00505051	U						
124-48-1	Chlorodibromomethane	0.00505051	0.0015	0.00505051	U						
108-90-7	Chlorobenzene	0.00505051	0.0014	0.00505051	U						
630-20-6	Tetrachloroethane[1,1,1,2-]	0.00505051	0.0008	0.00505051	U						
100-41-4	Ethylbenzene	0.00505051	0.0024	0.00505051	U						
1330-20-7	Xylene (Total)	0.010101	0.0052	0.010101	U						
100-42-5	Styrene	0.00505051	0.0013	0.00505051	U						
75-25-2	Bromoform	0.00505051	0.0037	0.00505051	U						
79-34-5	Tetrachloroethane[1,1,2,2-]	0.00505051	0.0006	0.00505051	U						
96-18-4	Trichloropropane[1,2,3-]	0.00505051	0.0013	0.00505051	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49528
Matrix: SO
Units: MG/KG

09

Dilution factor: 1.00
Request #: 1243S
Suite: VOC
Method: SW-846:8260B

Date analyzed: 10/02/2002
% moisture: 15.90
Lab Sample #: 0209522-09A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
108-67-8	Trimethylbenzene[1,3,5-]	0.00505051	0.0023	0.00505051	U						
95-63-6	Trimethylbenzene[1,2,4-]	0.00505051	0.0027	0.00505051	U						
541-73-1	Dichlorobenzene[1,3-]	0.00505051	0.0026	0.00505051	U						
106-46-7	Dichlorobenzene[1,4-]	0.00505051	0.0023	0.00505051	U						
95-50-1	Dichlorobenzene[1,2-]	0.00505051	0.0016	0.00505051	U						
91-20-3	Naphthalene	0.0252525	0.0027	0.0252525	U						
95-47-6	Xylene[1,2-]	0.00505051	0.0018	0.00505051	U						
75-71-8	Dichlorodifluoromethane	0.0505051	0.0032	0.0505051	U						
74-87-3	Chloromethane	0.0252525	0.0019	0.0252525	U						
75-01-4	Vinyl Chloride	0.010101	0.0011	0.010101	U						
74-83-9	Bromomethane	0.0252525	0.0083	0.0252525	U						
75-00-3	Chloroethane	0.0252525	0.0011	0.0252525	U						
75-69-4	Trichlorofluoromethane	0.0252525	0.002	0.0252525	U						
75-35-4	Dichloroethene[1,1-]	0.00505051	0.0019	0.00505051	U						
67-64-1	Acetone	0.0505051	0.0281	0.0505051	U						
76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	0.0353535	0.0026	0.0353535	U						
75-15-0	Carbon Disulfide	0.0252525	0.0047	0.0252525	U						
75-09-2	Methylene Chloride	0.0505051	0.0064	0.0505051	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49528
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: VOC
Method: SW-846:8260B

Date analyzed: 10/02/2002
% moisture: 15.90
Lab Sample #: 0209522-09A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
156-60-5	Dichloroethene[trans-1,2-]	0.00505051	0.0021	0.00505051	U						
75-34-3	Dichloroethane[1,1-]	0.00505051	0.0007	0.00505051	U						
78-93-3	Butanone[2-]	0.0252525	0.0104	0.0252525	U						
156-59-2	Dichloroethene[cis-1,2-]	0.00505051	0.0015	0.00505051	U						
67-66-3	Chloroform	0.00505051	0.0005	0.00505051	U						
71-55-6	Trichloroethane[1,1,1-]	0.00505051	0.0012	0.00505051	U						
56-23-5	Carbon Tetrachloride	0.00505051	0.0014	0.00505051	U						
107-06-2	Dichloroethane[1,2-]	0.00505051	0.001	0.00505051	U						
71-43-2	Benzene	0.00505051	0.0015	0.00505051	U						
79-01-6	Trichloroethene	0.00505051	0.0019	0.00505051	U						
78-87-5	Dichloropropane[1,2-]	0.00505051	0.0005	0.00505051	U						
74-95-3	Dibromomethane	0.00505051	0.0021	0.00505051	U						
75-27-4	Bromodichloromethane	0.00505051	0.0006	0.00505051	U						
10061-01-5	Dichloropropene[cis-1,3-]	0.00505051	0.0014	0.00505051	U						
108-10-1	Methyl-2-pentanone[4-]	0.0252525	0.0033	0.0252525	U						
108-88-3	Toluene	0.00909091	0.0019	0.00505051	E	U, UJ					
10061-02-6	Dichloropropene[trans-1,3-]	0.00505051	0.0011	0.00505051	U						
79-00-5	Trichloroethane[1,1,2-]	0.00505051	0.0023	0.00505051	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49528
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: VOC
Method: SW-846:8260B

Date analyzed: 10/02/2002
% moisture: 15.90
Lab Sample #: 0209522-09A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
591-78-6	Hexanone[2-]	0.0252525	0.0051	0.0252525	U						
127-18-4	Tetrachloroethene	0.00505051	0.004	0.00505051	U						
106-93-4	Dibromoethane[1,2-]	0.00505051	0.0013	0.00505051	U						
124-48-1	Chlorodibromomethane	0.00505051	0.0015	0.00505051	U						
108-90-7	Chlorobenzene	0.00505051	0.0014	0.00505051	U						
630-20-6	Tetrachloroethane[1,1,1,2-]	0.00505051	0.0008	0.00505051	U						
100-41-4.	Ethylbenzene	0.00505051	0.0024	0.00505051	U						
1330-20-7	Xylene (Total)	0.010101	0.0052	0.010101	U						
100-42-5	Styrene	0.00505051	0.0013	0.00505051	U						
75-25-2	Bromoform	0.00505051	0.0037	0.00505051	U						
79-34-5	Tetrachloroethane[1,1,2,2-]	0.00505051	0.0006	0.00505051	U						
96-18-4	Trichloropropane[1,2,3-]	0.00505051	0.0013	0.00505051	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49529
Matrix: SO
Units: MG/KG

10

Dilution factor: 1.00
Request #: 1243S
Suite: VOC
Method: SW-846:8260B

Date analyzed: 10/02/2002
% moisture: 14.20
Lab Sample #: 0209522-10A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
108-67-8	Trimethylbenzene[1,3,5-]	0.00505051	0.0023	0.00505051	U						
95-63-6	Trimethylbenzene[1,2,4-]	0.00505051	0.0027	0.00505051	U						
541-73-1	Dichlorobenzene[1,3-]	0.00505051	0.0026	0.00505051	U						
106-46-7	Dichlorobenzene[1,4-]	0.00505051	0.0023	0.00505051	U						
95-50-1	Dichlorobenzene[1,2-]	0.00505051	0.0016	0.00505051	U						
91-20-3	Naphthalene	0.0252525	0.0027	0.0252525	U						
95-47-6	Xylene[1,2-]	0.00505051	0.0018	0.00505051	U						
75-71-8	Dichlorodifluoromethane	0.0505051	0.0032	0.0505051	U						
74-87-3	Chloromethane	0.0252525	0.0019	0.0252525	U						
75-01-4	Vinyl Chloride	0.010101	0.0011	0.010101	U						
74-83-9	Bromomethane	0.0252525	0.0083	0.0252525	U						
75-00-3	Chloroethane	0.0252525	0.0011	0.0252525	U						
75-69-4	Trichlorofluoromethane	0.0252525	0.002	0.0252525	U						
75-35-4	Dichloroethene[1,1-]	0.00505051	0.0019	0.00505051	U						
67-64-1	Acetone	0.0505051	0.0281	0.0505051	U						
76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	0.0353535	0.0026	0.0353535	U						
75-15-0	Carbon Disulfide	0.0252525	0.0047	0.0252525	U						
75-09-2	Methylene Chloride	0.0505051	0.0064	0.0505051	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49529
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: VOC
Method: SW-846:8260B

Date analyzed: 10/02/2002
% moisture: 14.20
Lab Sample #: 0209522-10A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
156-60-5	Dichloroethene[trans-1,2-]	0.00505051	0.0021	0.00505051	U						
75-34-3	Dichloroethane[1,1-]	0.00505051	0.0007	0.00505051	U						
78-93-3	Butanone[2-]	0.0252525	0.0104	0.0252525	U						
156-59-2	Dichloroethene[cis-1,2-]	0.00505051	0.0015	0.00505051	U						
67-66-3	Chloroform	0.00505051	0.0005	0.00505051	U						
71-55-6	Trichloroethane[1,1,1-]	0.00505051	0.0012	0.00505051	U						
56-23-5	Carbon Tetrachloride	0.00505051	0.0014	0.00505051	U						
107-06-2	Dichloroethane[1,2-]	0.00505051	0.001	0.00505051	U						
71-43-2	Benzene	0.00505051	0.0015	0.00505051	U						
79-01-6	Trichloroethene	0.00505051	0.0019	0.00505051	U						
78-87-5	Dichloropropane[1,2-]	0.00505051	0.0005	0.00505051	U						
74-95-3	Dibromomethane	0.00505051	0.0021	0.00505051	U						
75-27-4	Bromodichloromethane	0.00505051	0.0006	0.00505051	U						
10061-01-5	Dichloropropene[cis-1,3-]	0.00505051	0.0014	0.00505051	U						
108-10-1	Methyl-2-pentanone[4-]	0.0252525	0.0033	0.0252525	U						
108-88-3	Toluene	0.0171717	0.0019	0.00505051	E U	VK					
10061-02-6	Dichloropropene[trans-1,3-]	0.00505051	0.0011	0.00505051	U						
79-00-5	Trichloroethane[1,1,2-]	0.00505051	0.0023	0.00505051	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49529
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: VOC
Method: SW-846:8260B

Date analyzed: 10/02/2002
% moisture: 14.20
Lab Sample #: 0209522-10A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
591-78-6	Hexanone[2-]	0.0252525	0.0051	0.0252525	U						
127-18-4	Tetrachloroethene	0.00505051	0.004	0.00505051	U						
106-93-4	Dibromoethane[1,2-]	0.00505051	0.0013	0.00505051	U						
124-48-1	Chlorodibromomethane	0.00505051	0.0015	0.00505051	U						
108-90-7	Chlorobenzene	0.00505051	0.0014	0.00505051	U						
630-20-6	Tetrachloroethane[1,1,1,2-]	0.00505051	0.0008	0.00505051	U						
100-41-4	Ethylbenzene	0.00505051	0.0024	0.00505051	U						
1330-20-7	Xylene (Total)	0.010101	0.0052	0.010101	U						
100-42-5	Styrene	0.00505051	0.0013	0.00505051	U						
75-25-2	Bromoform	0.00505051	0.0037	0.00505051	U						
79-34-5	Tetrachloroethane[1,1,2,2-]	0.00505051	0.0006	0.00505051	U						
96-18-4	Trichloropropane[1,2,3-]	0.00505051	0.0013	0.00505051	U						

1775-1

9524-01A

Los Alamos National Laboratory
Organic Data Reporting Form 1

Dry weight

Lab: AAL

Sample #: RE48-02-49520

Matrix: SO

Units: MG/KG

01

Dilution factor: 1.00

Request #: 1243S

Suite: SVOC

Method: SW-846:8270C

Date analyzed: 10/15/2002

% moisture: 14.90

Lab Sample #: 0209524-01A

Date collected: 09/23/2002

QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
541-73-1	Dichlorobenzene[1,3-]	0.0352526	0.0106	0.0352526	U						
106-46-7	Dichlorobenzene[1,4-]	0.0352526	0.0103	0.0352526	U						
95-50-1	Dichlorobenzene[1,2-]	0.0352526	0.0079	0.0352526	U						
120-82-1	Trichlorobenzene[1,2,4-]	0.0352526	0.0071	0.0352526	U						
87-68-3	Hexachlorobutadiene	0.0352526	0.0094	0.0352526	U						
62-75-9	Nitrosodimethylamine[N-]	0.352526	0.0665	0.352526	U						
110-86-1	Pyridine	0.352526	0.1463	0.352526	U						
62-53-3	Aniline	0.352526	0.0491	0.352526	U						
108-95-2	Phenol	0.352526	0.0086	0.352526	U						
111-44-4	Bis(2-chloroethyl)ether	0.0352526	0.009	0.0352526	U						
95-57-8	Chlorophenol[2-]	0.0352526	0.0068	0.0352526	U						
100-51-6	Benzyl Alcohol	1.76263	0.005	1.76263	U						
108-60-1	Oxybis(1-chloropropane)[2,2'-]	0.0352526	0.0102	0.0352526	U						
86-30-6	Nitrosodiphenylamine[N-]	0.0352526	0.0106	0.0352526	U						
95-48-7	Methylphenol[2-]	0.0352526	0.0083	0.0352526	U						
621-64-7	Nitroso-di-n-propylamine[N-]	0.0352526	0.0089	0.0352526	U						
67-72-1	Hexachloroethane	0.0352526	0.0076	0.0352526	U						
98-95-3	Nitrobenzene	0.0352526	0.0103	0.0352526	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49520
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: SVOC
Method: SW-846:8270C

Date analyzed: 10/15/2002
% moisture: 14.90
Lab Sample #: 0209524-01A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
78-59-1	Isophorone	0.0352526	0.0065	0.0352526	U						
88-75-5	Nitrophenol[2-]	0.352526	0.0087	0.352526	U						
105-67-9	Dimethylphenol[2,4-]	0.0352526	0.0078	0.0352526	U						
111-91-1	Bis(2-chloroethoxy)methane	0.0352526	0.0081	0.0352526	U						
120-83-2	Dichlorophenol[2,4-]	0.352526	0.0073	0.352526	U						
65-85-0	Benzoic Acid	3.52526	0.6368	3.52526	U						
91-20-3	Naphthalene	0.0352526	0.0082	0.0352526	U						
106-47-8	Chloroaniline[4-]	0.352526	0.0092	0.352526	U						
59-50-7	Chloro-3-methylphenol[4-]	0.352526	0.0088	0.352526	U						
77-47-4	Hexachlorocyclopentadiene	1.76263	0.0117	1.76263	U						
88-06-2	Trichlorophenol[2,4,6-]	0.352526	0.0091	0.352526	U						
95-95-4	Trichlorophenol[2,4,5-]	0.352526	0.0063	0.352526	U						
91-58-7	Chloronaphthalene[2-]	0.0352526	0.0085	0.0352526	U						
88-74-4	Nitroaniline[2-]	0.352526	0.0086	0.352526	U						
99-09-2	Nitroaniline[3-]	0.352526	0.0053	0.352526	U						
131-11-3	Dimethyl Phthalate	0.0352526	0.0076	0.0352526	U						
606-20-2	Dinitrotoluene[2,6-]	0.352526	0.0265	0.352526	U						
208-96-8	Acenaphthylene	0.0352526	0.008	0.0352526	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49520
Matrix: SO
Units: MG/KG

0209524-01A

Dilution factor: 1.00
Request #: 1243S
Suite: SVOC
Method: SW-846:8270C

Date analyzed: 10/15/2002
% moisture: 14.90
Lab Sample #: 0209524-01A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
83-32-9	Acenaphthene	0.0352526	0.0101	0.0352526	U						
51-28-5	Dinitrophenol[2,4-]	0.787309	0.18	0.787309	U						
132-64-9	Dibenzofuran	0.0352526	0.0093	0.0352526	U						
121-14-2	Dinitrotoluene[2,4-]	0.352526	0.0077	0.352526	U						
84-66-2	Diethylphthalate	0.0352526	0.0082	0.0352526	U						
100-02-7	Nitrophenol[4-]	0.705053	0.0447	0.705053	U						
86-73-7	Fluorene	0.0352526	0.0074	0.0352526	U						
7005-72-3	Chlorophenyl-phenyl[4-] Ether	0.0352526	0.0132	0.0352526	U						
534-52-1	Dinitro-2-methylphenol[4,6-]	0.352526	0.0287	0.352526	U						
100-01-6	Nitroaniline[4-]	0.352526	0.008	0.352526	U						
101-55-3	Bromophenyl-phenylether[4-]	0.0352526	0.045	0.0352526	U						
118-74-1	Hexachlorobenzene	0.0352526	0.0103	0.0352526	U						
87-86-5	Pentachlorophenol	0.352526	0.0356	0.352526	U						
85-01-8	Phenanthrene	0.0587544	0.0106	0.0352526							
120-12-7	Anthracene	0.0352526	0.0089	0.0352526	U						
84-74-2	Di-n-butylphthalate	0.352526	0.0092	0.352526	U						
206-44-0	Fluoranthene	0.0658049	0.0105	0.0352526							
129-00-0	Pyrene	0.0599295	0.009	0.0352526							

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49520
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: SVOC
Method: SW-846:8270C

Date analyzed: 10/15/2002
% moisture: 14.90
Lab Sample #: 0209524-01A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
85-68-7	Butylbenzylphthalate	0.0352526	0.0095	0.0352526	U						
56-55-3	Benzo(a)anthracene	0.0376028	0.0108	0.0352526	U	SVB					
91-94-1	Dichlorobenzidine[3,3'-]	0.352526	0.3004	0.352526	U						
218-01-9	Chrysene	0.0352526	0.0095	0.0352526	U						
117-81-7	Bis(2-ethylhexyl)phthalate	0.352526	0.0099	0.352526	U						
117-84-0	Di-n-octylphthalate	0.352526	0.0098	0.352526	U						
50-32-8	Benzo(a)pyrene	0.0352526	0.0101	0.0352526	U						
53-70-3	Dibenz(a,h)anthracene	0.352526	0.0108	0.352526	U						
193-39-5	Indeno(1,2,3-cd)pyrene	0.352526	0.0107	0.352526	U						
191-24-2	Benzo(g,h,i)perylene	0.352526	0.007	0.352526	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49521
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1244S
Suite: SVOC
Method: SW-846:8270C

Date analyzed: 10/15/2002
% moisture: 18.60
Lab Sample #: 0209526-01A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
541-73-1	Dichlorobenzene[1,3-]	0.0372273	0.0106	0.0372273	U						
106-46-7	Dichlorobenzene[1,4-]	0.0372273	0.0103	0.0372273	U						
95-50-1	Dichlorobenzene[1,2-]	0.0372273	0.0079	0.0372273	U						
120-82-1	Trichlorobenzene[1,2,4-]	0.0372273	0.0071	0.0372273	U						
87-68-3	Hexachlorobutadiene	0.0372273	0.0094	0.0372273	U						
62-75-9	Nitrosodimethylamine[N-]	0.372273	0.0665	0.372273	U						
110-86-1	Pyridine	0.372273	0.1463	0.372273	U						
62-53-3	Aniline	0.372273	0.0491	0.372273	U						
108-95-2	Phenol	0.372273	0.0086	0.372273	U						
111-44-4	Bis(2-chloroethyl)ether	0.0372273	0.009	0.0372273	U						
95-57-8	Chlorophenol[2-]	0.0372273	0.0068	0.0372273	U						
100-51-6	Benzyl Alcohol	1.86137	0.005	1.86137	U						
108-60-1	Oxybis(1-chloropropane)[2,2'-]	0.0372273	0.0102	0.0372273	U						
86-30-6	Nitrosodiphenylamine[N-]	0.0372273	0.0106	0.0372273	U						
95-48-7	Methylphenol[2-]	0.198546	0.0083	0.0372273							
621-64-7	Nitroso-di-n-propylamine[N-]	0.0372273	0.0089	0.0372273	U						
67-72-1	Hexachloroethane	0.0372273	0.0076	0.0372273	U						
98-95-3	Nitrobenzene	0.0372273	0.0103	0.0372273	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49521
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1244S
Suite: SVOC
Method: SW-846:8270C

Date analyzed: 10/15/2002
% moisture: 18.60
Lab Sample #: 0209526-01A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
78-59-1	Isophorone	0.0372273	0.0065	0.0372273	U						
88-75-5	Nitrophenol[2-]	0.372273	0.0087	0.372273	U						
105-67-9	Dimethylphenol[2,4-]	0.310228	0.0078	0.0372273							
111-91-1	Bis(2-chloroethoxy)methane	0.0372273	0.0081	0.0372273	U						
120-83-2	Dichlorophenol[2,4-]	0.372273	0.0073	0.372273	U						
65-85-0	Benzoic Acid	3.72273	0.6368	3.72273	U						
91-20-3	Naphthalene	13.65	0.0082	0.0372273	E						
106-47-8	Chloroaniline[4-]	0.372273	0.0092	0.372273	U						
59-50-7	Chloro-3-methylphenol[4-]	0.372273	0.0088	0.372273	U						
77-47-4	Hexachlorocyclopentadiene	1.86137	0.0117	1.86137	U						
88-06-2	Trichlorophenol[2,4,6-]	0.372273	0.0091	0.372273	U						
95-95-4	Trichlorophenol[2,4,5-]	0.372273	0.0063	0.372273	U						
91-58-7	Chloronaphthalene[2-]	0.0372273	0.0085	0.0372273	U						
88-74-4	Nitroaniline[2-]	0.372273	0.0086	0.372273	U						
99-09-2	Nitroaniline[3-]	0.372273	0.0053	0.372273	U						
131-11-3	Dimethyl Phthalate	0.0372273	0.0076	0.0372273	U						
606-20-2	Dinitrotoluene[2,6-]	0.372273	0.0265	0.372273	U						
208-96-8	Acenaphthylene	0.0372273	0.008	0.0372273	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49521
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1244S
Suite: SVOC
Method: SW-846:8270C

Date analyzed: 10/15/2002
% moisture: 18.60
Lab Sample #: 0209526-01A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
83-32-9	Acenaphthene	10.6718	0.0101	0.0372273	E						
51-28-5	Dinitrophenol[2,4-]	0.83141	0.18	0.83141	U						
132-64-9	Dibenzofuran	5.33591	0.0093	0.0372273							
121-14-2	Dinitrotoluene[2,4-]	0.372273	0.0077	0.372273	U						
84-66-2	Diethylphthalate	0.0372273	0.0082	0.0372273	U						
100-02-7	Nitrophenol[4-]	0.744546	0.0447	0.744546	U						
86-73-7	Fluorene	9.30683	0.0074	0.0372273	E						
7005-72-3	Chlorophenyl-phenyl[4-] Ether	0.0372273	0.0132	0.0372273	U						
534-52-1	Dinitro-2-methylphenol[4,6-]	0.372273	0.0287	0.372273	U						
100-01-6	Nitroaniline[4-]	0.372273	0.008	0.372273	U						
101-55-3	Bromophenyl-phenylether[4-]	0.0372273	0.045	0.0372273	U						
118-74-1	Hexachlorobenzene	0.0372273	0.0103	0.0372273	U						
87-86-5	Pentachlorophenol	0.372273	0.0356	0.372273	U						
85-01-8	Phenanthrene	37.2273	0.0106	0.0372273	E						
120-12-7	Anthracene	11.0441	0.0089	0.0372273	E						
84-74-2	Di-n-butylphthalate	0.372273	0.0092	0.372273	U						
206-44-0	Fluoranthene	26.0591	0.0105	0.0372273	E						
129-00-0	Pyrene	34.7455	0.009	0.0372273	E						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49521
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1244S
Suite: SVOC
Method: SW-846:8270C

Date analyzed: 10/15/2002
% moisture: 18.60
Lab Sample #: 0209526-01A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
85-68-7	Butylbenzylphthalate	0.0372273	0.0095	0.0372273	U						
56-55-3	Benzo(a)anthracene	17.3727	0.0108	0.0372273	E						
91-94-1	Dichlorobenzidine[3,3'-]	0.372273	0.3004	0.372273	U						
218-01-9	Chrysene	11.7886	0.0095	0.0372273	E						
117-81-7	Bis(2-ethylhexyl)phthalate	0.372273	0.0099	0.372273	U						
117-84-0	Di-n-octylphthalate	0.372273	0.0098	0.372273	U						
50-32-8	Benzo(a)pyrene	10.5477	0.0101	0.0372273	E						
53-70-3	Dibenz(a,h)anthracene	9.6791	0.0108	0.372273	E						
193-39-5	Indeno(1,2,3-cd)pyrene	1.01755	0.0107	0.372273	E						
191-24-2	Benzo(g,h,i)perylene	3.22637	0.007	0.372273	E						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49522
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: SVOC
Method: SW-846:8270C

Date analyzed: 10/15/2002
% moisture: 15.70
Lab Sample #: 0209524-02A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
541-73-1	Dichlorobenzene[1,3-]	0.0355872	0.0106	0.0355872	U						
106-46-7	Dichlorobenzene[1,4-]	0.0355872	0.0103	0.0355872	U						
95-50-1	Dichlorobenzene[1,2-]	0.0355872	0.0079	0.0355872	U						
120-82-1	Trichlorobenzene[1,2,4-]	0.0355872	0.0071	0.0355872	U						
87-68-3	Hexachlorobutadiene	0.0355872	0.0094	0.0355872	U						
62-75-9	Nitrosodimethylamine[N-]	0.355872	0.0665	0.355872	U						
110-86-1	Pyridine	0.355872	0.1463	0.355872	U						
62-53-3	Aniline	0.355872	0.0491	0.355872	U						
108-95-2	Phenol	0.355872	0.0086	0.355872	U						
111-44-4	Bis(2-chloroethyl)ether	0.0355872	0.009	0.0355872	U						
95-57-8	Chlorophenol[2-]	0.0355872	0.0068	0.0355872	U						
100-51-6	Benzyl Alcohol	1.77936	0.005	1.77936	U						
108-60-1	Oxybis(1-chloropropane)[2,2'-]	0.0355872	0.0102	0.0355872	U						
86-30-6	Nitrosodiphenylamine[N-]	0.0355872	0.0106	0.0355872	U						
95-48-7	Methylphenol[2-]	0.0355872	0.0083	0.0355872	U						
621-64-7	Nitroso-di-n-propylamine[N-]	0.0355872	0.0089	0.0355872	U						
67-72-1	Hexachloroethane	0.0355872	0.0076	0.0355872	U						
98-95-3	Nitrobenzene	0.0355872	0.0103	0.0355872	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49522
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: SVOC
Method: SW-846:8270C

Date analyzed: 10/15/2002
% moisture: 15.70
Lab Sample #: 0209524-02A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
78-59-1	Isophorone	0.0355872	0.0065	0.0355872	U						
88-75-5	Nitrophenol[2-]	0.355872	0.0087	0.355872	U						
105-67-9	Dimethylphenol[2,4-]	0.0355872	0.0078	0.0355872	U						
111-91-1	Bis(2-chloroethoxy)methane	0.0355872	0.0081	0.0355872	U						
120-83-2	Dichlorophenol[2,4-]	0.355872	0.0073	0.355872	U						
65-85-0	Benzoic Acid	3.55872	0.6368	3.55872	U						
91-20-3	Naphthalene	0.0355872	0.0082	0.0355872	U						
106-47-8	Chloroaniline[4-]	0.355872	0.0092	0.355872	U						
59-50-7	Chloro-3-methylphenol[4-]	0.355872	0.0088	0.355872	U						
77-47-4	Hexachlorocyclopentadiene	1.77936	0.0117	1.77936	U						
88-06-2	Trichlorophenol[2,4,6-]	0.355872	0.0091	0.355872	U						
95-95-4	Trichlorophenol[2,4,5-]	0.355872	0.0063	0.355872	U						
91-58-7	Chloronaphthalene[2-]	0.0355872	0.0085	0.0355872	U						
88-74-4	Nitroaniline[2-]	0.355872	0.0086	0.355872	U						
99-09-2	Nitroaniline[3-]	0.355872	0.0053	0.355872	U						
131-11-3	Dimethyl Phthalate	0.0355872	0.0076	0.0355872	U						
606-20-2	Dinitrotoluene[2,6-]	0.355872	0.0265	0.355872	U						
208-96-8	Acenaphthylene	0.0355872	0.008	0.0355872	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49522
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: SVOC
Method: SW-846:8270C

Date analyzed: 10/15/2002
% moisture: 15.70
Lab Sample #: 0209524-02A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
83-32-9	Acenaphthene	0.0355872	0.0101	0.0355872	U						
51-28-5	Dinitrophenol[2,4-]	0.794781	0.18	0.794781	U						
132-64-9	Dibenzofuran	0.0355872	0.0093	0.0355872	U						
121-14-2	Dinitrotoluene[2,4-]	0.355872	0.0077	0.355872	U						
84-66-2	Diethylphthalate	0.0355872	0.0082	0.0355872	U						
100-02-7	Nitrophenol[4-]	0.711744	0.0447	0.711744	U						
86-73-7	Fluorene	0.0355872	0.0074	0.0355872	U						
7005-72-3	Chlorophenyl-phenyl[4-] Ether	0.0355872	0.0132	0.0355872	U						
534-52-1	Dinitro-2-methylphenol[4,6-]	0.355872	0.0287	0.355872	U						
100-01-6	Nitroaniline[4-]	0.355872	0.008	0.355872	U						
101-55-3	Bromophenyl-phenylether[4-]	0.0355872	0.045	0.0355872	U						
118-74-1	Hexachlorobenzene	0.0355872	0.0103	0.0355872	U						
87-86-5	Pentachlorophenol	0.355872	0.0356	0.355872	U						
85-01-8	Phenanthrene	0.0355872	0.0106	0.0355872	U						
120-12-7	Anthracene	0.0355872	0.0089	0.0355872	U						
84-74-2	Di-n-butylphthalate	0.355872	0.0092	0.355872	U						
206-44-0	Fluoranthene	0.0355872	0.0105	0.0355872	U						
129-00-0	Pyrene	0.0355872	0.009	0.0355872	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49522
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: SVOC
Method: SW-846:8270C

Date analyzed: 10/15/2002
% moisture: 15.70
Lab Sample #: 0209524-02A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
85-68-7	Butylbenzylphthalate	0.0355872	0.0095	0.0355872	U						
56-55-3	Benzo(a)anthracene	0.0355872	0.0108	0.0355872	U						
91-94-1	Dichlorobenzidine[3,3'-]	0.355872	0.3004	0.355872	U						
218-01-9	Chrysene	0.0355872	0.0095	0.0355872	U						
117-81-7	Bis(2-ethylhexyl)phthalate	0.355872	0.0099	0.355872	U						
117-84-0	Di-n-octylphthalate	0.355872	0.0098	0.355872	U						
50-32-8	Benzo(a)pyrene	0.0355872	0.0101	0.0355872	U						
53-70-3	Dibenz(a,h)anthracene	0.355872	0.0108	0.355872	U						
193-39-5	Indeno(1,2,3-cd)pyrene	0.355872	0.0107	0.355872	U						
191-24-2	Benzo(g,h,i)perylene	0.355872	0.007	0.355872	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49523
Matrix: SO
Units: MG/KG

03

Dilution factor: 1.00
Request #: 1243S
Suite: SVOC
Method: SW-846:8270C

Date analyzed: 10/15/2002
% moisture: 10.30
Lab Sample #: 0209524-03A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
541-73-1	Dichlorobenzene[1,3-]	0.0334448	0.0106	0.0334448	U						
106-46-7	Dichlorobenzene[1,4-]	0.0334448	0.0103	0.0334448	U						
95-50-1	Dichlorobenzene[1,2-]	0.0334448	0.0079	0.0334448	U						
120-82-1	Trichlorobenzene[1,2,4-]	0.0334448	0.0071	0.0334448	U						
87-68-3	Hexachlorobutadiene	0.0334448	0.0094	0.0334448	U						
62-75-9	Nitrosodimethylamine[N-]	0.334448	0.0665	0.334448	U						
110-86-1	Pyridine	0.334448	0.1463	0.334448	U						
62-53-3	Aniline	0.334448	0.0491	0.334448	U						
108-95-2	Phenol	0.334448	0.0086	0.334448	U						
111-44-4	Bis(2-chloroethyl)ether	0.0334448	0.009	0.0334448	U						
95-57-8	Chlorophenol[2-]	0.0334448	0.0068	0.0334448	U						
100-51-6	Benzyl Alcohol	1.67224	0.005	1.67224	U						
108-60-1	Oxybis(1-chloropropane)[2,2'-]	0.0334448	0.0102	0.0334448	U						
86-30-6	Nitrosodiphenylamine[N-]	0.0334448	0.0106	0.0334448	U						
95-48-7	Methylphenol[2-]	0.0334448	0.0083	0.0334448	U						
621-64-7	Nitroso-di-n-propylamine[N-]	0.0334448	0.0089	0.0334448	U						
67-72-1	Hexachloroethane	0.0334448	0.0076	0.0334448	U						
98-95-3	Nitrobenzene	0.0334448	0.0103	0.0334448	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49523
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: SVOC
Method: SW-846:8270C

Date analyzed: 10/15/2002
% moisture: 10.30
Lab Sample #: 0209524-03A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
78-59-1	Isophorone	0.0334448	0.0065	0.0334448	U						
88-75-5	Nitrophenol[2-]	0.334448	0.0087	0.334448	U						
105-67-9	Dimethylphenol[2,4-]	0.0334448	0.0078	0.0334448	U						
111-91-1	Bis(2-chloroethoxy)methane	0.0334448	0.0081	0.0334448	U						
120-83-2	Dichlorophenol[2,4-]	0.334448	0.0073	0.334448	U						
65-85-0	Benzoic Acid	3.34448	0.6368	3.34448	U						
91-20-3	Naphthalene	0.0334448	0.0082	0.0334448	U						
106-47-8	Chloroaniline[4-]	0.334448	0.0092	0.334448	U						
59-50-7	Chloro-3-methylphenol[4-]	0.334448	0.0088	0.334448	U						
77-47-4	Hexachlorocyclopentadiene	1.67224	0.0117	1.67224	U						
88-06-2	Trichlorophenol[2,4,6-]	0.334448	0.0091	0.334448	U						
95-95-4	Trichlorophenol[2,4,5-]	0.334448	0.0063	0.334448	U						
91-58-7	Chloronaphthalene[2-]	0.0334448	0.0085	0.0334448	U						
88-74-4	Nitroaniline[2-]	0.334448	0.0086	0.334448	U						
99-09-2	Nitroaniline[3-]	0.334448	0.0053	0.334448	U						
131-11-3	Dimethyl Phthalate	0.0334448	0.0076	0.0334448	U						
606-20-2	Dinitrotoluene[2,6-]	0.334448	0.0265	0.334448	U						
208-96-8	Acenaphthylene	0.0334448	0.008	0.0334448	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49523
Matrix: SO
Units: MG/KG

03

Dilution factor: 1.00
Request #: 1243S
Suite: SVOC
Method: SW-846:8270C

Date analyzed: 10/15/2002
% moisture: 10.30
Lab Sample #: 0209524-03A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
83-32-9	Acenaphthene	0.0334448	0.0101	0.0334448	U						
51-28-5	Dinitrophenol[2,4-]	0.746934	0.18	0.746934	U						
132-64-9	Dibenzofuran	0.0334448	0.0093	0.0334448	U						
121-14-2	Dinitrotoluene[2,4-]	0.334448	0.0077	0.334448	U						
84-66-2	Diethylphthalate	0.0334448	0.0082	0.0334448	U						
100-02-7	Nitrophenol[4-]	0.668896	0.0447	0.668896	U						
86-73-7	Fluorene	0.0334448	0.0074	0.0334448	U						
7005-72-3	Chlorophenyl-phenyl[4-] Ether	0.0334448	0.0132	0.0334448	U						
534-52-1	Dinitro-2-methylphenol[4,6-]	0.334448	0.0287	0.334448	U						
100-01-6	Nitroaniline[4-]	0.334448	0.008	0.334448	U						
101-55-3	Bromophenyl-phenylether[4-]	0.0334448	0.045	0.0334448	U						
118-74-1	Hexachlorobenzene	0.0334448	0.0103	0.0334448	U						
87-86-5	Pentachlorophenol	0.334448	0.0356	0.334448	U						
85-01-8	Phenanthrene	0.0334448	0.0106	0.0334448	U						
120-12-7	Anthracene	0.0334448	0.0089	0.0334448	U						
84-74-2	Di-n-butylphthalate	0.334448	0.0092	0.334448	U						
206-44-0	Fluoranthene	0.0434783	0.0105	0.0334448							
129-00-0	Pyrene	0.0445931	0.009	0.0334448							

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49523
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: SVOC
Method: SW-846:8270C

Date analyzed: 10/15/2002
% moisture: 10.30
Lab Sample #: 0209524-03A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
85-68-7	Butylbenzylphthalate	0.0334448	0.0095	0.0334448	U						
56-55-3	Benzo(a)anthracene	0.0334448	0.0108	0.0334448	U						
91-94-1	Dichlorobenzidine[3,3'-]	0.334448	0.3004	0.334448	U						
218-01-9	Chrysene	0.0334448	0.0095	0.0334448	U						
117-81-7	Bis(2-ethylhexyl)phthalate	0.334448	0.0099	0.334448	U						
117-84-0	Di-n-octylphthalate	0.334448	0.0098	0.334448	U						
50-32-8	Benzo(a)pyrene	0.0334448	0.0101	0.0334448	U						
53-70-3	Dibenz(a,h)anthracene	0.334448	0.0108	0.334448	U						
193-39-5	Indeno(1,2,3-cd)pyrene	0.334448	0.0107	0.334448	U						
191-24-2	Benzo(g,h,i)perylene	0.334448	0.007	0.334448	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49524
Matrix: SO
Units: MG/KG

04

Dilution factor: 1.00
Request #: 1243S
Suite: SVOC
Method: SW-846:8270C

Date analyzed: 10/15/2002
% moisture: 10.80
Lab Sample #: 0209524-04A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
541-73-1	Dichlorobenzene[1,3-]	0.0336323	0.0106	0.0336323	U						
106-46-7	Dichlorobenzene[1,4-]	0.0336323	0.0103	0.0336323	U						
95-50-1	Dichlorobenzene[1,2-]	0.0336323	0.0079	0.0336323	U						
120-82-1	Trichlorobenzene[1,2,4-]	0.0336323	0.0071	0.0336323	U						
87-68-3	Hexachlorobutadiene	0.0336323	0.0094	0.0336323	U						
62-75-9	Nitrosodimethylamine[N-]	0.336323	0.0665	0.336323	U						
110-86-1	Pyridine	0.336323	0.1463	0.336323	U						
62-53-3	Aniline	0.336323	0.0491	0.336323	U						
108-95-2	Phenol	0.336323	0.0086	0.336323	U						
111-44-4	Bis(2-chloroethyl)ether	0.0336323	0.009	0.0336323	U						
95-57-8	Chlorophenol[2-]	0.0336323	0.0068	0.0336323	U						
100-51-6	Benzyl Alcohol	1.68161	0.005	1.68161	U						
108-60-1	Oxybis(1-chloropropane)[2,2'-]	0.0336323	0.0102	0.0336323	U						
86-30-6	Nitrosodiphenylamine[N-]	0.0336323	0.0106	0.0336323	U						
95-48-7	Methylphenol[2-]	0.0336323	0.0083	0.0336323	U						
621-64-7	Nitroso-di-n-propylamine[N-]	0.0336323	0.0089	0.0336323	U						
67-72-1	Hexachloroethane	0.0336323	0.0076	0.0336323	U						
98-95-3	Nitrobenzene	0.0336323	0.0103	0.0336323	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49524
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: SVOC
Method: SW-846:8270C

Date analyzed: 10/15/2002
% moisture: 10.80
Lab Sample #: 0209524-04A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
78-59-1	Isophorone	0.0336323	0.0065	0.0336323	U						
88-75-5	Nitrophenol[2-]	0.336323	0.0087	0.336323	U						
105-67-9	Dimethylphenol[2,4-]	0.0336323	0.0078	0.0336323	U						
111-91-1	Bis(2-chloroethoxy)methane	0.0336323	0.0081	0.0336323	U						
120-83-2	Dichlorophenol[2,4-]	0.336323	0.0073	0.336323	U						
65-85-0	Benzoic Acid	3.36323	0.6368	3.36323	U						
91-20-3	Naphthalene	0.134529	0.0082	0.0336323							
106-47-8	Chloroaniline[4-]	0.336323	0.0092	0.336323	U						
59-50-7	Chloro-3-methylphenol[4-]	0.336323	0.0088	0.336323	U						
77-47-4	Hexachlorocyclopentadiene	1.68161	0.0117	1.68161	U						
88-06-2	Trichlorophenol[2,4,6-]	0.336323	0.0091	0.336323	U						
95-95-4	Trichlorophenol[2,4,5-]	0.336323	0.0063	0.336323	U						
91-58-7	Chloronaphthalene[2-]	0.0336323	0.0085	0.0336323	U						
88-74-4	Nitroaniline[2-]	0.336323	0.0086	0.336323	U						
99-09-2	Nitroaniline[3-]	0.336323	0.0053	0.336323	U						
131-11-3	Dimethyl Phthalate	0.0336323	0.0076	0.0336323	U						
606-20-2	Dinitrotoluene[2,6-]	0.336323	0.0265	0.336323	U						
208-96-8	Acenaphthylene	0.0336323	0.008	0.0336323	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49524
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: SVOC
Method: SW-846:8270C

Date analyzed: 10/15/2002
% moisture: 10.80
Lab Sample #: 0209524-04A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
83-32-9	Acenaphthene	0.0336323	0.0101	0.0336323	U						
51-28-5	Dinitrophenol[2,4-]	0.751121	0.18	0.751121	U						
132-64-9	Dibenzofuran	0.0336323	0.0093	0.0336323	U						
121-14-2	Dinitrotoluene[2,4-]	0.336323	0.0077	0.336323	U						
84-66-2	Diethylphthalate	0.0336323	0.0082	0.0336323	U						
100-02-7	Nitrophenol[4-]	0.672646	0.0447	0.672646	U						
86-73-7	Fluorene	0.0336323	0.0074	0.0336323	U						
7005-72-3	Chlorophenyl-phenyl[4-] Ether	0.0336323	0.0132	0.0336323	U						
534-52-1	Dinitro-2-methylphenol[4,6-]	0.336323	0.0287	0.336323	U						
100-01-6	Nitroaniline[4-]	0.336323	0.008	0.336323	U						
101-55-3	Bromophenyl-phenylether[4-]	0.0336323	0.045	0.0336323	U						
118-74-1	Hexachlorobenzene	0.0336323	0.0103	0.0336323	U						
87-86-5	Pentachlorophenol	0.336323	0.0356	0.336323	U						
85-01-8	Phenanthrene	0.0336323	0.0106	0.0336323	U						
120-12-7	Anthracene	0.0336323	0.0089	0.0336323	U						
84-74-2	Di-n-butylphthalate	0.336323	0.0092	0.336323	U						
206-44-0	Fluoranthene	0.0336323	0.0105	0.0336323	U						
129-00-0	Pyrene	0.0336323	0.009	0.0336323	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49524
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: SVOC
Method: SW-846:8270C

Date analyzed: 10/15/2002
% moisture: 10.80
Lab Sample #: 0209524-04A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
85-68-7	Butylbenzylphthalate	0.0336323	0.0095	0.0336323	U						
56-55-3	Benzo(a)anthracene	0.0336323	0.0108	0.0336323	U						
91-94-1	Dichlorobenzidine[3,3'-]	0.336323	0.3004	0.336323	U						
218-01-9	Chrysene	0.0336323	0.0095	0.0336323	U						
117-81-7	Bis(2-ethylhexyl)phthalate	0.336323	0.0099	0.336323	U						
117-84-0	Di-n-octylphthalate	0.336323	0.0098	0.336323	U						
50-32-8	Benzo(a)pyrene	0.0336323	0.0101	0.0336323	U						
53-70-3	Dibenz(a,h)anthracene	0.336323	0.0108	0.336323	U						
193-39-5	Indeno(1,2,3-cd)pyrene	0.336323	0.0107	0.336323	U						
191-24-2	Benzo(g,h,i)perylene	0.336323	0.007	0.336323	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49525
Matrix: SO
Units: MG/KG

05

Dilution factor: 1.00
Request #: 1243S
Suite: SVOC
Method: SW-846:8270C

Date analyzed: 10/15/2002
% moisture: 17.00
Lab Sample #: 0209524-05A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
541-73-1	Dichlorobenzene[1,3-]	0.0361446	0.0106	0.0361446	U						
106-46-7	Dichlorobenzene[1,4-]	0.0361446	0.0103	0.0361446	U						
95-50-1	Dichlorobenzene[1,2-]	0.0361446	0.0079	0.0361446	U						
120-82-1	Trichlorobenzene[1,2,4-]	0.0361446	0.0071	0.0361446	U						
87-68-3	Hexachlorobutadiene	0.0361446	0.0094	0.0361446	U						
62-75-9	Nitrosodimethylamine[N-]	0.361446	0.0665	0.361446	U						
110-86-1	Pyridine	0.361446	0.1463	0.361446	U						
62-53-3	Aniline	0.361446	0.0491	0.361446	U						
108-95-2	Phenol	0.361446	0.0086	0.361446	U						
111-44-4	Bis(2-chloroethyl)ether	0.0361446	0.009	0.0361446	U						
95-57-8	Chlorophenol[2-]	0.0361446	0.0068	0.0361446	U						
100-51-6	Benzyl Alcohol	1.80723	0.005	1.80723	U						
108-60-1	Oxybis(1-chloropropane)[2,2'-]	0.0361446	0.0102	0.0361446	U						
86-30-6	Nitrosodiphenylamine[N-]	0.0361446	0.0106	0.0361446	U						
95-48-7	Methylphenol[2-]	0.0361446	0.0083	0.0361446	U						
621-64-7	Nitroso-di-n-propylamine[N-]	0.0361446	0.0089	0.0361446	U						
67-72-1	Hexachloroethane	0.0361446	0.0076	0.0361446	U						
98-95-3	Nitrobenzene	0.0361446	0.0103	0.0361446	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49525
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: SVOC
Method: SW-846:8270C

Date analyzed: 10/15/2002
% moisture: 17.00
Lab Sample #: 0209524-05A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
78-59-1	Isophorone	0.0361446	0.0065	0.0361446	U						
88-75-5	Nitrophenol[2-]	0.361446	0.0087	0.361446	U						
105-67-9	Dimethylphenol[2,4-]	0.0361446	0.0078	0.0361446	U						
111-91-1	Bis(2-chloroethoxy)methane	0.0361446	0.0081	0.0361446	U						
120-83-2	Dichlorophenol[2,4-]	0.361446	0.0073	0.361446	U						
65-85-0	Benzoic Acid	3.61446	0.6368	3.61446	U						
91-20-3	Naphthalene	0.0361446	0.0082	0.0361446	U						
106-47-8	Chloroaniline[4-]	0.361446	0.0092	0.361446	U						
59-50-7	Chloro-3-methylphenol[4-]	0.361446	0.0088	0.361446	U						
77-47-4	Hexachlorocyclopentadiene	1.80723	0.0117	1.80723	U						
88-06-2	Trichlorophenol[2,4,6-]	0.361446	0.0091	0.361446	U						
95-95-4	Trichlorophenol[2,4,5-]	0.361446	0.0063	0.361446	U						
91-58-7	Chloronaphthalene[2-]	0.0361446	0.0085	0.0361446	U						
88-74-4	Nitroaniline[2-]	0.361446	0.0086	0.361446	U						
99-09-2	Nitroaniline[3-]	0.361446	0.0053	0.361446	U						
131-11-3	Dimethyl Phthalate	0.0361446	0.0076	0.0361446	U						
606-20-2	Dinitrotoluene[2,6-]	0.361446	0.0265	0.361446	U						
208-96-8	Acenaphthylene	0.0361446	0.008	0.0361446	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49525
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: SVOC
Method: SW-846:8270C

Date analyzed: 10/15/2002
% moisture: 17.00
Lab Sample #: 0209524-05A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
83-32-9	Acenaphthene	0.0361446	0.0101	0.0361446	U						
51-28-5	Dinitrophenol[2,4-]	0.807229	0.18	0.807229	U						
132-64-9	Dibenzofuran	0.0361446	0.0093	0.0361446	U						
121-14-2	Dinitrotoluene[2,4-]	0.361446	0.0077	0.361446	U						
84-66-2	Diethylphthalate	0.0361446	0.0082	0.0361446	U						
100-02-7	Nitrophenol[4-]	0.722892	0.0447	0.722892	U						
86-73-7	Fluorene	0.0361446	0.0074	0.0361446	U						
7005-72-3	Chlorophenyl-phenyl[4-] Ether	0.0361446	0.0132	0.0361446	U						
534-52-1	Dinitro-2-methylphenol[4,6-]	0.361446	0.0287	0.361446	U						
100-01-6	Nitroaniline[4-]	0.361446	0.008	0.361446	U						
101-55-3	Bromophenyl-phenylether[4-]	0.0361446	0.045	0.0361446	U						
118-74-1	Hexachlorobenzene	0.0361446	0.0103	0.0361446	U						
87-86-5	Pentachlorophenol	0.361446	0.0356	0.361446	U						
85-01-8	Phenanthrene	0.156627	0.0106	0.0361446	✓						
120-12-7	Anthracene	0.0433735	0.0089	0.0361446	✓						
84-74-2	Di-n-butylphthalate	0.361446	0.0092	0.361446	U						
206-44-0	Fluoranthene	0.180723	0.0105	0.0361446	✓						
129-00-0	Pyrene	0.228916	0.009	0.0361446	✓						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49525
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: SVOC
Method: SW-846:8270C

Date analyzed: 10/15/2002
% moisture: 17.00
Lab Sample #: 0209524-05A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
85-68-7	Butylbenzylphthalate	0.0361446	0.0095	0.0361446	U						
56-55-3	Benzo(a)anthracene	0.118072	0.0108	0.0361446		~~SV8~~	OK				
91-94-1	Dichlorobenzidine[3,3'-]	0.361446	0.3004	0.361446	U						
218-01-9	Chrysene	0.0783133	0.0095	0.0361446							
117-81-7	Bis(2-ethylhexyl)phthalate	0.361446	0.0099	0.361446	U						
117-84-0	Di-n-octylphthalate	0.361446	0.0098	0.361446	U						
50-32-8	Benzo(a)pyrene	0.0759036	0.0101	0.0361446	U	SV8					
53-70-3	Dibenz(a,h)anthracene	0.361446	0.0108	0.361446	U						
193-39-5	Indeno(1,2,3-cd)pyrene	0.361446	0.0107	0.361446	U						
191-24-2	Benzo(g,h,i)perylene	0.361446	0.007	0.361446	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49526
Matrix: SO
Units: MG/KG

06

Dilution factor: 1.00
Request #: 1243S
Suite: SVOC
Method: SW-846:8270C

Date analyzed: 10/15/2002
% moisture: 16.40
Lab Sample #: 0209524-06A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
541-73-1	Dichlorobenzene[1,3-]	0.0358852	0.0106	0.0358852	U						
106-46-7	Dichlorobenzene[1,4-]	0.0358852	0.0103	0.0358852	U						
95-50-1	Dichlorobenzene[1,2-]	0.0358852	0.0079	0.0358852	U						
120-82-1	Trichlorobenzene[1,2,4-]	0.0358852	0.0071	0.0358852	U						
87-68-3	Hexachlorobutadiene	0.0358852	0.0094	0.0358852	U						
62-75-9	Nitrosodimethylamine[N-]	0.358852	0.0665	0.358852	U						
110-86-1	Pyridine	0.358852	0.1463	0.358852	U						
62-53-3	Aniline	0.358852	0.0491	0.358852	U						
108-95-2	Phenol	0.358852	0.0086	0.358852	U						
111-44-4	Bis(2-chloroethyl)ether	0.0358852	0.009	0.0358852	U						
95-57-8	Chlorophenol[2-]	0.0358852	0.0068	0.0358852	U						
100-51-6	Benzyl Alcohol	1.79426	0.005	1.79426	U						
108-60-1	Oxybis(1-chloropropane)[2,2'-]	0.0358852	0.0102	0.0358852	U						
86-30-6	Nitrosodiphenylamine[N-]	0.0358852	0.0106	0.0358852	U						
95-48-7	Methylphenol[2-]	0.0358852	0.0083	0.0358852	U						
621-64-7	Nitroso-di-n-propylamine[N-]	0.0358852	0.0089	0.0358852	U						
67-72-1	Hexachloroethane	0.0358852	0.0076	0.0358852	U						
98-95-3	Nitrobenzene	0.0358852	0.0103	0.0358852	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49526
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: SVOC
Method: SW-846:8270C

Date analyzed: 10/15/2002
% moisture: 16.40
Lab Sample #: 0209524-06A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
78-59-1	Isophorone	0.0358852	0.0065	0.0358852	U						
88-75-5	Nitrophenol[2-]	0.358852	0.0087	0.358852	U						
105-67-9	Dimethylphenol[2,4-]	0.0358852	0.0078	0.0358852	U						
111-91-1	Bis(2-chloroethoxy)methane	0.0358852	0.0081	0.0358852	U						
120-83-2	Dichlorophenol[2,4-]	0.358852	0.0073	0.358852	U						
65-85-0	Benzoic Acid	3.58852	0.6368	3.58852	U						
91-20-3	Naphthalene	0.0358852	0.0082	0.0358852	U						
106-47-8	Chloroaniline[4-]	0.358852	0.0092	0.358852	U						
59-50-7	Chloro-3-methylphenol[4-]	0.358852	0.0088	0.358852	U						
77-47-4	Hexachlorocyclopentadiene	1.79426	0.0117	1.79426	U						
88-06-2	Trichlorophenol[2,4,6-]	0.358852	0.0091	0.358852	U						
95-95-4	Trichlorophenol[2,4,5-]	0.358852	0.0063	0.358852	U						
91-58-7	Chloronaphthalene[2-]	0.0358852	0.0085	0.0358852	U						
88-74-4	Nitroaniline[2-]	0.358852	0.0086	0.358852	U						
99-09-2	Nitroaniline[3-]	0.358852	0.0053	0.358852	U						
131-11-3	Dimethyl Phthalate	0.0358852	0.0076	0.0358852	U						
606-20-2	Dinitrotoluene[2,6-]	0.358852	0.0265	0.358852	U						
208-96-8	Acenaphthylene	0.0358852	0.008	0.0358852	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49526
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: SVOC
Method: SW-846:8270C

Date analyzed: 10/15/2002
% moisture: 16.40
Lab Sample #: 0209524-06A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
83-32-9	Acenaphthene	0.0358852	0.0101	0.0358852	U						
51-28-5	Dinitrophenol[2,4-]	0.801435	0.18	0.801435	U						
132-64-9	Dibenzofuran	0.0358852	0.0093	0.0358852	U						
121-14-2	Dinitrotoluene[2,4-]	0.358852	0.0077	0.358852	U						
84-66-2	Diethylphthalate	0.0358852	0.0082	0.0358852	U						
100-02-7	Nitrophenol[4-]	0.717703	0.0447	0.717703	U						
86-73-7	Fluorene	0.0358852	0.0074	0.0358852	U						
7005-72-3	Chlorophenyl-phenyl[4-] Ether	0.0358852	0.0132	0.0358852	U						
534-52-1	Dinitro-2-methylphenol[4,6-]	0.358852	0.0287	0.358852	U						
100-01-6	Nitroaniline[4-]	0.358852	0.008	0.358852	U						
101-55-3	Bromophenyl-phenylether[4-]	0.0358852	0.045	0.0358852	U						
118-74-1	Hexachlorobenzene	0.0358852	0.0103	0.0358852	U						
87-86-5	Pentachlorophenol	0.358852	0.0356	0.358852	U						
85-01-8	Phenanthrene	0.0358852	0.0106	0.0358852	U						
120-12-7	Anthracene	0.0358852	0.0089	0.0358852	U						
84-74-2	Di-n-butylphthalate	0.358852	0.0092	0.358852	U						
206-44-0	Fluoranthene	0.0358852	0.0105	0.0358852	U						
129-00-0	Pyrene	0.0358852	0.009	0.0358852	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49526
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: SVOC
Method: SW-846:8270C

Date analyzed: 10/15/2002
% moisture: 16.40
Lab Sample #: 0209524-06A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
85-68-7	Butylbenzylphthalate	0.0358852	0.0095	0.0358852	U						
56-55-3	Benzo(a)anthracene	0.0358852	0.0108	0.0358852	U						
91-94-1	Dichlorobenzidine[3,3'-]	0.358852	0.3004	0.358852	U						
218-01-9	Chrysene	0.0358852	0.0095	0.0358852	U						
117-81-7	Bis(2-ethylhexyl)phthalate	0.358852	0.0099	0.358852	U						
117-84-0	Di-n-octylphthalate	0.358852	0.0098	0.358852	U						
50-32-8	Benzo(a)pyrene	0.0358852	0.0101	0.0358852	U						
53-70-3	Dibenz(a,h)anthracene	0.358852	0.0108	0.358852	U						
193-39-5	Indeno(1,2,3-cd)pyrene	0.358852	0.0107	0.358852	U						
191-24-2	Benzo(g,h,i)perylene	0.358852	0.007	0.358852	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49527
Matrix: SO
Units: MG/KG

07

Dilution factor: 1.00
Request #: 1243S
Suite: SVOC
Method: SW-846:8270C

Date analyzed: 10/15/2002
% moisture: 14.90
Lab Sample #: 0209524-07A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
541-73-1	Dichlorobenzene[1,3-]	0.0352526	0.0106	0.0352526	U						
106-46-7	Dichlorobenzene[1,4-]	0.0352526	0.0103	0.0352526	U						
95-50-1	Dichlorobenzene[1,2-]	0.0352526	0.0079	0.0352526	U						
120-82-1	Trichlorobenzene[1,2,4-]	0.0352526	0.0071	0.0352526	U						
87-68-3	Hexachlorobutadiene	0.0352526	0.0094	0.0352526	U						
62-75-9	Nitrosodimethylamine[N-]	0.352526	0.0665	0.352526	U						
110-86-1	Pyridine	0.352526	0.1463	0.352526	U						
62-53-3	Aniline	0.352526	0.0491	0.352526	U						
108-95-2	Phenol	0.352526	0.0086	0.352526	U						
111-44-4	Bis(2-chloroethyl)ether	0.0352526	0.009	0.0352526	U						
95-57-8	Chlorophenol[2-]	0.0352526	0.0068	0.0352526	U						
100-51-6	Benzyl Alcohol	1.76263	0.005	1.76263	U						
108-60-1	Oxybis(1-chloropropane)[2,2'-]	0.0352526	0.0102	0.0352526	U						
86-30-6	Nitrosodiphenylamine[N-]	0.0352526	0.0106	0.0352526	U						
95-48-7	Methylphenol[2-]	0.0352526	0.0083	0.0352526	U						
621-64-7	Nitroso-di-n-propylamine[N-]	0.0352526	0.0089	0.0352526	U						
67-72-1	Hexachloroethane	0.0352526	0.0076	0.0352526	U						
98-95-3	Nitrobenzene	0.0352526	0.0103	0.0352526	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49527
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: SVOC
Method: SW-846:8270C

Date analyzed: 10/15/2002
% moisture: 14.90
Lab Sample #: 0209524-07A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
78-59-1	Isophorone	0.0352526	0.0065	0.0352526	U						
88-75-5	Nitrophenol[2-]	0.352526	0.0087	0.352526	U						
105-67-9	Dimethylphenol[2,4-]	0.0352526	0.0078	0.0352526	U						
111-91-1	Bis(2-chloroethoxy)methane	0.0352526	0.0081	0.0352526	U						
120-83-2	Dichlorophenol[2,4-]	0.352526	0.0073	0.352526	U						
65-85-0	Benzoic Acid	3.52526	0.6368	3.52526	U						
91-20-3	Naphthalene	0.0352526	0.0082	0.0352526	U						
106-47-8	Chloroaniline[4-]	0.352526	0.0092	0.352526	U						
59-50-7	Chloro-3-methylphenol[4-]	0.352526	0.0088	0.352526	U						
77-47-4	Hexachlorocyclopentadiene	1.76263	0.0117	1.76263	U						
88-06-2	Trichlorophenol[2,4,6-]	0.352526	0.0091	0.352526	U						
95-95-4	Trichlorophenol[2,4,5-]	0.352526	0.0063	0.352526	U						
91-58-7	Chloronaphthalene[2-]	0.0352526	0.0085	0.0352526	U						
88-74-4	Nitroaniline[2-]	0.352526	0.0086	0.352526	U						
99-09-2	Nitroaniline[3-]	0.352526	0.0053	0.352526	U						
131-11-3	Dimethyl Phthalate	0.0352526	0.0076	0.0352526	U						
606-20-2	Dinitrotoluene[2,6-]	0.352526	0.0265	0.352526	U						
208-96-8	Acenaphthylene	0.0352526	0.008	0.0352526	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49527
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: SVOC
Method: SW-846:8270C

Date analyzed: 10/15/2002
% moisture: 14.90
Lab Sample #: 0209524-07A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
83-32-9	Acenaphthene	0.0352526	0.0101	0.0352526	U						
51-28-5	Dinitrophenol[2,4-]	0.787309	0.18	0.787309	U						
132-64-9	Dibenzofuran	0.0352526	0.0093	0.0352526	U						
121-14-2	Dinitrotoluene[2,4-]	0.352526	0.0077	0.352526	U						
84-66-2	Diethylphthalate	0.0352526	0.0082	0.0352526	U						
100-02-7	Nitrophenol[4-]	0.705053	0.0447	0.705053	U						
86-73-7	Fluorene	0.0352526	0.0074	0.0352526	U						
7005-72-3	Chlorophenyl-phenyl[4-] Ether	0.0352526	0.0132	0.0352526	U						
534-52-1	Dinitro-2-methylphenol[4,6-]	0.352526	0.0287	0.352526	U						
100-01-6	Nitroaniline[4-]	0.352526	0.008	0.352526	U						
101-55-3	Bromophenyl-phenylether[4-]	0.0352526	0.045	0.0352526	U						
118-74-1	Hexachlorobenzene	0.0352526	0.0103	0.0352526	U						
87-86-5	Pentachlorophenol	0.352526	0.0356	0.352526	U						
85-01-8	Phenanthrene	0.0352526	0.0106	0.0352526	U						
120-12-7	Anthracene	0.0352526	0.0089	0.0352526	U						
84-74-2	Di-n-butylphthalate	0.352526	0.0092	0.352526	U						
206-44-0	Fluoranthene	0.0352526	0.0105	0.0352526	U						
129-00-0	Pyrene	0.0352526	0.009	0.0352526	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49527
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: SVOC
Method: SW-846:8270C

Date analyzed: 10/15/2002
% moisture: 14.90
Lab Sample #: 0209524-07A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
85-68-7	Butylbenzylphthalate	0.0352526	0.0095	0.0352526	U						
56-55-3	Benzo(a)anthracene	0.0352526	0.0108	0.0352526	U						
91-94-1	Dichlorobenzidine[3,3'-]	0.352526	0.3004	0.352526	U						
218-01-9	Chrysene	0.0352526	0.0095	0.0352526	U						
117-81-7	Bis(2-ethylhexyl)phthalate	0.352526	0.0099	0.352526	U						
117-84-0	Di-n-octylphthalate	0.352526	0.0098	0.352526	U						
50-32-8	Benzo(a)pyrene	0.0352526	0.0101	0.0352526	U						
53-70-3	Dibenz(a,h)anthracene	0.352526	0.0108	0.352526	U						
193-39-5	Indeno(1,2,3-cd)pyrene	0.352526	0.0107	0.352526	U						
191-24-2	Benzo(g,h,i)perylene	0.352526	0.007	0.352526	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49528
Matrix: SO
Units: MG/KG

08

Dilution factor: 1.00
Request #: 1243S
Suite: SVOC
Method: SW-846:8270C

Date analyzed: 10/15/2002
% moisture: 14.30
Lab Sample #: 0209524-08A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
541-73-1	Dichlorobenzene[1,3-]	0.0350058	0.0106	0.0350058	U						
106-46-7	Dichlorobenzene[1,4-]	0.0350058	0.0103	0.0350058	U						
95-50-1	Dichlorobenzene[1,2-]	0.0350058	0.0079	0.0350058	U						
120-82-1	Trichlorobenzene[1,2,4-]	0.0350058	0.0071	0.0350058	U						
87-68-3	Hexachlorobutadiene	0.0350058	0.0094	0.0350058	U						
62-75-9	Nitrosodimethylamine[N-]	0.350058	0.0665	0.350058	U						
110-86-1	Pyridine	0.350058	0.1463	0.350058	U						
62-53-3	Aniline	0.350058	0.0491	0.350058	U						
108-95-2	Phenol	0.350058	0.0086	0.350058	U						
111-44-4	Bis(2-chloroethyl)ether	0.0350058	0.009	0.0350058	U						
95-57-8	Chlorophenol[2-]	0.0350058	0.0068	0.0350058	U						
100-51-6	Benzyl Alcohol	1.75029	0.005	1.75029	U						
108-60-1	Oxybis(1-chloropropane)[2,2'-]	0.0350058	0.0102	0.0350058	U						
86-30-6	Nitrosodiphenylamine[N-]	0.0350058	0.0106	0.0350058	U						
95-48-7	Methylphenol[2-]	0.0350058	0.0083	0.0350058	U						
621-64-7	Nitroso-di-n-propylamine[N-]	0.0350058	0.0089	0.0350058	U						
67-72-1	Hexachloroethane	0.0350058	0.0076	0.0350058	U						
98-95-3	Nitrobenzene	0.0350058	0.0103	0.0350058	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49528
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: SVOC
Method: SW-846:8270C

Date analyzed: 10/15/2002
% moisture: 14.30
Lab Sample #: 0209524-08A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
78-59-1	Isophorone	0.0350058	0.0065	0.0350058	U						
88-75-5	Nitrophenol[2-]	0.350058	0.0087	0.350058	U						
105-67-9	Dimethylphenol[2,4-]	0.0350058	0.0078	0.0350058	U						
111-91-1	Bis(2-chloroethoxy)methane	0.0350058	0.0081	0.0350058	U						
120-83-2	Dichlorophenol[2,4-]	0.350058	0.0073	0.350058	U						
65-85-0	Benzoic Acid	3.50058	0.6368	3.50058	U						
91-20-3	Naphthalene	0.0350058	0.0082	0.0350058	U						
106-47-8	Chloroaniline[4-]	0.350058	0.0092	0.350058	U						
59-50-7	Chloro-3-methylphenol[4-]	0.350058	0.0088	0.350058	U						
77-47-4	Hexachlorocyclopentadiene	1.75029	0.0117	1.75029	U						
88-06-2	Trichlorophenol[2,4,6-]	0.350058	0.0091	0.350058	U						
95-95-4	Trichlorophenol[2,4,5-]	0.350058	0.0063	0.350058	U						
91-58-7	Chloronaphthalene[2-]	0.0350058	0.0085	0.0350058	U						
88-74-4	Nitroaniline[2-]	0.350058	0.0086	0.350058	U						
99-09-2	Nitroaniline[3-]	0.350058	0.0053	0.350058	U						
131-11-3	Dimethyl Phthalate	0.0350058	0.0076	0.0350058	U						
606-20-2	Dinitrotoluene[2,6-]	0.350058	0.0265	0.350058	U						
208-96-8	Acenaphthylene	0.0350058	0.008	0.0350058	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49528
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: SVOC
Method: SW-846:8270C

Date analyzed: 10/15/2002
% moisture: 14.30
Lab Sample #: 0209524-08A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
83-32-9	Acenaphthene	0.0350058	0.0101	0.0350058	U						
51-28-5	Dinitrophenol[2,4-]	0.781797	0.18	0.781797	U						
132-64-9	Dibenzofuran	0.0350058	0.0093	0.0350058	U						
121-14-2	Dinitrotoluene[2,4-]	0.350058	0.0077	0.350058	U						
84-66-2	Diethylphthalate	0.0350058	0.0082	0.0350058	U						
100-02-7	Nitrophenol[4-]	0.700117	0.0447	0.700117	U						
86-73-7	Fluorene	0.0350058	0.0074	0.0350058	U						
7005-72-3	Chlorophenyl-phenyl[4-] Ether	0.0350058	0.0132	0.0350058	U						
534-52-1	Dinitro-2-methylphenol[4,6-]	0.350058	0.0287	0.350058	U						
100-01-6	Nitroaniline[4-]	0.350058	0.008	0.350058	U						
101-55-3	Bromophenyl-phenylether[4-]	0.0350058	0.045	0.0350058	U						
118-74-1	Hexachlorobenzene	0.0350058	0.0103	0.0350058	U						
87-86-5	Pentachlorophenol	0.350058	0.0356	0.350058	U						
85-01-8	Phenanthrene	0.0350058	0.0106	0.0350058	U						
120-12-7	Anthracene	0.0350058	0.0089	0.0350058	U						
84-74-2	Di-n-butylphthalate	0.350058	0.0092	0.350058	U						
206-44-0	Fluoranthene	0.0350058	0.0105	0.0350058	U						
129-00-0	Pyrene	0.0350058	0.009	0.0350058	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49528
Matrix: SO
Units: MG/KG

Dilution factor: 1.00
Request #: 1243S
Suite: SVOC
Method: SW-846:8270C

Date analyzed: 10/15/2002
% moisture: 14.30
Lab Sample #: 0209524-08A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
85-68-7	Butylbenzylphthalate	0.0350058	0.0095	0.0350058	U						
56-55-3	Benzo(a)anthracene	0.0350058	0.0108	0.0350058	U						
91-94-1	Dichlorobenzidine[3,3'-]	0.350058	0.3004	0.350058	U						
218-01-9	Chrysene	0.0350058	0.0095	0.0350058	U						
117-81-7	Bis(2-ethylhexyl)phthalate	0.350058	0.0099	0.350058	U						
117-84-0	Di-n-octylphthalate	0.350058	0.0098	0.350058	U						
50-32-8	Benzo(a)pyrene	0.0350058	0.0101	0.0350058	U						
53-70-3	Dibenz(a,h)anthracene	0.350058	0.0108	0.350058	U						
193-39-5	Indeno(1,2,3-cd)pyrene	0.350058	0.0107	0.350058	U						
191-24-2	Benzo(g,h,i)perylene	0.350058	0.007	0.350058	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49529
Matrix: SO
Units: MG/KG

09

Dilution factor: 1.00
Request #: 1243S
Suite: SVOC
Method: SW-846:8270C

Date analyzed: 10/15/2002
% moisture: 11.70
Lab Sample #: 0209524-09A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
541-73-1	Dichlorobenzene[1,3-]	0.0339751	0.0106	0.0339751	U						
106-46-7	Dichlorobenzene[1,4-]	0.0339751	0.0103	0.0339751	U						
95-50-1	Dichlorobenzene[1,2-]	0.0339751	0.0079	0.0339751	U						
120-82-1	Trichlorobenzene[1,2,4-]	0.0339751	0.0071	0.0339751	U						
87-68-3	Hexachlorobutadiene	0.0339751	0.0094	0.0339751	U						
62-75-9	Nitrosodimethylamine[N-]	0.339751	0.0665	0.339751	U						
110-86-1	Pyridine	0.339751	0.1463	0.339751	U						
62-53-3	Aniline	0.339751	0.0491	0.339751	U						
108-95-2	Phenol	0.339751	0.0086	0.339751	U						
111-44-4	Bis(2-chloroethyl)ether	0.0339751	0.009	0.0339751	U						
95-57-8	Chlorophenol[2-]	0.0339751	0.0068	0.0339751	U						
100-51-6	Benzyl Alcohol	1.69875	0.005	1.69875	U						
108-60-1	Oxybis(1-chloropropane)[2,2'-]	0.0339751	0.0102	0.0339751	U						
86-30-6	Nitrosodiphenylamine[N-]	0.0339751	0.0106	0.0339751	U						
95-48-7	Methylphenol[2-]	0.0339751	0.0083	0.0339751	U						
621-64-7	Nitroso-di-n-propylamine[N-]	0.0339751	0.0089	0.0339751	U						
67-72-1	Hexachloroethane	0.0339751	0.0076	0.0339751	U						
98-95-3	Nitrobenzene	0.0339751	0.0103	0.0339751	U						

Los Alamos National Laboratory
Organic Data Reporting Form 1

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Sample #: RE48-02-49529
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Dilution factor: 1.00
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Suite: SVOC
Method: SW-846:8270C

Date analyzed: 10/15/2002
% moisture: 11.70
Lab Sample #: 0209524-09A
Date collected: 09/23/2002
QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
78-59-1	Isophorone	0.0339751	0.0065	0.0339751	U						
88-75-5	Nitrophenol[2-]	0.339751	0.0087	0.339751	U						
105-67-9	Dimethylphenol[2,4-]	0.0339751	0.0078	0.0339751	U						
111-91-1	Bis(2-chloroethoxy)methane	0.0339751	0.0081	0.0339751	U						
120-83-2	Dichlorophenol[2,4-]	0.339751	0.0073	0.339751	U						
65-85-0	Benzoic Acid	3.39751	0.6368	3.39751	U						
91-20-3	Naphthalene	0.0645527	0.0082	0.0339751							
106-47-8	Chloroaniline[4-]	0.339751	0.0092	0.339751	U						
59-50-7	Chloro-3-methylphenol[4-]	0.339751	0.0088	0.339751	U						
77-47-4	Hexachlorocyclopentadiene	1.69875	0.0117	1.69875	U						
88-06-2	Trichlorophenol[2,4,6-]	0.339751	0.0091	0.339751	U						
95-95-4	Trichlorophenol[2,4,5-]	0.339751	0.0063	0.339751	U						
91-58-7	Chloronaphthalene[2-]	0.0339751	0.0085	0.0339751	U						
88-74-4	Nitroaniline[2-]	0.339751	0.0086	0.339751	U						
99-09-2	Nitroaniline[3-]	0.339751	0.0053	0.339751	U						
131-11-3	Dimethyl Phthalate	0.0339751	0.0076	0.0339751	U						
606-20-2	Dinitrotoluene[2,6-]	0.339751	0.0265	0.339751	U						
208-96-8	Acenaphthylene	0.0339751	0.008	0.0339751	U						

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QC Type: CS

Analyte	Analyte Name	Results	MDL	Quant Limit	Lab Qual	Lanl Qual1	Reas1	Lanl Qual2	Reas2	Lanl Qual3	Reas3
83-32-9	Acenaphthene	0.0339751	0.0101	0.0339751	U						
51-28-5	Dinitrophenol[2,4-]	0.758777	0.18	0.758777	U						
132-64-9	Dibenzofuran	0.0339751	0.0093	0.0339751	U						
121-14-2	Dinitrotoluene[2,4-]	0.339751	0.0077	0.339751	U						
84-66-2	Diethylphthalate	0.0339751	0.0082	0.0339751	U						
100-02-7	Nitrophenol[4-]	0.679502	0.0447	0.679502	U						
86-73-7	Fluorene	0.0339751	0.0074	0.0339751	U						
7005-72-3	Chlorophenyl-phenyl[4-] Ether	0.0339751	0.0132	0.0339751	U						
534-52-1	Dinitro-2-methylphenol[4,6-]	0.339751	0.0287	0.339751	U						
100-01-6	Nitroaniline[4-]	0.339751	0.008	0.339751	U						
101-55-3	Bromophenyl-phenylether[4-]	0.0339751	0.045	0.0339751	U						
118-74-1	Hexachlorobenzene	0.0339751	0.0103	0.0339751	U						
87-86-5	Pentachlorophenol	0.339751	0.0356	0.339751	U						
85-01-8	Phenanthrene	0.0339751	0.0106	0.0339751	U						
120-12-7	Anthracene	0.0339751	0.0089	0.0339751	U						
84-74-2	Di-n-butylphthalate	0.339751	0.0092	0.339751	U						
206-44-0	Fluoranthene	0.0339751	0.0105	0.0339751	U						
129-00-0	Pyrene	0.0339751	0.009	0.0339751	U						

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Organic Data Reporting Form 1

Lab: AAL
Sample #: RE48-02-49529
Matrix: SO
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Dilution factor: 1.00
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85-68-7	Butylbenzylphthalate	0.0339751	0.0095	0.0339751	U						
56-55-3	Benzo(a)anthracene	0.0339751	0.0108	0.0339751	U						
91-94-1	Dichlorobenzidine[3,3'-]	0.339751	0.3004	0.339751	U						
218-01-9	Chrysene	0.0339751	0.0095	0.0339751	U						
117-81-7	Bis(2-ethylhexyl)phthalate	0.339751	0.0099	0.339751	U						
117-84-0	Di-n-octylphthalate	0.339751	0.0098	0.339751	U						
50-32-8	Benzo(a)pyrene	0.0339751	0.0101	0.0339751	U						
53-70-3	Dibenz(a,h)anthracene	0.339751	0.0108	0.339751	U						
193-39-5	Indeno(1,2,3-cd)pyrene	0.339751	0.0107	0.339751	U						
191-24-2	Benzo(g,h,i)perylene	0.339751	0.007	0.339751	U						

Appendix C

Ecological Scoping Checklist and Surface Water Assessment

ECOLOGICAL SCOPING CHECKLIST

PART A—SCOPING MEETING DOCUMENTATION

Site ID	AOC48-012
Form of site releases (solid, liquid, vapor). Describe all relevant known or suspected mechanisms of release (spills, dumping, material disposal, outfall, explosive testing, etc.) and describe potential areas of release. Reference locations on a map as appropriate.	AOC 48-012 consists of an area of contaminated soil located at TA-48. It lies approximately 130 ft west of TA-48-1 (RC-1), the radiochemistry laboratory. Approximately 190 yd^3 of contaminated material was removed from the site and transported and disposed of offsite. Contamination at AOC 48-012 may have been a result of accidental spills, improperly disposed of waste, or release from inadequately sealed waste containers.
List of Primary Impacted Media (indicate all that apply.)	**Surface soil –** **Surface water/sediment –** **Subsurface** – Contamination detected during trenching activities. **Groundwater –** **Other, explain –**
FIMAD vegetation class based on ArcView vegetation coverage (indicate all that apply.)	**Water –** **Bare Ground/Unvegetated –** **Spruce/fir/aspen/mixed conifer –** **Ponderosa pine –** **Piñon juniper/juniper savannah –** **Grassland/shrubland** – The drainage area approximately 30 ft to the northeast is vegetated with grass and shrubs. **Developed** – This AOC falls within the developed area of TA-48. It has been recently excavated and most of the site has been re-covered with asphalt. There is no vegetation on-site.
Is T&E habitat present? **If applicable, list species known or suspected to use the site for breeding or foraging.**	Not applicable.
Provide list of neighboring/ contiguous/upgradient sites, including a brief summary of COPCs and the form of releases for relevant sites, and reference a map as appropriate. **(Use this information to evaluate the need to aggregate sites for screening.)**	AOC 48-002(e) is located approximately 50 ft west of AOC 48-012. AOC 48-002(c) is located 10 ft east of AOC 48-012. Historical evidence supports the theory that AOC 48-002(c) and 48-002(e) are unrelated to contaminants found at AOC 48-012.
Surface Water Erosion Potential Information **Summarize information from SOP 2.01, including the runoff subscore (maximum of 46), terminal point of surface water transport, slope, and surface water run-on sources.**	The erosion matrix score for the drainage at this AOC is 10.6, with a runoff score of 0 and a run-on score of 7 (structures adversely affect run-on). This site is located on a mesa top with 75–100% ground cover and a slope of less than 10% (site setting score of 3.3). The terminal point of any runoff is Mortandad Canyon.

Part B—Site Visit Documentation

Site ID	AOC 48-012
Date of Site Visit	5/7/03
Site Visit Conducted by	Gabriela Lopez Escobedo and Robert Budd

Receptor Information:

Estimate cover	**Relative vegetative cover (high, medium, low, none)** = None **Relative wetland cover (high, medium, low, none)** = None **Relative structures/asphalt, etc. cover (high, medium, low, none)** = High; AOC within an industrial area completely surrounded by asphalt and several structures.
Field notes on the FIMAD vegetation class to assist in ground-truthing the ArcView information	The AOC is within an industrial area. It has been disturbed and re-asphalted. Presently, there is little to no vegetation at this AOC.
Field notes on T&E Habitat, if applicable. Consider the need for a site visit by a T&E subject matter expert to support the use of the site by T&E receptors.	The site is not suitable for T&E habitat.
Are ecological receptors present at the site? (yes/no/uncertain) **Describe the general types of receptors present at the site (terrestrial and aquatic), and make notes on the quality of habitat present at the site.**	No. There are no visible ecological receptors at this site. Small birds were noted to be nesting within the adjacent storage shed (TA-48-214). A drainage area, approximately 20 ft to the northeast, would provide good habitat for small mammals.

Contaminant Transport Information:

Surface water transport Field notes on the erosion potential, including a discussion of the terminal point of surface water transport (if applicable).	There was no evidence of erosion at this AOC and the slope is <10%, which limits runoff potential. The residual contamination is 9 ft below ground surface and most of the site is covered with asphalt (>75%). Therefore, there is no potential for the contaminants to migrate off-site via surface water transport.
Are there any offsite transport pathways (surface water, air, or groundwater)? (yes/no/uncertain) **Provide explanation**	No. Contamination was detected in the subsurface. The site was excavated and covered with clean fill; residual contamination is 7 ft below the surface. Infiltration to groundwater is not a likely pathway for migration due to the depth to groundwater.
Interim action needed to limit offsite transport? (yes/no/uncertain) **Provide explanation/ recommendation to project lead for IA SMDP.**	No. A VCA was conducted to remove the contaminated soil. Residual concentrations of COPCs and the low potential for migration off-site precludes the need for any additional corrective action.

Ecological Effects Information:

Physical Disturbance (Provide list of major types of disturbances, including erosion and construction activities, review historical aerial photos where appropriate.)	The area has been excavated and the contaminated soil has been removed. The site has been covered with clean fill and covered with asphalt over the majority (> 75%) of the area.
Are there obvious ecological effects? (yes/no/uncertain) **Provide explanation and apparent cause (e.g., contamination, physical disturbance, other).**	No. There are no obvious ecological effects due to this AOC.
Interim action needed to limit apparent ecological effects? (yes/no/uncertain) **Provide explanation and recommendations to mitigate apparent exposure pathways to project lead for IA SMDP.**	No. No apparent ecological effects are noted for this AOC.

No Exposure/Transport Pathways:

If there are no complete exposure pathways to ecological receptors onsite and no transport pathways to offsite receptors, the remainder of the checklist should not be completed. Stop here and provide additional explanation/justification for proposing an ecological No Further Action recommendation (if needed). At a minimum, the potential for future transport should include likelihood that future construction activities could make contamination more available for exposure or transport.

Any residual contamination from COPCs exists approximately 7 ft below ground surface and has been covered with clean fill and asphalt; therefore, there are no complete exposure pathways to ecological receptors onsite and no transport pathways offsite.

Signatures and certifications:

Checklist completed by (provide name, organization and phone number):

Name (printed): Robert Budd

Name (signature): Robert Budd

Organization: RRES-ECR

Phone number: 667-5905

Date Completed: 5/13/03

Verification by a member of ER Project Ecological Risk Task Team (provide name, organization and phone number):

Name (printed): Richard Mirenda

Name (signature): Richard Mirenda

Organization: RRES-ECR

Phone number: 665-6953

Los Alamos National Laboratory

Environment, Safety & Health Division
ESH-18 Water Quality & Hydrology Group

Surface Water Assessment
Erosion Matrix for PRS 48-012

CRITERIA EVALUATED	Value	Erosion/Sediment Transport Potential Low 0.1	Medium 0.5	High 1.0	Calculated Score
Site Setting (43)					
On mesa top	1	Defined based on topographic setting			1.0
Within bench of canyon	4				
Within the canyon floodplain but not watercourse	13				
Within bottom of canyon channel in watercourse	17				
Estimated % ground and canopy cover	13	>75%	25-75%	<25%	1.3
Slope	13	0-10%	10-30%	>30%	1.3
Surface Water Factors-Run-off (46)					
Visible evidence of runoff discharging? (Yes/No)	5	If no, score of 0 for runoff section. If yes, score 5 and proceed with section.			0.0
Where does runoff terminate?	19	Other	Bench Setting	Drainage/Wetland	0.0
Has runoff caused visible erosion? (Yes/No)	22	Sheet	Rill	Gully	0.0
		If no, score as 0. If yes, calculate as appropriate.			
Surface Water Factors-Run-on (11)					
Structures adversely affecting run-on (Yes/No)	7*	If yes, score as 7. If no, score as 0.			7.0
Current operations adversely impacting (Yes/No)	4	If yes, score as 4. If no, score as 0.			0.0
Natural drainages onto site (Yes/No)	7*	If yes, score as 7. If no, score as 0.			0.0
**Select either structures or natural drainages.*					
MAX. POSSIBLE EROSION MATRIX SCORE:	**100**			**Total Score**	10.6**

** Indicates BMPs in place. Erosion potential without BMPs may be greater.

Report Printed 5/12/2003 11:56:16 AM.

Los Alamos National Laboratory
SURFACE WATER
SITE ASSESSMENT

SITE INFORMATION

1a) PRS Number 48-012 **1b) Structure Number** **1c) FMU Number** 71

2. Date/Time (M/D/Y H:M am/pm) 5/12/2003

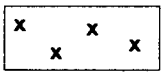
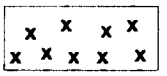
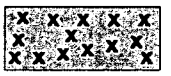
SITE SETTING (check all that apply)

3. (●) **On mesa top (a).** ( ) **In the canyon floor, but not in an established channel (c).**

( ) **Within a bench of a canyon (b).** ( ) **Within established channel in the canyon floor (d).**

Explanation: PRS located on a mesa top adjacent to stucture TA-48-214.

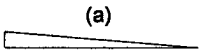
4. Estimated ground and/or canopy cover at site: (deciduous leaves, pine needles, rocks, vegetation, trees, structures, asphalt, etc.)

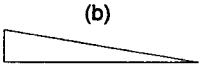
(illustration) (a)  (b)  (c) 

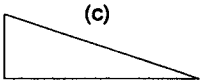
Estimated % of ground/canopy cover: ( ) 0% to 25% ( ) 25% to 75% (●) 75% to 100

Explanation: Area covered with asphalt.

5. Steepest slope at the area impacted:

(a)  (●) Less than 10%

(b)  ( ) 10% to 30%

(c)  ( ) 30% and greater

Explanation: PRS located in area of less than 10%.

RUNOFF FACTORS

Y / N

☐ ☑ **6. Is there visible evidence of runoff discharging from site? If yes, answer a) - c) below:**

☐ ☑ 6a) Is runoff channelized? If yes, describe: ( ) Man-made channel. ( ) Natural channel.

Explanation: There is no visible evidence of storm water discharging from the site.

RUNOFF FACTORS, CONT'D

6b) Where does evidence of runoff terminate?

- ○ **Drainage or wetland (name)** Mortandad Canyon
- ○ **Within bench of canyon setting (name)**
- ○ **Other (i.e., retention pond, meadow, mesa top)**

Explanation:

Y / N

☐ ☑ 6c) Has runoff caused visible erosion at the site? If yes, explain below: ○ Sheet ○ Rill ○ Gully

Explanation:

RUN-ON FACTORS

Please rate the potential for storm water to run on to this site: (Check EITHER #7 or #9)

☑ ☐ **7.** Are structures (i.e., buildings, roof drains, parking lots, storm drains) creating run-on to the site?

Explanation: Structure TA-48-214 roof will create minor run-on to the site.

☐ ☑ **8.** Are current operations (i.e., fire hydrants, NPDES outfalls) adversely impacting run-on to the site?

Explanation: There are no current operations impacting run-on to the site.

☐ ☑ **9.** Are natural drainage patterns directing stormwater onto site?

Explanation: There are no natural drainage patterns directing storm water run-on to the site.

ASSESSMENT FINDING:

☐ ☑ **10. Based on the above criteria and the assessment of this site, does soil erosion potential exist? (REFER TO EROSION POTENTIAL MATRIX.)**

Garduno, Jacinto

11. Signature of Water Quality/Hydrology Representative

SD Initials of independent reviewer.

Check here when information is entered in database: ☑

This page is for ESH-18 notes, recommendations, and photos.

	Y	N	
12. a)	○	◉	Is there visible trash/debris on the site?
b)	○	◉	Is there visible trash/debris in a watercourse?

Description of existing BMPs:

PRS is covered with asphalt.

○	○	Are BMPs being properly maintained? If no, describe in "Other Internal Notes."
○	○	Are BMPs effectively keeping sediment in place and reducing erosion potential?

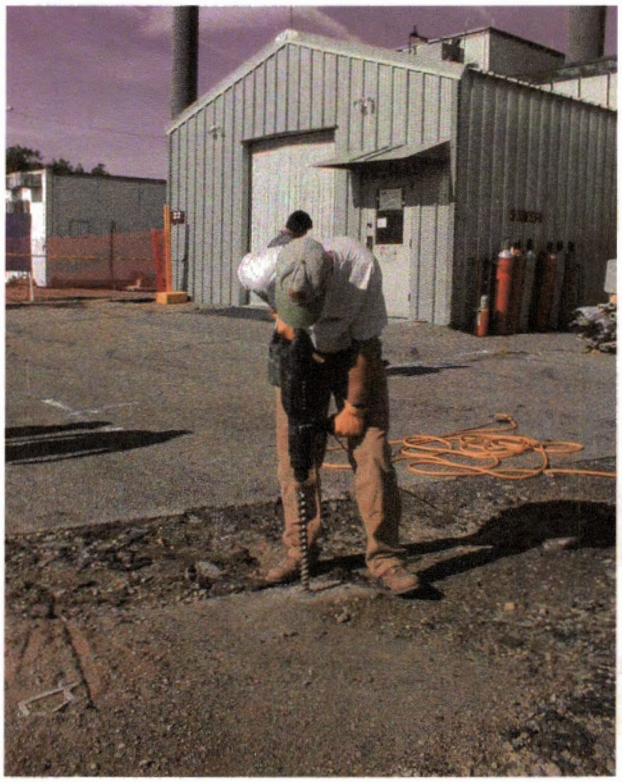
OTHER INTERNAL NOTES:

Appendix D

Photos of VCA Cleanup

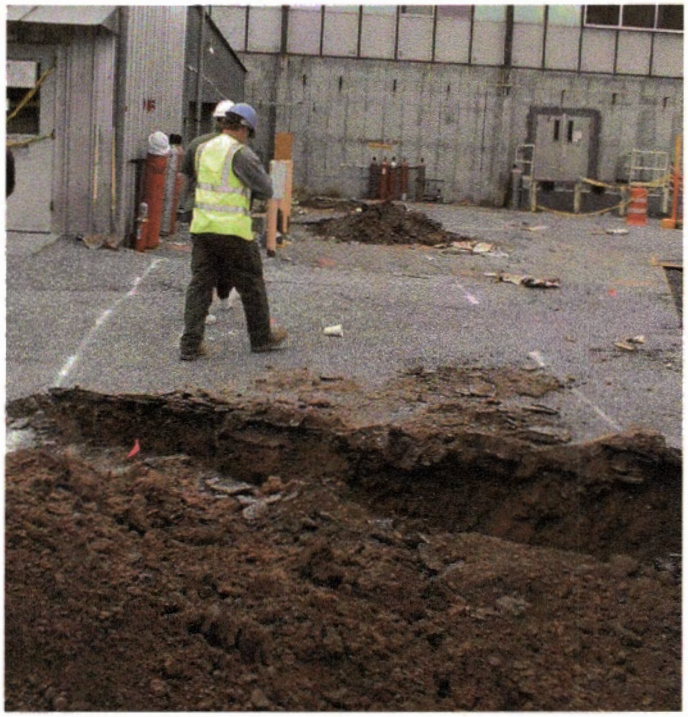
Photograph 1. Utility trench where contamination was encountered; trench and soil piles covered to prevent contaminant migration

Photograph 2. Covered utility trench to the southeast



Photograph 3. Deployment of EMFLUX samplers; worker drilling hole for placement of EMFLUX collector

Photograph 4. Drilling boreholes for collecting samples to determine extent of contamination



Photograph 5. Three of the trenches excavated to help determine source of contamination (one hypothesis was that contamination could have come from a buried line)

Photograph 6. Excavation activities, including removal of contaminated soil

Photograph 7. Remediation activities; extent of excavation on September 17, 2002

Photograph 8. Remediation activities; extent of excavation on September 25, 2002 (pink pin flags mark where head-space samples were collected and measured; orange stakes mark confirmation samples)

Photograph 9. Headspace sample being measured with the PID

Photograph 10. Collection of confirmation samples (locations marked by pink flags)

Photograph 11. Oblique view of final extent of excavation on September 23, 2002

Photograph 12. Site restoration activities; backfilling and compaction (October 1, 2002)

Photograph 13. Site restoration activities; excavation almost completely backfilled (October 2, 2002)

Photograph 14. Cleanup and site restoration complete

Photograph 15. New building (48-214), looking across the restored site