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NCBC GULFPORT
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SURFACE WATER AND SEDIMENT DIOXIN DELINEATION NCBC GULFPORT MS
6/1/1999
HARDING LAWSON ASSOCIATES

SURFACE WATER AND SEDIMENT DIOXIN DELINEATION REPORT

NAVAL CONSTRUCTION BATTALION CENTER
GULFPORT, MISSISSIPPI

Unit Identification No. N62604

Contract No. N62467-89-D-0317/128

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June 1999

CERTIFICATION OF TECHNICAL
DATA CONFORMITY (MAY 1987)

The Contractor, Harding Lawson Associates (formerly ABB Environmental Services, Inc.), hereby certifies that, to the best of its knowledge and belief, the technical data delivered herewith under Contract No. N62467-89-D-0317/096 are complete, accurate, and comply with all requirements of this contract.

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(DFAR 252.227-7036)

FOREWARD

In accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended by the 1986 Superfund Amendments and Reauthorization Act (SARA), the 1976 Resource Conservation and Recovery Act (RCRA), as augmented by the 1984 Hazardous and Solid Waste Amendments (HSWA), and as directed in Executive Order 12580 of January 1987, the Department of Defense (DOD) conducts an Installation Restoration (IR) program for evaluating and remediating problems related to releases and disposal of toxic and hazardous materials at DOD facilities.

The Naval Assessment and Control of Installation Pollutants (NACIP) program was developed by the Navy to implement the IR program for all Navy and Marine Corps facilities. The NACIP program was originally conducted in three phases: (1) Phase I, Initial Assessment Study, (2) Phase II, Confirmation Study (including a Verification Step and a Characterization Step), and (3) Phase III, Planning and Implementation of Remedial Measures. The three-phase IR program was modified and updated to be congruent with the CERCLA-, SARA-, RCRA-, and HSWA-driven DOD IR program.

The updated nomenclature for the CERCLA and SARA process is as follows:

- Preliminary assessment and Site Inspection,
- Remedial Investigation,
- Feasibility Study, and
- planning and implementation of a remedial design.

The Southern Division, Naval Facilities Engineering Command has the responsibility for implementation of the Navy and Marine Corps IR program in the southeastern and midwestern United States. Questions regarding this report should be addressed to Mr. Art Conrad, Code 1865, at (803) 820-5520.

EXECUTIVE SUMMARY

The history of the Naval Construction Battalion Center (NCBC) in Gulfport, Mississippi, includes the long-term storage and handling of the Vietnam-era defoliant herbicide orange (HO) at what is now known as Site 8. U.S. Air Force (USAF) records indicate that nearly 850,000 gallons of HO were stored at the base between 1968 and 1977. Interviews with workers at NCBC Gulfport indicated that spills onto the sandy soil were commonplace. Between 1986 and 1988, the USAF conducted soil remediation activities at Site 8 by excavating and incinerating impacted soil at the site.

This Surface Water and Sediment Dioxin Delineation Report describes the activities conducted as specified in the On-Site and Off-Site Delineation Work plans (ABB Environmental Services, Inc. [ABB-ES], 1996a and 1996b). The work plans were required by the Administrative Order (AO) issued by the Mississippi Department of Environmental Quality in February 1996. The AO was issued in response to sample results, which indicate that HO-related dioxins and furans had been transported beyond the boundaries of the storage area at Site 8 in surface water and sediment.

The AO required the development and execution of these work plans to identify and delineate environmental media (sediment, surface water, soil, and groundwater) that may contain dioxin as the result of storage of HO at NCBC Gulfport. These two work plans focused on identifying and delineating surface water and sediment contamination on and off the NCBC Gulfport base. The study area used to complete this objective included all on-base drainage areas, known or suspected storage areas, and all off-base surface water bodies that receive surface water from on base sources. The On-Base and Off-Base Work Plans were the first of the AO work plans to be executed and the results of both are described in this report.

The primary objectives of on-base and off-base sample collection were to (1) determine which surface water bodies were impacted by the transportation and migration of dioxin-contaminated sediment from the original storage area (Site 8), (2) determine the maximum extent of dioxin contamination related to HO, and (3) delineate the levels of dioxin that exist in the drainage areas shown to be impacted by dioxin. Additional consideration was given to potential point sources such as Site 4, Site 5, and alternate storage areas around Site 8. These objectives were accomplished by collecting (1) sediment samples from nearly all of the major drainage ditches in the study area (2) surface water samples at 10 percent of the sediment sample locations, (3) seep and groundwater samples from the inactive landfills Sites 4 and 5, and (4) surface soil samples on and around the former storage areas at Site 8.

The technical obstacles to delineating a chemical like dioxin in dynamic matrices such as surface water and sediment are numerous. They include (1) the virtually odorless and invisible contaminant dioxin, (2) the fact that the matrix is constantly in motion, and (3) the fact that the primary sources of contaminants existed over 20 years ago.

Given these challenges, a program was developed that integrated innovative strategies with attainable goals to meet the requirements of the AO. The innovative strategies included the use of organic carbon as an indicator parameter, evaluation of the sediment recovery traps (SRTs) to quantify dioxin and sediment

transport, and basing the sampling plan on an approach that consistently sought to identify locations with the highest levels of dioxin, which together reduced the overall project cost. Attainable goals were established by treating the rather large on- and off-base areas as a collection of smaller projects and by executing the work in two phases. Through the conceptual model process, logical points to subdivide the study area were identified (e.g., drainage areas and individual stream segments) that were based on hydraulic data, historical investigations, and an understanding of the physical and chemical characteristics of the contaminant: dioxin. Through the use of two-phased implementation, the following goals were obtained: (1) identify which drainage areas or stream segments were contaminated (Phase 1), and (2) delineate ditch and stream segments based on technical practicalities and what the presumed remedy would be for that given segment (Phase 2).

Taken as a whole, the approach and results of the identification and delineation phases were successful. However, the complexities in the Outfall 3 Swamp prevented its completion in only two phases. The results of the additional work in the swamp will be presented in a separate report.

Overall, the results of the surface water and sediment sampling showed that the areas with the greatest concentrations of dioxin are located in the surface soil and ditch sediments immediately adjacent to the original storage (Site 8) in Drainage Areas 1, 2, and 3. From there, dioxin levels tended to decrease dramatically in ditch sediment with distance from the source area, with the exception of Outfall 3 Swamp. The swamp received sediment from ditches that originated on and near Site 8. It now appears that the low energy environment of the swamp has promoted the deposition of dioxin-contaminated sediment. The characterization and delineation in the swamp will be completed separately from this work and the results will be presented in a subsequent report.

Otherwise, the balance of the on-base drainage ditches in Areas 1, 2, and 3 contain local areas where dioxin-containing sediment tends to accumulate. The change between continuously contaminated ditch segments and discontinuously contaminated segments are described in this report as inflection points. These inflections accompany significant dioxin level changes and were important to determine lines of delineation. Also, inflection points were important to establish because they could be used to improve the efficiency of future remediation activities.

Off-base surface water bodies (with the exception of the swamp) contained much lower levels of dioxins and furans than sediment samples on base. Sample results indicated that the sediment samples in Turkey Creek from Canal Road to Bernard Bayou contained only low levels of dioxins (less than 10 parts per trillion [ppt]) and show no consistent HO relationship. There were no lines of delineation interpreted, or Phase II samples collected in Turkey Creek.

Similarly, results of Brickyard Creek samples indicated only low levels of dioxins with virtually no tetrachlorodibenzodioxin (TCDD). Previous investigations in Brickyard Bayou have produced higher dioxin levels, but these likely represent localized effects of random depositional patterns and are not definable.

The remaining off-base samples were collected in Bernard Bayou to determine the extent of potential dioxin contamination from Turkey Creek and Brickyard Bayou

from Bernard Bayou. The samples along the Brickyard-Bernard Bayous confluence were relatively low level, showed no discernable trends, and did not contain significant TCDD. At this point, Bernard Bayou may be considered to contain a relatively uniform level of dioxins that range in the 20s and 30s ppt. Areas with higher levels, if they occur, are likely to indicate multiple sources of dioxins and localized effects of random depositional patterns that cannot be practically defined due to water depth.

Surface water sample results were consistently in the low parts per quadrillion, corroborating with the partitioning coefficients that indicate dioxins and furans are virtually insoluble in water. These results also indicated that the primary transport mechanism for dioxins and furans on and off base is adsorbed to organic-rich bedload sediment and not in solution in surface water.

Finally, the implementation of innovative strategies such as (1) total organic carbon as an indicator for dioxin, (2) toxicity equivalent/TCDD ratios as a indicator of dioxin source, and (3) the biased sampling approach – reduced the cost to implement these work plans and improved the accuracy of the delineation. These innovations should be used in future monitoring and remediation actions to reduce cost and improve efficiency.

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GLOSSARY

ABB-ES	ABB Environmental Services, Inc.
AO	Administrative Order
CRQL	contract required quantitation limit
DCB	decachlorobiphenyl
DQO	data quality objective
HAZWRAP	Hazardous Waste Remedial Action Program
HO	herbicide orange
HpCDD	heptachlorodibenzo-p-dioxin
HxCDD	heptachlorodibenzo-p-dioxin
IR	Installation Restoration
MSDEQ	Mississippi Department of Environmental Quality
MS/MSD	matrix spike/matrix spike duplicate
NCBC	Naval Construction Battalion Center
NEESA	Naval Energy and Environmental Support Activity
OCDD	octachlorodibenzodioxin
OCDF	octachlorodibenzofuran
PARCC	precision, accuracy, representativeness, comparability and completeness
PCB	polychlorinated biphenyl
PeCDD	pentachlorodiphenodioxin
ppb	parts per billion
ppq	parts per quadrillion
ppt	parts per trillion
QC	quality control
RPD	relative percent difference
SDG	sample delivery group
SRT	sediment recovery trap
SVOC	semivolatile organic analysis
2,4,5-T	2,4,5-trichlorophenoxyacetic acid
TCDD	tetrachlorodibenzo-p-dioxin
TCMX	tetrachloro-m-xylene
TEQ	toxicity equivalent
TOC	total organic carbon
USAF	U.S. Air Force
USEPA	U.S. Environmental Protection Agency
VOC	volatile organic compound

CHAPTER 1.0

1.0 INTRODUCTION

Under contract to the U.S. Department of the Navy, Southern Division, Naval Facilities Engineering Command, the On-Site and Off-Site Delineation Work Plans (ABB Environmental Services, Inc. [ABB-ES], 1996a and 1996b) were prepared for the Naval Construction Battalion Center (NCBC) in Gulfport, Mississippi. These work plans were prepared under the Comprehensive Long-Term Environmental Action, Navy, Contract No. N62467-89-D-0317, Contract Task Order No. 096.

On February 14, 1996, the Mississippi State Department of Environmental Quality (MSDEQ) as a result of environmental issues at NCBC Gulfport, issued Administrative Orders (AOs) No. 3193-96 and No. 3194-96 to the U.S. Navy and U.S. Air Force (USAF), respectively. These orders contained identical requirements of the Navy and USAF. These orders required an on-site delineation work plan to be submitted and executed in order to identify and delineate dioxin-impacted sediment, surface water, soil, and groundwater within the boundaries of the base. Additionally, these orders required an off-site delineation work plan to be submitted and executed in order to identify and delineate dioxin-impacted sediment, surface water, and soil outside the boundaries of the base.

The primary focus of the On-Site and Off-Site Work Plans was the determination and delineation of the extent that herbicide orange (HO)-related dioxins and furans impacted the surface water and sediment in the ditch and stream systems on and near NCBC Gulfport. Additionally, surface soil samples at Site 8 and limited groundwater and seep samples at Sites 4 and 5 were collected to examine the impact of dioxins and furans at those locations. The results of the activities that these On-Site and Off-Site Work Plans guided are provided in this Dioxin Delineation Report.

In this document, unless a specific congener is identified, the term "dioxin" will be used to refer to the group of 17 dioxin and furan congers that have been assigned toxicity equivalency factors. These toxicity equivalency factors relate the other congeners to the most toxic dioxin congener - tetrachlorodibenzo dioxin (TCDD). Therefore, when a "dioxin result" is presented, the value is the sum of all 17 dioxin and furan congeners, unless the result of a specific congener is presented.

1.1 BASE HISTORY. This section of the report provides a brief account of the history of NCBC Gulfport with an emphasis on the storage and handling of HO. More detailed base and site histories may be found in several other documents including the On-Site Delineation Work Plan (ABB-ES, 1996a), Off-Site Delineation Work Plan (ABB-ES, 1996b), and the Hazardous Waste Remedial Action Program (HAZWRAP) Summary Report (HAZWRAP, 1991).

NCBC Gulfport is located in the western part of Gulfport, Mississippi, in Harrison County, in the southeastern corner of the state, approximately 2 miles north of the Gulf of Mexico (Figure 1-1). The base occupies 1,100 acres and has an elevation averaging 30 feet above sea level, with the only significant exception being the linear piles of bauxite stored on the surface. These bauxite piles range from 30 to 40 feet above the grade of the base.

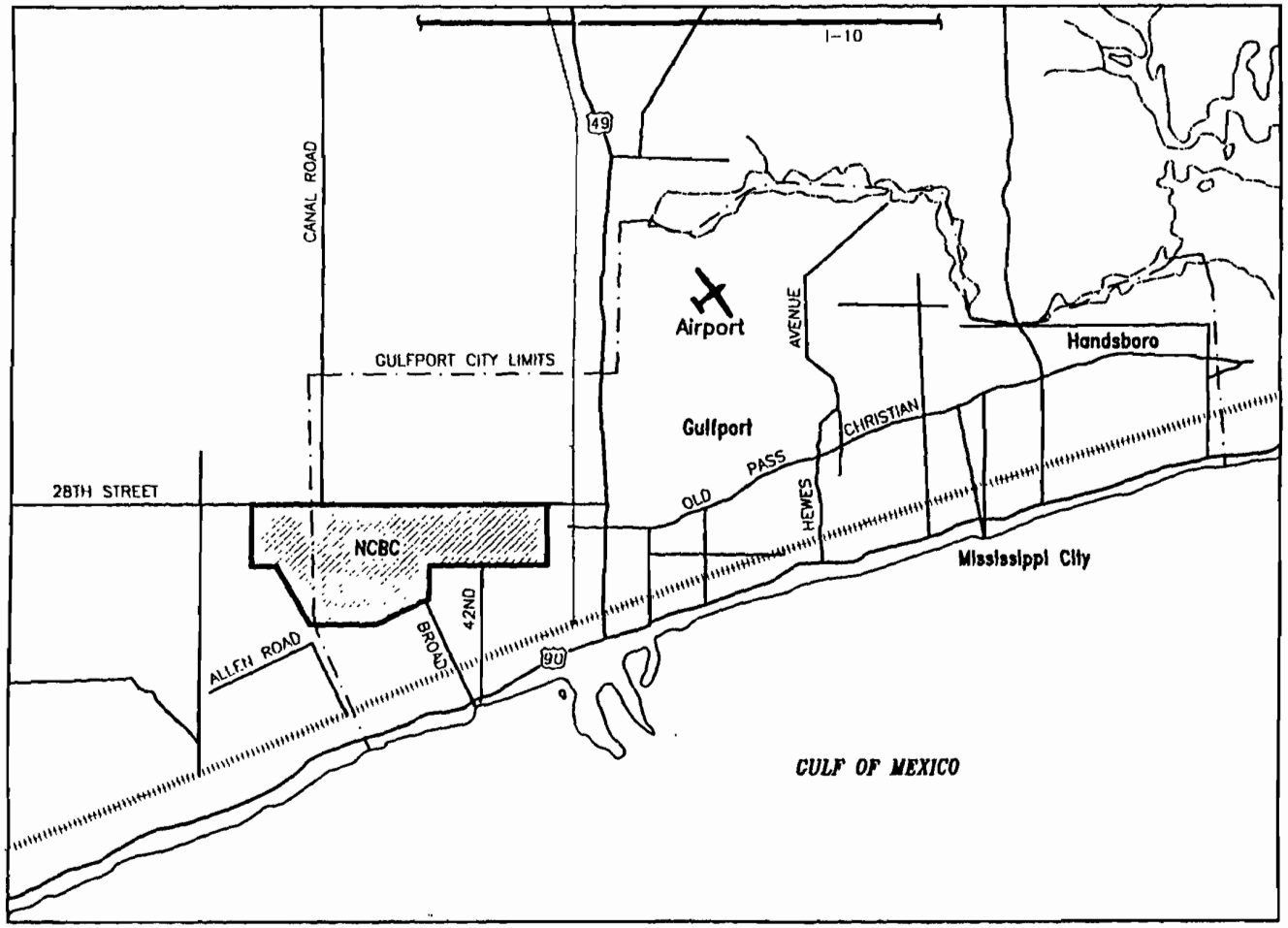

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FIGURE 1-1
NCBC GULFPORT VICINITY MAP

SURFACE WATER AND SEDIMENT DIOXIN DELINEATION REPORT

NAVAL CONSTRUCTION BATTALION CENTER GULFPORT, MISSISSIPPI

From 1968 through 1977, about 23 acres of the base (Site 8) were used for storage and handling of approximately 850,000 gallons of HO in 55-gallon drums (Figure 1-2). Spills and leaks of HO occurred during that period in the area later known as Site 8 (Areas A, B, and C, Figure 1-3). The magnitude of the release of HO and dioxin was investigated in 1977 under the Initial HO Monitoring Program (Occupational and Environmental Health Laboratory, 1979). Subsequent investigations in 1986 and 1987 delineated the horizontal and vertical extent of dioxin in soil to 1 part per billion (ppb). The delineation work at Site 8 was followed by full-scale incineration of the soil contaminated above 1 ppb. The incineration was completed in 1988, and the resulting ash was stored in piles on Area A of Site 8 (HAZWRAP, 1991).

1.2 PREVIOUS INVESTIGATIONS. A comprehensive listing and description of previous HO investigations associated with the base can be reviewed in the following companion documents: On-Site Delineation Work Plan (ABB-ES, 1996a) and Off-Site Delineation Work Plan (ABB-ES, 1996b).

Basewide Sampling. In 1995, ABB-ES (presently Harding Lawson Associates [HLA]) reported on an investigation of surface water and sediment samples at major outfalls and onflows around the NCBC (ABB-ES, 1995a). Groundwater samples from all existing monitoring wells at Installation Restoration (IR) sites were also collected. The results of this study indicated the following.

- Dioxin was detected in the sediment samples collected at Outfall 1 (0.2 part per trillion [ppt]), Outfall 3 (150 ppt), Outfall 4 (0.8 ppt), and Onflow 1 (74 ppt).

- Dioxin was detected in a groundwater sample from at least one monitoring well from all sites. A monitoring well at Site 4 (GPT-4-3) had the highest result (34.1 parts per quadrillion [ppq]), which exceeds the regulatory limit.

- Dioxin was detected up to 1.2 ppq in surface water samples.

- Sediment-containing dioxin is likely migrating off base through Outfalls 1, 3, and 4.

- Low-level dioxin occurrence was discovered along the southern perimeter of the base near Outfalls 2, 3, and 4 South. The levels were generally less than 10 ppt with no tetrachlorodibenzo-p-dioxin (TCDD), and no direct hydraulic connection with Site 8 has been established.

This program recommends that confirmation of dioxin levels in the groundwater be performed thorough review of past disposal practices, as well as a definitive analysis of the types of dioxin congeners present. Both are included in the Groundwater Investigation Work Plan (ABB-ES, 1997a) and related monitoring activities.

Site 8 Hydrogeologic Assessment. A hydrogeologic assessment at Site 8 was performed in 1994 and 1995 (ABB-ES, 1994 and 1995b through 1995f) as an addendum

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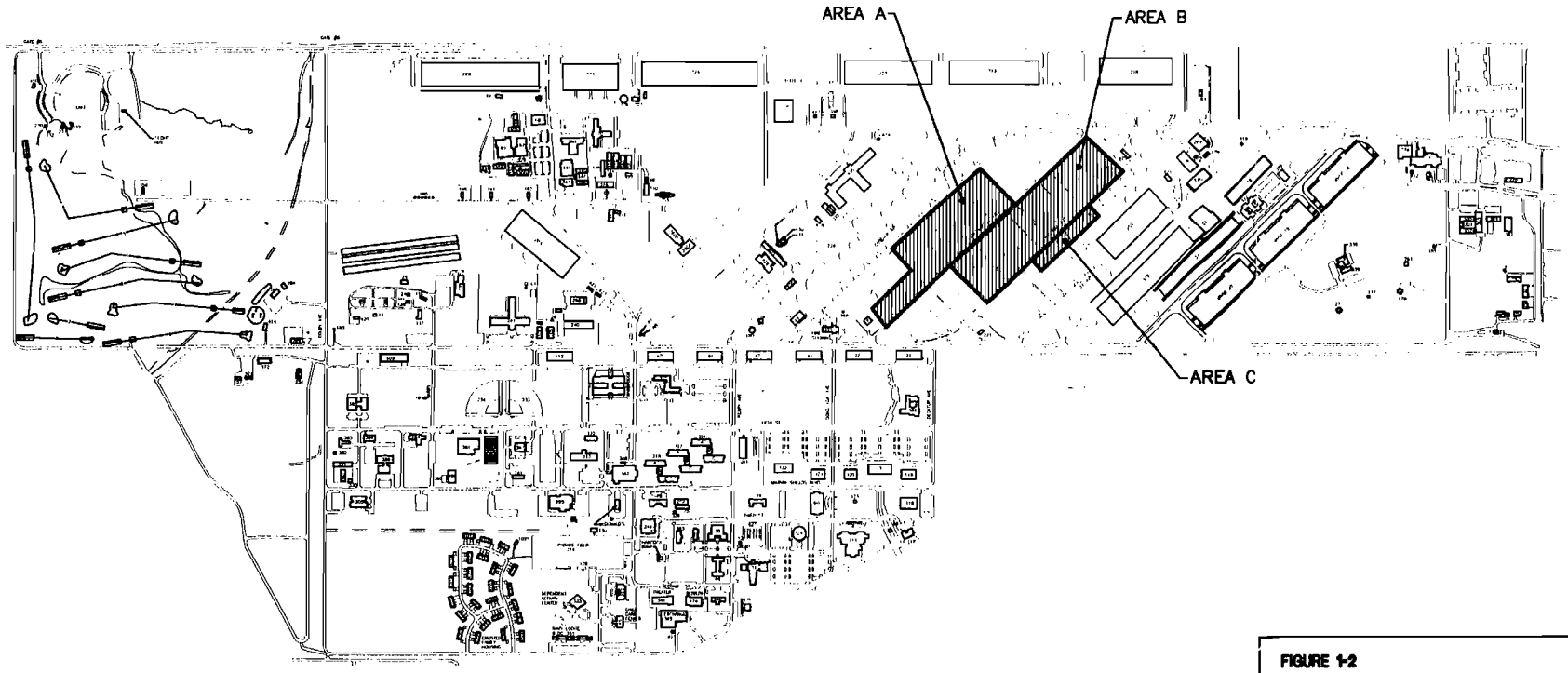

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FIGURE 1-2
LOCATION OF FORMER HERBICIDE ORANGE STORAGE AREAS

SURFACE WATER AND SEDIMENT DIOXIN DELINEATION REPORT

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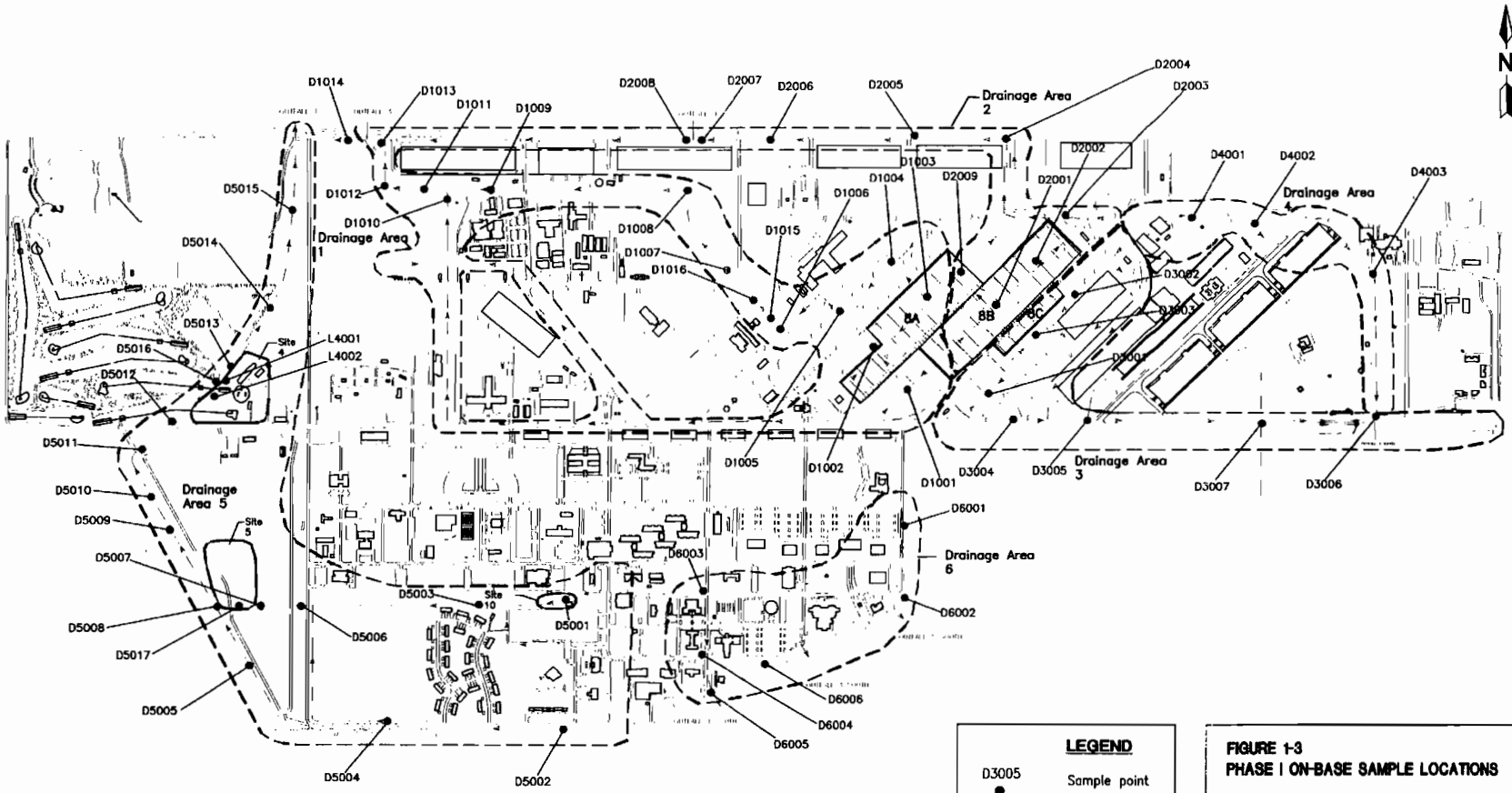

FIGURE 1-3
PHASE I ON-BASE SAMPLE LOCATIONS

SURFACE WATER AND SEDIMENT DIOXIN DELINEATION REPORT

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to the Versar (1990) sampling and analysis plan to determine the effects of HO storage on the underlying aquifer. Quarterly groundwater samples were collected from 4 monitoring wells along with 10 samples of ash. Below are findings from these monitoring and sampling activities.

- Ash sample results for TCDD ranged from nondetect to approximately 70 ppt, although toxicity characteristic leaching procedure results on the samples with highest results were less than 3 ppt.

- Groundwater flow across Site 8 is generally to the west-northwest.

- TCDD was detected in groundwater samples collected from shallow monitoring wells at concentrations up to 60 ppq, which is above the maximum contaminant level of 30 ppq.

- TCDD concentrations fluctuated with groundwater levels. For example, during periods of higher groundwater elevations at monitoring well GPT-A-2, TCDD toxicity equivalents (TEQs) were approximately 60 ppq, and during periods of lower groundwater elevations, TCDD TEQs were 0.15 ppq.

The results from this effort were used in the Delisting Petition Addendum (ABB-ES, 1997b). The hydrogeologic assessment did confirm the presence of dioxin-contaminated groundwater, which most likely occurred as a result of the storage and handling of HO at Site 8. The dioxin congeners that were discovered in the groundwater samples at Site 8 are proportionally similar to those that are found in HO. The extent of groundwater contamination was not the objective of the Site 8 hydrologic investigation. The extent of groundwater contamination will be addressed during the implementation of the Groundwater Investigation Work Plan (ABB-ES, 1997a).

1.3 OBJECTIVES AND SCOPE OF THE ON-BASE AND OFF-BASE DELINEATION ACTIVITIES. The primary objectives of these work plans were to identify and delineate environmental media (sediment, surface water, soil, and groundwater) that may contain dioxin as the result of storage of HO at NCBC Gulfport.

The methods and techniques used to determine the potential effect that dioxin had on specific media differed between the on-base and off-base investigations. The following paragraphs highlight these differences.

On-Base Objectives. Previous investigations into the storage and handling practices of HO indicated that on-base media might have been impacted in several ways. These potentially affected media and the associated transport mechanism/ migration pathways included

1. direct spillage of HO onto surface soil,

2. erosion of dioxin-contaminated surface soil and transport into the surface water systems,

3. potentially large amounts of organic-rich sediment as dioxin-contaminated runoff is transported through the base's ditch system,

4. groundwater via seepage of HO through the vadose zone or disposal of HO in landfills, and

5. seepage of dioxin-containing fluids from landfills where HO was reportedly disposed of.

Considering these five potential scenarios, the on-base activities focused on characterizing sediments in base ditches and surface soil at Site 8. The primary objectives of on-base sample collection were to (1) determine which drainage areas were impacted by the migration of dioxin-contaminated sediments, (2) assess the extent of dioxin contamination related to the storage and handling of HO, and (3) delineate the levels of dioxin that exist in the drainage areas shown to be impacted by dioxin. Additional consideration was given to potential sources such as Site 4, Site 5, and alternate storage areas around Site 8. These objectives were accomplished by collecting (1) sediment samples from nearly all of the major base drainage ditches; (2) surface water samples at 10 percent of the sediment sample locations; (3) seep and groundwater samples from the inactive landfills, Sites 4 and 5; and (4) surface soil samples on and around the former storage areas at Site 8.

To more effectively determine the sources and migration patterns of dioxin on base, the surface water drainage systems were divided into six drainage areas. Figure 1-3 shows these drainage areas, the location of the original HO storage area (Site 8), and the locations of the inactive landfills on the base.

Off-base Objectives. The objectives of off-base activities were more narrowly focused on identifying and delineating drainage systems that potentially contained dioxin. The surface water systems considered included all ditches, streams, canals, and bayous that directly or indirectly receive surface water flow from the NCBC Gulfport drainage system.

The objectives for off-base activities were to (1) determine the extent that dioxin-contaminated sediment migrated from the base and (2) delineate the levels that currently exist in all affected drainage systems. The off-base drainage systems studied included Turkey Creek, Bernard Bayou, Brickyard Bayou, and Canal No. 1, as shown on Figure 1-4.

To provide for a more focused investigation, both on-base and off-base sampling investigation activities designed to meet the stated objectives were organized into two phases. The first phase determined the extent of dioxin contamination in both on-base and off-base systems. Phase I activities and results are summarized in Chapter 2.0 (a complete Phase I Report is contained in Appendix A). The second phase of sampling was conducted to delineate the levels and distribution of dioxin contamination more broadly observed in Phase I.

1.4 REPORT ORGANIZATION. This report is organized into six chapters: (1) introduction to the program, (2) review of Phase I activities and results, (3) Phase II delineation and sampling results, (4) an interpretation and analysis of data, (5) presentation of data validation, (6) delineation results, and (7) recommendations.

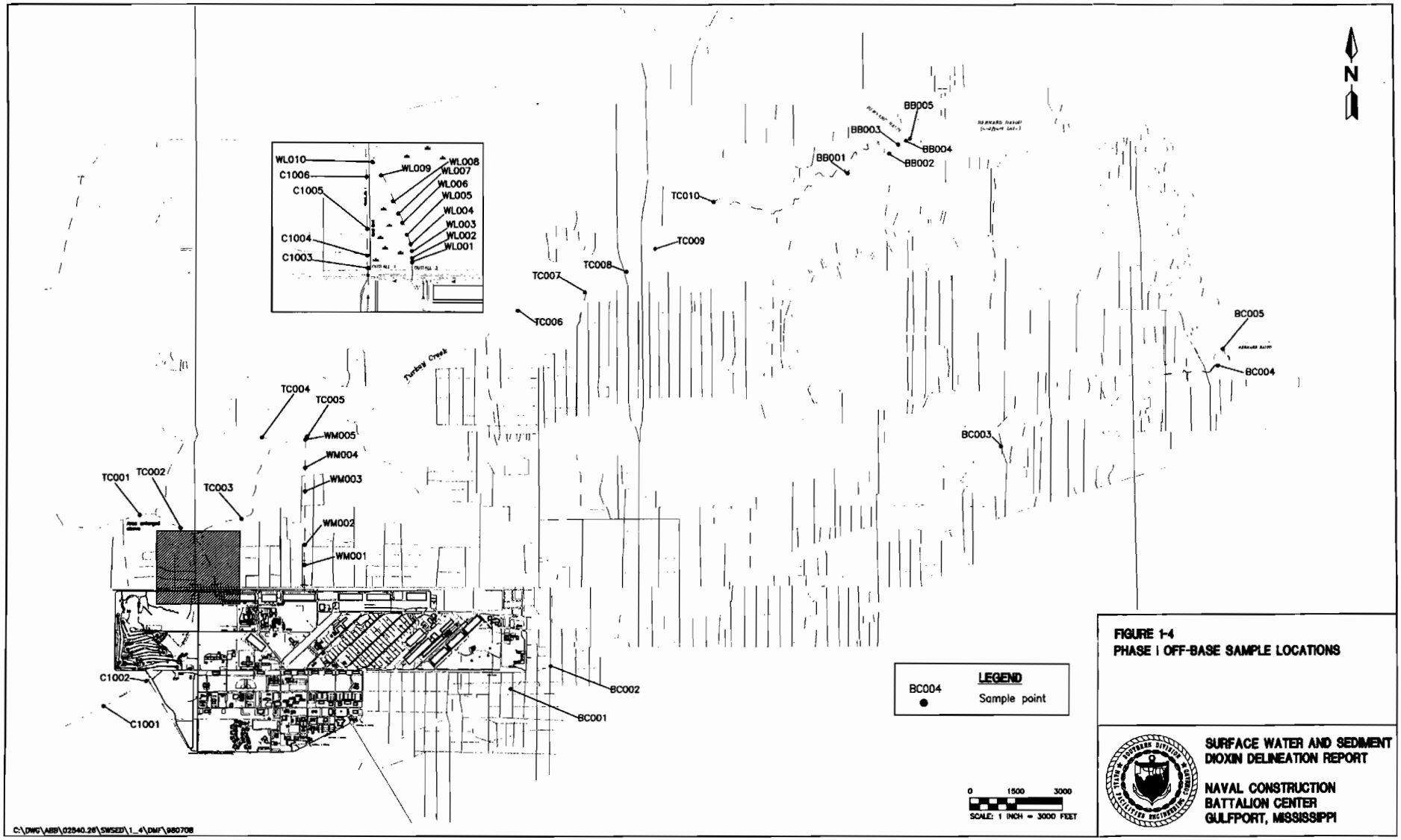

FIGURE 1-4
PHASE I OFF-BASE SAMPLE LOCATIONS

SURFACE WATER AND SEDIMENT DIOXIN DELINEATION REPORT

NAVAL CONSTRUCTION BATTALION CENTER GULFPORT, MISSISSIPPI

CHAPTER 2.0

2.0 PHASE I SAMPLING SUMMARY

This chapter reviews Phase I activities and results first presented in the Phase I Surface Water and Sediment Recommendation Report (ABB-ES, 1997c). That document is presented in its entirely in Appendix A. The following sections present the Phase I data and recommendations used to guide Phase II activities (Chapter 4.0).

2.1 PHASE I ACTIVITIES. Phase I activities were conducted over three sampling shifts during April and May 1997. During these sampling activities, 166 locations were investigated and sampled. As shown on Figures 1-3 and 1-4, the primary focus was sediment sampling from on-base and off-base ditches. A biased sampling method was used to collect the sediment samples due to the variable nature of dioxin transport mechanism and deposition. Sediment samples were collected in low-energy environments where organic-rich sediment (typically silt and clay) was observed. Previous investigation results have shown a strong correlation between results of dioxin concentrations and organic carbon (ABB-ES, 1995a). More precisely, the total organic carbon (TOC)/dioxin relationship has consistently shown that if dioxin is available in the migration pathway (bedload) of a particular ditch, then increasing levels of organic carbon will be associated with increasing levels of dioxin. This dioxin/organic carbon relationship continued throughout this study, and the results will be presented in Chapter 4.0.

The relationship between TEQ and TCDD was examined during this study. The percentage of the overall TEQ that can be attributed to TCDD (the most potent congener) can be a good indicator as to the source of the dioxins and furans since HO-related dioxins are dominated by TCDD. Ratios above 50 percent TCDD are best for identifying HO as the potential source; however, lower ratios are not as reliable and may be less conclusive as to the original source.

To aid the interpretation of the TCDD ratio, every result box presented on the figures and tables of this document will include the TCDD/TEQ ratio. It should be kept in mind that these ratios are indicators of source chemical but not the final definitive answer as to the original source. For such an answer, a complete fingerprint would need to be completed.

Surface water samples have consistently produced results that confirm that the dioxin migration pathway in ditches is through the bedload sediment and not as dissolved or suspended load in surface water (ABB-ES, 1995a). As a means of confirming this pathway, as well as confirming that surface water on base is relatively free of dioxin contamination, surface water samples were collected along with sediment samples at 20 percent of the locations.

In the 28th Street removal investigation (ABB-ES, 1995g), surface soil in low-lying, flood-prone areas was shown to have the potential for receiving dioxin-containing sediment. In response to this discovery, surface soil samples were collected in areas determined to be prone to flooding and overbank deposition. Surface soil samples were also collected from and around Site 8 (Appendix A) to determine the extent of surface soil contamination remaining at the site following the excavation and removal in 1986 and 1987 (EG&G Idaho, 1987). It should be noted that the cleanup standard in 1987 for Site 8 was 1 ppb.

Groundwater and seep samples were collected from hydraulically downgradient locations at Sites 4 and 5 (Appendix A) to investigate the potential that these landfills could be emitting dioxin sources into the groundwater or directly into the ditches that flow adjacent to both sites. Seven groundwater wells were installed (four at Site 4 and three at Site 5), and two seep samples were collected from Site 4. No seeps were present at Site 5 during the field activities.

The locations of Phase I samples were initially defined at the time of collection by measuring the distances to local landmarks such as buildings or ditch confluences. Later, the locations were more accurately mapped using survey-grade global positioning system instrumentation.

All groundwater samples and 10 percent of surface soil, sediment, and surface water samples were analyzed for a full suite of analytes. In addition to dioxin and TOC, the full suite included chlorinated herbicides, pesticides, polychlorinated biphenyls (PCBs), volatile organic compounds (VOCs), and semi-volatile organic compounds (SVOCs).

2.2 ON-BASE SAMPLING RESULTS SUMMARY. This section briefly describes the results of the on-base sampling activities and pertinent data analysis included in the Phase I Dioxin Delineation Report. The full Phase I report is included in Appendix A. This section is organized along the sampling boundaries and media established for (1) sediment sampling in the six drainage areas on base; (2) surface water, groundwater, and seep sampling on base; (3) sediment sampling in the four off-base drainage areas that receive surface water from the base; and (4) surface water samples collected off the base. The boundaries of these drainage areas are presented in the updated site conceptual model presented in Chapter 4.0.

In this chapter, only the results of the samples collected during Phase I will be presented. The discussion here will be limited to samples with significance, either in location or result. Analysis and discussion of the TCDD/TEQ and TCDD/TOC ratios will be provided in Chapter 4.0.

2.2.1 Sediment Sampling Results The following paragraphs describe the results of the sediment samples collected from the on-base drainage areas.

Drainage Area 1. Drainage Area 1 is the largest of the drainage areas on base and includes the majority of the primary source area, Site 8 (Figure 2-1). The focus of sampling in Drainage Area 1 was the sediment in the drainage ditches that are hydraulically connected to Site 8. The ditch that receives surface water from the largest portion of Site 8 is called the HO ditch. The updated conceptual model presented in Chapter 4.0 show this ditch in relation to Site 8. Ultimately, the drainage ditches of Drainage Area 1 convey surface water and sediment north and west to the Outfall 3 Swamp and Canal No. 1.

Sediment samples from the ditches in Drainage Area 1 produced results that ranged from less than 1 ppt (D1005) to 1.02 ppb (EEN2U) (see Attachment B in Appendix A, Results Tables). Sample EEN2U was collected from the upgradient side of SRT-N2, just downstream of D1002. The highest levels were encountered in the sediment on Site 8 (especially in upstream pools of existing sediment recovery traps [SRTs]) and in depositional areas near Outfall 3 North. In fact, a very strong trend of significantly decreasing concentrations was observed at each of the SRTs downstream of Site 8 in this drainage area. Therefore, it was not

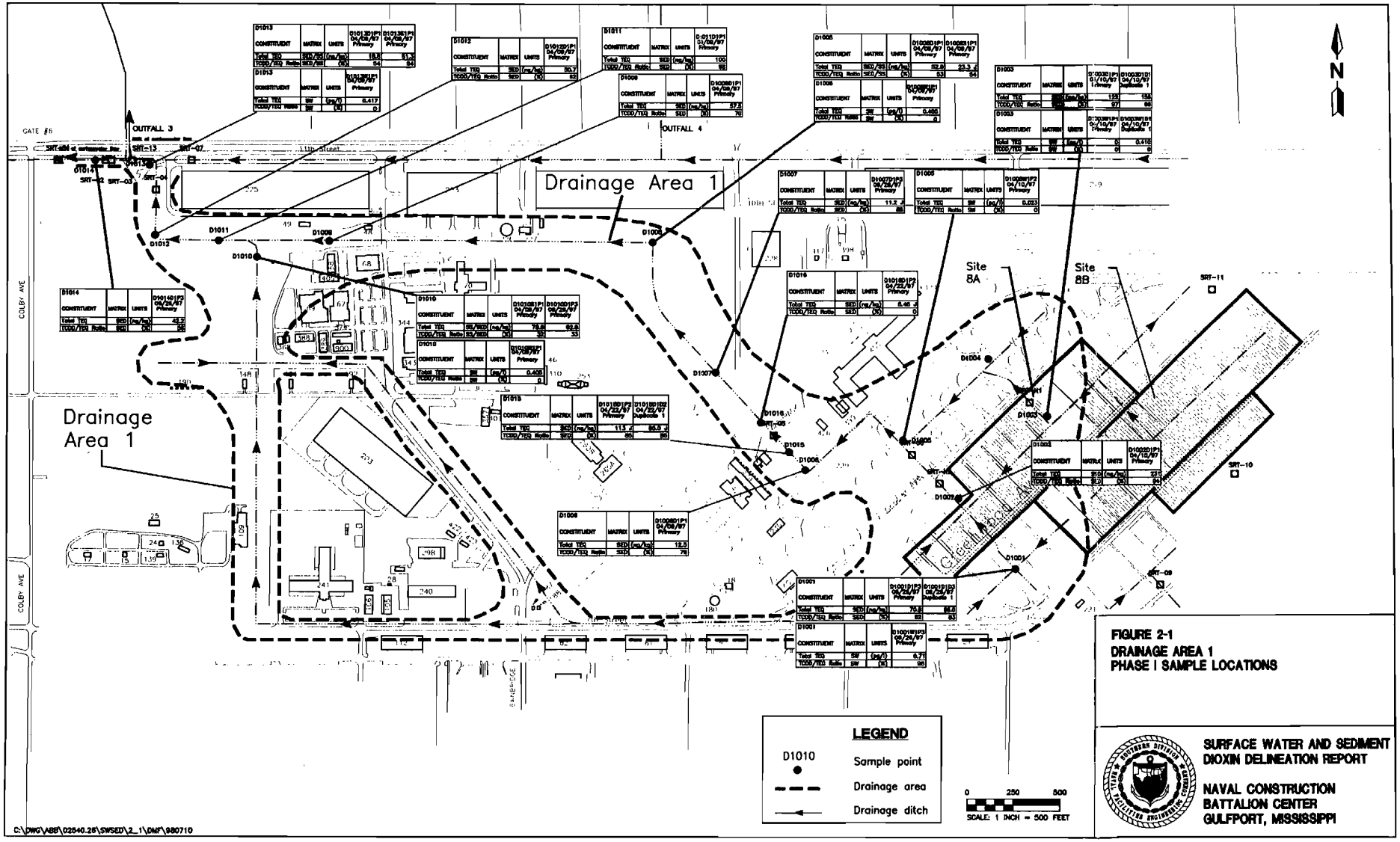

FIGURE 2-1
DRAINAGE AREA 1
PHASE I SAMPLE LOCATIONS

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surprising to obtain results of 57 ppt and less for the HO ditch (Figure 2-1) from SRT-5 to the confluence with the secondary HO ditch.

However, at the confluence of these two ditches, the results again move higher (D1010 at 82.8 ppt and D1011 at 99.6 ppt), even though there is no significant change in the depositional environment within the ditch. Additionally, D1010 was sampled from an upstream (of the HO ditch) location in the secondary HO ditch, which may indicate that this ditch currently receives or previously received contaminated sediment from the HO ditch. This alternate pathway from Site 8 required further investigation and will be discussed in Chapter 3.0.

Drainage Area 2. Drainage Area 2 occupies a small northern part of Site 8 (Areas A and B) and includes the drainage ditches that carry surface water north to Outfall 4 (Figure 2-2). The samples were collected from the ditches within this area using the biased sampling approach outlined in the On-Site Delineation Work Plan (ABB-ES, 1996a).

The results of these sediment samples ranged from approximately 4 ppb (D2001) at Site 8 to 0.5 ppt (D2006) at Outfall 4 (on Figure 5 and in Attachment B of Appendix A). The levels of dioxin TEQ in the sediment samples decreased rapidly in the ditches downstream of Site 8. The rapid decrease is likely due to the result of dioxin particles binding with organic carbon and being restrained in the sediment. The rapid decrease in dioxin TEQ levels may also have been aided by ditch maintenance activities conducted by the base until these activities were halted in 1991.

Drainage Area 3. Drainage Area 3 comprises the drainage ditches east of Holtman Avenue (Figure 2-3), including Site 8, Area C. The ditches of this drainage area drain to the east, eventually exiting the base at Outfall 2 South. The samples in this drainage area were collected following the procedures outlined in the On-Site Delineation Work Plan (ABB-ES, 1996a). Samples were only collected from ditches in this area that are hydraulically connected to Site 8.

The results of the eight sediment samples in this drainage area ranged from a low of 0.2 ppt (D3006) at Outfall 2 South to a high of 120 ppt (D3001) near the source area, Site 8c. Other than D3001, all results in this drainage area were below 15 ppt (Figure 5 and Attachment B in Appendix A). In sample D3001, TCDD consisted of nearly 70 percent of the total TEQ.

Drainage Area 4. Drainage Area 4 primarily consists of the drainage ditches that exist along 9th Street and Sylvester Drive in the northeastern part of the base (Figure 2-4). It appears that Drainage Area 4 is not hydraulically connected to Site 8, although it was close enough to warrant investigation. This drainage area eventually flows south and merges with Drainage Area 3 at Outfall 2 South.

Three sediment samples were collected in this drainage area, and the results did not indicate significant dioxin contamination, especially for TCDD. The TEQ results were 3.3 ppt, 32.8 ppt, and 3.9 ppt for D4001, D4002, and D4003, respectively. The results for D4002 can almost entirely be accounted for by hepta- and octa-chlorinated dioxins and furans, which do not necessarily indicate an HO source (Appendix B).

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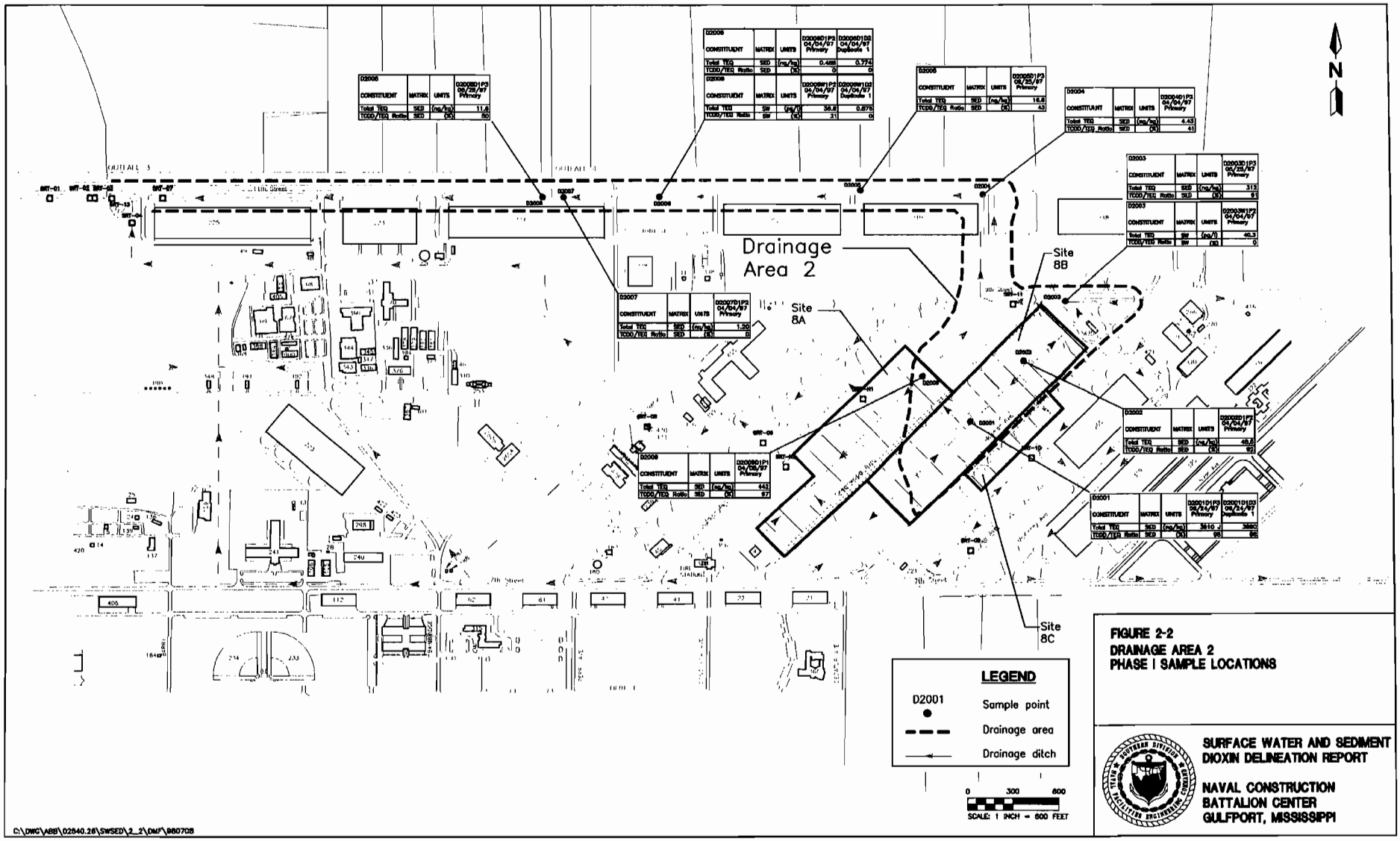

FIGURE 2-2
DRAINAGE AREA 2
PHASE I SAMPLE LOCATIONS

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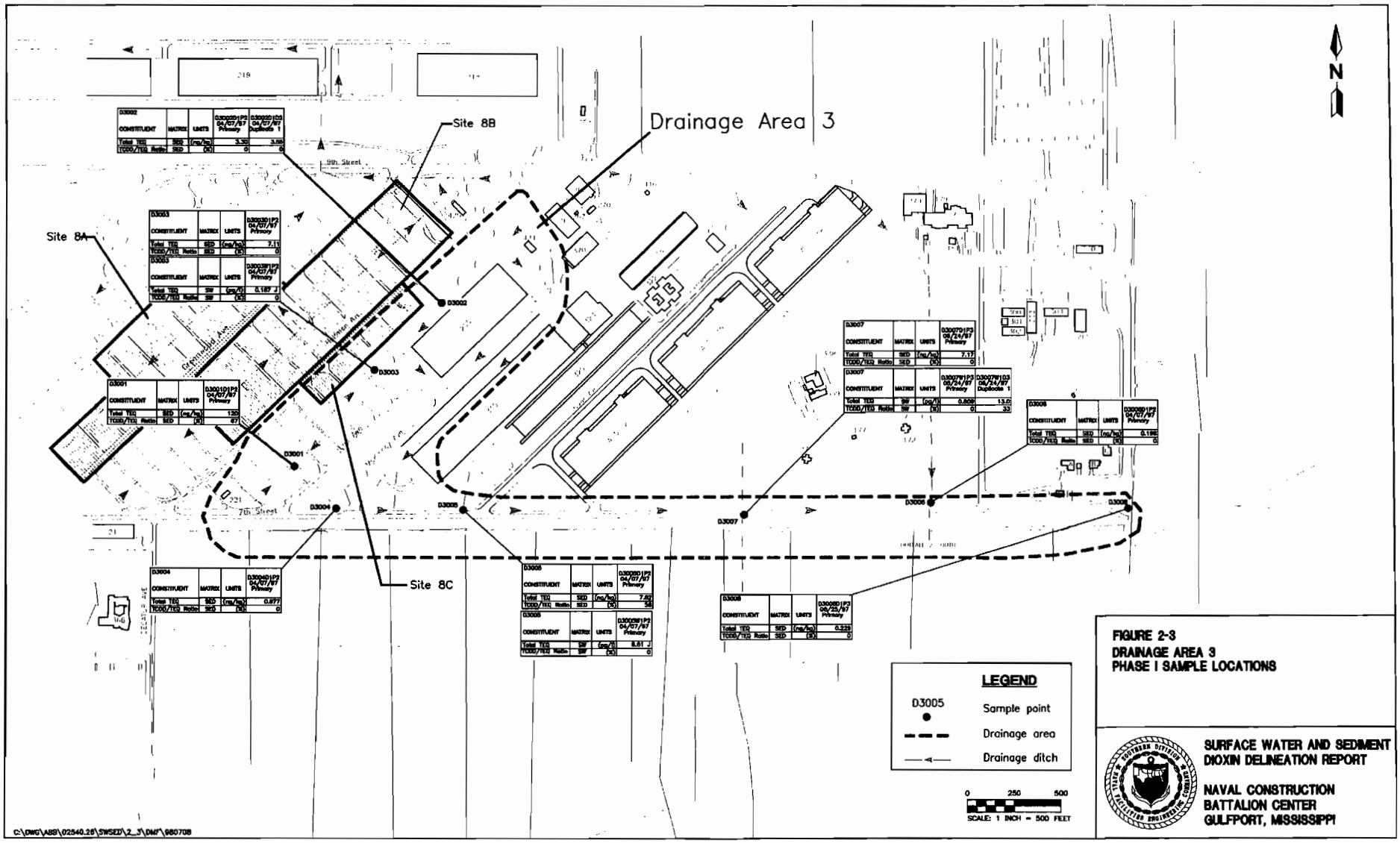

D3002 CONSTITUENT	MATRIX	UNITS	D3002D1P3 04/07/97 Primary	D3002D1P3 04/07/97 Duplicate 1
Total TEQ	SED	(ng/kg)	3.30	3.88
TCDD/TEQ Ratio	SED	(%)	0	0

D3003 CONSTITUENT	MATRIX	UNITS	D3003D1P3 04/07/97 Primary
Total TEQ	SED	(ng/kg)	7.11
TCDD/TEQ Ratio	SED	(%)	0

D3003 CONSTITUENT	MATRIX	UNITS	D3003W1P3 04/07/97 Primary
Total TEQ	SW	(pg/l)	0.187 J
TCDD/TEQ Ratio	SW	(%)	0

D3001 CONSTITUENT	MATRIX	UNITS	D3001D1P3 04/07/97 Primary
Total TEQ	SED	(ng/kg)	120
TCDD/TEQ Ratio	SED	(%)	97

D3004 CONSTITUENT	MATRIX	UNITS	D3004D1P3 04/07/97 Primary
Total TEQ	SED	(ng/kg)	0.877
TCDD/TEQ Ratio	SED	(%)	0

D3005 CONSTITUENT	MATRIX	UNITS	D3005D1P3 04/07/97 Primary
Total TEQ	SED	(ng/kg)	7.62
TCDD/TEQ Ratio	SED	(%)	58

D3005 CONSTITUENT	MATRIX	UNITS	D3005W1P3 04/07/97 Primary
Total TEQ	SW	(pg/l)	8.61 J
TCDD/TEQ Ratio	SW	(%)	0

D3007 CONSTITUENT	MATRIX	UNITS	D3007D1P3 08/24/97 Primary
Total TEQ	SED	(ng/kg)	7.17
TCDD/TEQ Ratio	SED	(%)	0

D3007 CONSTITUENT	MATRIX	UNITS	D3007W1P3 08/24/97 Primary	D3007W1D3 08/24/97 Duplicate 1
Total TEQ	SW	(pg/l)	0.809	13.0
TCDD/TEQ Ratio	SW	(%)	0	33

D3008 CONSTITUENT	MATRIX	UNITS	D3008D1P3 04/07/97 Primary
Total TEQ	SED	(ng/kg)	0.186
TCDD/TEQ Ratio	SED	(%)	0

D3008 CONSTITUENT	MATRIX	UNITS	D3008D1P3 08/25/97 Primary
Total TEQ	SED	(ng/kg)	0.229
TCDD/TEQ Ratio	SED	(%)	0

FIGURE 2-3
DRAINAGE AREA 3
PHASE I SAMPLE LOCATIONS

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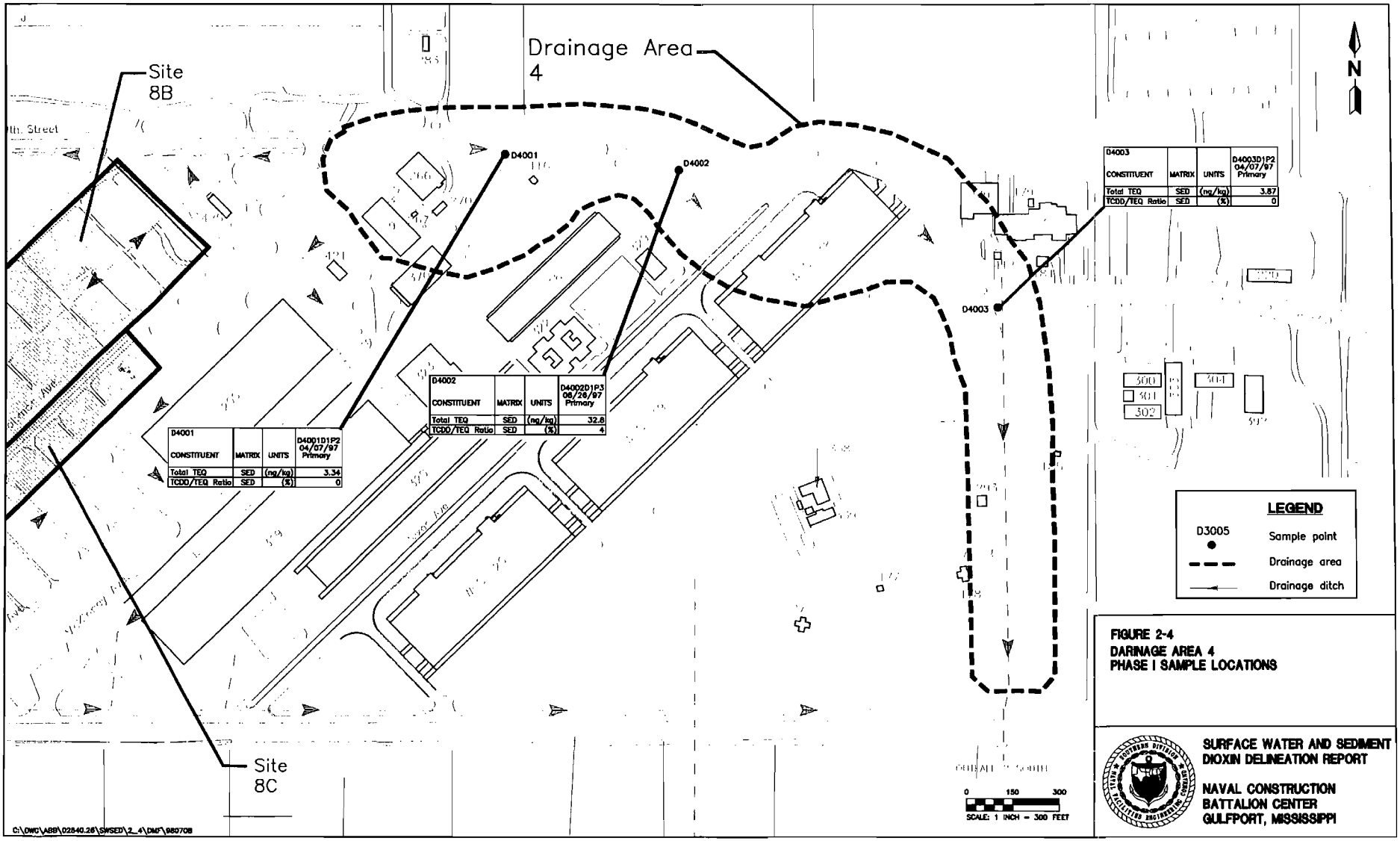

D4001 CONSTITUENT	MATRIX	UNITS	D4001D1P2 04/07/97 Primary
Total TEQ	SED	(ng/kg)	3.34
TCDD/TEQ Ratio	SED	(%)	0

D4002 CONSTITUENT	MATRIX	UNITS	D4002D1P3 06/26/97 Primary
Total TEQ	SED	(ng/kg)	32.8
TCDD/TEQ Ratio	SED	(%)	4

D4003 CONSTITUENT	MATRIX	UNITS	D4003D1P2 04/07/97 Primary
Total TEQ	SED	(ng/kg)	3.87
TCDD/TEQ Ratio	SED	(%)	0

FIGURE 2-4
DARINAGE AREA 4
PHASE I SAMPLE LOCATIONS

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Drainage Area 5. Drainage Area 5 encompasses the southern part of the base from Bainbridge Avenue west to Canal No. 1, including IR Sites 4 and 5 (Figure 2-5). The drainage area continues north along Canal No. 1 until the northern base boundary at Outfall 1 north. Drainage Area 5 does not appear to be hydraulically connected to Site 8, but potential HO sources Site 4 (landfill) and Site 5 (landfill) are located within this drainage area.

Seventeen sediment samples were collected in this drainage area because previous sampling had produced results with elevated levels of dioxin and TCDD (ABB-ES, 1995a). Conceptually, this may indicate an HO source, although the release mechanism has yet to be determined. At this time, there are considered to be three primary sources: (1) HO drum disposal at Site 4, (2) HO drum disposal at Site 5, and (3) direct application of HO in the ditches as a herbicide.

In the upper reaches of the drainage area (east of Colby Avenue), sediment samples D5002 through D5004 were collected, and the results were below 16 ppt (Appendix A, Results Tables). The dioxin and furan results at D5001 (just north of the parade field) were elevated due to interference with high levels of poly-chlorinated di-phenyl ether contamination. The presence of these ethers has led to additional sampling, and it is currently understood that high levels of PCBs (possibly related to transformer oil) were spilled at that location. The PCB and ether contamination appears to be limited to a 100-foot length of the ditch and will be handled under another program.

The drainage ditches are larger and carry surface water past IR Sites 4 and 5 west of Colby Avenue. In this part of the drainage area, the results are higher – 6 of the 10 samples were above 20 ppt – with the highest result in a good depositional area downstream of Site 4 (D50015 at 31 ppt). The TCDD congener accounts for approximately 20 to 25 percent of the TEQ in most of these samples (8 out of 10), with an average 23 percent.

However, these results do not definitively prove that dioxin is migrating directly out of the landfills. There is secondary evidence, especially with the result from sediment sample D5005, which is upstream of both landfills and produced a result of 18 ppt with nearly 80 percent of the TEQ resulting from TCDD. It is more likely that both direct application of HO and some seepage from the landfills occurred, as shown by the results of the seep samples and ground-water samples in this drainage area.

Drainage Area 6. Drainage Area 6 encompasses a part of the southern part of the base that includes Outfalls 3, 4, and 5 South (Figure 2-6). While not hydraulically connected to Site 8, the MSDEQ expressed some concern over earlier dioxin results along Perry Avenue (ABB-ES, 1996c) that showed low-level dioxins (less than 10 ppt) in the sediment. As a response, six sediment samples were added in this area.

The results of these samples (Appendix B) did not include any TCDD, and the TEQs were all below 20.4 ppt (D6005P3). Octachlorodibenzodioxins (OCDDs) and hepta-chlorodibenzo-p-dioxin (HpCDDs), which are good indicators that these results are not HO in origin, account for the majority of the TEQs.

2.2.2 Surface Water Sampling Results Surface water samples were collected at 10 percent of the sediment sampling locations. Conceptually, dioxin was not

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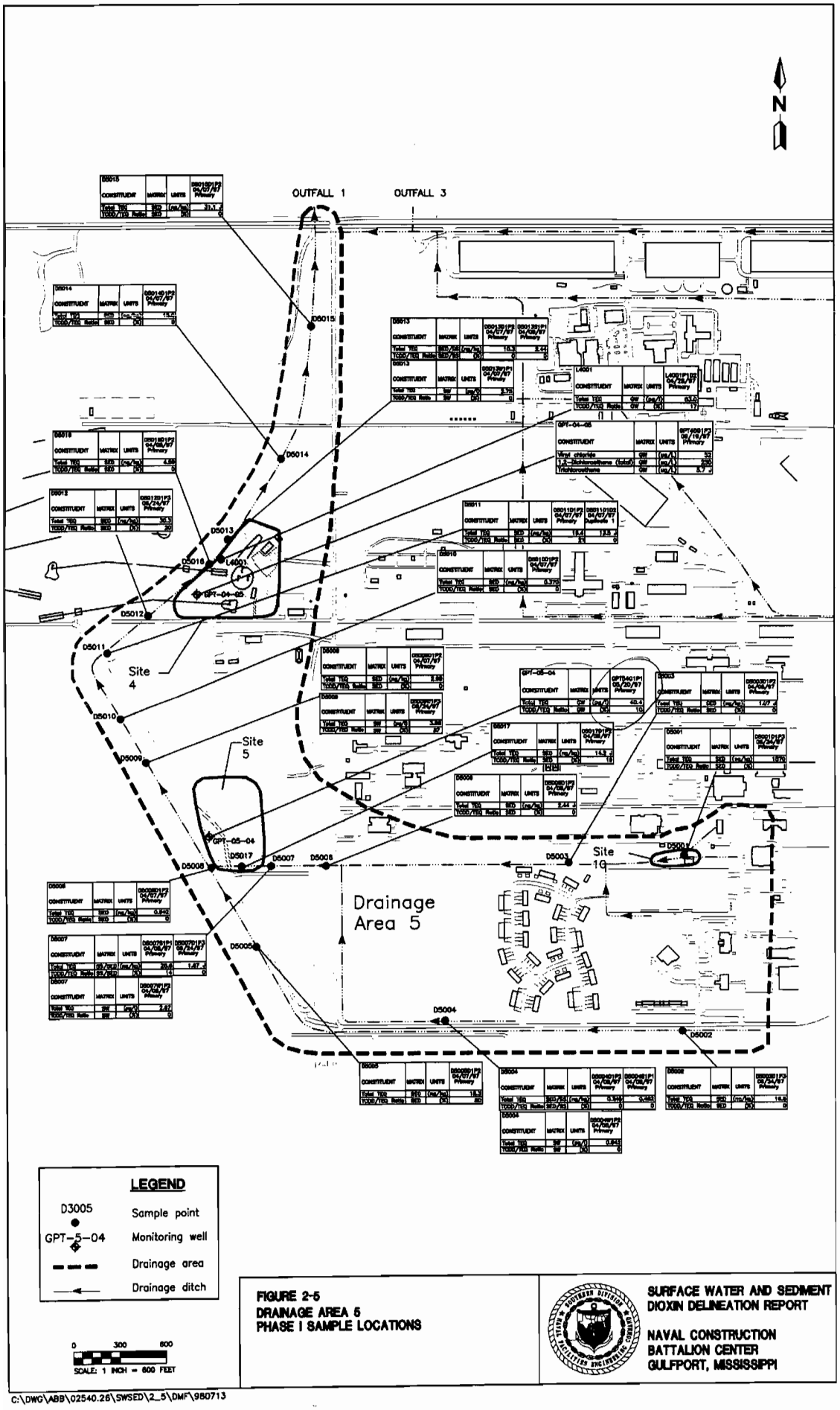

FIGURE 2-5
DRAINAGE AREA 5
PHASE I SAMPLE LOCATIONS

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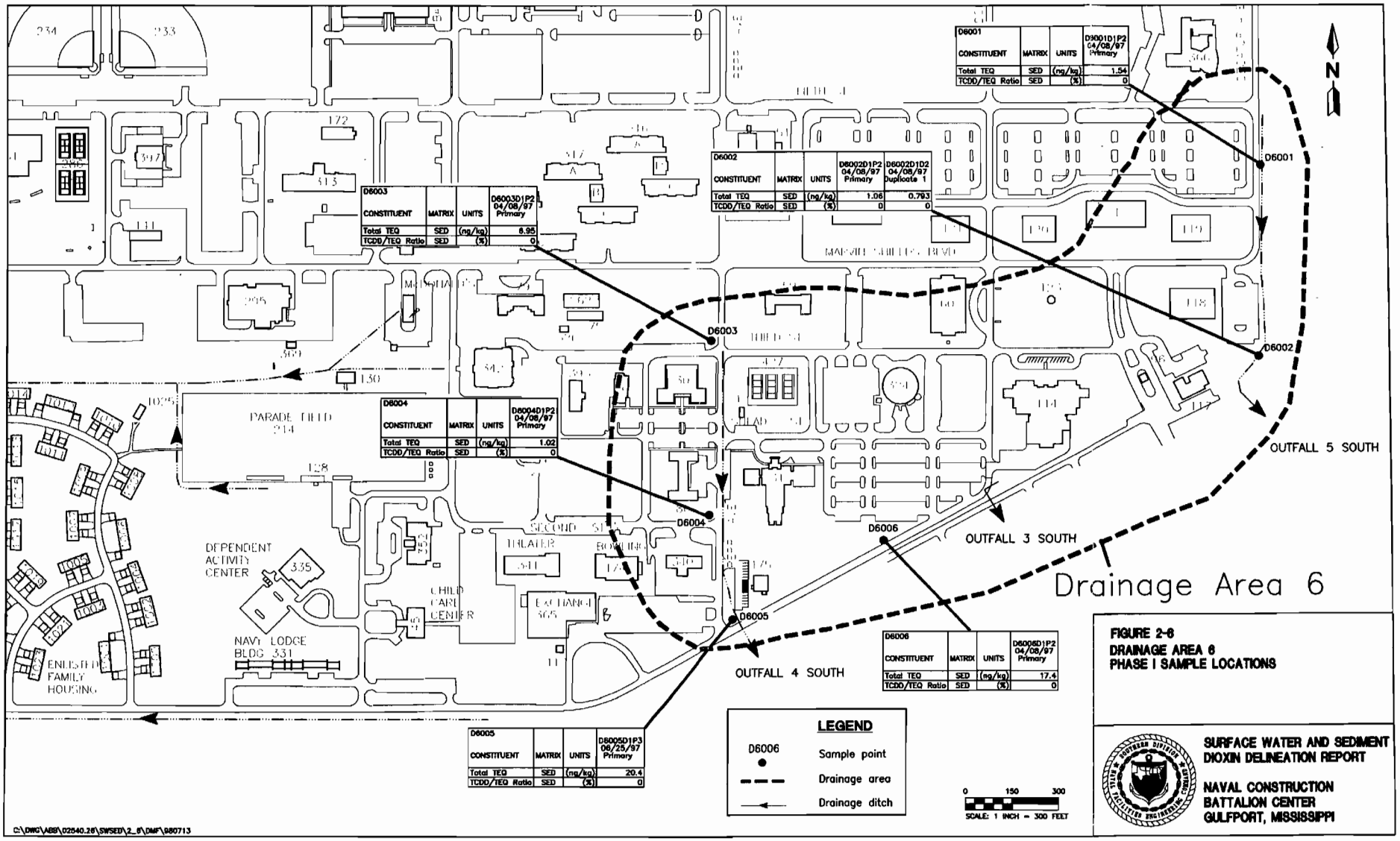

D6001 CONSTITUENT	MATRIX	UNITS	D6001D1P2 04/08/97 Primary
Total TEQ	SED	(ng/kg)	1.54
TCDD/TEQ Ratio	SED	(%)	0

D6002 CONSTITUENT	MATRIX	UNITS	D6002D1P2 04/08/97 Primary	D6002D1D2 04/08/97 Duplicate 1
Total TEQ	SED	(ng/kg)	1.06	0.793
TCDD/TEQ Ratio	SED	(%)	0	0

D6003 CONSTITUENT	MATRIX	UNITS	D6003D1P2 04/08/97 Primary
Total TEQ	SED	(ng/kg)	8.95
TCDD/TEQ Ratio	SED	(%)	0

D6004 CONSTITUENT	MATRIX	UNITS	D6004D1P2 04/08/97 Primary
Total TEQ	SED	(ng/kg)	1.02
TCDD/TEQ Ratio	SED	(%)	0

D6006 CONSTITUENT	MATRIX	UNITS	D6006D1P2 04/08/97 Primary
Total TEQ	SED	(ng/kg)	17.4
TCDD/TEQ Ratio	SED	(%)	0

D6005 CONSTITUENT	MATRIX	UNITS	D6005D1P3 06/25/97 Primary
Total TEQ	SED	(ng/kg)	20.4
TCDD/TEQ Ratio	SED	(%)	0

anticipated in the surface water based on the results of basewide sampling (ABB-ES, 1995b) and the hydrophobic nature of dioxins and furans. The surface water sample results are shown with their associated sediment sample results on Figures 2-1 through 2-6.

As expected, dioxin results for surface water samples were all significantly lower than the sediment samples at the same locations. The dioxin TEQs for surface water samples ranged from concentrations below detection limits to only 36.60 ppq at sample D2006. These results again confirm the conceptual model that dioxin contamination in the ditches is primarily contained within the bedload sediment. Given these extremely low levels, no surface water samples will be required in Phase II. A full discussion of the surface water results is presented in Appendix A.

2.2.3 Surface Soil Sampling Results Surface soil samples were collected from within and around Site 8 (Figure 2-7). Soil samples were collected from a variety of locations: stabilized soil, remediated areas, ditch overflow areas, and general low areas or swales. The initial spread of samples was intended to circle Site 8 so that the horizontal extent of soil contamination due to HO storage could be determined.

The results of the soil sampling (Figure 2-7) show that the extent of soil contamination above 15 ppt is generally restricted within the boundaries of Site 8. Where elevated levels outside of Site 8 do occur, they are isolated and apparently due to small spills. See Appendix A for a full discussion of Site 8 soil sampling results.

2.2.4 Groundwater and Seep Samples Four groundwater wells were installed and sampled at Site 4, and three wells were installed and sampled at Site 5 during Phase I (Figure 2-5). These new monitoring wells were required because the existing monitoring wells, installed during the Verification Study (Harding Lawson, 1987), were apparently placed based on the assumption that groundwater flow was southward toward the Gulf Coast. Because groundwater in the local, surficial aquifer generally flows toward local surface water features (canals, creeks, and wetland/swamps), those existing wells were in either upgradient or crossgradient locations. The analytical results of samples collected from these wells are important to assess the potential transport mechanism and migration pathways of dioxins from Sites 4 and 5. The new wells were installed hydraulically downgradient of both of these landfills (Sites 4 and 5) to an approximate depth of 25 feet below land surface.

The results from Site 4 groundwater sampling were rather unremarkable in that none of the TEQs were above 26 ppq, and no TCDD was reported in any of the samples (Figure 2-6 and Appendix A). The range of results was from a low of 0.65 ppq (GPT-4-5) to 26.4 ppq (GPT-4-6). These results do not indicate an HO source for dioxin in the vicinity of these new wells although these results do not preclude the possibility at an HO source, especially with the results of the seep samples. Given the relative immobility that dioxin has demonstrated in groundwater at the HO site (ABB-ES, 1997b), results should not be used to interpret large distances from the monitoring well.

At Site 5, three new monitoring wells were installed in downgradient locations between the site and the drainage ditch that is adjacent to the site. The TEQs

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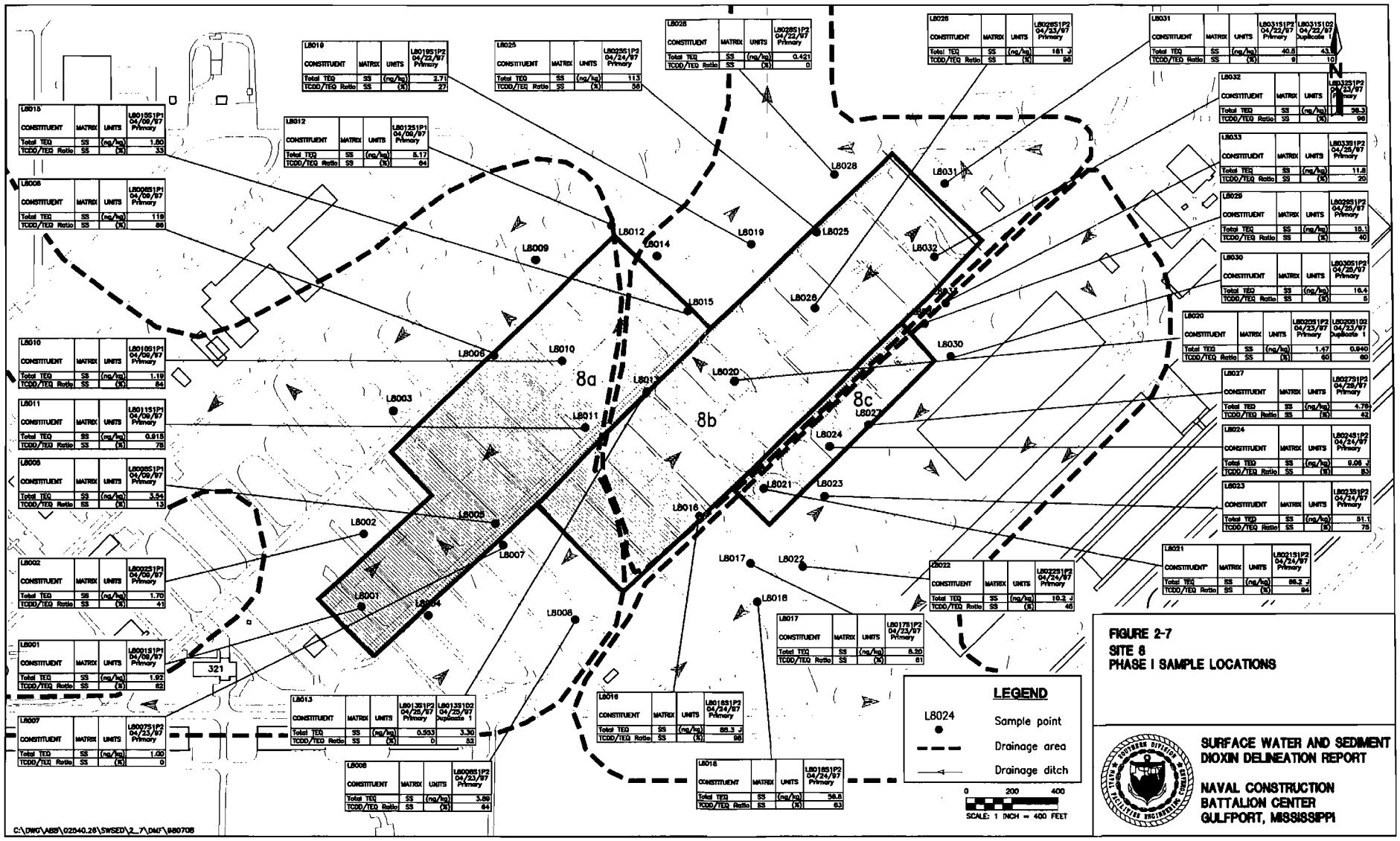

FIGURE 2-7
SITE 8
PHASE I SAMPLE LOCATIONS

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at Site 5 were consistently higher than at Site 4 with a range of 39.1 ppq (GPT-5-5) to 42.7 ppq (GPT-5-6) (Figure 2-5 and Appendix A). The result at monitoring well GPT-5-4 was 40.4 ppq, but that included a TCDD result of 4.0 ppq. While nearly 40 percent of these TEQs result from OCDDs and HpCDDs, the presence of TCDD is a concern because it may indicate HO disposal in this landfill. At Site 5, seep sample results and the implementation of the Groundwater Monitoring Work Plan (ABB-ES, 1997c) will provide more definitive answers to HO disposal and the source release mechanisms at this IR site.

Two seep samples were collected from Site 4. The seeps emanate on the west side of the site where Canal No. 1 is adjacent to Site 4 (Figure 2-5). The samples were collected following the method outlined in the On-Site Delineation Work Plan (ABB-ES, 1996a). No samples were collected from Site 5 due to a prolonged period without significant precipitation, resulting in no flowing seeps.

Seep sample L4001P produced a result of 82.9 ppq (TEQ) with a TCDD result of 14.1 ppq (Figure 2-5). The TEQ for L4002P was 44.71 ppq with TCDD as not detected, although pentachlorodiphenodioxin (PeCDD) was present at 11.9 ppq. The presence of TCDD and PeCDD in the seeps can be a strong indication that HO (2,4,5-trichlorophenoxyacetic acid [2,4,5-T]) may be the source of the dioxins and furans in the samples. These results are of special concern since both seeps spill directly into Canal No. 1. The TCDD/TEQ ratio is lower than those observed at sediment locations in the drainage area, although this may indicate multiple dioxin sources or the effect of the subsurface conditions. These seeps are temporarily being filtered to remove any contamination to the canal.

2.2.5 Nondioxin Sample Results The on-base nondioxin sample results included VOCs, SVOCs, pesticides, PCBs, and herbicides. TOC was also collected, but it will be discussed in the data analysis chapter (Chapter 4.0).

Low levels of 2,4,5-T were observed in soil sample L8025 (52 ppb) at Site 8 (sample location is shown in Figure 2-7). In the sediment at D3005, 4,4'-dichlorodiphenyldichloroethane was reported at 970 ppb (sample location is shown in Figure 2-3).

The one area of concern for nondioxin compounds is at Site 4 (Figure 2-4), monitoring well 5 (GPT-4-5). The results from this well indicated vinyl chloride at 37 ppb, 1,2-dichloroethene (total) at 180 ppb, and trichloroethene at 4.7 ppb. The results in monitoring well GPT-4-5 warrant additional investigation due to the fact that these contaminants are known carcinogens, highly mobile in groundwater, and located upgradient of the base boundary (within 1,000 feet). An inspection of other wells surrounding this monitoring well have shown no detects of these contaminants.

2.3 OFF-BASE SAMPLING RESULTS SUMMARY. This section presents the investigative and sampling results obtained during off-base activities as outlined in the Off-site Delineation Work Plan (ABB-ES, 1996b). The work off base more narrowly focused on sediment and surface water in areas that are hydraulically connected to the base. Specifically, these areas include Canal No. 1, Turkey Creek, Brickyard Creek, Bernard Bayou, and the Outfall 3 Swamp (see Figure 1-4).

2.3.1 Sediment Sample Results This subsection presents the sediment sample results from the first phase of off-base activities. More complete discussions of these results are found in Appendix A, Phase I Summary Report.

Canal No. 1. Off-base samples in Canal No. 1 included two locations upstream of the base and three downstream of the base as shown on Figure 2-8. Sample results for C1001 and C1002 were initially considered background, but during the investigation it was discovered that surface water could flow southwest into Canal No. 1 during periods of heavy rain. C1001 (5.1 ppt) and C1002 (4.2 ppt) do not produce results consistent with HO-related dioxin, which may indicate that very little migration is occurring at this area of the NCBC or that higher energy surface water is scouring out the bedload and transporting them downstream.

The remaining Canal No. 1 samples were collected north of the base (Figure 2-8) with results that ranged from 12.8 ppt (C1003) to 0.577 ppt (C1006). Low levels of TCDD were detected in C1003 and C1005. The low levels detected immediately north of the base in Canal No. 1 may be the result of the removal action conducted in 1995 (ABB-ES, 1995a). The preexcavation level at C1003 was approximately 75 ppt.

Turkey Creek. Turkey Creek receives surface water from Canal No. 1 (via Outfall 1 North) and the drainage ditch from Outfall 4 North (Figure 2-9). Ten locations were investigated and sampled. Samples TC001 and TC002 were upstream of any base influence. The downstream end of the Turkey Creek samples was established just north of the Biloxi/Gulfport Regional Airport at the point where the channel widened significantly and large amplitude meanders began.

Turkey Creek has a coarse bedload with little organic material and, as expected, tends to yield low dioxin TEQ. For the 10 sediment samples, the highest TEQ was 11.3 ppt (TC004) with an average result of 3.2 ppt for the entire group. Only one sample had any TCDD in it at all and that was only 1 ppt (TC009). The surface water sample collected at TC006 was only 0.5 ppq.

Brickyard Creek (Bayou). Brickyard Creek (also sometimes referred to as Brickyard Bayou) flows from southwest to northeast south of the base (Figure 2-10). Brickyard receives flow from the base via Outfall 2 South. East of the base, Brickyard Creek flows through a relatively straight channel south of the airport to Bernard Bayou about 2.5 miles south of the point where Turkey Creek enters the bayou.

Conceptually, Brickyard Bayou is not a major receptor for surface water or sediment from the base. Because of this, only two samples were originally planned for the entire area. However, dioxin samples collected in the creek produced results that caused questions about the original conception sediment transport and migration regarding from the base. In response to these results, three discretionary samples were placed in Brickyard Bayou downstream of the airport.

Sample BC001, which is immediately upstream of the base, produced a sample result of only 1.9 ppt and sample BC002 (just downstream of the base) produced a sample result of only 0.9 ppt. Both of these samples were collected from high-energy environments that tend to keep the TEQs low.

BC003 and BC004 were collected from lower energy, organic-rich environments, although the results were not significantly higher (19.0 ppt and 18.4 ppt, respectively). BC005, which was collected closer to Bernard Bayou, yielded a result of only 2.9 ppt. It should be noted that BC005 did contain significantly more coarse-grained material than either BC003 or BC004. Low levels (0.6 ppt) of TCDD were detected in BC004.

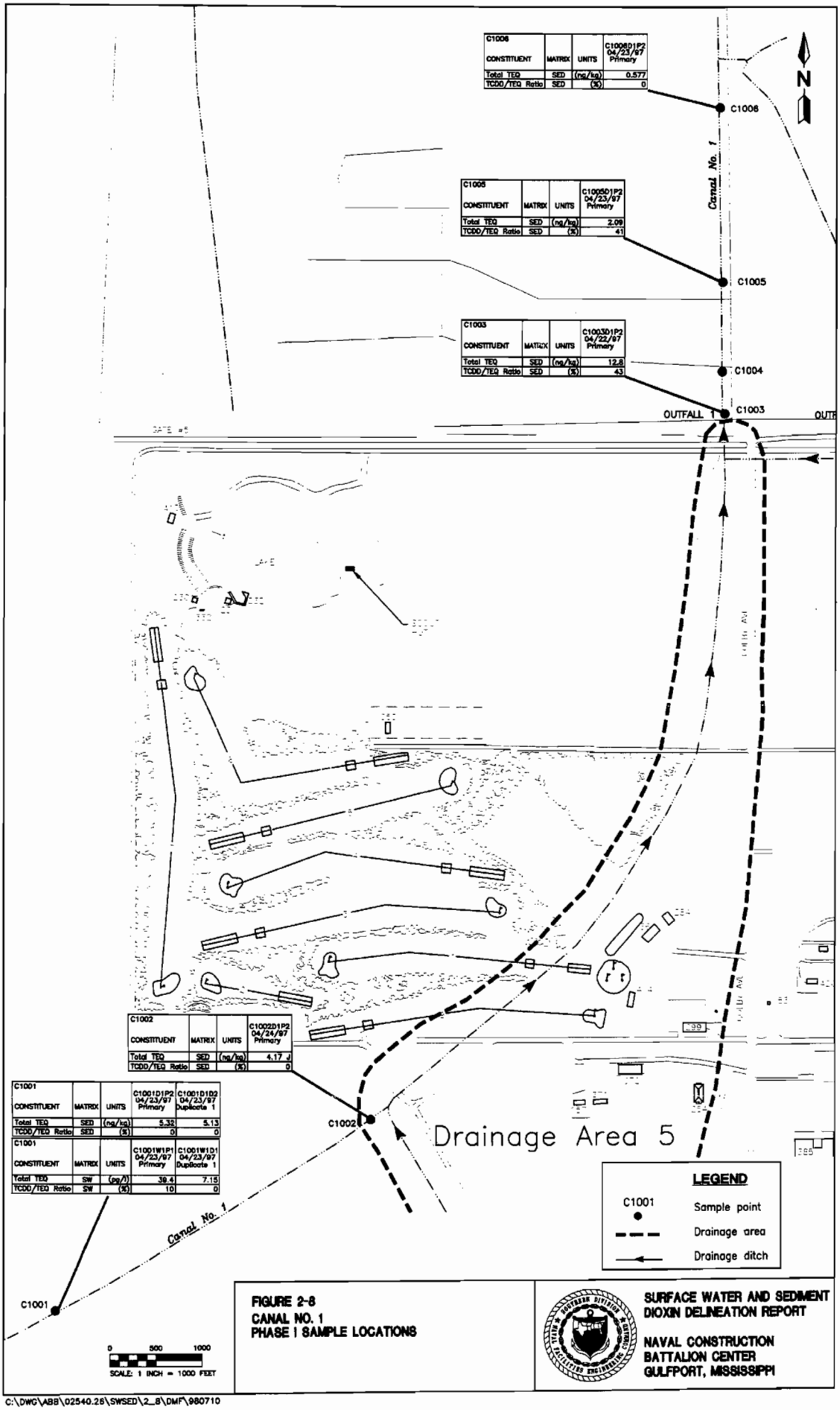

FIGURE 2-8
CANAL NO. 1
PHASE I SAMPLE LOCATIONS

SURFACE WATER AND SEDIMENT DIOXIN DELINEATION REPORT

NAVAL CONSTRUCTION BATTALION CENTER GULFPORT, MISSISSIPPI

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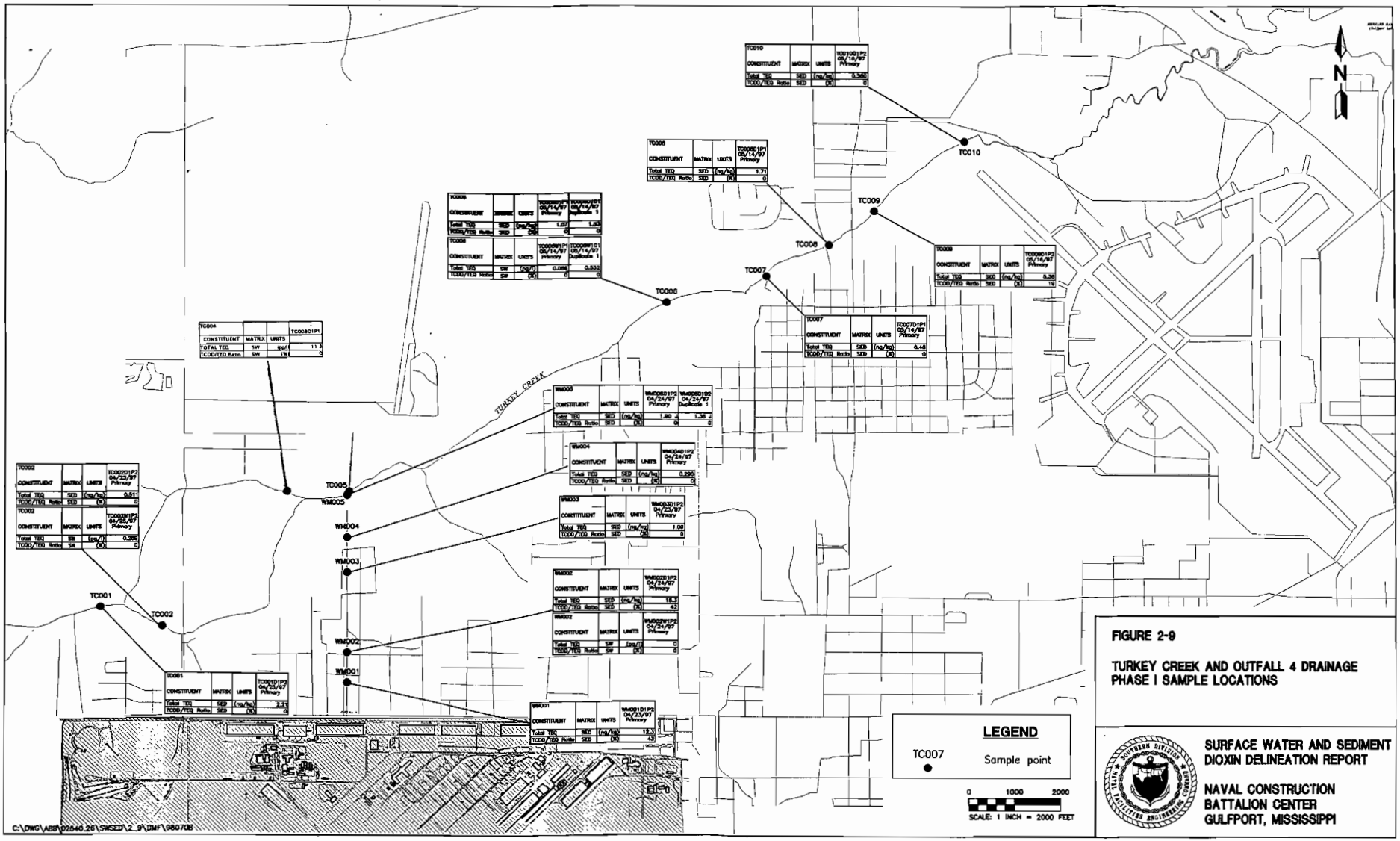


FIGURE 2-9

TURKEY CREEK AND OUTFALL 4 DRAINAGE PHASE I SAMPLE LOCATIONS

SURFACE WATER AND SEDIMENT DIOXIN DELINEATION REPORT

NAVAL CONSTRUCTION BATTALION CENTER GULFPORT, MISSISSIPPI

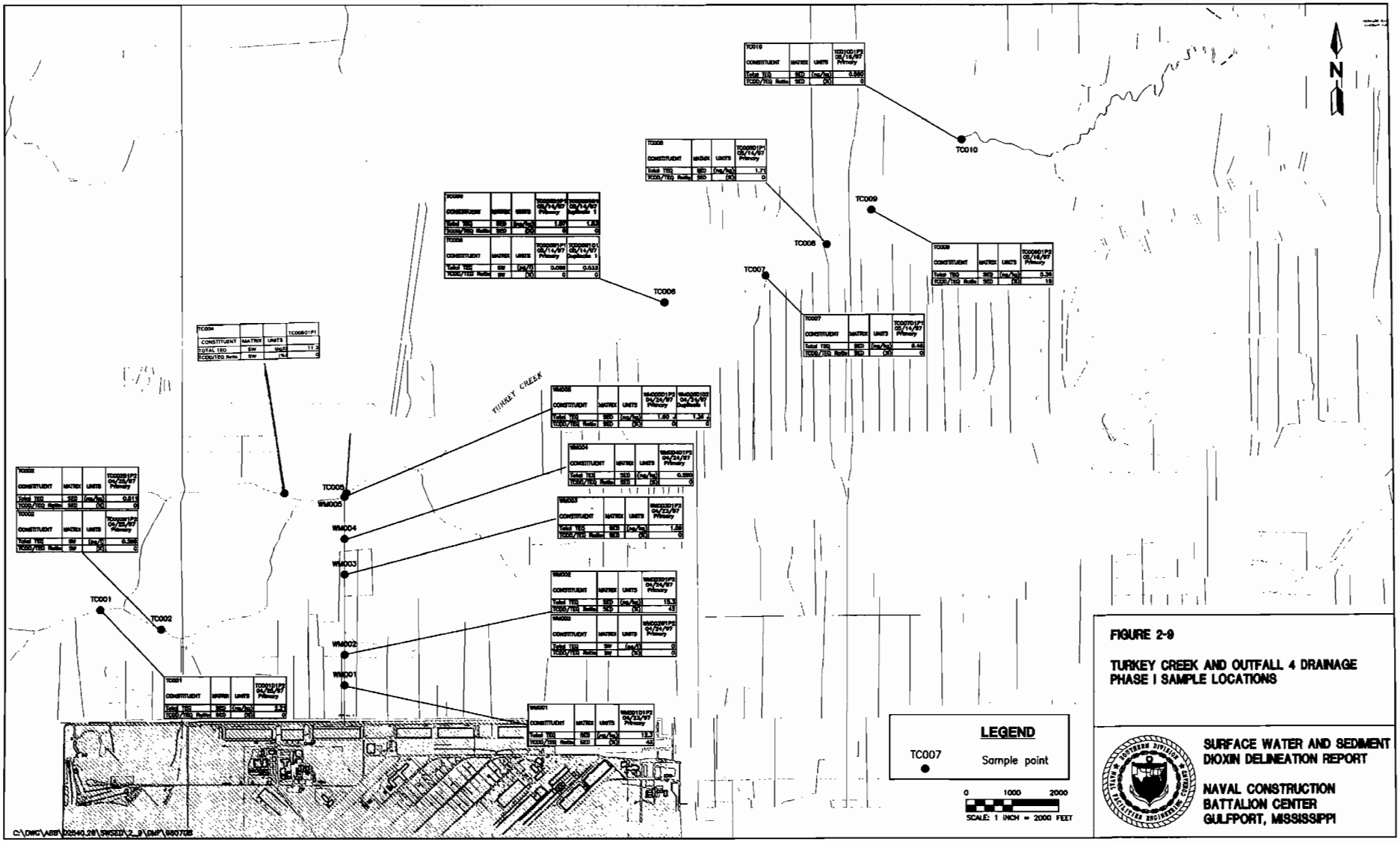
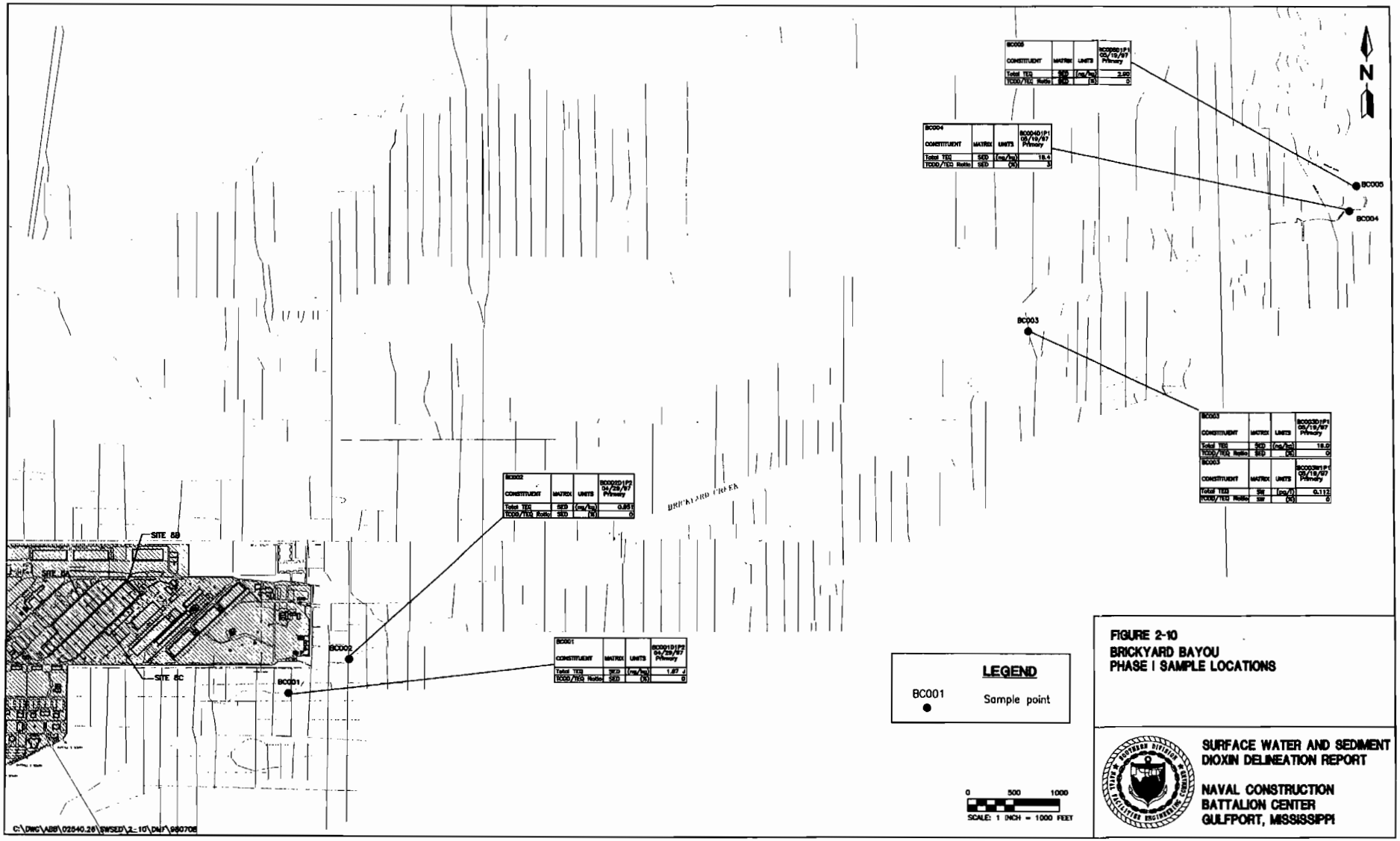


FIGURE 2-9

TURKEY CREEK AND OUTFALL 4 DRAINAGE PHASE I SAMPLE LOCATIONS

SURFACE WATER AND SEDIMENT DIOXIN DELINEATION REPORT

NAVAL CONSTRUCTION BATTALION CENTER GULFPORT, MISSISSIPPI



BC005 CONSTITUENT	MATRIX	UNITS	BC005D1P1 05/19/97 Primary
Total TEQ	SED	(ng/kg)	2.90
TCDD/TEQ Ratio	SED	(%)	0

BC004 CONSTITUENT	MATRIX	UNITS	BC004D1P1 05/19/97 Primary
Total TEQ	SED	(ng/kg)	18.4
TCDD/TEQ Ratio	SED	(%)	3

BC003 CONSTITUENT	MATRIX	UNITS	BC003D1P1 05/19/97 Primary
Total TEQ	SED	(ng/kg)	18.0
TCDD/TEQ Ratio	SED	(%)	0

BC003 CONSTITUENT	MATRIX	UNITS	BC003W1P1 05/19/97 Primary
Total TEQ	SW	(ng/l)	0.113
TCDD/TEQ Ratio	SW	(%)	0

BC002 CONSTITUENT	MATRIX	UNITS	BC002D1P2 04/29/97 Primary
Total TEQ	SED	(ng/kg)	0.951
TCDD/TEQ Ratio	SED	(%)	0

BC001 CONSTITUENT	MATRIX	UNITS	BC001D1P2 04/29/97 Primary
Total TEQ	SED	(ng/kg)	1.87 J
TCDD/TEQ Ratio	SED	(%)	0

FIGURE 2-10
BRICKYARD BAYOU
PHASE I SAMPLE LOCATIONS

SURFACE WATER AND SEDIMENT DIOXIN DELINEATION REPORT

NAVAL CONSTRUCTION BATTALION CENTER GULFPORT, MISSISSIPPI

Bernard Bayou. The Bernard Bayou samples collected in Phase I were restricted to the immediate vicinity of the confluence with Turkey Creek (Figure 2-11). In this relatively limited area, the bedload of Turkey Creek likely settles out into the deeper basin of Bernard Bayou. If the relationship of TEQ to TOC holds for Bernard Bayou, an increase in TEQs would be expected as the bottom sediment of the bayou became fine and more organically rich, especially further downstream of Turkey Creek.

The results from the five Bernard Bayou sediment samples did confirm the hypothesis as TEQs generally increased with distance from the end of Turkey Creek. The exception was BB004, although that particular sample did have considerably more coarse-grained material than either BB003 or BB005 (Figure 2-11). The range of results was from 3.9 ppt (BB001) to 54.3 ppt (BB005). TCDD was detected in BB002 and BB003, although the TCDD/TEQ ratios were 7 and 4 percent, respectively (see Chapter 4.0, Data Analysis, for a description of TCDD/TEQ ratios).

Outfall 3 Swamp. The Outfall 3 Swamp is located immediately north of the base across from Outfall 3 North (Figure 2-12). The swamp has received surface water runoff from the outfall until 1996, when the drainage was diverted to Canal No. 1, as part of road construction work along 28th Street. The Outfall 3 Swamp received surface water and sediment from the primary and secondary Site 8 ditches (Figure 2-12) until the 28th Street road construction project diverted flow. Currently, the swamp receives no surface water flow from the base, and the main channel has dried up. For this reason, no surface water samples were collected with the sediment samples. The outlet of the swamp occasionally flows into Canal No. 1, approximately 1/4 mile north of the base on Canal Street during periods of heavy rain. However, the swamp has long been recognized as a depositional area that may have accumulated dioxin contaminated sediments because the outlet into Canal No. 1 has a higher elevation that consistently forces surface water to back up in the swamp. With this in mind, the swamp was expected to produce elevated results; therefore, the sample density was increased to 10 samples in a relatively small area.

The sample results in the swamp confirmed the expectation of elevated dioxin concentrations with sample results as high as 254 ppt in the organic-rich sediment. Seven of the nine samples in the swamp were above 97 ppt with an average result of 163 ppt. As stated before, the swamp is an effective depositional area, and the TCDD/TEQ ratios offer additional confirmation of this.

The two samples collected downstream of the small check dam in the swamp were 2.1 ppt (WL009) and 15.58 ppt (WL1010). WL010 was actually collected at the confluence of the swamp outlet and Canal No. 1. The result of 15.58 ppt was similar to other nearby Canal No. 1 samples.

2.3.2 Surface Water Sample Results Surface water results collected during Phase I activities confirmed the operating conceptual model that dioxin contamination and transport in the ditch systems is primarily restricted to bed load sediments and not surface water.

The following samples are the highest results from each of the drainage areas. The surface water sample collected at C1001 (Canal No. 1) yielded a result of 39.4 ppq, although most of that TEQ was from octa- and hepta-chlorinated dioxins

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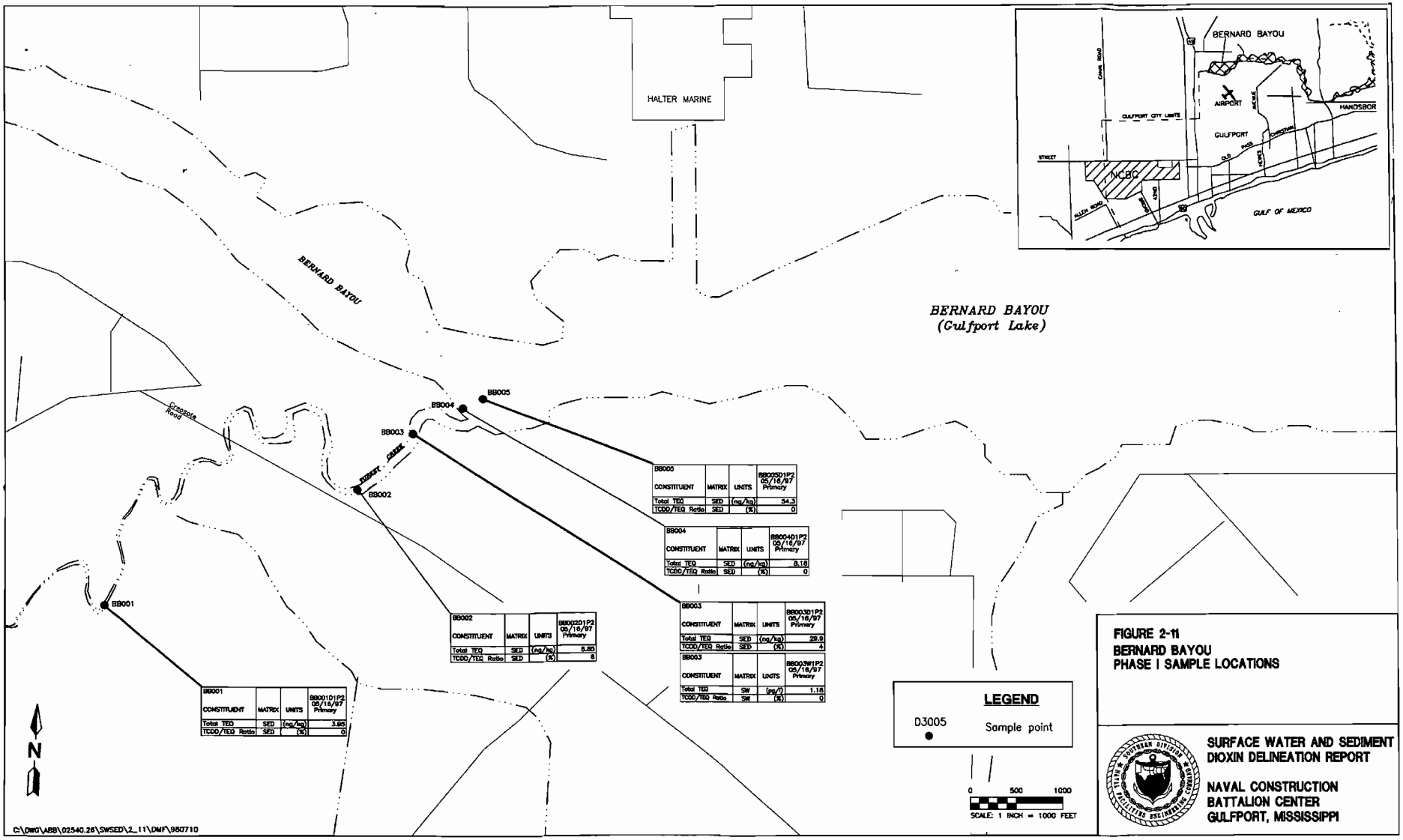


BB005 CONSTITUENT	MATRIX	UNITS	BB00501P2 05/16/97 Primary
Total TEQ	SED	(ng/kg)	54.3
TCDD/TEQ Ratio	SED	(%)	0

BB004 CONSTITUENT	MATRIX	UNITS	BB00401P2 05/16/97 Primary
Total TEQ	SED	(ng/kg)	8.16
TCDD/TEQ Ratio	SED	(%)	0

BB003 CONSTITUENT	MATRIX	UNITS	BB00301P2 05/16/97 Primary
Total TEQ	SED	(ng/kg)	29.0
TCDD/TEQ Ratio	SED	(%)	4

BB003 CONSTITUENT	MATRIX	UNITS	BB00SW1P2 05/16/97 Primary
Total TEQ	SW	(pg/l)	1.16
TCDD/TEQ Ratio	SW	(%)	0

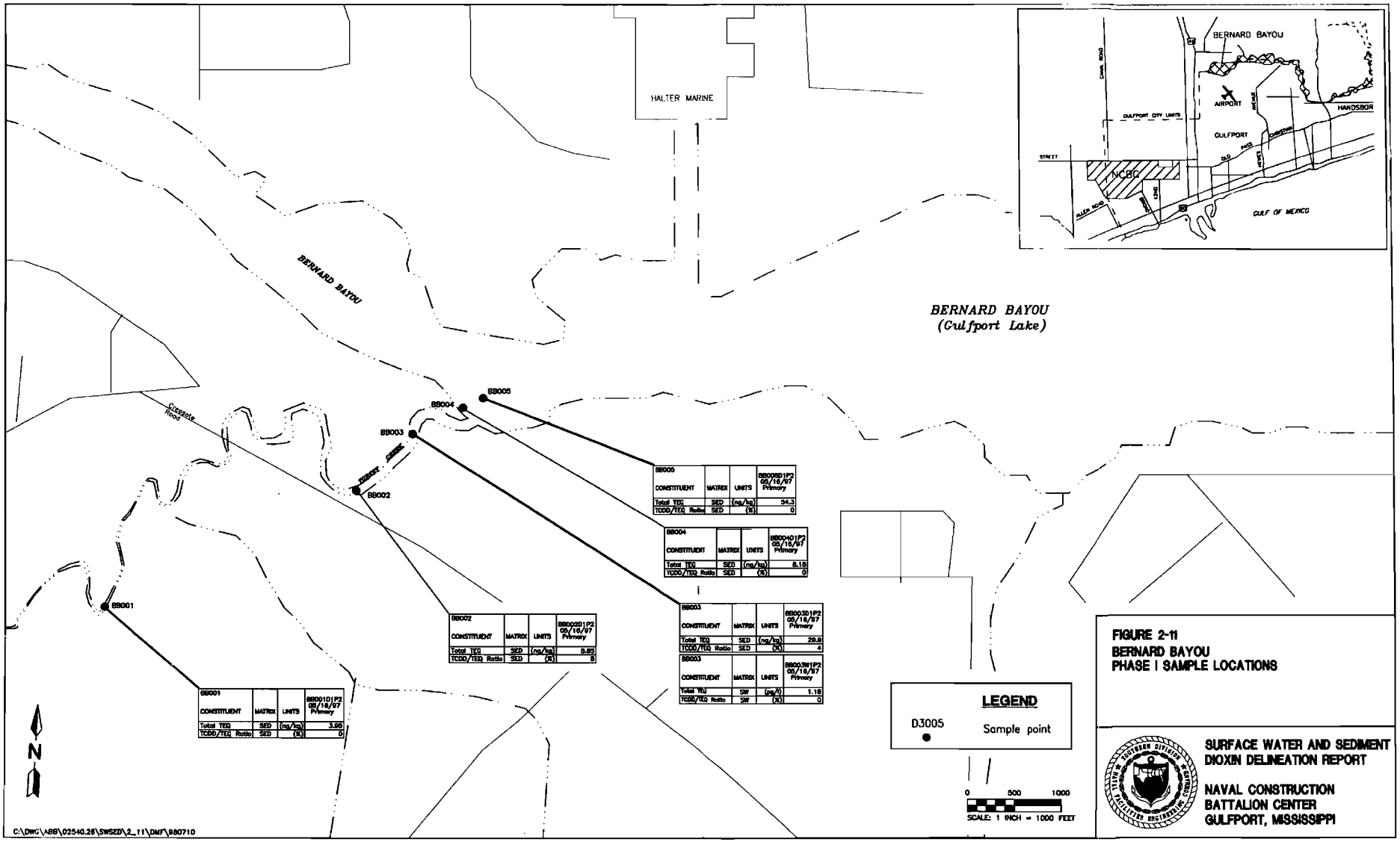
BB002 CONSTITUENT	MATRIX	UNITS	BB00201P2 05/16/97 Primary
Total TEQ	SED	(ng/kg)	8.85
TCDD/TEQ Ratio	SED	(%)	8

BB001 CONSTITUENT	MATRIX	UNITS	BB00101P2 05/16/97 Primary
Total TEQ	SED	(ng/kg)	3.95
TCDD/TEQ Ratio	SED	(%)	0

FIGURE 2-11
BERNARD BAYOU
PHASE I SAMPLE LOCATIONS

SURFACE WATER AND SEDIMENT DIOXIN DELINEATION REPORT

NAVAL CONSTRUCTION BATTALION CENTER GULFPORT, MISSISSIPPI



BB005 CONSTITUENT	MATRIX	UNITS	BB005D1P2 05/16/97 Primary
Total TEQ	SED	(ng/kg)	54.3
TCDD/TEQ Ratio	SED	(%)	0

BB004 CONSTITUENT	MATRIX	UNITS	BB004D1P2 05/16/97 Primary
Total TEQ	SED	(ng/kg)	8.18
TCDD/TEQ Ratio	SED	(%)	0

BB003 CONSTITUENT	MATRIX	UNITS	BB003D1P2 05/16/97 Primary
Total TEQ	SED	(ng/kg)	29.9
TCDD/TEQ Ratio	SED	(%)	4

BB003 CONSTITUENT	MATRIX	UNITS	BB003W1P2 05/16/97 Primary
Total TEQ	SW	(pg/l)	1.18
TCDD/TEQ Ratio	SW	(%)	0

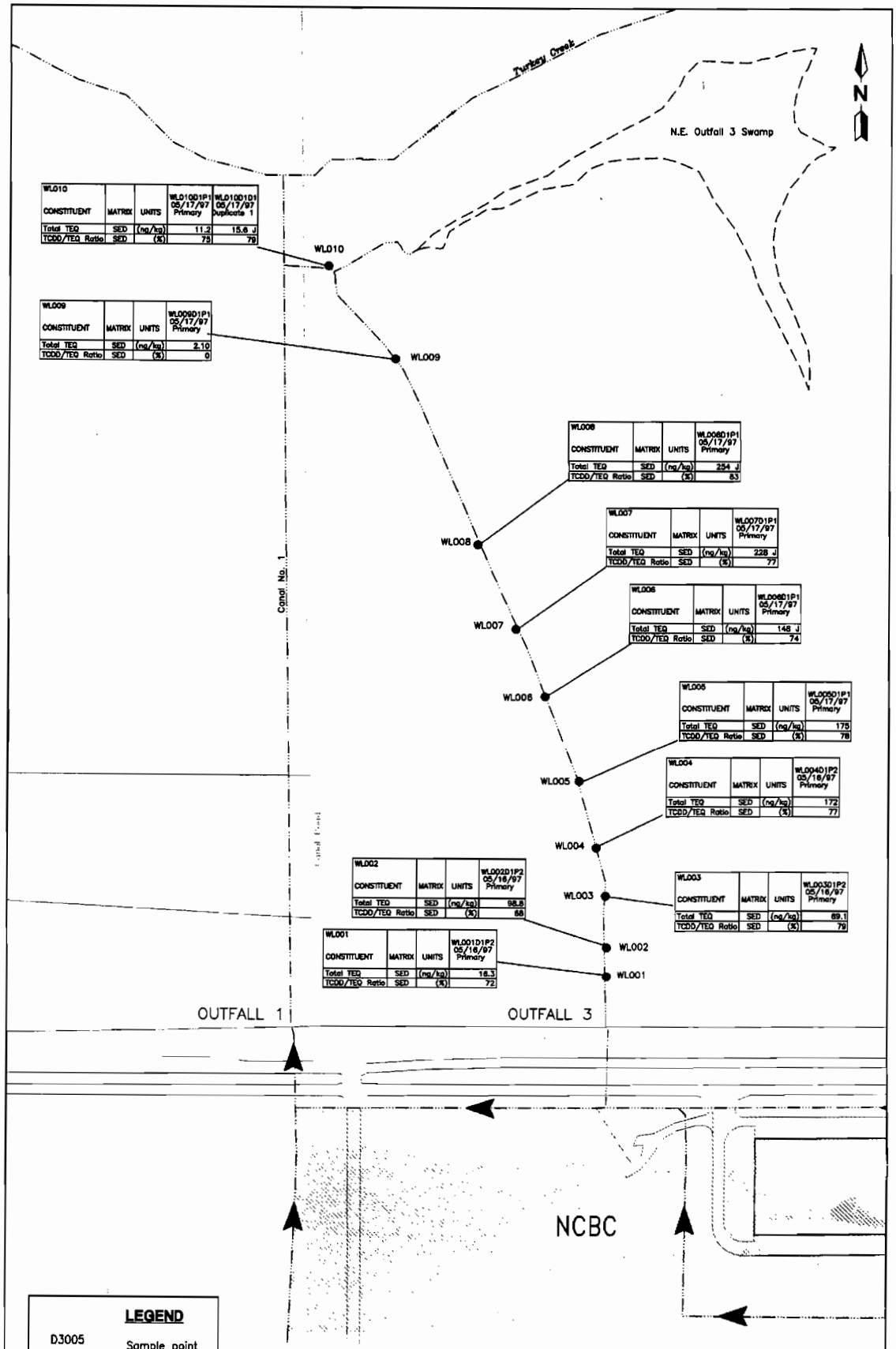
BB002 CONSTITUENT	MATRIX	UNITS	BB002D1P2 05/16/97 Primary
Total TEQ	SED	(ng/kg)	8.85
TCDD/TEQ Ratio	SED	(%)	8

BB001 CONSTITUENT	MATRIX	UNITS	BB001D1P2 05/16/97 Primary
Total TEQ	SED	(ng/kg)	3.95
TCDD/TEQ Ratio	SED	(%)	0

FIGURE 2-11
BERNARD BAYOU
PHASE I SAMPLE LOCATIONS

SURFACE WATER AND SEDIMENT DIOXIN DELINEATION REPORT

NAVAL CONSTRUCTION BATTALION CENTER GULFPORT, MISSISSIPPI



WL010 CONSTITUENT	MATRIX	UNITS	WL010D1P1 05/17/97 Primary	WL010D1D1 05/17/97 Duplicate 1
Total TEQ	SED	(ng/kg)	11.2	15.6 J
TCDD/TEQ Ratio	SED	(%)	73	79

WL009 CONSTITUENT	MATRIX	UNITS	WL009D1P1 05/17/97 Primary
Total TEQ	SED	(ng/kg)	2.10
TCDD/TEQ Ratio	SED	(%)	0

WL008 CONSTITUENT	MATRIX	UNITS	WL008D1P1 05/17/97 Primary
Total TEQ	SED	(ng/kg)	254 J
TCDD/TEQ Ratio	SED	(%)	83

WL007 CONSTITUENT	MATRIX	UNITS	WL007D1P1 05/17/97 Primary
Total TEQ	SED	(ng/kg)	228 J
TCDD/TEQ Ratio	SED	(%)	77

WL006 CONSTITUENT	MATRIX	UNITS	WL006D1P1 05/17/97 Primary
Total TEQ	SED	(ng/kg)	148 J
TCDD/TEQ Ratio	SED	(%)	74

WL005 CONSTITUENT	MATRIX	UNITS	WL005D1P1 05/17/97 Primary
Total TEQ	SED	(ng/kg)	175
TCDD/TEQ Ratio	SED	(%)	78

WL004 CONSTITUENT	MATRIX	UNITS	WL004D1P2 05/16/97 Primary
Total TEQ	SED	(ng/kg)	172
TCDD/TEQ Ratio	SED	(%)	77

WL003 CONSTITUENT	MATRIX	UNITS	WL003D1P2 05/16/97 Primary
Total TEQ	SED	(ng/kg)	69.1
TCDD/TEQ Ratio	SED	(%)	79

WL002 CONSTITUENT	MATRIX	UNITS	WL002D1P2 05/16/97 Primary
Total TEQ	SED	(ng/kg)	98.8
TCDD/TEQ Ratio	SED	(%)	68

WL001 CONSTITUENT	MATRIX	UNITS	WL001D1P2 05/16/97 Primary
Total TEQ	SED	(ng/kg)	16.3
TCDD/TEQ Ratio	SED	(%)	72

FIGURE 2-12
OUTFALL 3 SWAMP
PHASE I SAMPLE LOCATIONS

SURFACE WATER AND SEDIMENT DIOXIN DELINEATION REPORT

NAVAL CONSTRUCTION BATTALION CENTER GULFPORT, MISSISSIPPI

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(Figure 2-8). The surface water sample result from BC003 (Brickyard Creek) was 0.1 ppq, and the surface water sample result at BB003 (Bernard Bayou) was 1.2 ppq.

2.3.3 Nondioxin Sample Results With the exception of some elevated polynuclear aromatic hydrocarbon levels in Bernard Bayou, no significant nondioxin compounds were detected off the base. Appendix B contains the results of all nondioxin samples.

2.4 RECOMMENDATIONS FOR PHASE II ACTIVITIES. The recommendations for Phase II activities were presented in the Phase I Summary Report (Appendix A), an overview of which is provided in the following paragraphs.

On-Base Activities: Phase II efforts were to be primarily focused on refining HO-impacted bedload in ditches in Drainage Areas 1, 2, and 5 (Figure 2-13). This was to be accomplished by collecting samples for dioxin and TOC samples.

Off-Base Activities: No additional samples were to be required in Turkey Creek. Either the dioxin-contaminated bedload leaving the base through Outfall 1 and Outfall 3 North never made it to the creek, or if it did, the scouring that occurs in Turkey Creek is sufficient to prevent long-term accumulation of organic rich fine-grained sediment in the channel.

Some additional sampling in Bernard Bayou and Brickyard Creek (Figure 2-14) was recommended to ensure that the maximum extent of migrating dioxin sediment was assessed. The sample results in these two areas likely indicated multiple sources, and in the absence of a fingerprint training set, it was expected to be very difficult to determine the amount (percentage) of dioxin in the bayou that has come from the base.

The area that required the most work was to be the Outfall 3 Swamp. This was due to the relatively high levels (up to 254 ppt) and the suspected HO origin. The first set of samples collected was restricted to the shallow channel that runs through the swamp from Outfall 3 to Canal No. 1. Fortunately, surface water levels in the swamp must rise above that channel before they flow into Canal No. 1. Thus, the swamp has acted as a sedimentation pond, or trap, for organic rich and finer grained sediment as it has migrated off the base from the northern outfalls. Also, Outfall 3 surface water had been diverted into a recently constructed ditch on the north side of 28th Street that flows directly to Canal No. 1. While this prevents any further contamination or migration of dioxin-contaminated sediment out of the swamp, it does open the possibility that there may be another ditch receiving contaminated sediment, as well as providing an alternate pathway for dioxin contamination into Canal No. 1.

Given the wide range of results that exist on the base, a site-specific lower delineation level, or target, was established. Based on the technological limitations of high resolution and/or mass spectrometry equipment and USEPA Method 8290, an analytical lower delineation limit of 15 ppt was proposed for soil and sediment. Establishing a delineation limit below 15 ppt would require many additional samples in areas that have no apparent connection with HO or Site 8. This site-specific delineation target level was approved for use at NCBC by MSDEQ on August 27, 1997.

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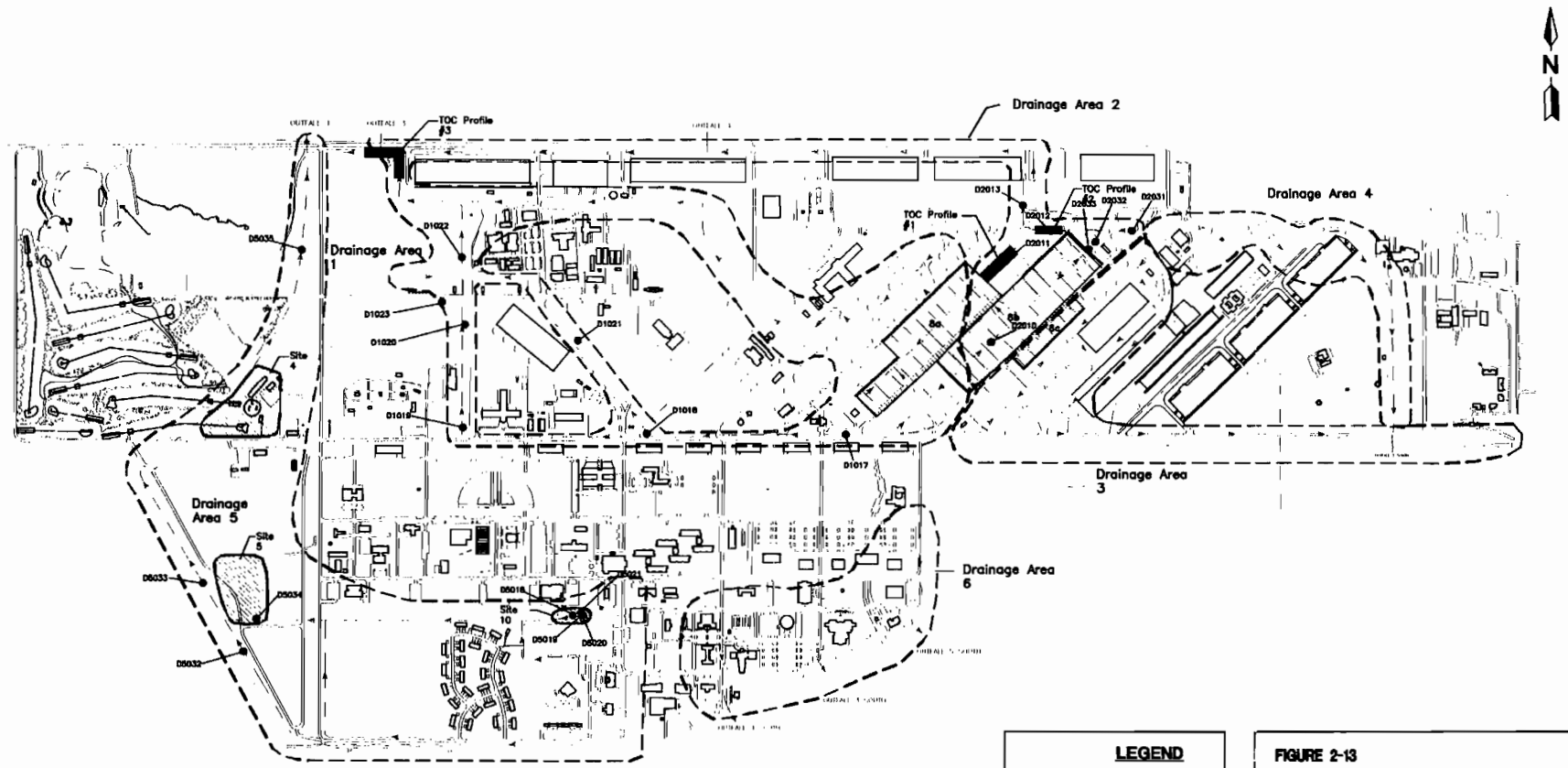

LEGEND

D5032 ●	Sample point
— — —	Drainage area
←—	Drainage ditch

0 500 1000
SCALE: 1 INCH = 1000 FEET

FIGURE 2-13
NAVAL CONSTRUCTION BATTALION CENTER PHASE II ON-SITE SAMPLE LOCATIONS

SURFACE WATER AND SEDIMENT DIOXIN DELINEATION REPORT

NAVAL CONSTRUCTION BATTALION CENTER GULFPORT, MISSISSIPPI

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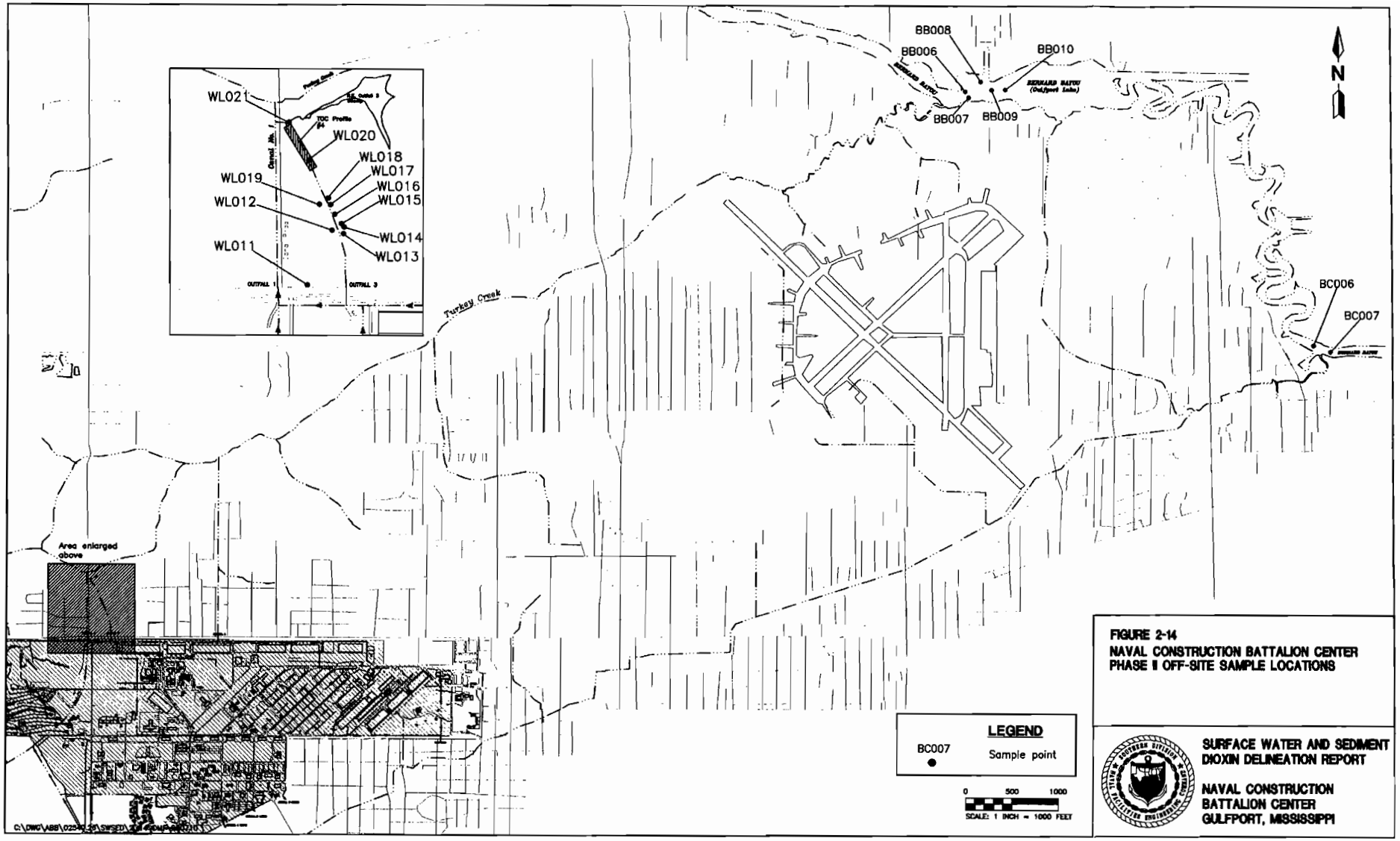

FIGURE 2-14
NAVAL CONSTRUCTION BATTALION CENTER
PHASE II OFF-SITE SAMPLE LOCATIONS

SURFACE WATER AND SEDIMENT DIOXIN DELINEATION REPORT

NAVAL CONSTRUCTION BATTALION CENTER GULFPORT, MISSISSIPPI

CHAPTER 3.0

3.0 PHASE II DELINEATION SAMPLING RESULTS

This chapter presents the results from the Phase II, or delineation, sampling performed at selected locations at NCBC Gulfport and in off-base surface water bodies that receive surface water and sediment from the base. The intent of this focused sampling program was to more narrowly define and characterize areas that are known to contain dioxin.

3.1 PHASE II ACTIVITIES. The selection of Phase II sampling locations were determined by identifying areas that had (1) high consistency, (2) high variable levels of dioxin in Phase I samples, or (3) limited future remedial activities. As shown on Figures 2-13 and 2-14, the areas of Phase II concentration included Drainage Areas 1, 2, and 5 on base and Outfall 3 Swamp, Bernard Bayou, and Brickyard Bayou off base. TOC sampling was employed in most areas to help refine the locations were dioxin levels were anticipated to change markedly. This strategy of utilizing TOC sample results reduced project costs (both laboratory and validation), improved accuracy of the dioxin delineation, and was useful in strengthening the TOC-dioxin correlation. Chapter 4.0 contains the results of the data analysis that included interpretation of TOC and TEQ data. Sampling in Phase II was focused on sediment only. Additional groundwater and seep sampling will be performed during the implementation of the proposed groundwater investigation program (ABB-ES, 1997d).

3.2 ON-BASE SAMPLING RESULTS SUMMARY. The following paragraphs summarize the sample results from each of the on-base drainage areas involved in Phase II sediment sample collection. As stated in Section 2.4, Phase II samples were collected from Drainage Areas 1 through 6. Analysis and interpretations of the Phase II results are presented in Chapters 4.0 and 6.0.

Drainage Area 1. Seven locations were selected for dioxin sampling and analysis in Drainage Area 1 during Phase II (Figure 3-1). A series of TOC samples were collected from a stretch of approximately 150 feet near Outfall 3. Drainage Area 1 encompasses the majority of Site 8a, a part of Site 8b, and the drainage ditches that convey surface water and sediment to Outfall 3 North (Figure 3-1). Although some surface water and sediment does continue along 11th Street to Outfall 1 North, the majority is conveyed off the base at Outfall 3. While the majority of Drainage Area 1 was characterized and delineated during Phase I, the result of the sediment sample D1010 in Phase I (82.9 ppt; see Figure 2-1) indicated that the ditch along 7th Street may be a second pathway to convey dioxin contamination to Outfall 3 North.

Given that, the objective for collecting the seven samples was to investigate the potential second pathway from Site 8 to Outfall 3. The TOC profile collected near Outfall 3 was done to identify potential fluctuations in dioxin levels in that area. The sample numbers shown on Figure 3-1 continue the numbering system first presented for Phase I samples on Figure 2-1.

The results of these analyses did confirm this drainage ditch has elevated levels of dioxin (on a TEQ basis) and must be considered a potential second pathway of dioxin-contaminated transport from Site 8 to Outfall 3. The range of results was from a low of 0.2 ppt at D1023 to 74.6 ppt at D1019.

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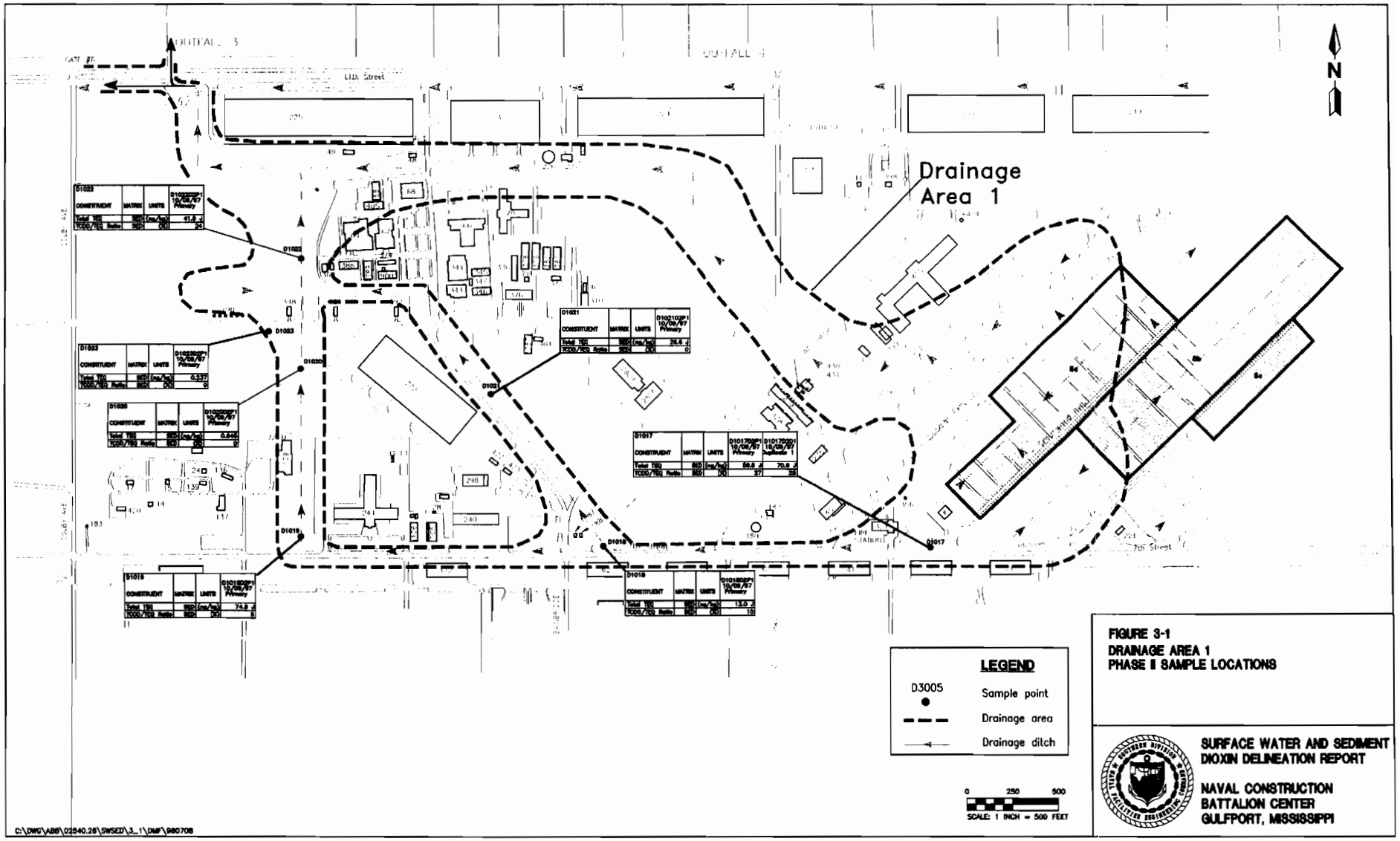

FIGURE 3-1
DRAINAGE AREA 1
PHASE II SAMPLE LOCATIONS

SURFACE WATER AND SEDIMENT
DIOXIN DELINEATION REPORT

NAVAL CONSTRUCTION
BATTALION CENTER
GULFPORT, MISSISSIPPI

Drainage Area 2. Seven locations were selected for dioxin sampling and analysis in Drainage Area 2 during Phase II (Figure 3-2). Drainage Area 2 encompasses much of Site 8b and a part of Site 8a. The ditch system in the area conveys surface water and sediment north (crossing 9th Street) to the northern boundary of the base. Surface water and sediment eventually exit the base at Outfall 4 North, although some may continue along 11th Street to Outfall 3 North.

The objectives of these samples ranged were to (1) characterize levels of dioxin in ditches on and near Site 8a and 8b (D2010 and D2011) and (2) determine the upstream extent of dioxin contamination in Drainage Area 2 (D2031, D2032, and D2033).

The results for this drainage area did again confirm that dioxin levels in the range of 400 ppt to 800 ppt are common in the drainage ditches in and near Site 8 as a whole. However, north of 9th Street, the levels drop dramatically, as shown by D2013 (3.3 ppt) and other samples collected in Phase I (D2004 and D2005) (see Figure 2-2).

As for the upstream extent of dioxin in the sediment in Drainage Area 2, samples D2031, D2032, and D2033 all contained levels in excess of 400 ppt. In fact, D2031 at the farthest upstream part of the area along the south side of 9th Street contained approximately 1,300 ppt dioxin TEQ, of which 1,100 ppt was TCDD. Fortunately, these high levels do not extend eastward to Drainage Area 4, where levels were all below 4 ppt (see Figure 2-4 for Phase I results in Drainage Area 4). The analysis of how these results impact the overall delineation and conceptual models will be discussed in Chapter 6.0.

Drainage Area 5. Drainage Area 5 encompasses many of the drainage ditches in the western part of the base (Figure 3-3). While Drainage Area 5 is not hydraulically connected to Site 8, Sites 4 and 5 are located in this drainage area and both are adjacent to ditches. As stated in Subsection 2.2.1, these sites were potentially used to dispose of drums of HO and may be contributing dioxins to the surface water and sediment in the adjacent ditches via seeps or groundwater baseflow.

Also, Phase I activities discovered an area that contained high levels of PCBs in the ditch adjacent to the Parade Field (now called Site 10). Additional samples were collected immediately following Phase I to define the limits of the PCBs associated with Site 10, which, as shown on Figure 3-3, is approximately 150 feet of ditch sediment only. The results from all of these samples are contained in Appendix B, Sample Results.

Phase I sediment sampling results (outside of Site 10) were a random collection of results below 32 ppt (D5015), which did not exhibit any distinguishable correlation to any feature such as ditch confluences or Sites 4 and 5. Therefore, the objectives of sample collection in Drainage Area 5 in Phase II focused on addressing data gaps and confirming maximum dioxin levels. To accomplish this, four additional samples were collected (D5032 through D2035). Samples D2018 through D2021 were collected for dioxin analysis as part of the Site 10 investigation (the interval D2022 through D2031 – not shown on the map – was PCB samples collected for the Site 10 investigation).

Phase II sample results confirmed the Phase I observations (Subsection 2.2.1) that Drainage Area 5 sediment has widespread low-level dioxin concentrations that

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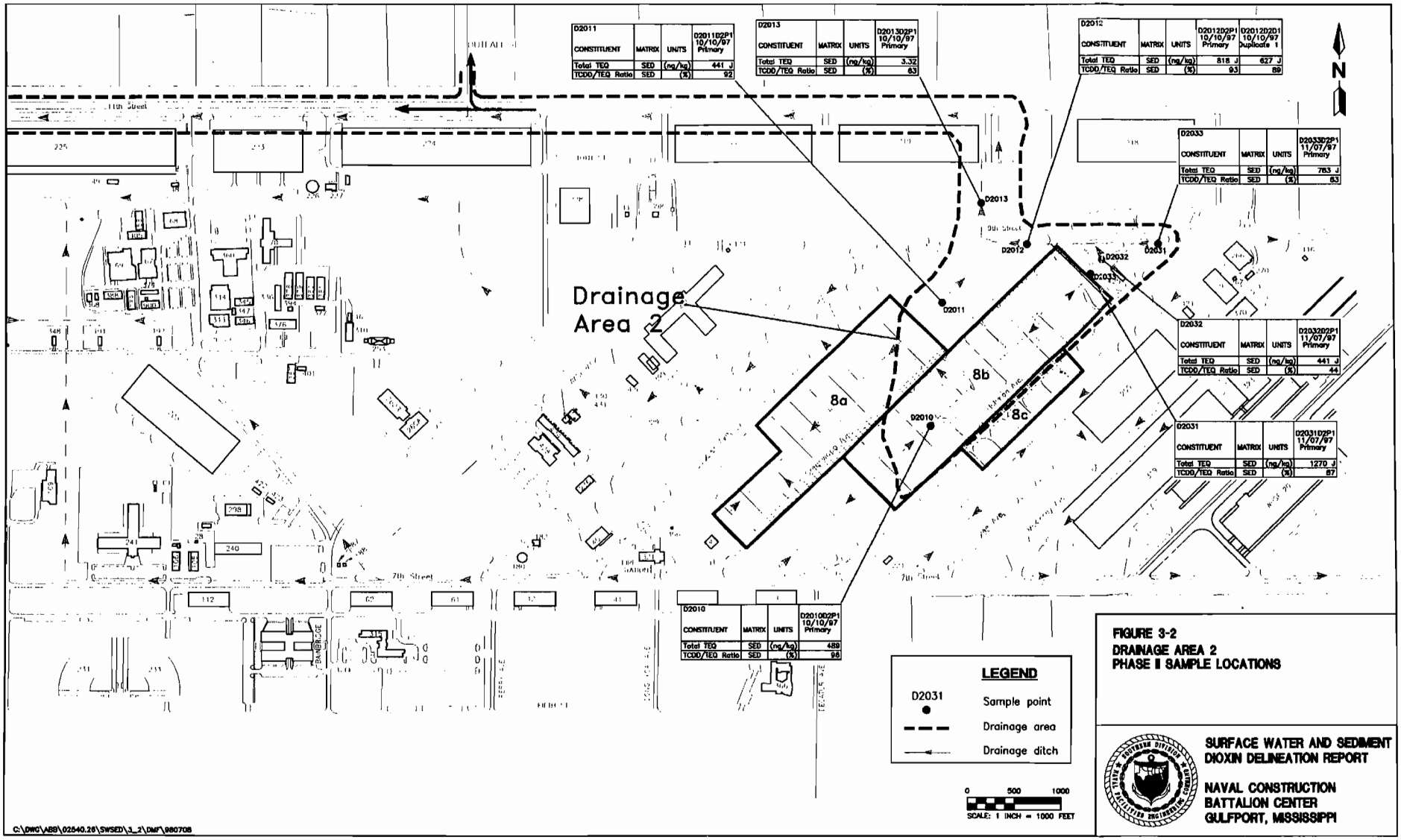

FIGURE 3-2
DRAINAGE AREA 2
PHASE II SAMPLE LOCATIONS

SURFACE WATER AND SEDIMENT DIOXIN DELINEATION REPORT

NAVAL CONSTRUCTION BATTALION CENTER GULFPORT, MISSISSIPPI

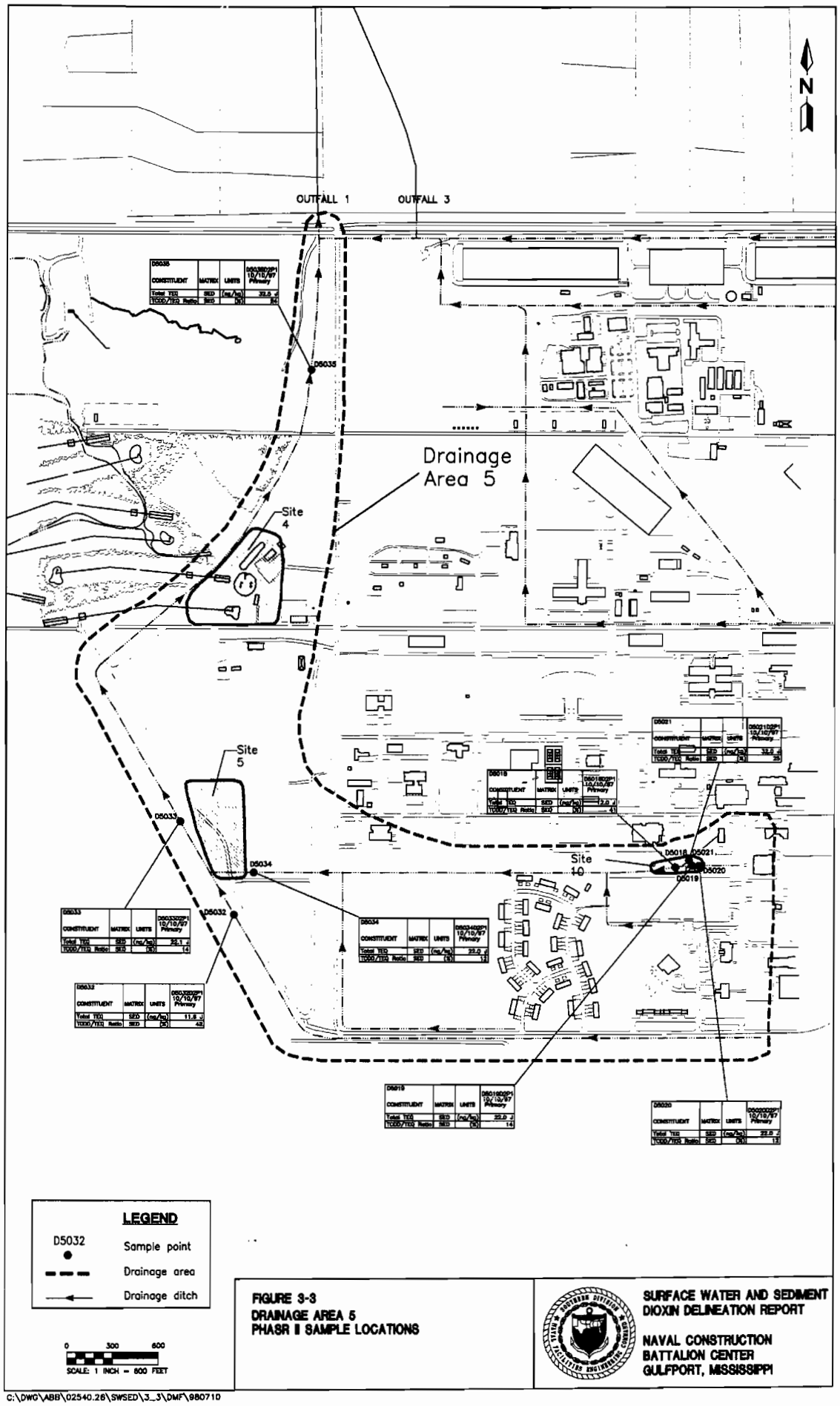

FIGURE 3-3
DRAINAGE AREA 5
PHASR II SAMPLE LOCATIONS

SURFACE WATER AND SEDIMENT
DIOXIN DELINEATION REPORT

NAVAL CONSTRUCTION
BATTALION CENTER
GULFPORT, MISSISSIPPI

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cannot be directly traced to a single source. Phase II results ranged from 11.6 ppt (D5032) to 32.5 ppt (D5035). Again, results with this type of spread do not conclusively identify or eliminate the source, including application and/or surface disposal, and disposal in the landfills. The detection of dioxin in seeps and groundwater during well samples in Phase I will be further investigated during the implementation of the Groundwater Investigation Work Plan (ABB-ES, 1997c).

3.3 OFF-BASE SAMPLING RESULTS. This section summarizes the sample results from each of the off-base surface water bodies (Bernard Bayou and Outfall 3 Swamp) that received drainage from the base and that were involved in Phase II sample collection. More complete analysis and interpretation of these results are presented in Chapters 4.0 and 6.0.

Bernard Bayou. Bernard Bayou is the largest body of water in the study area. The part of Bernard Bayou of interest extends from a point near the Interstate 10 and Highway 49 interchange to the confluence with Brickyard Bayou (Figure 1-2). Flow in the bayou is to the east towards the Back Bay of Biloxi. There are two important points on Bernard Bayou: the confluence of Turkey Creek and the confluence of Brickyard Bayou. Both of these surface water bodies receive runoff from the base; therefore, they potentially contain dioxin-contaminated sediment.

Phase I work around Bernard Bayou (Figure 2-11) focused on the confluence with Turkey Creek (Figure 2-9) and in Brickyard Bayou (Figure 2-10), prior to the confluence. Phase I results shows a trend of increasing dioxin levels was observed as samples were collected further out into Bernard Bayou.

Given Phase I results, the objective of Phase II samples focused on continuing a line of samples (five) into Bernard Bayou from Turkey Creek (also known as Gulfport Lake in this vicinity) and collecting two samples from Bernard Bayou at the confluence of Brickyard Bayou.

As shown on Figure 3-4, the level of dioxin did increase in sample BB006 to approximately 61 ppt. However, the proceeding four samples were all lower (and contained less than 5 percent TCDD) ending with the lowest result being 28 ppt at BB010. All of these samples were collected from the most likely depositional areas in the bayou, so these levels most likely represent maximum concentration levels for the sediment.

Figure 3-5 shows the locations of the samples collected in Bernard Bayou at the confluence with Brickyard Creek. Both of these results (BC006 and BC007) were below 30 ppt with very little TCDD (less than 5 percent). The analysis of how these results impact the overall delineation and conceptual models will be discussed in Chapters 4.0 and 6.0.

Outfall 3 Swamp. The Outfall 3 Swamp is the most direct off-base receptor of surface water and sediment from Site 8 (see Figures 1-2 and 3-6). The swamp is approximately 1,500 feet (north to south) by 750 feet (east to west). The culvert at Outfall 3 North conveyed surface water and sediment directly into the

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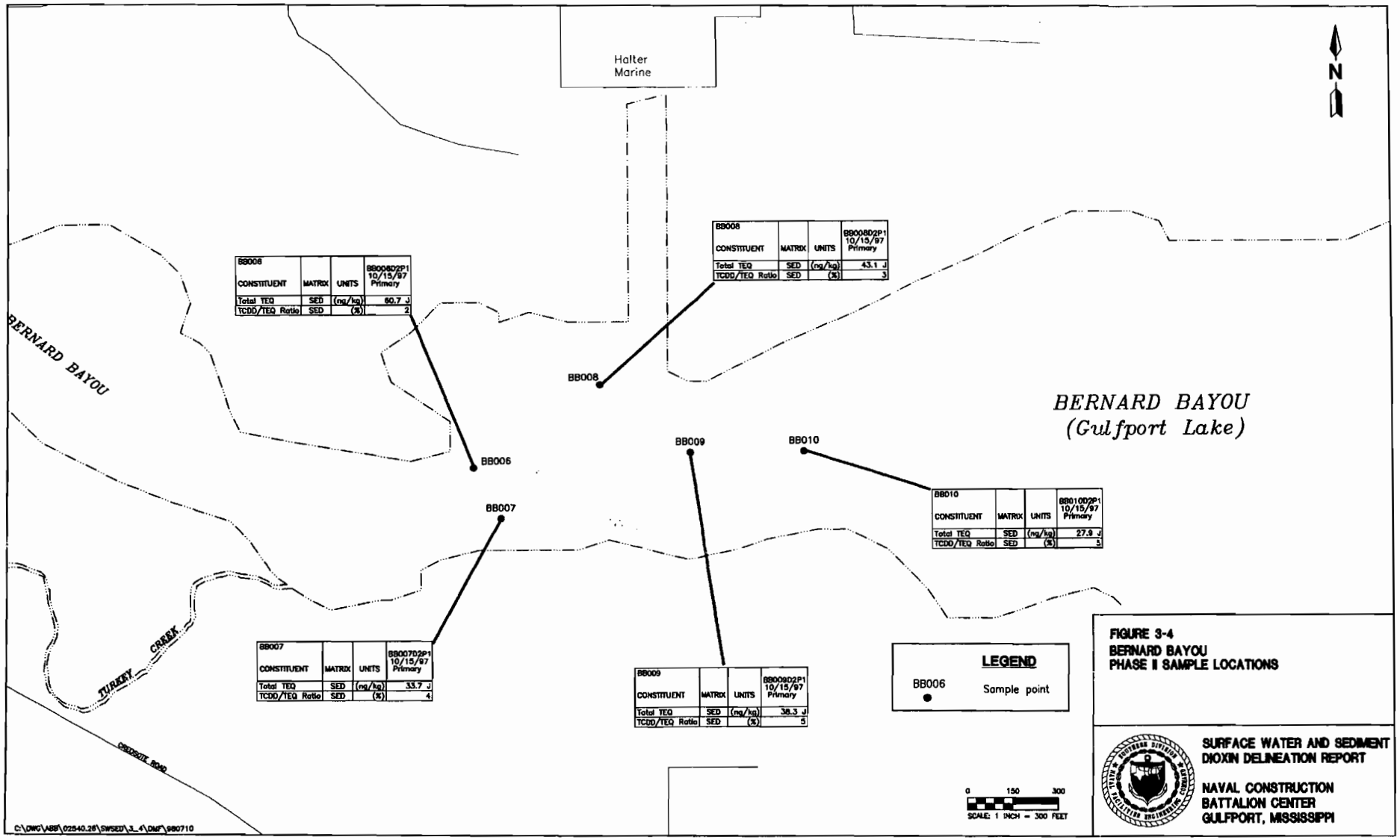

FIGURE 3-4
BERNARD BAYOU
PHASE II SAMPLE LOCATIONS

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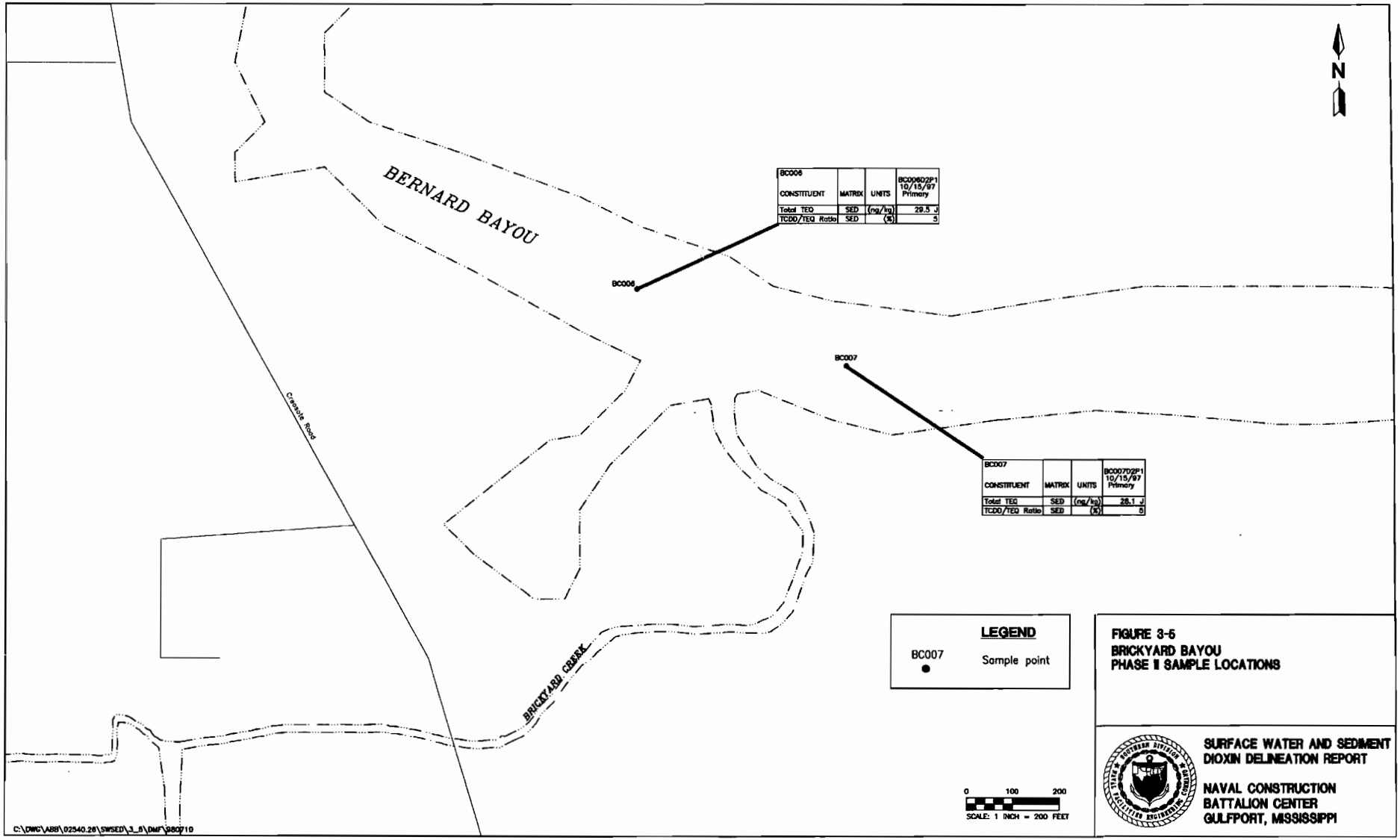

BC006 CONSTITUENT	MATRIX	UNITS	BC00602P1 10/15/97 Primary
Total TEQ	SED	(ng/kg)	29.5 J
TCDD/TEQ Ratio	SED	(%)	5

BC007 CONSTITUENT	MATRIX	UNITS	BC00702P1 10/15/97 Primary
Total TEQ	SED	(ng/kg)	28.1 J
TCDD/TEQ Ratio	SED	(%)	5

FIGURE 3-5
BRICKYARD BAYOU
PHASE II SAMPLE LOCATIONS

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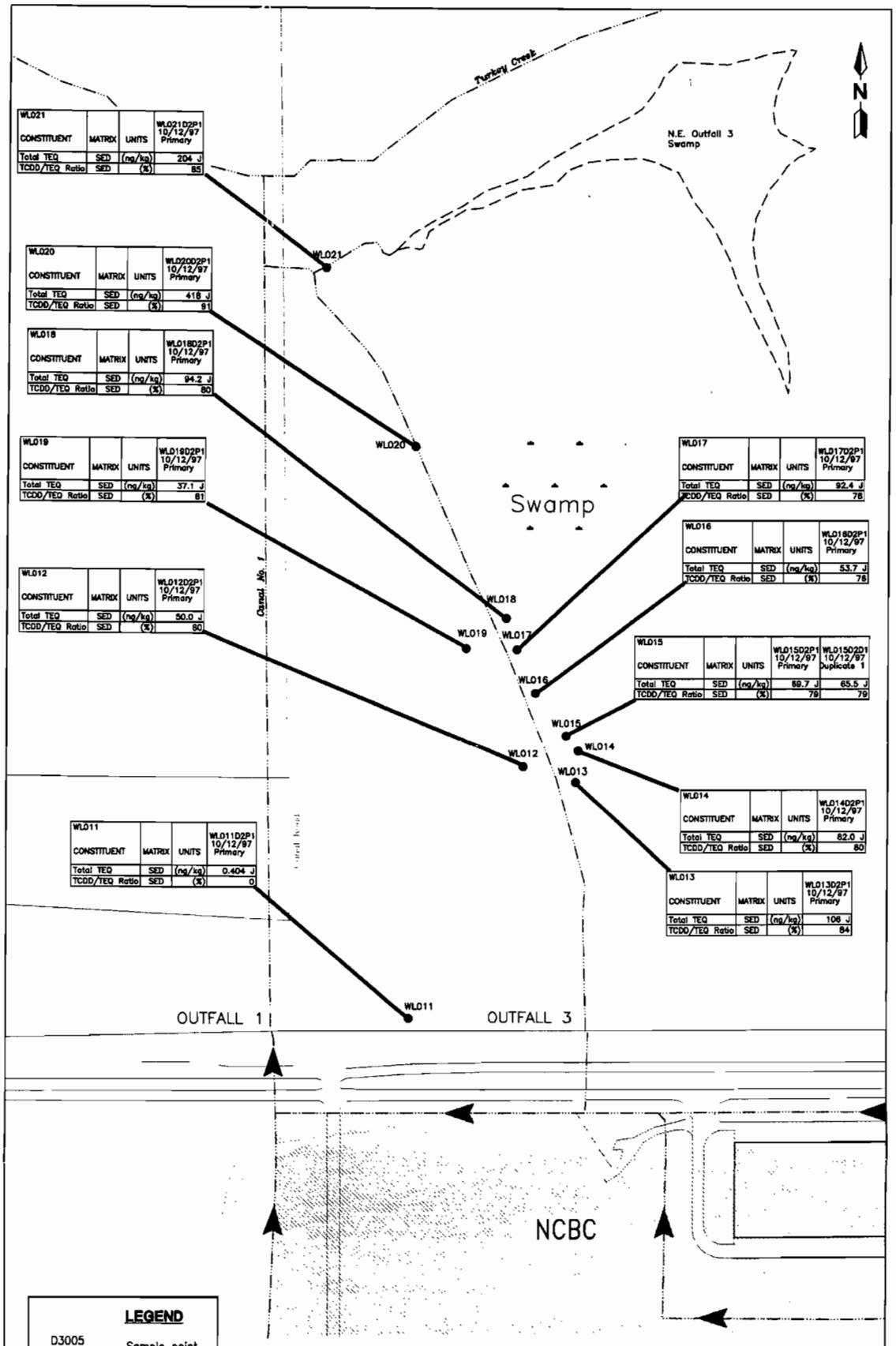

WL021 CONSTITUENT	MATRIX	UNITS	WL021D2P1 10/12/97 Primary
Total TEQ	SED	(ng/kg)	204 J
TCDD/TEQ Ratio	SED	(%)	85

WL020 CONSTITUENT	MATRIX	UNITS	WL020D2P1 10/12/97 Primary
Total TEQ	SED	(ng/kg)	418 J
TCDD/TEQ Ratio	SED	(%)	91

WL018 CONSTITUENT	MATRIX	UNITS	WL018D2P1 10/12/97 Primary
Total TEQ	SED	(ng/kg)	94.2 J
TCDD/TEQ Ratio	SED	(%)	80

WL019 CONSTITUENT	MATRIX	UNITS	WL019D2P1 10/12/97 Primary
Total TEQ	SED	(ng/kg)	37.1 J
TCDD/TEQ Ratio	SED	(%)	81

WL012 CONSTITUENT	MATRIX	UNITS	WL012D2P1 10/12/97 Primary
Total TEQ	SED	(ng/kg)	50.0 J
TCDD/TEQ Ratio	SED	(%)	80

WL011 CONSTITUENT	MATRIX	UNITS	WL011D2P1 10/12/97 Primary
Total TEQ	SED	(ng/kg)	0.404 J
TCDD/TEQ Ratio	SED	(%)	0

WL017 CONSTITUENT	MATRIX	UNITS	WL017D2P1 10/12/97 Primary
Total TEQ	SED	(ng/kg)	92.4 J
TCDD/TEQ Ratio	SED	(%)	78

WL016 CONSTITUENT	MATRIX	UNITS	WL016D2P1 10/12/97 Primary
Total TEQ	SED	(ng/kg)	53.7 J
TCDD/TEQ Ratio	SED	(%)	78

WL015 CONSTITUENT	MATRIX	UNITS	WL015D2P1 10/12/97 Primary	WL015D2D1 10/12/97 Duplicate 1
Total TEQ	SED	(ng/kg)	69.7 J	65.5 J
TCDD/TEQ Ratio	SED	(%)	79	79

WL014 CONSTITUENT	MATRIX	UNITS	WL014D2P1 10/12/97 Primary
Total TEQ	SED	(ng/kg)	82.0 J
TCDD/TEQ Ratio	SED	(%)	80

WL013 CONSTITUENT	MATRIX	UNITS	WL013D2P1 10/12/97 Primary
Total TEQ	SED	(ng/kg)	106 J
TCDD/TEQ Ratio	SED	(%)	84

LEGEND

D3005 ● Sample point

Drainage ditch

0 100 200
SCALE: 1 INCH = 200 FEET

FIGURE 3-6
OUTFALL 3 SWAMP
PHASE II SAMPLE LOCATIONS

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swamp until 1995, when road construction diverted the flow directly to Canal No. 1 at 28th Street. Previously, the surface water passed through the swamp in a shallow channel, eventually exiting the swamp through a culvert (under Canal Street) to Canal No. 1.

In Phase I (Figure 2-12), dioxin contamination in the channel was observed up to 254 ppt (WL008). Concerns over potential transport and deposition of dioxin-contaminated sediment out of the main channel and into the swamp prompted eight Phase II samples to be collected outside of the channel. An additional sample (WL011) was collected to check the condition of the sediment in the new ditch that conveys water from Outfall 3 to Canal No. 1. A second potential pathway out of the swamp was discovered, which occasionally flows to the northeast of the swamp. Sample WL021 was collected in that channel to assess if it was impacted by dioxin-contaminated sediment. Finally, sample WL020 was collected from the main channel in the swamp in what was expected to be the location with the highest amount of dioxin.

A TOC profile centered about sample WL020 was collected from the main channel. No profiles perpendicular to the channel were collected due to the highly organic nature of the swamp that may have masked any meaningful depositional changes.

Phase II results did confirm that overbank deposition of dioxin-contaminated sediment did occur in the swamp. In fact, the levels outside the main channel were as high as 106 ppt (WL013), but possibly even more important was that the percent of TCDD was 80 percent, which is an indication that the source of the dioxins is most likely from HO. Also, sample WL020 produced the highest TEQ of all off-base samples at 418 (91 percent TCDD).

Sample WL021, collected in the secondary outlet channel to the northeast, contained 204 ppt of dioxin of which 85 percent was TCDD. In the new ditch constructed to convey surface water from Outfall 3 to Canal No. 1, the sediment sample (WL011) contained only 0.4 ppt. The location of this result makes it likely that dioxin-contaminated sediment is migrating to the northeast from the Outfall 3 swamp, possibly into the southern branch of Turkey Creek.

Clearly, neither complete dioxin delineation nor an understanding of all of the migration pathways associated with the swamp are fully understood following Phase II sampling. Additional sampling in the swamp will be completed in 1998 and presented in a separate report. Some analysis of the Phase II results will be presented in Chapters 4.0 and 6.0, although final analysis of swamp results will be deferred to the future swamp evaluation report.

CHAPTER 4.0

4.0 DATA ANALYSIS AND INTERPRETATION

This chapter contains the data analysis and interpretation for the sample results collected during both phases of activities. The focus of this chapter will be to quantify the relationships, such as TEQ/TOC and TCDD/TEQ. These relationships have been important in gaining new depths of understanding into the transportation mechanisms and migration pathways of dioxins and furans that were the focus of this investigation. This chapter will begin with the updated conceptual models (on base and off base) that incorporate the most recent results of the Phase I and Phase II investigations.

4.1 ON-BASE CONCEPTUAL MODEL. The updated conceptual model for on-base areas of investigation is shown on Figure 4-1. Figure 4-1 shows the on-base ditch systems that were investigated for surface water and sediment dioxin contamination. These systems are divided into six drainage areas. These drainage areas represent distinct basins or subbasins that together represent the total hydraulic reach of the area of investigation. The distinctive nature of these drainage areas can have significant implications. The distinctive hydrologic features between drainage areas near potential sources of contamination may serve to hydraulically limit the extent of contamination by controlling migration pathways. The boundary between Drainage Areas 2 and 4 is an example of a hydraulically controlled limit of contamination. Note that on Figure 4-1, while Drainage Area 4 is quite close to a source area (Site 8b), the hydraulic divide that separates Drainage Areas 2 and 4 has most likely prevented dioxin-contaminated sediment from migrating into Drainage Area 4. This conceptual model is intended to summarize the current understanding of source areas, transportation mechanisms, and migration pathways that exist in on-base drainage systems at NCBC Gulfport. This map is not intended to be used as a delineation map or as a stand-alone basis for remedial decisions.

The main features that the conceptual model attempts to convey (Figure 4-1) are (1) source areas (Sites 4, 5, 8a, 8b, and 8c), (2) contaminant release/transport mechanisms (erosion of contaminated surface soil and mobilization of dioxin-contaminated particles via groundwater movement), and (3) the migration pathways (drainage ditches and seeps). These features of the conceptual model are discussed below.

Sources. As shown on Figure 4-1, the primary source areas investigated were Sites 4, 5, 8, and, to a lesser extent, Site 10. Site 8 (subdivided into areas A, B, and C) was the primary source for the dioxins observed in the ditch sediment in Drainage Areas 1, 2, and 3 through the storage and eventual leakage of an HO drums on the site. Sites 4 and 5 are the most likely sources for the dioxins observed in Drainage Area 5. The landfills at Sites 4 and 5 potentially received drums of HO that had been damaged at Site 8. Site 10 includes a small area of the ditch that was most likely contaminated through a PCB transformer oil spill. Dioxins are indicated in the vicinity of Site 10 because of their low-level association with PCB transformer oils.

In the late 1960s and throughout the 1970s, surface soil at Site 8 was the primary source of dioxins and furans at NCBC Gulfport. Since the remedial activities at Site 8, the largest continuing source of dioxins remains the bedload sediment of ditch systems hydraulically connected to Site 8 (See Figure

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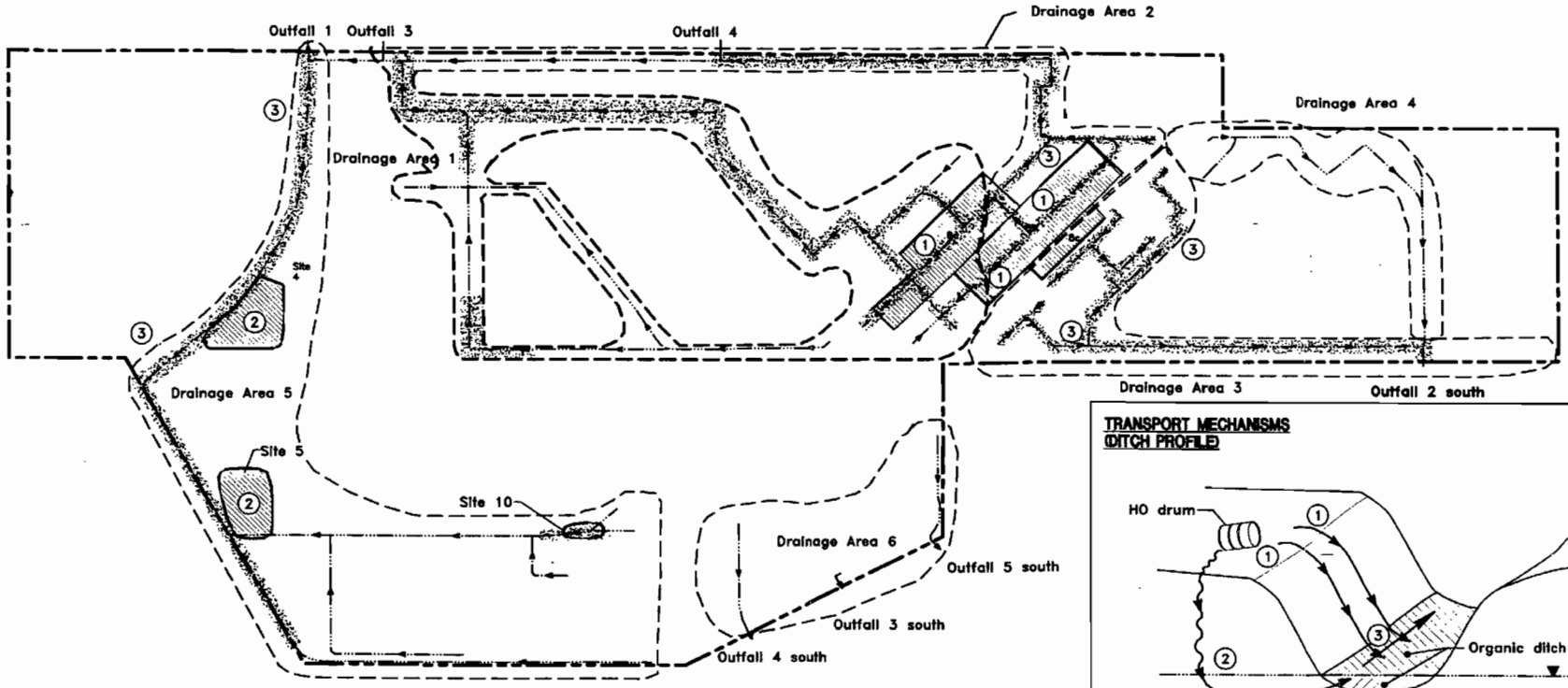

LEGEND

SOURCE AREAS

Source areas

MIGRATION PATHWAYS

Sheet flow

Drainage system with low levels of dioxin (<15 ppt)

Ditch systems investigated with higher levels of dioxin (>15 ppt)

TRANSPORT MECHANISMS

1. Erosion and transportation of dioxin-containing surface soils
2. Transportation of dioxin-containing groundwater into ditch (sites 4 & 5)
3. Storm flow erosion and transportation of dioxin-containing organic rich sediment in ditch bottom

0 500 1000
SCALE: 1 INCH = 1000 FEET

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FIGURE 4-1
ON-BASE CONCEPTUAL MODEL

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4-1). Seeps emanating from Sites 4 and 5 and entering Canal No. 1 have been shown to contain low levels of dioxin contamination and could possibly be contributing as a secondary source. Finally, Site 10 demonstrated that large spills of older PCB transformer oil could also be a dioxin and furan source on the base.

Transport Mechanisms. The initial transport mechanism for dioxins and furans on the base was the erosion of highly (greater than 1 ppb) contaminated surface soil prior to the remedial activities conducted at Site 8. Since that time, the primary transport mechanism on base is the erosion of dioxin-contaminated surface soil and sediment during storm events. Storm events are of particular concern because of the greater flow velocities developed in these channels mobilizes bedload sediments that are typically undisturbed during base-flow conditions. Of secondary importance is groundwater-mobilizing chemicals (such as vinyl chloride) that were potentially disposed of at Sites 4 and 5 and ultimately carried to Canal No. 1.

Migration Pathways. The migration pathways, as shown on Figure 4-1, indicate migrating bedload in ditch systems. The exception is at Sites 4 and 5 where dioxins may be migrating through groundwater and entering the ditch through seeps. The on-base ditch systems are manmade, have consistent gradients, and have been well maintained in the past. Therefore, flow velocities in the ditches primarily depend on the amount of precipitation.

Discussion of the Model. To best utilize this conceptual model, it should be understood that the dioxin contamination described in these ditch systems continues to be a dynamic process. Over time, the shape of the channels has influenced the way dioxins have been transported and deposited. Low areas and areas protected from higher flow rates (upstream pools of culverts) have tended to concentrate dioxin levels. Areas more prone to erosion or locations immediately downstream of barriers typically maintain lower levels of dioxin. Figure 4-1 shows the ditch systems found to contain dioxin levels above 15 ppt, which is the level established with MSDEQ as the lower delineation level. Due to the dynamic nature of this contamination, this map does not establish relative concentration contours; rather, it is intended to focus on which ditch systems have been affected and what the migration pathways are. The relative concentration levels determined by this investigation are shown on Figure 6-1. Following the off-base conceptual model, the remainder of this chapter evaluates the behavior of dioxins and furans in surface water and sediment.

4.2 UPDATED OFF-BASE CONCEPTUAL MODEL. The updated off-base conceptual model is shown on Figure 4-2. The intent of this conceptual model is to summarize the current understanding of source areas, transportation mechanisms, and migration pathways that exist in off-base drainage systems hydraulically connected to NCBC Gulfport. This map is not intended as a delineation map or as a stand-alone basis for remedial decisions.

The main features that the off-base conceptual model attempts to convey are (1) showing the off-base surface water systems hydraulically connected to on-base source areas, (2) indicating the on-base source areas (all on-base ditches with dioxin levels above 15 ppt were considered source areas along with the IR Sites 4, 5, and 8), (3) showing the off-base migration pathways, and (4) indicating off-base ditch systems with dioxin levels above 30 ppt in the sediment.

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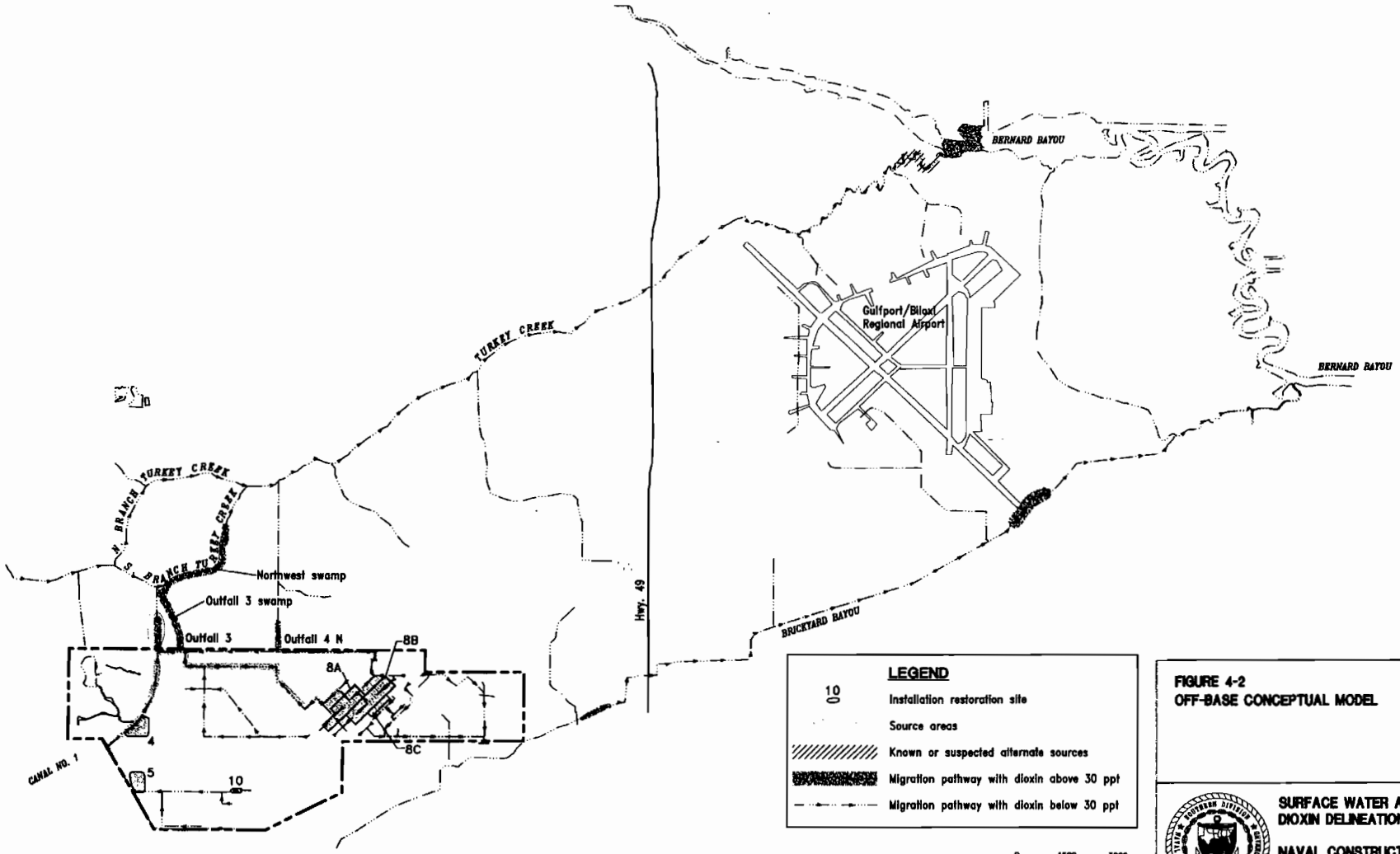

FIGURE 4-2
OFF-BASE CONCEPTUAL MODEL

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Sources. As stated earlier, the original source of the dioxins detected in off-base sediments appears to be the Site 8 HO, based on the high TCDD ratios (greater than 80 percent) observed in the Outfall 3 Swamp (see Figure 4-2). However, the on-base sediment that contains higher levels of dioxin may be considered a secondary source of contamination for off-base ditch systems. Note that on Figure 4-2, the on-base ditch systems with dioxin levels above 15 ppt are highlighted as potential sources contributing to off-base contamination. Finally, when considering the sources of dioxins in off-base sediment, other potential sources should be examined. Other industrial processes such as wood treatment and pulp and paper mills produce dioxins at levels that could be detected in samples collected during this program.

One such alternate source is from a former wood treatment facility located near the confluence of Turkey Creek and Bernard Bayou. In fact, there is a noticeable increase in dioxin levels directly downstream of this location on Bernard Bayou. While the increase in levels may be due to the settling out of dioxin-contaminated sediment from Turkey Creek into the lower energy environment of Bernard Bayou, the ratios of dioxins (e.g., the lack of TCDD and dominance of OCDD) are more indicative of wood treatment processes than of HO.

While the ratios of different dioxins and furans often indicate the type of chemical source (i.e., HO versus pulp and paper), it has been observed that these ratios are not necessarily consistent with distance from the source or release area. Dioxin ratios are discussed later in Section 4.4.

Transport Mechanisms. The transportation mechanisms responsible for mobilizing the dioxins and furans from the source areas on base are primarily the action of storm events scouring potentially contaminated bedload sediment and making them available for transport. The erosion of surface soil sediment and the action of groundwater, while important on-base transport mechanisms, are not likely to be significant off base. Therefore, the off-base conceptual model does not show surface soil erosion or the action of mechanisms of transport.

Migration Pathways. The migration pathways for off-base dioxins shown on Figure 4-2 are the movement of bedload sediment in the ditch systems shown. Groundwater and surface soil are not considered viable migration pathways for dioxins and furans off the base and are not shown on the model. This is because (1) the limited amount of off-base soil contamination and (2) the low solubility of dioxin prevents significant movement in groundwater.

Discussion of the Model. As with the on-base model, it should be mentioned that the dioxin contamination described in these surface water systems continues to be a dynamic process. Over time, the shape of the channels has influenced the way dioxins have been transported and deposited. However, transportation mechanisms in the surface water bodies off base are slightly different from on base. Off-base surface water systems (Turkey Creek, Brickyard Bayou, and Bernard Bayou) are larger and more uniform, potentially creating a situation where small variations in depositional patterns are not only insignificant but also much more difficult to determine based on water depth and consistency of stream velocity. The exception off base is the Outfall 3 swamp, where surface water velocities and depositional patterns are greatly influenced by storm events.

Figure 4-2 shows the surface water systems found to contain dioxin levels above 30 ppt, which is a level that is above the established MSDEQ lower delineation

level but more practical to implement given the potential for multiple sources. Due to the dynamic nature of the sediment contamination shown on this map, relative concentration contours are not shown. This map is intended to identify those ditch systems that have been affected and their migration pathways.

It is apparent from the fieldwork and laboratory results that the most important features of the off-base surface water systems are (1) overall gradient of the system, (2) susceptibility to storm events (nonstorm event) flow rates, and (3) susceptibility to storm events. Turkey Creek is the system with the highest gradient and highest sustained base flow. These conditions produce a bedload in Turkey Creek that is mostly a medium sand and not conducive to deposition of fine-grained or organic-rich sediment. Therefore, samples from Turkey Creek sediment contained very low levels of dioxins (all below 11 ppt). Canal No. 1, downstream of the base, also has a relatively high gradient and fine to medium sand sediment. A consistently high base flow rate and susceptibility to storm surge events make deposition of dioxin unlikely through its extent into Turkey Creek.

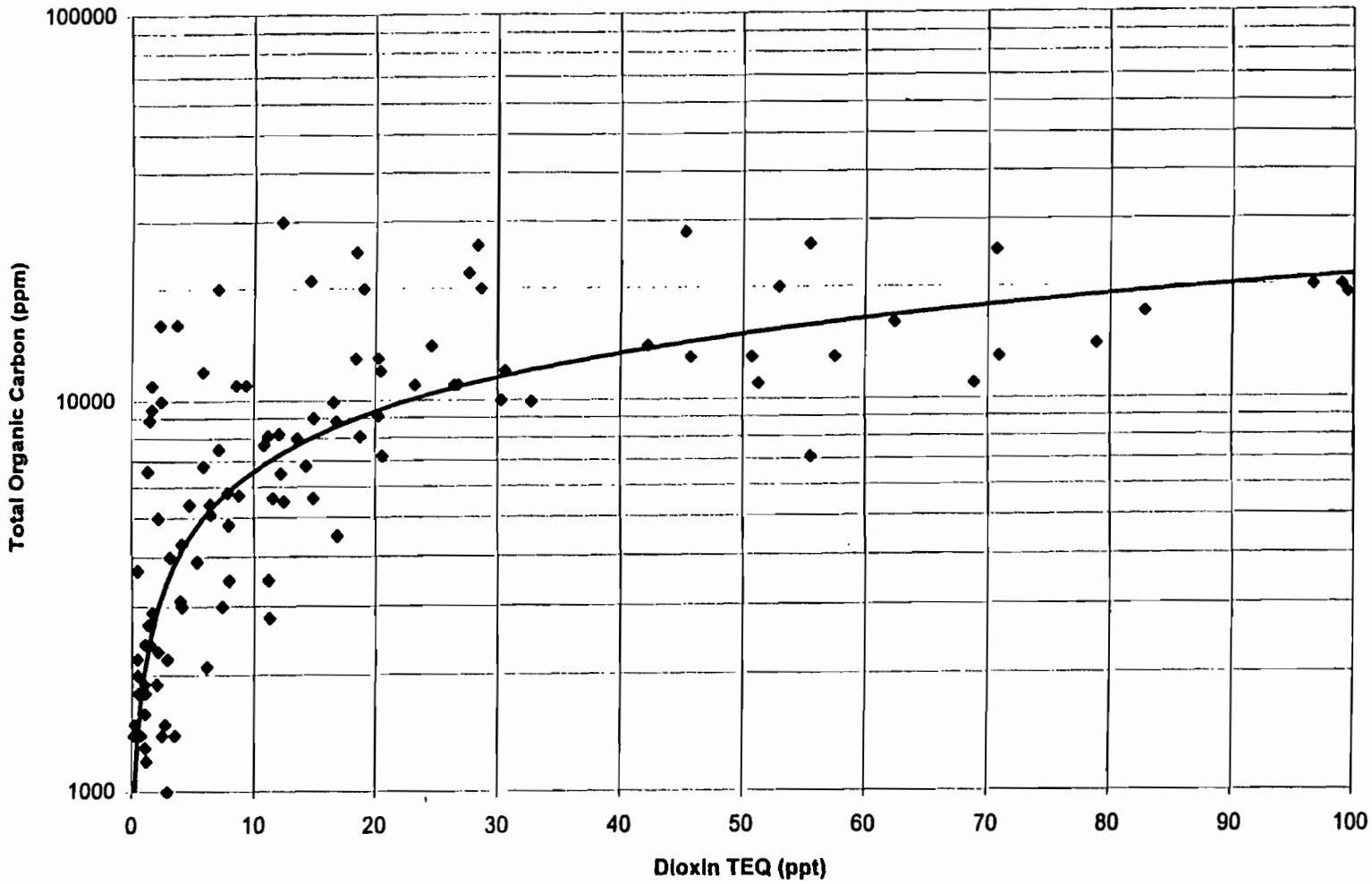
Where Turkey Creek enters Bernard Bayou, gradient drops off substantially. Flow rates slow to the point where substantial fine-grained and organic-rich deposits accumulate on the bottom of Bernard Bayou. As shown in Phase I and Phase II sampling, dioxin levels do increase with this accumulation of organic-rich sediment. However, the levels are not as high as on base, and the ratios may indicate multiple sources, such as wood treatment processes (see Figure 4-3). Ultimately, the lack of high levels of dioxin-contaminated sediment in Canal No. 1, Turkey Creek, or Bernard Bayou indicated that dioxin-contaminated sediment had most likely been diverted or never had been carried that far off base.

The Outfall 3 swamp received surface water and sediment directly from the HO ditch through Outfall 3 North. The results of Phase I and Phase II sampling in the swamp makes the swamp the most likely large-scale depositional area of dioxin-contaminated sediment that migrated off the base. The swamp has a very low gradient and structural impediments that make it ideal for depositing most of the fine-grained sediment and organic material that entered it. Two additional phases of sampling have been concluded and those results will be presented in another report.

The on-base and off-base conceptual models presented in this section are of a large scale and intended to present the current understanding of the sediment contamination investigated during this program. A more narrowly focused analysis of sampling results is presented in Chapter 6.0.

4.3 DIOXIN TEQ/TOC RELATIONSHIP. All sediment samples were split and analyzed for dioxin, furans, and TOC so that the relationship between organic carbon and dioxin TEQ could be studied and further understood. In earlier investigations (ABB-ES 1995a), the TEQ/TOC relationship was determined to be twofold: (1) an assumption that dioxin was available in the bedload of the ditch or creek and then (2) an increase of TOC levels were associated with higher levels of dioxin (TEQ).

The earliest investigation (during the 28th Street Removal Addition [ABB-ES, 1995a]) that correlated dioxin equivalency and organic carbon used a smaller database (35 samples) than the current surface water and sediment delineation



$$y = 3134.9\,Ln(x) + 2562.9$$
$$R^2 = 0.4601$$

FIGURE 4-3

COMPOSITE TOC/TEQ GRAPH

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investigation (143 samples). However, the correlation drawn in both studies was strong enough to allow using TOC as an indicator for likely areas of dioxin deposition. Figure 4-3 graphs the data from the Phase I and Phase II results. The dioxin/TOC relationship allows (1) collection of samples representing maximum dioxin concentrations and (2) reduces the number of expensive dioxin analyses to investigate a given ditch system.

For clarity of presentation, several data filters were run on the data. First, all background samples were removed. This was done because dioxin levels would be much lower since these areas did not receive sediment from the base of Site 8, which would skew graphs toward the y-axis. Second, samples that were primarily soil and not sediment were removed. This was done because soil samples collected outside the ditch bottoms are much less likely to contain significant amounts of organic carbon and would skew graphs toward the x-axis.

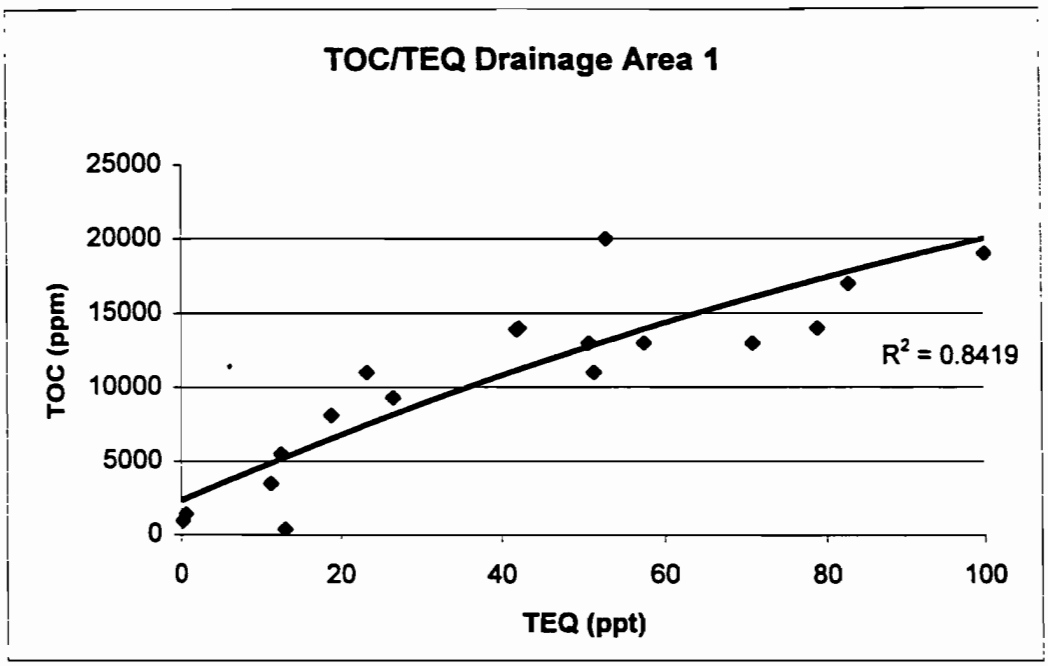
Three variations of TEQ/TOC data are (1) a composite graph of TEQ versus TOC from all sediment sampling locations, (2) a TEQ versus TOC graph for selected drainage areas, and (3) TEQ versus TOC over distance for each of the drainage areas. These variations allow many aspects of the TEQ/TOC relationship to be analyzed and presented.

Composite Graph. The graph of organic carbon against dioxin TEQ presented as Figure 4-3 shows that the relationship exists. In the overall graph, the organic carbon range is from 1,000 parts per million (ppm) to 100,000 ppm, while the TEQ range is from nondetect to 100 ppt. The TEQ (x-axis) was limited to 100 ppt to clarify the relationship in the low end of results (0 to 100 ppt), which is where most of the interest will be during delineation and removal and/or remedial actions. It should be noted that this graph is a composite graph with data from all drainage areas. Given the wide range of depositional environments and degree to which these ditches are hydraulically connected to Site 8, the scatter was expected to significantly diverge from the best-fit line. Increasing levels of TOCs are proportional to dioxin concentrations if dioxin is available in the bedload.

On Figure 4-3, the trend displayed shows that the relationship is quite steep until approximately 30 ppt TEQ. After that, the curve flattens out considerably, all the way to 1 ppb (not shown on this graph). What was also observed is a "cap" of approximately 30,000 ppm for TOC samples that may limit the upward trend of the graph. The square root (R^2) value for the overall graph is not very high, indicating the obvious scatter about the best-fit line. This graph is best used for a qualitative comparison of the relationship.

This graph confirms the qualified relationship between organic carbon and dioxin TEQ, although it is the relationships shown in the individual drainage areas where this connection becomes clearer and more useful. These individual drainage area relationship(s) are discussed below.

TEQ/TOC Individual Drainage Areas. To best demonstrate the TEQ/TOC relationship, the two drainage areas closest o the physical source, Site 8, were evaluated. Drainage Areas 1 and 2 consistently exhibited the highest levels of TEQs during the project, as well as the most predictable TEQ/TOC relationship. The following Figure (Figure 4-4) for Drainage Area 1 and Drainage Area 2 compares TEQ and TOC in the same way as the composite graph. In these focused graphs, the trend line



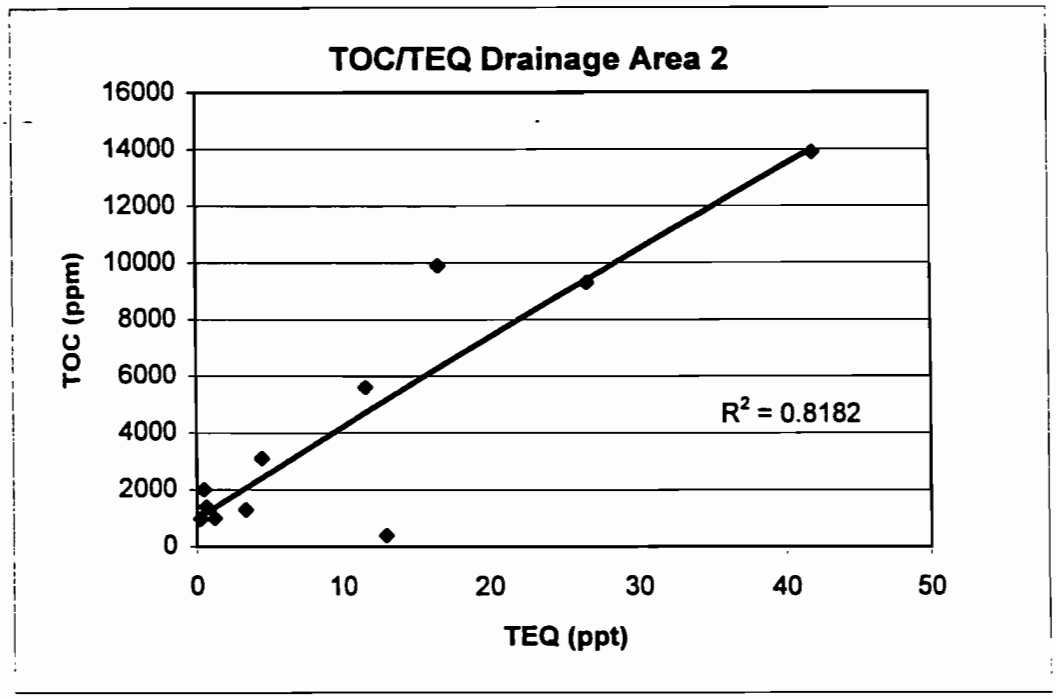


FIGURE 4-4

TOC/TEQ INDIVIDUAL DRAINAGE AREAS

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of the relationship exhibits much stronger R^2 values than in the composite graph. The best-fit trend lines in these graphs are both second-order polynomials. These graphs take the relationship between TEQ and TOC beyond the qualitative and demonstrate the predictive, or quantitative, nature that has been established with this data set. In other words, when following a "biased sampling" approach of seeking locations of maximum dioxin deposition in sediment, specific TOC results can be correlated to predict estimates of dioxin levels.

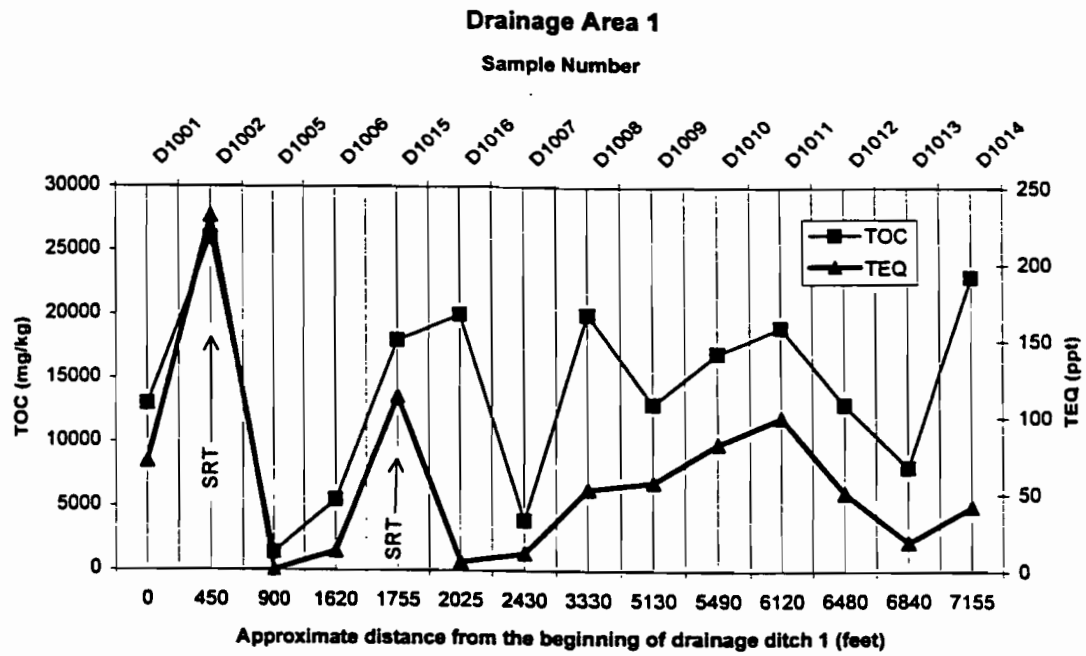
This relationship can be used to (1) reduce the volume of sediment that is assumed to be contaminated during the planning stages of remedial activities, (2) reduce the number of confirmation samples following remediation, and (3) accurately locate long-term sampling locations.

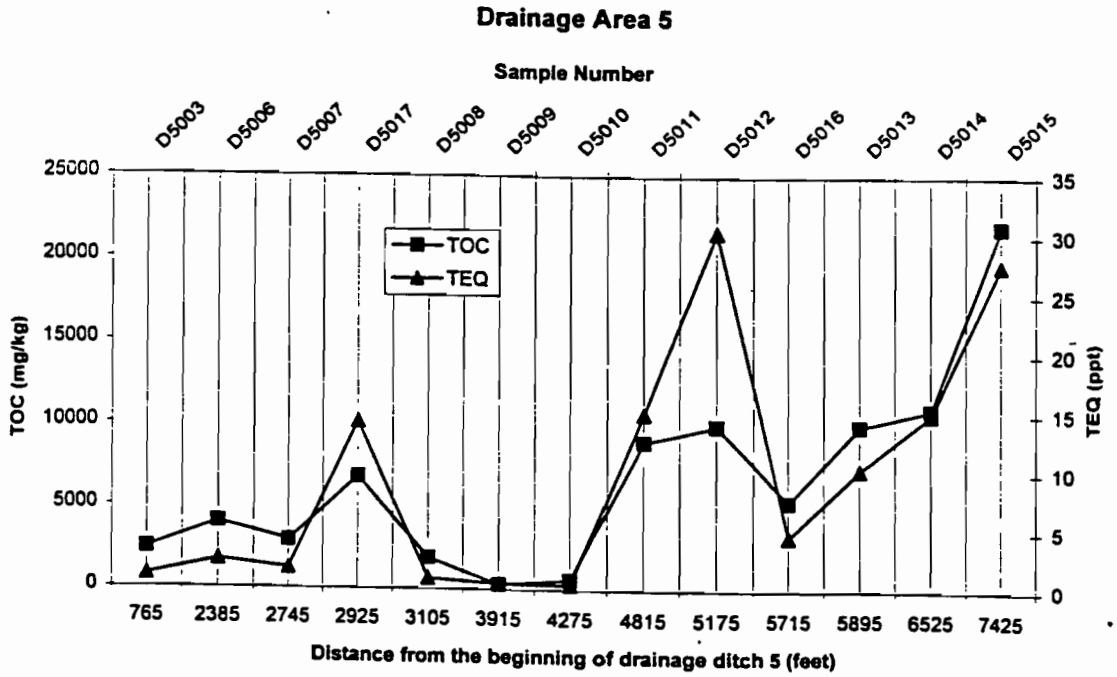
Finally, if the TCDD component of the TEQ is considered in relation to TOC, the correlation for Drainage Areas 1 and 2 remain unchanged. However, for the remaining drainage areas, isolating TCDD does negatively impact the strength of the correlation due to the relatively low levels of TCDD in some of the sample results. This is best shown in the wide scatter about the composite graph and may indicate multiple sources of dioxins (all congeners) in the remaining drainage areas.

TEQ/TOC Over Distance. As shown on the two individual drainage area figures that follow (Figure 4-5), the dioxin and TOC levels increase and decrease together, especially in areas with higher levels of dioxin contamination (Drainage Area 1, Drainage Area 2, and Outfall 3 Swamp). Interestingly, the peaks and valleys in the corresponding values can be attributed to physical factors such as SRTs, natural ponding depositional areas, and proximity to Site 8. These individual drainage area graphs were used to determine the TOC delineation lines that reduced the number of expensive dioxin samples in Phase II, while still providing accurate estimates of dioxin levels. A complete set of graphs are available in the Phase I Report (Appendix A).

This drainage area (Drainage Area 1) was selected to demonstrate that in a larger sense, the dioxin/TOC qualitative relationship holds regardless of the dominant congener. As shown later in Chapter 6.0, these individual congeners do behave differently in the presence of organic carbon. As far as these TEQ/TOC graphs over distance, TCDD is the dominant congener in Drainage Area 1. Heptachloro-dibenzo-p-dioxin (HxCDD) and OCDD dominate for Drainage Area 5. However, it is clear that the dioxin level and TOC level increase and decrease much the same regardless the dominant congener. If, however, all dioxin congeners had the same "mobility," the ratios (or mix) would not be expected to change significantly with distance from Site 8. HLA has recognized for some time that this is not the case and the following section explores this relationship.

4.4 TEQ/TCDD RATIOS. While the TEQ/TOC relationship was useful for locating likely deposits of dioxin-containing sediment, the other key indicator ratio (TEQ/TCDD) was determined in order to support the delineation relative to chemical source tracking dioxins and furans related to HO. It should be noted here that using the TEQ/TCDD ratio as an indicator of an HO source is really best suited for high (75 percent and above) and low (less than 10 percent) ratios (Arienti and others, 1988). Ratios in between these levels may indicate multiple chemical sources, non-HO sources or could be the result of differential transport





LEGEND

SRT sediment recovery trap

FIGURE 4-5

TOC/TEQ RELATIONSHIP WITH DISTANCE FROM SITE 8

SURFACE WATER AND SEDIMENT DIOXIN DELINEATION REPORT

NAVAL CONSTRUCTION BATTALION CENTER GULFPORT, MISSISSIPPI

contaminant patterns of individual congeners. In fact, due to the importance of this ratio, all Phase II maps with results include a space in the chemical box for the TEQ/TCDD ratio.

With this in mind, the TCDD/TEQ ratios for sediment collected immediately around Site 8 were nearly all 90 percent or greater (see Phase II result maps in Chapter 3.0). This was a strong indication that the dioxins were derived from an HO source because 2,4,5-T tends to generate TCDD in much greater proportions over other dioxin and furan congeners. Following the drainage ditches away from Site 8, two trends are apparent: (1) TCDD/TEQ ratios decrease preferentially to TEQ over distance in uniform channels and (2) the overall trend for total TEQs shown decreases with distance from Site 8, indicating the bedload transport mechanism. For Drainage Areas 1 and 2, the average TCDD/TEQ ratios are 90 and 94 percent, respectively, while in other drainage areas not hydraulically connected to Site 8, the ratios tend to average less than 15 percent.

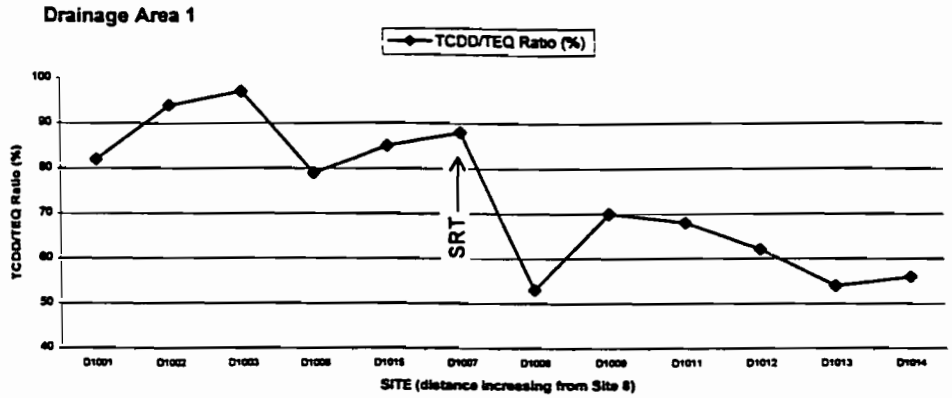
Ratios do not exclusively include or exclude HO as a potential source, especially when the ratios are below 75 percent TCDD. Below 70 percent TCDD, other sources should be considered when trying to determine the source of the dioxins and furans. Original HO typically had 90 to 95 percent TCDD (Arienti and others, 1988), although it has been observed that this ratio can drop with distance from the site. Possibly due to variations in transport patterns related to congeners.

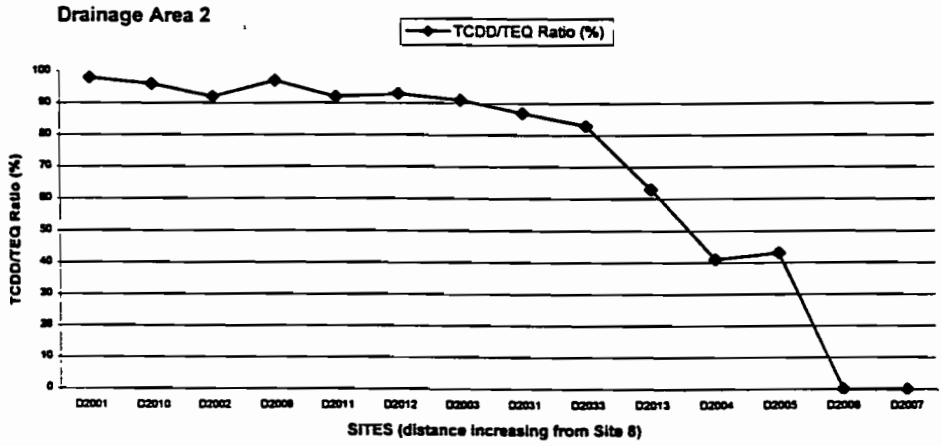
The figure for TCDD ratio over distance (Figure 4-6) for Drainage Areas 1 and 2 and two locations in the swamp is presented here. Clearly, the ratio drops dramatically with increasing distance from Site 8 (the presumed source of the dioxins) in Drainage Areas 1 and 2, which indicates TCDD is most likely less mobile than the other congeners in organic-rich sediment.

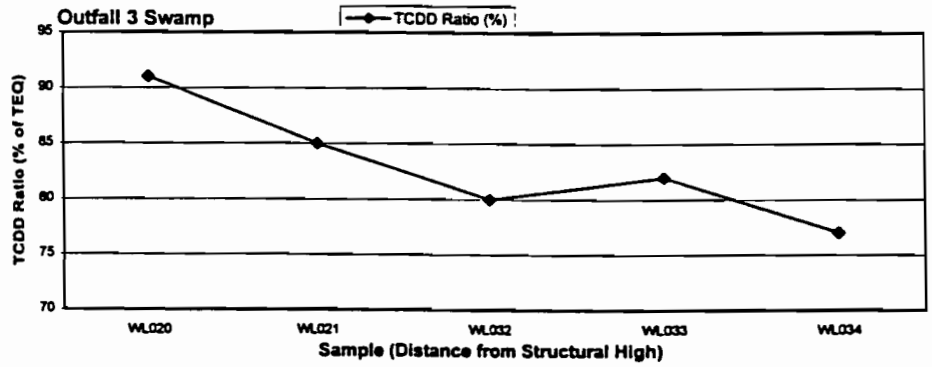
The Outfall 3 Swamp area produced the highest TEQs (greater than 400 ppt) and the highest ratios (average of 79 percent) from off-base samples. The ratios in the swamp are comparable to those immediately upstream on the base and are an indication that HO-related dioxins and furans were likely transported off the base in sediment. Similarly, the TCDD ratios in the swamp decrease with distance, but not from Site 8. In the swamp, structural obstacles that alter depositional patterns are more significant than distance from an arbitrary fixed point. Here, the important relationships are observed in uniform sections in the swamp. These uniform sections are portions of the main channel or depositional areas that are, in a larger sense, part of a single depositional bias. Figure 4-6 presents such a situation in the swamp – the first (Swamp 1) is in the main channel from 28th Street to sample WL034 location (where channel morphology alters deposition) and the second is the northeast channel (Swamp 2) from the confluence with the main channel and continuing downstream. Clearly, both graphs show that TCDD decreases as a proportion of the TEQ with distance from the given ditch structural feature.

Accounting for the ratio changes over distance from Site 8, the TCDD ratios indicate that the drainage areas and ditch segments listed below exhibit ratios indicating HO-related dioxin contamination in the sediment.

- <u>Drainage Area 1, the HO ditch, from Site 8 to Outfalls 3 and 1 North</u>. This area includes all interior ditches inside the boundaries of Site 8a. In Drainage Area 1, approximately 13,500 linear feet of ditch contains sediment with TCDD ratios above 75 percent.







LEGEND

SRT sediment recovery trap

FIGURE 4-6

TCDD/TEQ RATIO PLOTS

SURFACE WATER AND SEDIMENT DIOXIN DELINEATION REPORT

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- Drainage Area 2, from site 8 to Outfall 4, including the interior ditches at Site 8a and 8b. Approximately 6,300 linear feet of this ditch system contains sediment with TCDD ratios at or above 75 percent.

- Outfall 3 Swamp, from Outfall 3 North to South Branch Turkey Creek. Approximately 3,500 linear feet of ditch with dioxin-contaminated sediment at or above 75 percent. Unlike on-base ditches, the swamp area includes significant over-bank deposition of contaminated sediment.

Based on Figure 4-6, TCDD appears to be less mobile than other congeners in these organic-rich ditches. This relationship may be caused by the number of chlorine atoms that influence the sorptive coefficient of a given congener with organic carbon.

This analysis is qualitative, meaning that specific conclusions should be tailored for a given ditch segment or basin. Local depositional conditions, as well as physical and chemical characteristics of the sediment, must always be considered when using this ratio. The generalized conclusions that can be drawn are (1) for a given uniform stretch of ditch or swamp, TCDD will adhere to organic carbon more readily than the other congeners that make up the TEQ, and (2) the ideal depositional areas (pools and low velocity areas) tend to concentrate TCDD over the other congeners.

One final word on TCDD ratios, since the ratios do change as a function of distance from the source (Site 8) in these ditches, a fingerprint analysis becomes much more complicated to complete. In a sense, the analysis would be a third order solution including comparison of (1) ratios of background dioxin congeners, (2) ratios of source congeners, and (3) the predicted change in the ratios of source congeners over distance. Without considering distance into the fingerprint analysis, an accurate or defensible conclusion may be difficult.

5.0 DATA VALIDATION

This chapter summarizes the analytical program for soil, groundwater, surface water, and sediment samples collected during the Phase I and Phase II investigation activities at NCBC Gulfport, Mississippi. In addition, a summary of data quality and usability is presented.

5.1 CHEMICAL ANALYSES. Sampling activities during Phase I and Phase II included the collection of soil, groundwater, surface water, and sediment samples. All environmental samples and associated quality control (QC) samples (including source blanks, rinsate blanks, field duplicates, and matrix spike/matrix spike duplicate [MS/MSD] samples) were collected in accordance with the procedures outlined in the On-Site and Off-Site Delineation Work Plans (ABB-ES, 1996a and 1996b).

Samples that were collected for VOC analysis, SVOC analysis, and pesticide/PCBs analysis were analyzed in conformance with Contract Laboratory Program Protocols (U.S. Environmental Protection Agency [USEPA], 1990; 1991a; and 1992). These samples were validated according to Naval Energy and Environmental Support Activity (NEESA) (1988) Level D data quality objectives (DQOs). In accordance with Level D DQOs, the USEPA National Functional Guidelines for Organic Data Review (1991b) and USEPA Draft Pesticide/Aroclor Data Review Guidelines (1991) were used to validate the laboratory data. Samples that were collected for dioxin, furan, herbicide, and TOC analysis were analyzed according to SW-846 Methodology (USEPA, 1986) and validated to NEESA Level D DQOs. Level D data validation was perform by evaluating conformance to QC criteria established for each analytical method in conjunction with the USEPA National Functional Guidelines for Organic Data Review (1991b), where applicable.

5.2 DATA QUALITY ASSESSMENT SUMMARY. During data review and data validation, data quality indicators of precision, accuracy, representativeness, comparability and completeness (PARCC) criteria, as described in Subsection 4.3.2 in the On-Site and Off-Site Delineation Work Plans (ABB-ES, 1996a and 1996b), were evaluated for all data generated during the investigations to determine data usability. The following subsections summarize the results of the PARCC evaluation for dioxin and nondioxin data. The PARCC report for the Phase II data is included in Appendix C-1. Also, the PARCC report for Phase I is included as Appendix C-2.

5.2.1 Dioxin Data

Precision. The acceptance criteria for evaluating precision of field duplicate analytical results is the relative percent difference (RPD) of 20 percent for the water matrix and 35 percent for the soil matrix.

Soil Matrix Twenty field duplicate pairs were analyzed for dioxins and furans. Nine of twenty field duplicate pairs exhibited acceptable RPDs for all the congeners detected. Ten of the field duplicate pairs exhibited noncompliant RPDs (meaning that the duplicate result was at least 20 percent different from the original) for at least one of the congeners detected. One field duplicate pair (L8004S1P1) was rejected and not reanalyzed.

Nine MS/MSD pairs were analyzed for dioxins and furans. Four of the nine MS/MSD pairs exhibited a noncompliant RPD for the compound OCDD. Five of the nine exhibited noncompliant RPDs for one or more compounds and/or congeners.

Water Matrix Five field duplicate pairs were analyzed for dioxins and furans. One pair exhibited acceptable precision for the one congener detected. Four field duplicate pairs exhibited noncompliant RPDs for the congeners requiring RPD calculations.

Four MS/MSD pairs were analyzed for dioxins and furans. The MS/MSD associated with sample D2006W1P1 exhibited a noncompliant RPD for the compound octachlorodibenzofuran (OCDF). The MS/MSD associated with sample C1001W1P1 exhibited a noncompliant RPD for the compound OCDD. The MS/MSD associated with sample GPT44G1P1 exhibited noncompliant RPDs for the congeners 2,3,7,8-TCDD and 2,3,7,8-tetrachlorodibenzofuran. The MS/MSD associated with sample TC006W1P1 exhibited a noncompliant RPD for the congener 1,2,3,4,7,8,9-heptachlorodibenzofuran. However, based on the assessment of additional QC criteria, the analytical data did not require qualification (Heartland, 1998).

Based on assessment of duplicate precision evaluation criteria, the soil and water data were acceptable for each sample delivery group (SDG). None of the analytical data required qualification because of noncompliance based on precision (Heartland, 1998).

Accuracy. Accuracy was assessed using MS/MSD samples for each matrix, as well as using the recovery of the internal standards.

Soil Matrix Eleven MS/MSD pairs were analyzed for the dioxin and furan fraction. Three of the eleven MS/MSD pairs exhibited acceptable recoveries for all spike compounds. Eight of the eleven MS/MSD pairs exhibited at least one recovery outside of the QC limits.

Twenty-nine field samples and six field duplicates analyzed for dioxins and furans, exhibited one or more noncompliant recoveries above the QC limits for internal standard compounds. This indicates that all reported positive results for the target compounds associated with the noncompliant internal standards in the field soil samples could be biased high. Therefore, all reported positive results associated with the noncompliant internal standards in reported field samples and field duplicates were appropriately qualified as estimated (J) and are listed below.

TC006D1D1	L8013S1D1	D5011D1D1	L8016S1P1	L8017S1P1
TC008D1P1	L8013S1P1	D5015D1P1	C1002D1P1	D1015D1D1
D2005D1P3	D5006D1P1	WM005D1P1	L8020S1P1	D1016D1P1
TC002D1P1	D5003D1P1	WM005D1D1	L8020S1D1	D1015D1P1
TC001D1P1	D6005D1P1	L8024S1P1	L8007S1P1	EE13UD1P1
L8033S1P1	D5017D1P1	L8022S1P1	L8026S1P1	EE07DD1P1
L8027S1P1	D5009D1P1	L8021S1P1	L8032S1P1	EE04DD1P1

Thirteen field samples and one field duplicate analyzed for dioxins and furans exhibited one or more noncompliant recoveries below the QC limits for internal standard compounds. This indicates that all positive and nondetect results for the target compounds associated with noncompliant internal standards in the field

QC blank could be biased low. Therefore, positive and nondetect results for associated target compounds in reported field samples and field duplicates D1007D1P3, WL006D1P1, WL007D1P1, WL008D1P1, WL010D1D1, D5007D1P3, BC002D1P1, BC001D1P1, D3004D1P1, D2003D1P1, D2006D1P1, and D2008D1P1 were appropriately qualified as estimated (J/UJ) and should be considered potentially underestimated (Heartland, 1998).

Water Matrix Five MS/MSD pairs were analyzed for the dioxin and furan fraction. One of the five MS/MSD pairs exhibited acceptable recoveries for all spiked compounds. Two of the five MS/MSD pairs exhibited one recovery each above the QC limit. Two of the five MS/MSD pairs exhibited one recovery each below the QC limit.

Four field samples and three field QC blanks analyzed for dioxin and furan exhibited one or more noncompliant recovery for internal standard compounds. The field samples and two of the field QC blanks exhibited internal standard recoveries that were above the QC limit. This indicates that all positive results for the target compounds associated with the noncompliant internal standards in the field water samples could be biased high. Therefore, all positive results in the field samples D5004W1P1, D3005W1P1, D3003W1P1, and D1005W1P1 and the two field QC blanks QARI101 and QARI103 were appropriately qualified as estimated (J). The recoveries in the other field QC blank were below the QC limits. This indicates that all positive and nondetect results for the target compounds associated with the noncompliant internal standards in the field QC blank could be biased low. Reported results for associated compounds were appropriately qualified as estimated (J/UJ) in sample QADI102 and should be considered potentially underestimated (Heartland, 1998).

The dioxin and furan fraction accuracy evaluation criteria was met, with the noted high bias potential in the four field samples and the two field QC blanks and the low bias potential in the one field QC blank.

Representativeness. Representativeness of the environmental sample data was assessed using trip blanks, field blanks, equipment rinsate blanks, and laboratory method blanks. The environmental samples and associated blanks were analyzed for dioxins and furans.

Table 5-1 lists the target analytes detected in the method blank samples that required qualification of field samples.

Table 5-1
Target Analytes Detected in Dioxin and Furan Method Blanks

Sediment and Surface Water Dioxin Delineation Report
Naval Construction Battalion Center
Gulfport, Mississippi

2,3,4,6,7,8-Hexachlorodibenzofuran	2,3,4,6,7,8-Hexachlorodibenzofuran
1,2,3,4,6,7,8-Heptachlorodibenzofuran	1,2,3,4,7,8-Hexachlorodibenzofuran
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	1,2,3,4,6,7,8-Heptachlorodibenzofuran
2,3,7,8-Tetrachlorodibenzofuran	1,2,3,4,6,7,8,9-Octachlorodibenzodioxin
1,2,3,6,7,8- Heptachlorodibenzo-p-dioxin	1,2,3,7,8,9- Hexachlorodibenzofuran
1,2,3,6,7,8- Hexachlorodibenzofuran	

The dioxin and furan contamination is not commonly found in the laboratory. This contamination may be attributed to the glassware used in sample preparation (Heartland, 1998).

Some of the analytical results were qualified due to target compounds being detected in some of the method blanks. However, based on assessment of method blanks for representativeness, the analytical data were acceptable for each SDG.

Holding Times Some of the dioxin and furan samples required reanalysis because the laboratory did not correctly (in accordance with the method) analyze the continuing calibration standard sequence. All of these samples were outside the recommended analysis holding time of 45 days from collection. However, the analytical data from the reanalyzed samples were not qualified based on the exceeded analytical holding time. The method states "The holding times listed in Section 6.4 of SW 846 are recommendations. PCDDs and PCDFs are very stable in a variety of matrices and holding times under the conditions listed in 6.4 may be as high as a year for certain matrices" (SW-846 Method 8290, pages 10-11, Section 6.6, Note). The laboratory stated that the sample extracts were kept in storage at 4 degrees Centigrade as the method requires. The method further states, "Whenever samples are analyzed after the holding time expiration date, the results should be considered to be minimum concentrations and must be identified as such" (SW-846 Method 8290, pages 10-11, Section 6.4). Therefore, results that are reported from the reanalyses of the samples should be considered biased low (Heartland, 1998).

Comparability. The methods used to collect the environmental samples and the methods used to analyze the samples should assure comparability of the analytical (Table 5-2).

Table 5-2
USEPA Procedures SW-846 Methodologies

Sediment and Surface Water Dioxin Delineation Report
Naval Construction Battalion Center
Gulfport, Mississippi

USEPA Method	Description
SW-846, Method 8290	High resolution dioxin and furan

Note: USEPA = U.S. Environmental Protection Agency.

Completeness. Completeness is the quantitative measure of the amount of data obtained from the measurement process compared to the amount expected to be obtained under the conditions of measurement. The completeness goal for laboratory analysis for this project was 95 percent useable data. A summary of the completeness goal for the investigation activities is listed in Table 5-3.

Two herbicide MSs exhibited surrogate recoveries above the QC limits. Qualification of analytical data due to this noncompliance was not required.

Representativeness. Representativeness of the environmental sample data was assessed using trip blanks, field blanks, equipment rinsate blanks, and laboratory method blanks. The environmental samples and associated blanks were analyzed for VOCs, SVOCs, pesticides, PCBs, and herbicides.

Table 5-3
Completion Goal (>95%)

Sediment and Surface Water Dioxin Delineation Report
Naval Construction Battalion Center
Gulfport, Mississippi

	QC	Soil	Water	Overall
Dioxin and/or furan	98.5	100.0	100.0	99.5

Notes: > = greater than.
% = percent.
QC = quality control.

The method blanks associated with the VOCs, SVOCs, and herbicides did not exhibit contamination.

Table 5-4 lists target analytes detected in the pesticide and PCB method blank samples that required qualification of field samples.

Table 5-4
Target Analytes Detected in Pesticides and PCB Method Blanks

Sediment and Surface Water Dioxin Delineation Report
Naval Construction Battalion Center
Gulfport, Mississippi

4,4'-DDT	Aldrin
Endrin aldehyde	Methoxychlor

Notes: PCB = polychlorinated biphenyl.
DDT = dichlorodiphenyltrichloroethane.

The pesticide and PCB compounds are not commonly found in the laboratory as a contaminant. The reported concentrations were below the contract required quantitation limit (CRQL) for all of the compounds. This contamination may be attributed to the glassware used in sample preparation (Heartland, 1998).

Because target compounds were detected in some of the method blanks, some of the analytical results were qualified. However, based on assessment of method blanks for representativeness, the analytical data was acceptable for each SDG (Heartland, 1998).

Holding Times All holding time requirements, extraction and analytical, were met for all samples for the VOCs, SVOCs, and pesticide and PCB analytical fractions.

One sample analyzed for the herbicide fraction was extracted 12 days outside the extraction holding time recommended in the method. Sample D2003D1P1 was re-extracted due to surrogate recovery noncompliance. The positive and nondetect results reported in the sample were appropriately qualified as estimated (J/UJ).

Comparability. The methods used to collect the environmental samples and the methods used to analyze the samples should assure comparability of the analytical (Table 5-5).

Table 5-5
USEPA Procedures (CLP or SW-846 Methodologies)

Sediment and Surface Water Dioxin Delineation Report
Naval Construction Battalion Center
Gulfport, Mississippi

USEPA Method	Description
CLP, OLM1.8, SOW 3/90	Volatile organic compounds
CLP, OLM1.8, SOW 3/90	Semivolatile organic compounds
CLP, OLM1.8, SOW 3/90	Pesticides/PCBs
SW-846, Method 8150	Chlorinated herbicides

Notes: USEPA = U.S. Environmental Protection Agency.
CLP = Contract Laboratory Program.
SOW = Statement of Work.
PCB = polychlorinated biphenyl.

Completeness. Completeness is the quantitative measure of the amount of data obtained from the measurement process compared to the amount expected to be obtained under the conditions of measurement. The completeness goal for laboratory analysis for this project was 95 percent useable data. Table 5-6 is a summary of the completeness goal for the investigation activities.

Table 5-6
Completion Goal (>95%)

Sediment and Surface Water Dioxin Delineation Report
Naval Construction Battalion Center
Gulfport, Mississippi

	QC	Soil	Water	Overall
GC/MS VOCs	100.0	100.0	100.0	100.0
SVOCs	100.0	99.9	100.0	99.96
Pesticide/PCBs	100.0	100.0	96.80	98.90
Herbicides	100.0	100.0	100.0	100.0

Notes: > = greater than.
QC = quality control.
GC/MS = gas chromatography and mass spectroscopy.
VOCs = volatile organic compounds.
SVOC = semivolatile organic compounds.
PCB = polychlorinated biphenyls.

CHAPTER 6.0

6.0 ASSESSMENT OF THE DELINEATION

This chapter presents the assessment conclusions for the stated intention of this project: delineation of dioxin-contaminated surface water and sediment as a result of the storage and handling of HO at NCBC Gulfport. This chapter will begin with a restatement of the problem, continue with an assessment of the overall delineation, and conclude with specific lines of delineation for each study area.

6.1 RESTATEMENT OF PROJECT CHALLENGES AND APPROACH. The technical obstacles to delineating a substance like dioxin in dynamic matrices such as surface water and sediment are numerous. They include the virtually odorless and invisible contaminant dioxin, the fact that the matrix is constantly in motion, and the fact that the primary sources of contaminants existed over 20 years ago.

Given these challenges, a program was developed that integrated aggressive strategies with attainable goals that met the requirements of the AO (MSDEQ, 1996). The strategies included the use of several innovative approaches such as organic carbon as an indicator parameter, evaluation of the SRTs to quantify dioxin and sediment transport, and basing the sampling plan on a "biased high" approach to reduce the overall project cost. Goals were established by treating the rather large on- and off-base areas as a collection of smaller projects and by executing the work in two phases. Through the conceptual model process, logical dividing lines (e.g., drainage areas and individual stream segments) were identified that were based on hydraulic data, historical investigations, and an understanding of the physical and chemical characteristics of the contaminant dioxin. A two-phased implementation was used to (1) identify which drainage areas or stream segments were contaminated (Phase I) and (2) delineate ditch and stream segments based on technical practicalities and what the presumed remedy would be for that given segment (Phase II).

6.2 ASSESSMENT OF THE OVERALL DELINEATION. Taken as a whole, the approach and results of the delineation were successful. However, the complexities in the Outfall 3 Swamp prevented its completion in only two phases. The results of the add-on study for the swamp will be presented in a separate report.

The on-base delineation activities and objectives for each drainage area were discussed along with the results in Section 3.1. The success of the delineation can be measured against two elements: (1) the level to which the delineation was performed, and (2) the precision or degree of interpolation between sample points.

Given that, the specific considerations for on-base delineation are listed below.

- Reproducible limits. Given the experience with Method 8290, a lower limit of reproducible results was determined to be between 10 and 15 ppt.

- Sampling technique and limitations related to delineation activities. Given the distribution of Phase I sediment results, the observed delineation lower limit was also established at 15 ppt.

Delineation performed below that limit would have required an inordinately large number of Phase II samples. By delineating above 15 ppt, large areas on the base could be removed from consideration in Phase II, allowing more focused sampling in the most contaminated drainage ditches.

- Delineation confidence. The best approach to this problem was determined to be to concentrate samples along ditch segments showing marked dioxin-level changes. For instance, the north side of Drainage Area 2 (Figure 3-2) contained samples that dropped from over 400 ppt to approximately 15 ppt along 11th Street. By assuming that the action level for remedial work in this area would be between these two levels, delineating where this drop actually occurred would provide the best long-term benefit. By concentrating Drainage Area 2 samples (dioxin and TOC) in this northern area, the dioxin levels were determined to drop immediately after sample D2012P2D1.

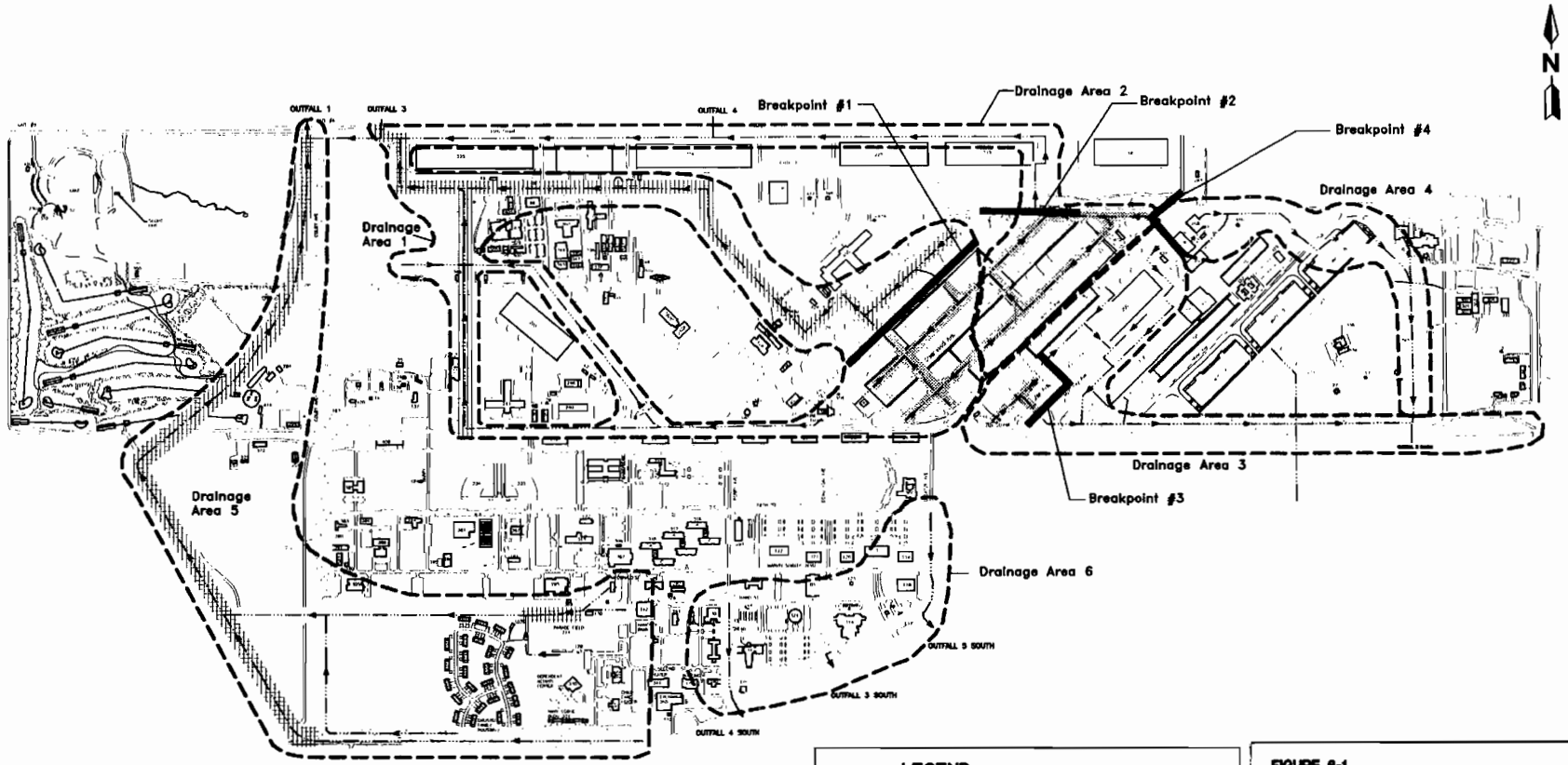
- Focus on presumptive remedy. This final decision for sample collection location was based on how to limit the volume of soil that would be considered "contaminated." In the absence of a site-specific action level, the focus was on finding the points where dioxin levels changed dramatically (what are called inflection points in this document).

Figure 6-1 presents the interpretation of the drainage areas that contain dioxin-contaminated sediment above 15 ppt and where the important "inflection points" were considered between the highest levels of contamination (greater than 100 ppt) and levels below the technical ability to delineate (15 ppt).

Figure 6-1 shows that the obvious areas with the greatest concentrations of dioxin are located on and immediately adjacent to Site 8 in Drainage Areas 1, 2, and 3. While there are individual samples that are less than 15 ppt in the shaded area (especially in Drainage Area 1), overall conditions exist within this area to produce results in excess of 100 ppt. The benefits to delineate each of these pockets of elevated dioxin levels in Drainage Area 1 between Site 8 and Outfall 3 North was deemed too expensive given limited reduction of total ditch volume that could be excluded from future remedial activities. Also, these inflection points are important because they indicate where future excavation activities could be structured so that upgradient of these points, ditches would require nearly complete excavation, while downgradient of these points, ditches could be remedied with an observation-based approach that could greatly reduce the volume of material handled.

An observation-based approach excavates only those areas that are most likely to contain dioxin based on TOC, depositional patterns, and delineation sampling. This method has proven successful in three previous removal activities: (1) 28th Street (ABB-ES, 1995), (2) Perry Avenue removal (ABB-ES, 1996), and (3) construction training facility (ABB-ES, 1996).

6.3 DIOXIN DELINEATION RESULTS. The paragraphs below describes in detail the interpreted lines of delineation determined for the sediment in on-base and off-base ditches and streams included in this study. Surface water results will not



LEGEND

- Continuous dioxin contamination above 100 ppt
- Discontinous dioxin contamination up to 200 ppt
- Dioxin contamination typically below 15 ppt
- Drainage area
- Drainage ditch

0 500 1000
SCALE: 1 INCH = 1000 FEET

FIGURE 6-1
NAVAL CONSTRUCTION BATTALION CENTER ON-BASE SEDIMENT DELINEATION

SURFACE WATER AND SEDIMENT DIOXIN DELINEATION REPORT

NAVAL CONSTRUCTION BATTALION CENTER GULFPORT, MISSISSIPPI

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be discussed in this section due to the fact that dioxin was not typically found in surface water.

Drainage Area 1. Inflection Point #1 separates Drainage Area 1 into two areas. The inflection runs roughly parallel to Goodier Avenue and is created by a series of culverts, SRTs, and local drainage divides. As shown on Figure 6-1, the ditch sediment east of the inflection should be considered uniformly contaminated above 100 ppt. Much of this area is also part of Site 8a, and that soil must also be considered to contain HO-related dioxin. West of the inflection, dioxin levels in the sediment are discontinuous and concentrated in locations where optimum conditions exist to promote accumulation of dioxin-contaminated sediment. The section of ditches where dioxin contamination are discontinuous are shown on Figure 6-1. It should be noted that not every location where dioxin is concentrated in the sediment was sampled for dioxin analyses due to the high cost involved. Rather, enough areas of concentration were sampled to confirm that the biased observation method was "calibrated." Based on this approach, if the sediment in these discontinuously contaminated areas is disturbed or excavated, someone experienced with observational biasing should be employed to identify areas of concentration.

Drainage Area 2. Drainage Area 2 contains two inflection points (Number 2 and Number 4). Inflection point Number 2 runs along 9th Street and marks the change from levels greater than 800 ppt (D2012) and levels that are typically less than 20 ppt. The primary reason for the existence of the inflection at this location is an old SRT and the culvert that conveys surface water and sediment under 9th Street. Upgradient of inflection point Number 2, the balance of the sediment in the ditches of Drainage Area 2 should be considered uniformly contaminated above 400 ppt. Downgradient of inflection point Number 2, the sediment in the ditches is only contaminated in numerous small areas of concentration which can be confirmed through observation of depositional patterns and TOC analysis. The pattern shown on Figure 6-1 for discontinuous contamination above 15 ppt indicates where these areas of concentration are most likely to occur.

The other inflection point in Drainage Area 2 (Number 4) marks the boundary between Drainage Area 2 and Drainage Area 4. Immediately to the west of that inflection, the dioxin levels are 783 ppt (D2031, Figure 3-2). To the east of inflection Number 4 the levels are less than 10 ppt (D4001). Likewise, flow directions on either side of the inflection point are in opposite directions. Additionally, the relatively high levels in the northeast area of Drainage Area 2 also indicate that area may have been also used as an alternate storage area for HO.

Drainage Area 3. Drainage Area 3 includes one inflection point, Number 3. Sediments west of the inflection (bounded by Lee Avenue and a small drainage divide) should be considered uniformly contaminated above 100 ppt. The remaining samples in this drainage area are less than 8 ppt. Additionally, Site 8c is part of this drainage area and the surface soil on that site should be considered to contain HO-related dioxins.

Drainage Areas 4 and 6. Drainage Areas 4 and 6 were excluded from Phase II sampling based on consistently low levels of dioxins found in sediment samples and the conceptual models showing no hydraulic connection to Site 8 and are not considered to be impacted by Site 8 contamination. The sample results from ditch

sediment samples in Drainage Areas 4 and 6 do not indicate the presence of HO-related dioxins.

Drainage Area 5. In addition to Phase II sampling to investigate the source(s) and types of dioxins in Drainage Area 2, delineation sampling was completed in the PCB-contaminated area north of the Parade Field. The PCB-related sampling and delineation indicated that approximately 150 feet of ditch was affected. Beyond that, the remaining ditches of Drainage Area 5 had varying dioxin TEQ levels without any discernable source or trend. While Phase I data did indicate that seeps at Site 4 did contain dioxin, there was no identifiable increase in sediment dioxin levels downstream of either Sites 4 or 5.

The TEQ/TCDD ratio (a good indicator for HO-related dioxin) did not identify a single source; rather, it indicated that multiple sources are likely for the levels observed in Drainage Area 5. Given that, there are no definable inflection points or lines of delineation in the ditches in this drainage area, which supports the hypothesis that there is no one single source. However, careful consideration should be given prior to excavating or disturbing the sediment in this area because of known contamination and the presence of the landfills.

Off-Base Sediment Delineation. Delineation of off-base sediment during Phase II was concentrated in two areas, the Outfall 3 Swamp and Bernard Bayou. First, samples were collected in the swamp to determine the extent of elevated dioxin levels that left the base via Outfall 3 North. As discussed earlier, the Phase II swamp sampling was not expansive enough to complete the delineation in the swamp so additional samples will be collected and reported at a later date.

Phase I results indicated that the sediment in Turkey Creek from Canal Road to Bernard Bayou contain only low levels of dioxins (less than 10 ppt) and show no consistent HO relationship. No lines of delineation for Turkey Creek were interpreted, and there were no Phase II samples collected.

Similarly, results of Brickyard Creek samples indicated only low levels of dioxins with virtually no TCDD. Previous investigations in Brickyard Bayou have produced higher dioxin levels, but it is believed that these represent localized effects of random depositional patterns and are not definable.

Therefore, the remaining off-base Phase II samples were collected in Bernard Bayou to determine the extent of potential dioxin contamination from the sediment of Turkey Creek and Brickyard Bayou that moved out into Bernard Bayou. At the Turkey Creek-Bernard Bayou confluence, Phase I dioxin results did show a short increasing trend from 30 ppt to 54 ppt to 61 ppt. From BB006 (61 ppt), however, the Phase II dioxin sediment sample results steadily decreased (Figure 3-4) to the upper 20s ppt, and none of the Bernard Bayou samples produced significant enough levels of TCDD to be considered exclusively related to HO. The Phase II sample results collected along the Brickyard-Bernard Bayous confluence produced relatively low-level results and showed no discernable trends. Also the Phase II samples did not contain significant TCDD. At this point, Bernard Bayou may be considered to contain a relatively uniform level of dioxins in the sediment that range in the 20s and 30s ppt. Areas with higher levels, if they occur, are likely to indicate multiple sources of dioxins and localized effects of random depositional patterns that can not be practically defined due to water depth.

CHAPTER 7.0

7.0 RECOMMENDATIONS

This chapter provides recommendations for future considerations regarding surface water and sediment monitoring, methods to determine volume of contaminated sediment, and suggested approaches for ditch cleaning and/or remediation activities.

Methodologies such as visual identification of sediment having dioxin contamination (biased sampling approach), the dioxin TEQ/TOC relationship, and the TEQ ratios developed and implemented during this program should be used in future monitoring and/or remedial action activities to reduce cost and improve efficiency. The following four recommendations include suggestions on how to best utilize these methodologies to most efficiently manage dioxin contamination in the surface water systems.

First, the lines of delineation and levels of dioxins observed throughout the study area should not only be used for deciding which areas require further activities, but should also be looked upon as a baseline survey of dioxin levels in sediment. It should be kept in mind that while the SRTs do act to "slow down" bedload sediment movement, they do not halt movement entirely. Over time these lines of delineation could be altered through this gradual movement of the dioxin-contaminated sediments. Also, as ditch cleaning and remedial activities are implemented, some dioxin-contaminated sediment may be mobilized, which could accelerate the transfer of sediment.

Given these circumstances, 8 to 10 sediment locations (that were sampled during this program) were recommended to be selected and sampled again prior to, during, and after ditch cleaning activities. The results of these analyses would (1) support that ditch cleaning activities did not mobilize significant levels of dioxin-contaminated sediment, (2) verify that the delineation lines established during this investigation are still accurate, and (3) confirm that the remedial activities removed contamination to established guidelines.

Second, on-base ditch segments not part of an identified drainage area may be considered not impacted by the storage of HO and may be maintained as part of the normal base activities. Also, ditch segments identified as not significantly impacted in Drainage Areas 3, 4, and 6 may also be maintained normally. Ditch segments in Drainage Areas 1, 2, and 5 identified in Chapter 6.0 as continuously contaminated should not be disturbed until a proper receiving area can be arranged for sediment handling. However, selective excavation could take place in Drainage Areas 1 and 2 where dioxin contamination is considered discontinuous and the likely areas for dioxin accumulation have been accounted for by a scientist or engineer experienced in identifying such areas. Off base, ditch maintenance activities should be restricted in selected areas of Brickyard Bayou, Bernard Bayou, Turkey Creek, and the Outfall 3 Swamp where sample results consistently exceed State action levels. Off-base dredging activities should plan for proper disposal of any excavated material.

Third, a complete physical survey of the ditches in Drainage Areas 1, 2, and 5 should be completed to (1) determine the volume of dioxin-contaminated sediment that would be excavated at several different action levels (e.g., 15 ppt, 30 ppt, etc.) and (2) identify discontinuously contaminated ditch segments downstream of delineation inflection points (presented in Chapter 6.0). This work should be

coordinated with the remedial activities planned for NCBC Gulfport. In this manner, the volume of sediment and soil handled as "hazardous" can be greatly reduced. Ultimately, integrating techniques that reduce the volume of excavated material with remedial activities will be one of the prominent areas for savings in total project cost and schedule.

Lastly, a fingerprint analysis that ultimately differentiates between background dioxin levels and congener ratios from those derived from HO should be completed. In the light of Phase II results, a fingerprint would be most useful in biota samples because the off-base results effectively delineated downgradient dioxin levels in the sediment (with the noted exception in the swamp). If a sediment-based fingerprint is initiated, a congener-specific partitioning coefficient is recommended to be developed to accurately anticipate ratio changes over distance.

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REFERENCES

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APPENDIX A

APPENDIX A

PHASE I REPORT

ABB

January 7, 1998

Southern Division
Naval Facilities Engineering Command
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SUBJECT: Phase I Summary Report for Onsite and Off-site Delineation Activities, Naval Construction Battalion Center (NCBC), Gulfport, Mississippi; Comprehensive Long-Term Environmental Action, Navy District I, Contract No. N62467-89-D-0317/128

Dear Mr. Conrad:

The following report summarizes the Phase I activities and sampling results.

1.0 PHASE I OBJECTIVES

The objective of sample collection was to identify and delineate dioxin-contaminated surface water, sediment, and soil related to the storage and handling of herbicide orange (HO), as required by the Mississippi Department of Environmental Quality (MSDEQ) Administrative Orders (#3193-96 and #3194-96). A phased sampling approach was determined to be the best method to achieve this objective. The approach outlined in the Onsite and Off-base Delineation Workplans (ABB Environmental Services, Inc. [ABB-ES], 1996a and 1996c) broke out the effort into onbase (onsite) and off-base (off-site) regimes. Onbase and off-base sampling was further subdivided into drainage areas and stream segments as they related to surface water flow from the original storage area at Site 8. The work described here did not include delineation of both naturally occurring and nonpoint source dioxins and furans that are nearly ubiquitous. However, some identification of these non-HO dioxins and furans is inherent in this study. Additionally, comprehensive analysis of groundwater was not an objective of this study, although some groundwater and seep samples were collected – primarily as they related to surface water and sediment contamination.

Conceptually, the objectives of Phase I sampling were (1) the **extent** of dioxin and furan contamination associated with HO, (2) the **sources** of dioxins and furans detected, and (3) the **characterization** of dioxin and furan levels with relation to depositional areas and key indicator ratios such as total organic carbon (TOC)/tetrachlorodibenzo-p-dioxin (TCDD) and toxicity equivalent (TEQ)/TCDD.

These objectives were attained by (1) determining which drainage areas (Figure 1, Attachment A) were impacted by the migration of dioxin-contaminated sediments and (2) determining the maximum extent of

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dioxin contamination related to the storage and handling of HO (ABB-ES, 1996a). Additional consideration was given to potential point sources such as Site 4, Site 5, and alternate storage areas around Site 8 (Figures 2 and 3). Onbase samples included sediment, surface water, surface soil, and groundwater media.

To attain these objectives onbase, the surface water drainage systems were divided into six drainage areas. Figure 1 depicts these drainage areas, which together constitute the larger drainage basins. Figure 1 also shows the Phase I onbase sampling locations.

The off-base objectives for Phase I sampling were the same as those onbase, although the scope of the work was more narrowly focused on surface water and sediment in ditches and streams that are hydraulically connected to the base. Figure 4 shows these off-base surface water bodies and sampling locations that were investigated in Phase I.

Whereas the objectives of the first phase of work were designed to identify dioxin-impacted media, the second phase of work will focus on delineation of impacted media. The following sections describe the details of Phase I activities and how well the objectives were achieved. The final section of this report will present the recommendations for Phase II activities.

2.0 PHASE I ACTIVITIES

Phase I activities were conducted over three sampling shifts during April and May 1997. During these sampling activities, 166 locations were investigated and sampled. As shown on Figures 1 and 4, the primary focus was sediment sampling from onbase and off-base ditches. A biased sampling method was used to collect the sediment samples due to the variable nature of dioxin transportation and deposition. The sediment samples were collected in low-energy environments where organic-rich deposits were observed. Previous investigations have shown a strong correlation between results of dioxin and organic carbon. More precisely, the TOC/dioxin relationship has consistently shown that if dioxin is available in the bedload of a particular ditch, then increasing levels of organic carbon will be associated with increasing levels of dioxin. This dioxin/organic carbon relationship was investigated throughout this study, and the results will be presented in Section 3.0.

Surface water samples have consistently produced results that confirm that the dioxin transportation mechanism in ditches is through the bedload sediments and not as dissolved or suspended load in surface water (ABB-ES, 1995a). As a means of confirming this transport mechanism, as well as confirming that surface water onbase is relatively free of dioxin contamination, surface water samples were collected at approximately 20 percent of the locations where sediment samples were collected.

In the 28th Street removal investigation (ABB-ES, 1995a), surface soils in low-lying, flood prone areas were shown to have the potential for receiving dioxin-containing sediment. In response to this discovery, surface soil samples were collected in areas determined to be prone to flooding and overbank deposition. Surface soil samples were also collected from and around Site 8 (Figure 3) to determine the extent of surface soil contamination remaining at the site following the excavation and removal in 1986 and 1987 (EG&G Idaho, 1987).

Groundwater and seep samples were collected from hydraulically downgradient locations at Sites 4 and 5 (Figure 2) to investigate the potential that these landfills could be emitting dioxin sources into the groundwater or directly into the ditches that flow adjacent to both sites. Seven groundwater wells were installed (four at Site 4 and three at Site 5), and two seep samples were collected from Site 4.

The locations of Phase I samples were initially defined at the time of collection by measuring the distances to local landmarks such as buildings or ditch confluences. Later, the locations were more accurately mapped using survey grade global positioning system (GPS) instrumentation.

All groundwater samples and 10 percent of surface soil, sediment, and surface water samples were analyzed for a full suite of analytes. In addition to dioxin and organic carbon, the full suite included chlorinated herbicides, pesticides, polychlorinated biphenyls (PCBs), volatile compounds, and semivolatile compounds.

3.0 PHASE I RESULTS

The Phase I sampling results and interpretation will be presented in two sections: onbase and off-base. These sections will discuss the results of the sample collection, the interpretation of interactions between other chemicals and dioxin (e.g., solvents that may mobilize dioxin), and the relationships between dioxin and naturally existing conditions (e.g., TOC and low energy depositional environments). The discussion of these results will focus on (1) the extent of dioxin and furan contamination associated with HO, (2) sources of dioxins and furans detected, and (3) characterization of dioxin and furan levels with relation to depositional areas and key indicator ratios such as TOC/TCDD and TEQ/TCDD.

One important note is that many samples were reanalyzed as a result of late continuing calibration checks on the first set of data. The reanalyzed samples, designated with a P2 extension, were virtually identical to the original (P1) data set — confirming the validity of the original set. For Phase 1 results, P2 results will be reported as the "result" except for instances where P1 samples passed validation. Additionally, there are 27 resampled locations (P3) due to the laboratory's inability to run P2 samples. This usually occurred because of a lack of extract volume for a second analysis (P2).

ABB-ES conducted a triplicate study (1996d) on sediment dioxin samples that showed results below 15 parts per trillion (ppt) were not reliably reproduced. This is likely due to matrix interferences (because collected samples were highly organic) and limitations of laboratory equipment and U.S. Environmental Protection Agency Method 8290. Given the results of the triplicate study, a reliable lower detection limit is 15 ppt, even though lower numbers may be reported by the laboratory.

3.1 ONBASE RESULTS

The following sections present the results for the investigation conducted on the base within Drainage Areas 1 through 6, Site 8 surface soils, and groundwater from Sites 4 and 5.

3.1.1 Drainage Area 1

Drainage Area 1 is the largest of the drainage areas onbase and includes the majority of the primary source area — Site 8 (Figure 1). The focus of sampling in Drainage Area 1 was the sediment and surface water in the drainage ditches that receive drainage from Site 8 and the Site 8 surface soil.

Sediment Samples. Sediment samples from the ditches in Drainage Area 1 produced results that ranged from less than 1 ppt (D1005) to 1.02 parts per billion (ppb) (EEN2U) (see Attachment B, results tables). The highest levels were encountered in the sediments on Site 8 (especially in upstream pools of existing sediment recovery traps [SRTs]) and in depositional areas near Outfall 3 north. In fact, a very strong trend of significantly decreasing numbers was observed at each of the SRTs downstream of Site 8 in this drainage area. An average ratio of 3 to 1 was observed from upstream to downstream samples for SRTs in this drainage area. Therefore, it was not surprising to obtain results of 57 ppt and less for the HO ditch (Figure 1) from SRT-5 to the confluence with the secondary HO ditch.

However, at the confluence of these two ditches, the results again move higher (D1010 at 82.8 ppt and D1011 at 99.6 ppt), even though there is no significant change in the depositional environment within the ditch. Additionally, D1010 was sampled from an upstream (of the HO ditch) location in the secondary HO ditch, which may indicate that this ditch currently receives or previously received

contaminated sediment from the HO ditch. This new pathway from Site 8 will require further investigation in Phase II (see Figure 10, Phase II Sampling Locations).

In Drainage Area 1, where the TEQ result was above 15 ppt, the TCDD/TEQ ratio was 90 percent — a ratio indicative of an HO source. The ratio of TCDD to TEQ did decrease with distance from Site 8.

Surface Water Samples. Dioxin results for surface water samples were all significantly lower than their sediment counterparts. The dioxin TEQs for surface water samples ranged from nondetect to 2.96 parts per quadrillion (ppq) (D1005) (Attachment B). It is interesting to note that the highest surface water sample result originated from the same location that produced the lowest sediment sample result in Drainage Area 1 (Figure 5). These results again confirm the operating conceptual model that dioxin contamination in the ditches is primarily contained within the bedload sediment. Further evidence of this model was observed in the dioxin organic carbon study presented later in this section.

Surface Soil Samples. Surface soil samples were collected from within and around Site 8 (Figure 3). It should first be noted that excavation and remediation of soils above 1 ppb were performed in this area previously in 1986 and 1987 (Hazardous Waste Remedial Action Program, 1991). Initially, the entire area was stabilized with soil cement for equipment storage. Large blocks of this soil cement were removed during the investigation, leaving low-lying areas that have gradually filled in with soil and ash in the proceeding 10 years. Otherwise, Areas A, B, and C are much as they were in 1987.

Soil samples were collected from a variety of regimes — stabilized soil, remediated areas, ditch overflow areas, and general low areas or swales. The initial spread of samples was intended to ring Site 8 so that the horizontal extent of soil contamination due to HO storage could be determined.

The results of the soil samples (Figure 7 and Attachment B) show that the extent of soil contamination above 15 ppt is generally restricted within the boundaries of Site 8. The exceptions occur at samples L8014, L8018, L8023, and L8031; these samples are outside the boundary of Site 8 and will require additional sample collection in those areas (see Figure 10). Outside of Site 8, the highest result was from L80014 (181 ppt), while the majority of the samples were below 15 ppt.

Overall, elevated levels in surface soil (above 15 ppt TEQ) were most consistently observed with elevated TOC levels and were most likely to be collected in low areas (both swales and excavation pits). The stabilized soil samples consistently yielded results below 15 ppt, which is a good indication that the initial study and remedial activities were successful.

3.1.2 Drainage Area 2

Sediment Samples. Drainage Area 2 occupies a small part of the northern parts of Site 8 (Areas A and B) and includes the drainage ditches that carry surface water north to Outfall 4 (Figure 1). The samples were collected from the ditches within this area using the biased sampling approach outlined in the Onsite Delineation Workplan (ABB-ES, 1996a).

The results of these sediment samples ranged from approximately 4 ppb (D2001) at Site 8 to 0.5 ppt (D2006) at Outfall 4 (Figure 5 and Attachment B). The levels of dioxin TEQ in the sediment samples decreased rapidly in the ditches downstream of Site 8. The rapid decrease is likely due to the result of dioxin particles binding with organic carbon and being restrained in the sediment. The rapid decrease in dioxin TEQ levels may also have been aided by ditch "cleaning" activities conducted by the base until these activities were halted in 1991.

In Drainage Area 2, where the TEQ was above 15 ppt, the corresponding TCDD/TEQ ratio was 94 percent — a number indicative of an HO source. It should also be noted that the ratio did show a decreasing trend with distance from Site 8.

Surface Water Samples. Dioxin results for surface water samples were all significantly lower than the sediment samples at the same locations (Figure 5). The dioxin TEQs for surface water samples ranged from 36 ppq (D2006) to 42 ppq (D1005) (Figure 5 and Attachment B). These results again confirm the operating conceptual model that dioxin contamination in the ditches is primarily contained within the bedload sediment.

3.1.3 Drainage Area 3

Sediment Samples. Drainage Area 3 comprises the drainage ditches east of Holtman Avenue (Figure 1) — including Site 8, Area C. The ditches of this drainage area drain to the east, eventually exiting the base at Outfall 2 South. The samples in this drainage area were collected following the procedures outlined in the Onsite Delineation Workplan (ABB-ES, 1996a). Samples were only collected from ditches in this area that are hydraulically connected to Site 8.

The results of the eight sediment samples in this drainage area ranged from a low of 0.2 ppt (D3006) at Outfall 2 South to a high of 120 ppt (D3001) near Site 8C. Other than D3001, all results in this drainage area were below 15 ppt (Figure 5 and Attachment B). In sample D3001, TCDD comprised nearly 70 percent of the total TEQ.

Other than much lower results from Site 8C, no other discernable trends could be determined — mainly because of the relatively low sample density.

Surface Water Samples. Dioxin results for surface water samples were all significantly lower than the sediment samples at the same locations. The dioxin TEQs for surface water samples ranged from 0.2 ppq (D3003) to 13 ppq (D3007). These results again confirm the operating conceptual model that dioxin contamination in the ditches is primarily contained within the bedload sediment.

3.1.4 Drainage Area 4

Sediment Samples. Drainage Area 4 primarily consists of the drainage ditches that exist along 9th Street and Sylvester Drive in the northeastern part of the base (Figure 1). Hydraulically, Area 4 is not directly connected to Site 8 at this time, although it was close enough to warrant investigation. This drainage area eventually flows south and merges with Drainage Area 3 at Outfall 2 South.

Three sediment samples were collected in this drainage area, and the results did not indicate significant dioxin contamination — especially for TCDD (Figure 5). The results were 3.3 ppt, 32.8 ppt, and 3.9 ppt for D4001, D4002, and D4003, respectively. The results for D4002 can almost entirely be accounted for by hepta- and octa-chlorinated dioxins and furans, which are not necessarily indicative of an HO source (Attachment B).

No surface water samples were collected in Drainage Area 4.

3.1.5 Drainage Area 5

Sediment Samples. Drainage Area 5 encompasses the southern part of the base from Bainbridge Avenue west to Canal No. 1, including Installation Restoration (IR) Sites 4 and 5 (Figure 1). The drainage area continues north along Canal No. 1 until the northern base boundary at Outfall 1 north (Figure 1).

Seventeen sediment samples were collected in this drainage area. This may seem like an inordinate number for an area that is not hydraulically connected to Site 8; however, previous sampling has produced results with elevated levels of dioxin and TCDD (ABB-ES, 1995b). Conceptually, this may indicate an HO source, although the release mechanism has yet to be determined. At this time, there are considered to be three primary sources: (1) HO drum disposal at Site 4, (2) HO drum disposal at Site 5, and (3) direct application of HO in the ditches as a herbicide.

In the upper reaches of the drainage area (east of Colby Avenue), sediment samples D5002 through D5004 were collected, and the results were below 16 ppt (Figure 5 and Attachment B). The dioxin results at D5001 (just north of the parade field) were elevated due to interference with high levels of di-phenyl ether contamination. The presence of these ethers has led to additional sampling, and it is currently understood that high levels of PCBs (possibly related to transformer oil) were spilled at that location. The PCB and ether contamination appears to be limited to 100-foot length of the ditch and will be handled under another program.

West of Colby Avenue, the drainage ditches are larger and carry surface water past IR Sites 4 and 5. In this part of the drainage area, the results are higher — 6 of the 10 samples were above 20 ppt — with the highest result in a good depositional area downstream of Site 4 (D50015 at 31 ppt) (Figure 5). The TCDD congener accounts for approximately 20 to 25 percent of the TEQ in most of these samples (8 out of 10), with an average 23 percent.

However, these results do not definitively prove that dioxin is migrating directly out of the landfills. This is secondary evidence, especially with the result of D5005, which is upstream of both landfills and produced a result of 18 ppt with nearly 80 percent of the TEQ resulting from TCDD. It is more likely that both direct application of HO and some seepage from the landfills occurred as shown by the results of the seep samples and groundwater samples in this drainage area.

Surface Water Samples. Dioxin results for surface water samples were all significantly lower than the sediment samples at the same locations. Four surface water samples were collected in this drainage area (Figure 5). The dioxin TEQs for surface water samples ranged from 2.6 ppq (D5004) to 3.6 ppq (D5009) (Attachment B). These results again confirm the operating conceptual model that dioxin contamination in the ditches is primarily contained within the bedload sediment.

Seep Samples. Two seep samples were collected from Site 4. The seeps emanate on the west side of the site where Canal No. 1 is adjacent to Site 4 (Figure 6). The samples were collected following the method outlined in the Onsite Delineation Workplan (ABB-ES, 1996a). No samples were collected from Site 5 due to a prolonged period without significant precipitation resulting in no flowing seeps.

Seep sample L4001P produced a result of 82.9 ppq (TEQ) with a TCDD result of 14.1 ppq (Figure 6 and Attachment B). The TEQ for L4002P was 44.71 ppq with TCDD a nondetect, although pentachloro-diphenodioxin (PeCDD) was present at 11.9 ppq. The presence of TCDD and PeCDD in the seeps can be a strong indication that HO (2,4,5-trichlorophenoxyacetic acid [2,4,5-T]) may be the source of the dioxins and furans in the samples. These results are of special concern since both seeps spill directly into Canal No. 1. The TCDD/TEQ ratio is lower than those observed at sediment locations in the drainage area, although this may be an indication of multiple dioxin sources.

Additional seep samples will be collected at Site 4 and Site 5 during Phase II. Seep samples may be collected earlier if favorable conditions develop.

Groundwater Samples. Four groundwater wells were installed and sampled at Site 4, and three wells were installed and sampled at Site 5 during Phase I (Figure 2). These new monitoring wells were

required because the initial wells installed during the Verification Study (Harding Lawson, 1987) were in either upgradient or cross-gradient locations. Again, the results of samples collected from these wells are important due to the close proximity of drainage ditches and the hydraulically downgradient limits of both of these landfills. All of these new wells were installed to approximately 25 feet in depth using a rotosonic drill rig to minimize waste generation.

As is typical of the region, the groundwater in these wells was slightly acidic and marked by turbidity resulting from the high levels of organic material in the shallow part of the aquifer (0 to 10 feet).

The results from Site 4 groundwater sampling were rather unremarkable in that none of the TEQs were above 26 ppq, and no TCDD was reported in any of the samples (Figure 6 and Attachment B). The range of results was from a low of 0.65 ppq (GPT-4-5) to 26.4 ppq (GPT-4-6). These results do not indicate an HO source for dioxin in the vicinity of these new wells although these results do not preclude the possibility, especially with the results of the seep samples. When considering dioxin results in groundwater, it should be kept in mind that the result only represents that particular location in the groundwater and should not be used to interpret large distances from the monitoring well. This consideration is necessary because of the relative immobility that dioxin has demonstrated in groundwater (ABB-ES, 1997a). A more definitive answer to dioxins at Site 4 will have to wait until the Groundwater Monitoring Workplan (ABB-ES, 1997b) is implemented.

At Site 5, three new monitoring wells were installed in downgradient locations between the site and the drainage ditch that is adjacent to the site.

The TEQs at Site 5 were consistently higher than at Site 4 with a range of 39.1 ppq (GPT-5-5) to 42.7 ppq (GPT-5-6) (Figure 6 and Attachment B). The result at monitoring well GPT-5-4 was 40.4 ppq, but that included a TCDD result of 4.0 ppq. While nearly 40 percent of these TEQs result from octachlorodibenzodioxins (OCDDs) and heptachlorodibenzo-p-dioxin (HpCDDs), the presence of TCDD is a concern as it may be an indication of HO disposal in this landfill. At Site 5, seep sample results and the implementation of the Groundwater Monitoring Workplan (ABB-ES, 1997b) will provide more definitive answers to HO disposal at this IR site.

3.1.6 Drainage Area 6

Sediment Samples. Drainage Area 6 encompasses a part of the southern part of the base that includes Outfalls 3, 4, and 5 south. While not hydraulically connected to Site 8, the MSDEQ expressed some concern over earlier dioxin results along Perry Avenue (ABB-ES, 1996b) that showed low level dioxins (less than 10 ppt) in the sediments. As a response, six sediment samples were added in this area.

The results of these samples (Figure 5 and Attachment B) did not include any TCDD, and the TEQs were all below 20.4 ppt (D6005P3). The majority of the TEQs could be accounted for by OCDDs and HpCDDs — a good indication that these results are not HO in origin.

3.1.7 Nondioxin Sample Results

The onbase nondioxin results included volatiles, semivolatiles, pesticides, PCBs, and herbicides. TOC was also collected, but it will be discussed in the next section. A full discussion of nondioxin compounds will not be provided here, but will be in the Phase II report. Only results that are significantly above maximum contaminant limits (MCLs) or ones that directly relate to HO will be discussed.

Low levels of 2,4,5-T were observed in soil sample L80025 (52 ppb) at Site 8. In the sediment at D3005, 4,4'-dichlorodiphenyl dichloroethane was reported at 970 ppb.

The one area of concern for nondioxin compounds is at Site 4, monitoring well 5 (GPT-4-5). The results from this well indicated vinyl chloride at 37 ppb, 1,2-dichloroethene (total) at 180 ppb, and trichloroethene at 4.7 ppb. The results in monitoring well GPT-4-5 warrant additional investigation due to the fact that these contaminants are known carcinogens, very mobile in groundwater, and located within 1,000 feet (downgradient) of the base boundary.

3.1.8 Characterization of Results

As has been discussed in the previous sections, the interpretation of dioxin results in this program extends beyond calculating TEQs and presents just those results. Characterization of dioxin contamination was one of the three primary objectives stated in the beginning of this report, and it will help determine Phase II sampling locations, develop predictive tools through the analysis of key indicator ratios (discussed below), and finally will be crucial to the eventual removal and remedial activities undertaken in the future.

3.1.9 Dioxin TEQ/TOC Relationship

All sediment samples were split so that the relationship between organic carbon and dioxin TEQ could be studied. In earlier investigations (ABB-ES 1995a), the relationship was determined to be that if dioxin was available for the bedload, then increasing TOC was associated with higher levels of dioxin (TEQ).

The earlier investigation used a smaller database (35 samples) than the Phase I investigation (143 samples). For clarity of presentation, several data filters were run on the data. First, all background samples were removed. This was done because dioxin levels would be much lower since these areas did not receive sediment from the base of Site 8, which would skew the graph (Figure 10) toward the y-axis. Second, samples that were primarily soil and not sediment were removed. Again, this was done because soil samples collected outside the ditch bottoms are much less likely to contain significant amounts of organic carbon and would skew the graph toward the x-axis.

The graph of organic carbon against dioxin TEQ presented as Figure 10 shows that the relationship is quite strong, although different than observed before. In the overall graph, the organic carbon range is from 1,000 parts per million (ppm) to 100,000 ppm, while the TEQ range is from nondetect to 100 ppt. The TEQ (x-axis) was limited to 100 ppt to clarify the relationship in the low end of results (0 to 100 ppt), which is where most of the interest will be during delineation and removal/remedial actions.

The trend displayed in this graph shows that the relationship is quite steep until approximately 30 ppt TEQ. After that, the curve flattens out considerably, all the way to 1 ppb (not shown on this graph). What we also observe is a "cap" of approximately 30,000 ppm for TOC samples that may limit the upward trend of the graph. The R^2 value for the overall graph is not very high, indicative of the obvious scatter about the best-fit line. This graph is best used for a qualitative comparison of the relationship.

This graph confirms the qualified relationship between organic carbon and dioxin TEQ, although it is the relationships shown in the individual drainage basins where this connection becomes clearer and more useful.

As shown in the seven individual drainage area figures that follow the overall graph, the dioxin to TOC relationship shows a clear trend, especially in areas with higher levels of dioxin contamination (Drainage Area 1 and Outfall 3 Swamp). Interestingly, the peaks and valleys in the corresponding values can be attributed to physical factors such as SRTs, natural ponding areas, and proximity to Site 8. These individual drainage area graphs were used to determine the TOC delineation lines (up to 20 TOC samples) that will reduce the number of expensive dioxin samples, while still providing accurate estimates of dioxin

levels. Specifically, the results of the TOC samples will be plotted against the dioxin line on the individual graphs to determine an approximate dioxin level. Leading and trailing indices were not determined at this point because the graph scales for TEQ were different from one another and would not have been useful for determining Phase II sampling locations, although this will be accomplished in the Phase II report.

3.1.10 TEQ/TCDD Ratios

While the TEQ/TOC relationship was useful for locating likely deposits of dioxin-containing sediment, the other key indicator ratio (TEQ/TCDD) was determined to guide the delineation in the right direction - tracking dioxins and furans related to HO. It should be noted here that using the TEQ/TCDD ratio as an indicator of an HO source is really best suited for high (75 percent and above) and low (less than 10 percent) ratios. Ratios in between these levels may indicate multiple sources, non-HO sources, or could be the result of differential transportation patterns of individual congeners.

With this in mind, the TCDD/TEQ ratios for sediments collected immediately around Site 8 were nearly all 90 percent or greater. This was a strong indication that the dioxins were derived from an HO source because 2,4,5-T tends to generate TCDD in much greater proportions over other dioxin and furan congeners. Following the drainage ditches away from Site 8, two trends are apparent: (1) TCDD/TEQ ratios decrease with distance and (2) overall total TEQs decrease with distance - indicative of the bedload transport mechanism. For Drainage Areas 1 and 2, the average TCDD/TEQ ratios are 90 percent and 94 percent respectively, while in other areas not hydraulically connected to Site 8 the ratios tend to average less than 15 percent. Ratios do not exclude HO as a potential source; that determination will require a full-scale fingerprint.

Off base, Outfall 3 Swamp area produced the highest TEQs (up to 254 ppt) and the highest ratios (average of 76 percent). The ratios in the swamp are comparable to those immediately upstream on the base and are the best indication that HO-related dioxins and furans were transported off the base in sediment.

3.2 OFF-BASE RESULTS

This section presents the investigative and sampling results obtained during off-base activities as outlined in the Off-site Delineation Workplan (ABB-ES, 1996c). The work off base was more narrowly focused on sediment and surface water in areas that are hydraulically connected to the base. Specifically, these areas include Canal No. 1, Turkey Creek, Brickyard Creek, Bernard Bayou, and the Outfall 3 Swamp (Figure 4).

3.2.1 Canal No. 1

Off-base samples in Canal No. 1 included two upstream of the base and three downstream of the base (Figure 4). Sample results (Figure 8, Attachment A) for C1001 and C1002 were initially considered background, but during the investigation it was discovered that surface water could flow southwest into Canal No. 1 during periods of heavy rain. C1001 (5.1 ppt) and C1002 (4.2 ppt) do not produce results consistent with HO-related dioxin, which may indicate that little sediment transport is moving off base at that location, or that high energy surface water is scouring out the bedload.

The remaining Canal No. 1 samples were collected north of the base (Figure 8) with results that ranged from 12.8 ppt (C1003) to 0.577 ppt (C1006). Low levels of TCDD were detected in C1003 and C1005. The low levels detected immediately north of the base in Canal No. 1 may be the result of the removal

action conducted in 1995 (ABB-ES, 1995a). The pre-excavation level at C1003 was approximately 75 ppt.

The surface water sample collected at C1001 yielded a result of 39.4 ppq, although most of that TEQ was from octa- and hepta-chlorinated dioxins.

3.2.2 Turkey Creek

Turkey Creek receives surface water from Canal No. 1 (via Outfall 1 North) and the drainage ditch from Outfall 4 North (Figure 4). Ten locations were investigated and sampled. Samples TC001 and TC002 were upstream of any base influence. The downstream end of the Turkey Creek samples was established just north of the airport at the point where the channel widened significantly and large amplitude meanders began.

Turkey Creek has a coarse bedload with little organic material that tends to yield low dioxin TEQs, which is exactly what was observed. For the 10 sediment samples (Figure 8 and Attachment B), the highest TEQ was 11.3 (TC004) with an average result of 3.2 for the entire group. Only one sample had any TCDD in it at all and that was only 1 ppt (TC009). The surface water sample collected at TC006 was only 0.5 ppq.

These results for Turkey Creek were not surprising given the high-energy environment in the channel and the resulting coarse-grained bedload. At this point, no more dioxin samples in Turkey Creek are proposed.

3.2.3 Brickyard Creek (Bayou)

Brickyard Creek (also sometimes referred to as Brickyard Bayou) flows from southwest to northeast south of the base (Figure 4). Brickyard receives flow from the base via Outfall 2 South. East of the base, Brickyard Creek flows through a relatively straight channel south of the airport to Bernard Bayou about 2.5 miles south of the point where Turkey Creek enters the bayou.

Conceptually, Brickyard is not a major receptor for surface water or sediment from the base. Because of this, only two samples were originally planned for the entire area. However, dioxin samples collected in the creek produced results that caused questions about the original conception regarding contributions from the base. In response to these results, three discretionary samples were placed in Brickyard downstream of the airport (Figure 4).

BC001, which is immediately upstream of the base, produced a sample result of only 1.9 ppt and BC002 (just downstream of the base) produced a sample result of only 0.9 ppt (Figure 8). Both of these samples were collected from high-energy environments that tend to keep the TEQs low anyway.

BC003 and BC004 were collected from lower-energy, organic-rich environments, although the results were not significantly higher (19.0 ppt and 18.4 ppt, respectively). BC005, which was collected closer to Bernard Bayou, yielded a result of only 2.9 ppt. It should be noted that BC005 did contain significantly more coarse-grained material than either BC003 or BC004. Low levels (0.6 ppt) of TCDD were detected in BC004. The surface water sample result from BC003 was 0.1 ppq, an indication that surface water is not the primary mode of transportation for dioxin.

3.2.4 Bernard Bayou

The Bernard Bayou samples collected in Phase I were restricted to the immediate vicinity of the confluence with Turkey Creek (Figure 4). In this relatively limited area, the bedload of Turkey Creek likely settles out into the deeper basin of Bernard Bayou. If the relationship of TEQ to TOC holds for Bernard Bayou, we would expect increasing TEQs as the bottom sediments of the bayou became fine and more organically rich, especially further downstream of Turkey Creek.

The results from the five Bernard Bayou sediment samples did confirm this hypothesis as TEQs generally increased with distance from the end of Turkey Creek. The exception was BB004, although that particular sample did have considerably more coarse-grained material than either BB003 or BB005 (Figure 8). The range of results (Attachment B) was from 3.9 ppt (BB001) to 54.3 ppt (BB005). TCDD was detected in BB002 and BB003, although the TCDD/TEQ ratios were 7 and 4 percent, respectively. Lower TCDD/TEQ ratios should be expected in the Bayou due to TEQ "dilution" from other high-end sources (hepta- and octa-chlorinated dioxins and furans) of dioxin contamination that are likely to be encountered.

The surface water sample result at BB003 was 1.2 ppq, which is typical for surface water samples.

These results indicate a need for additional Phase II samples further out into the bayou. Particular care should be taken to collect high organic samples just outside the coarse-grained material deposited from Turkey Creek.

3.2.5 Outfall 3 Swamp

The Outfall 3 Swamp is located immediately north of the base across from Outfall 3 north (Figures 1 and 4). The swamp has received surface water runoff from the Outfall until 1996, when the drainage was diverted to Canal No. 1, in addition to road construction work along 28th Street. The Outfall 3 Swamp received surface water and sediment from the Primary and Secondary Site 8 ditches (Figure 1) until the road construction project diverted flow. Currently, the swamp receives no surface water flow from the base, and the main channel has dried up. For this reason, no surface water samples were collected with the sediment samples. The outlet of the swamp flows into Canal No. 1 approximately ¼ mile north of the base on Canal Street. However, the swamp has long been recognized as a potential depositional area because the outlet into Canal No. 1 has a natural "check dam" effect that consistently forces surface water to back up in the swamp. With this in mind, the swamp was expected to produce elevated results; therefore, the sample density was increased to 10 samples in a relatively small area. In fact, only Site 8 included a higher sample density during the Phase I investigation.

The sample results in the swamp confirmed the expectation of elevated results with sample results as high as 254 ppt in the organic-rich sediment. Seven of the nine samples in the swamp were above 97 ppt with an average result of 163 ppt. As stated before, the swamp is an affective depositional area, and the TCDD/TEQ ratios offer additional confirmation of this. In fact, the TCDD/TEQ ratio may be the sampler-independent tool to use to quickly evaluate the effectiveness of interim remedial measures (such as SRTs and settling ponds).

The two samples collected downstream of the small check dam in the swamp were 2.1 ppt (WL009) and 15.58 ppt (WLl010). WL010 was actually collected at the confluence of the swamp outlet and Canal No. 1. The result of 15.58 ppt was similar to other Canal No. 1 samples in the area (Figure 8). With these

results, it does appear that the Outfall 3 Swamp performed as a "settling basin" for the surface water and sediment exiting the base until modifications were made to the drainage system.

3.2.6 Nondioxin Sample Results

With the exception of some elevated polynuclear aromatic hydrocarbon levels in Bernard Bayou, no significant nondioxin compounds were detected off the base. A full discussion of nondioxin compounds will be provided in the Phase II report.

4.0 PHASE II RECOMMENDATIONS

Onbase work will be primarily focused on refining HO-impacted bedload in ditches in Drainage Areas 1, 2, and 5. This will be accomplished by collecting dioxin and TOC samples. Some additional soil samples will be collected at Site 8 to confirm that elevated dioxin levels (if any) are restricted to zones below that which are readily eroded and transported.

Off base, no additional samples are required in Turkey Creek. Either the dioxin-contaminated bedload leaving the base through Outfall 1 and Outfall 3 North never made it to the creek, or if it did, the scouring (self-cleaning) that occurs in Turkey Creek is sufficient to prevent long-term accumulation of fine-grained sediment in the channel.

Some additional sampling in Bernard Bayou and Brickyard Creek is necessary to ensure that the maximum extent of migrating dioxin sediment has been determined (if possible). The sample results in these two areas indicate multiple sources, and in the absence of a fingerprint training set, it may be very difficult to determine the amount (percent) of dioxin in the bayou that has come from the base.

The area that still requires the most work will be the Outfall 3 Swamp. This is due to the relatively high levels (up to 254 ppt) and the obvious HO provenance. The first set of samples collected was restricted to the shallow channel that runs through the swamp from Outfall 3 to Canal 1. Fortunately, surface water levels in the swamp must rise above that channel before they flow into Canal No. 1. Thus, the swamp has acted as a filter for finer-grained sediments as they have moved off the base to the north. Also, Outfall 3 surface water has been diverted into a newly constructed ditch on the north side of 28th Street that flows directly to Canal No. 1. While this prevents any further contamination or migration of dioxin-contaminated sediments out of the swamp, it does open the possibility that the new ditch is receiving contaminated sediment as well as providing a new avenue for dioxin contamination into Canal No. 1.

Given the wide range of results that exist on the base, a site-specific lower delineation level, or target, needs to be established. Based on the technological limitations of high resolution/mass spectrometry equipment and U.S. Environmental Protection Agency Method 8290, an analytical lower delineation limit of 15 ppt is proposed in soil and sediment. Establishing a delineation limit below 15 ppt would require many additional samples in areas that have no apparent connection with HO or Site 8. At 15 ppt, efforts can focus on the media-containing dioxins at elevated levels, especially those with TCDD. This was discussed with the Mississippi Department of Environmental Protection on August 27, 1997.

Based on a lower delineation level of 15 ppt in soil and sediment, the following table summarizes the proposed sample collection for Phase II activities. Increased numbers of TOC samples will be collected to exploit the dioxin/TOC relationship to reduce numbers of expensive dioxin samples.

Dioxin Samples for Phase II

Phase I Summary Report for Onsite and Offsite Delineation Activitites
Naval Construction Battalion Center
Gulfport, Mississippi

Media	Onbase		Offbase	
	Location	No. of Samples	Location	No. of Samples
Sediment	D.A. 1	7	Bernard Bayou	5
	D.A. 2	4	Brickyard	3
	D.A. 3	0	Turkey Creek	0
	D.A. 4	0	Outfall 3 Swamp	10
	D.A. 5	7		
	D.A. 6	0		
Seeps	Sites 4 and 5	3		
Surface soil	Site 8	6		
Totals		27		18
QA/QC		6		4
	Total Phase II (estimate)		55	

Notes: D.A. = drainage area.
QA/QC = quality assurance and quality control.

If you should have any questions concerning the above information, please do not hesitate to call Robert Fisher at (423) 531-1922.

Sincerely,

ABB ENVIRONMENTAL SERVICES, INC.

Robert Fisher
Project Hydrogeologist

Penny Baxter, P.G.
Project Manager

pc: G. Crane, NCBC Gulfport

Attachments:

Attachment A: Figures
Attachment B: Tables
Attachment C: Glossary
Attachment D: References

[08535-014]

ATTACHMENT A

FIGURES

ATTACHMENT B

TABLES

TABLE 1

ON-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	D1001	D1001	D1001	D1002	D1003	D1003
	SAMPLE ID	D1001D1P1	D1001S1P1	D1001D1P3	D1002D1P1	D1003D1P1	D1003S1P1
	DATE / TIME	04/10/97 / 10:40	04/10/97 / 10:40	06/26/97 / 10:20	04/10/97 / 15:00	04/10/97 / 11:10	04/10/97 / 11:10
	DEPTH (ft)	0.00	0.50	0.00	0.00	0.00	0.50
2,3,7,8-TCDD		230 R	0.65 R	58.0	217	118	0.5 U
1,2,3,7,8-PeCDD		7.2 R	0.3 U	2.5	4.1	1.9	0.8 U
1,2,3,4,7,8-HxCDD		17.8 R	0.5 U	4.8	5.8	(0.92)	1.0 U
1,2,3,6,7,8-HxCDD		30.9 R	0.82 R	10.4	10.1	1.9	0.8 U
1,2,3,7,8,9-HxCDD		37.1 R	0.54 R	11.1	11.8	2.5	0.9 U
1,2,3,4,6,7,8-HpCDD		955 R	13.7 R	319	258	41.0	1.5 R
1,2,3,4,6,7,8,9-OCDD		8340	298 R	3190	2450	612	24.3 R
2,3,7,8-TCDF		15.6 R	0.2 U	4.1	15.5	17.5	0.4 U
1,2,3,7,8-PeCDF		2.2 R	0.2 U	0.97	1.2	0.9 U	0.6 U
2,3,4,7,8-PeCDF		2.0 R	0.2 U	0.85	0.95	0.9 U	0.6 U
1,2,3,4,7,8-HxCDF		44.4 R	0.94 R	3.7	11.2	1.8 U	0.7 U
1,2,3,6,7,8-HxCDF		7.3 R	0.29 R	2.5	2.3	0.64 U	0.5 U
2,3,4,6,7,8-HxCDF		10.4 R	0.70 U	5.1	3.0 U	0.75 U	0.7 U
1,2,3,7,8,9-HxCDF		(0.58) R	0.4 U	0.5 U	0.23	1.5 U	0.8 U
1,2,3,4,6,7,8-HpCDF		190 R	11.0 R	47.5	45.2	11.1	0.8 U
1,2,3,4,7,8,9-HpCDF		12.0 R	0.5 U	2.6	3.1	(0.86)	1.0 U
1,2,3,4,6,7,8,9-OCDF		403 R	3.1 R	165	111	27.4	1.0 U
Total TCDD		243	0.65	63.1	---	130	0.5 U
Total PeCDD		32.3	0.88	12.3	---	4.1	0.8 U
Total HxCDD		413	6.4	138	---	14.9	0.9 U
Total HpCDD		2550	35.8	939	---	97.1	2.8
Total TCDF		68.3	0.71	25.7	---	69.5	0.4 U
Total PeCDF		112	6.5	32.2	---	58.0	0.6 U
Total HxCDF		299	19.5	76.3	---	16.3	0.6 U
Total HpCDF		570	28.9	122	---	28.3	0.9 U
Total TEQ		271.431	1.4571	70.9395	230.902	122.401	0.0393

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

() =Less than Reporting Limit

U =non-detect, R =rejected, EDL =estimated detection limit

For RCL DIOX

TABLE 1

ON-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	D1003	D1004	D1005	D1005	D1006	D1007
	SAMPLE ID	D1003D1P3	D1004D1P1	D1005D1P1	D1005S1P1	D1006D1P1	D1007D1P1
	DATE / TIME	06/26/97 / 11:00	04/10/97 / 10:05	04/10/97 / 09:20	04/10/97 / 09:20	04/09/97 / 14:55	04/10/97 / 08:40
	DEPTH (ft)	0.00	0.00	0.00	0.50	0.00	0.00
2,3,7,8-TCDD		19.5	62.9 R	0.2 U	0.4 U	9.9 R	3.4 R
1,2,3,7,8-PeCDD		0.7 U	7.8 R	0.3 U	0.6 U	0.72 R	0.6 U
1,2,3,4,7,8-HxCDD		0.8 U	18.8 R	0.5 U	0.8 U	0.96 R	(0.68) R
1,2,3,6,7,8-HxCDD		0.71	42.5 R	0.4 U	0.60 R	2.7 R	2.1 R
1,2,3,7,8,9-HxCDD		0.89	43.9 R	0.75 R	1.2 R	2.7 R	2.1 R
1,2,3,4,6,7,8-HpCDD		12.7	1220 R	3.3 R	2.9 R	60.6 R	44.1 R
1,2,3,4,6,7,8,9-OCDD		135	10930	33.2 R	25.6 R	427 R	358 R
2,3,7,8-TCDF		5.2	16.6 R	0.31 R	0.3 U	(1.7)	0.97 R
1,2,3,7,8-PeCDF		0.4 U	2.8 R	0.2 U	0.4 U	0.2 U	0.4 U
2,3,4,7,8-PeCDF		0.4 U	3.4 R	0.2 U	0.4 U	0.2 U	(0.26) R
1,2,3,4,7,8-HxCDF		(0.44)	50.9 R	0.56 U	0.5 U	1.6 R	2.3 R
1,2,3,6,7,8-HxCDF		0.5 U	12.1 R	0.18 U	0.4 U	0.90 R	0.43 U
2,3,4,6,7,8-HxCDF		0.86	11.8 U	0.71 U	0.51 U	1.2 U	0.97 U
1,2,3,7,8,9-HxCDF		0.6 U	(0.97) R	0.3 U	0.6 U	0.3 U	0.7 U
1,2,3,4,6,7,8-HpCDF		2.5	255 R	1.4 U	0.7 U	11.1 R	14.4 R
1,2,3,4,7,8,9-HpCDF		0.8 U	15.1 R	0.40 R	0.9 U	1.1 R	(0.76) R
1,2,3,4,6,7,8,9-OCDF		5.8	552 R	1.9 R	1.1 U	22.4 R	28.1 R
Total TCDD		20.5	80.0	0.64	2.7	11.3	3.4
Total PeCDD		2.0	38.2	0.82	5.7	2.1	(0.48)
Total HxCDD		6.5	445	2.7	0.93	23.2	18.3
Total HpCDD		31.5	3110	6.1	5.6	140	95.1
Total TCDF		5.2	85.6	2.5	7.8	4.1	1.8
Total PeCDF		8.9	149	0.86	0.4 U	7.9	6.8
Total HxCDF		3.9	350	2.0	0.51	18.8	18.5
Total HpCDF		4.2	770	0.40	0.8 U	26.3	42.9
Total TEQ		20.6028	113.6	0.1781	0.2346	12.4934	5.3237

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

() =Less than Reporting Limit

U =non-dete[illegible] =rejected, EDL =estimated detection limit

[illegible]RCL DIOX

TABLE 1

ON-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	D1007	D1008	D1008	D1009	D1010	D1010
	SAMPLE ID	D1007D1P3	D1008D1P1	D1008S1P1	D1009D1P1	D1010D1P1	D1010S1P1
	DATE / TIME	06/26/97 / 09:40	04/09/97 / 13:50	04/09/97 / 13:50	04/09/97 / 13:30	04/09/97 / 11:00	04/09/97 / 11:00
	DEPTH (ft)	0.00	0.00	0.50	0.00	0.00	0.50
2,3,7,8-TCDD		9.8	28.0 R	12.6	40.2 R	41.9 R	25.3
1,2,3,7,8-PeCDD		0.9 U	3.4 R	1.4	3.0 R	9.4 R	7.9
1,2,3,4,7,8-HxCDD		1.3 U	8.4 R	3.8	6.0 R	26.8 R	24.2
1,2,3,6,7,8-HxCDD		1.4	25.7 R	11.2	17.2 R	59.0 R	45.0
1,2,3,7,8,9-HxCDD		1.6	20.2 R	8.5	14.0 R	51.5 R	42.1
1,2,3,4,6,7,8-HpCDD		31.6	707 R	287	466 R	1980 R	1420
1,2,3,4,6,7,8,9-OCDD		326 J	5250 R	2480 J	3700 R	18760	11700
2,3,7,8-TCDF		2.5	3.3	2.1 U	4.9	(21.5)	(2.3)
1,2,3,7,8-PeCDF		0.6 U	1.1 R	0.3 U	1.3 R	4.3 R	3.3
2,3,4,7,8-PeCDF		0.6 U	1.3 R	0.76	0.79 R	3.2 R	3.0
1,2,3,4,7,8-HxCDF		1.3	15.8 R	5.5	11.0 R	27.2 R	41.0
1,2,3,6,7,8-HxCDF		0.7 U	5.5 R	2.0	5.1 R	30.9 R	11.5
2,3,4,6,7,8-HxCDF		0.9 U	6.7 R	2.1	3.6 U	10.2 R	9.3
1,2,3,7,8,9-HxCDF		1.0 U	(0.41) R	0.5 U	(0.41) R	(2.7) R	0.5 U
1,2,3,4,6,7,8-HpCDF		5.6	107 R	66.4	82.7 R	314 R	335
1,2,3,4,7,8,9-HpCDF		1.5 U	7.1 R	5.4	5.0 R	31.1 R	26.2
1,2,3,4,6,7,8,9-OCDF		28.7 J	462 R	221 J	282 R	1300	935
Total TCDD		10.9	33.1	14.8	44.8	52.5	32.4
Total PeCDD		1.4	17.1	1.9	10.5	40.5	21.2
Total HxCDD		11.7	191	93.3	138	477	383
Total HpCDD		74.8	1460	622	997	3760	2830
Total TCDF		3.8	22.5	4.7	21.6	54.4	35.9
Total PeCDF		7.0	50.6	17.8	44.5	108	131
Total HxCDF		7.8	173	86.0	129	438	403
Total HpCDF		16.4	262	214	260	1010	1350
Total TEQ		11.2017	52.929	23.279	57.54	114.706	78.902

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed
() =Less than Reporting Limit
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For RCL DIOX

TABLE 1

ON-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	D1010	D1011	D1012	D1013	D1013	D1014
	SAMPLE ID	D1010D1P3	D1011D1P1	D1012D1P1	D1013D1P1	D1013S1P1	D1014D1P1
	DATE / TIME	06/26/97 / 10:00	04/09/97 / 10:25	04/09/97 / 09:40	04/09/97 / 08:40	04/09/97 / 08:40	04/09/97 / 09:20
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.50	0.00
2,3,7,8-TCDD		27.0	66.4 R	31.2 R	10.2 R	27.9	112.2 R
1,2,3,7,8-PeCDD		6.1	4.4 R	2.7 R	1.5 R	3.1	5.7 R
1,2,3,4,7,8-HxCDD		18.7	10.4 R	6.5 R	2.7 R	6.8	12.5 R
1,2,3,6,7,8-HxCDD		43.3	28.2 R	17.4 R	7.8 R	20.3	35.1 R
1,2,3,7,8,9-HxCDD		40.3	25.1 R	16.6 R	6.3 R	18.5	31.0 R
1,2,3,4,6,7,8-HpCDD		1410	849 R	498 R	207 R	611	1120 R
1,2,3,4,6,7,8,9-OCDD		16470	6700 R	4100 R	1860 R	5860	10890
2,3,7,8-TCDF		15.1	18.6	5.9	(2.9)	5.6	30.1
1,2,3,7,8-PeCDF		3.4	2.4 R	1.1 R	0.82 R	0.96	2.6 R
2,3,4,7,8-PeCDF		1.9	1.9 R	1.3 R	0.96 R	1.3	2.5 R
1,2,3,4,7,8-HxCDF		18.8	21.5 R	11.5 R	4.9 R	12.9	20.1 R
1,2,3,6,7,8-HxCDF		21.4	11.9 R	6.1 R	2.6 R	4.3	16.8 R
2,3,4,6,7,8-HxCDF		18.5	6.9 R	4.9 R	2.0 U	4.0	7.9 R
1,2,3,7,8,9-HxCDF		2.1	1.0 R	(0.63) R	0.51 R	0.7 U	1.3 R
1,2,3,4,6,7,8-HpCDF		206	153 R	101 R	41.1 R	140	185 R
1,2,3,4,7,8,9-HpCDF		18.4	14.8 R	6.9 R	3.6 R	8.5	14.7 R
1,2,3,4,6,7,8,9-OCDF		1050	660 R	377 R	156 R	476	693
Total TCDD		34.5	77.4	36.6	12.3	30.8	126.5
Total PeCDD		29.2	22.1	9.1	4.7	10.1	29.1
Total HxCDD		361	221	147	56.3	164	310
Total HpCDD		2800	1730	1010	428	1520	2270
Total TCDF		43.4	51.4	17.3	8.8	16.9	79.7
Total PeCDF		78.8	79.2	41.4	18.5	49.3	115
Total HxCDF		310	218	132	54.7	172	284
Total HpCDF		706	570	337	143	486	550
Total TEQ		82.854	99.558	50.774	18.775	51.319	156.69

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() = Less than Reporting Limit

U = non-dete[illegible] = rejected, EDL = estimated detection limit

TABLE 1

ON-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	D1014	D1015	D1015	D1016	D1016	D2001
	SAMPLE ID	D1014D1P3	D1015D1P1	D1015D1P2	D1016D1P1	D1016D1P2	D2001D1P1
	DATE / TIME	06/26/97 / 09:20	04/22/97 / 11:10	04/22/97 / 11:11	04/22/97 / 00:00	04/22/97 / 10:21	04/04/97 / 13:55
	DEPTH (ft)	0.00	0.00	0.50	0.00	0.50	0.00
2,3,7,8-TCDD		23.7	95.9 R	95.6	1.4 R	1.3 U	1210 R
1,2,3,7,8-PeCDD		2.4	4.4 R	3.9	(1.1) R	1.5 U	6.6 R
1,2,3,4,7,8-HxCDD		4.7	7.6 R	6.3	3.5 R	3.0	10.1 R
1,2,3,6,7,8-HxCDD		15.8	15.5 R	16.8	5.0 R	6.3	19.8 R
1,2,3,7,8,9-HxCDD		13.6	18.0 R	16.7	7.4 R	6.6	17.7 R
1,2,3,4,6,7,8-HpCDD		454	377 R	424	136 R	148	649 R
1,2,3,4,6,7,8,9-OCDD		4760	3250 R	3240 J	1280 R	1410 J	5680 R
2,3,7,8-TCDF		7.0	14.9 R	15.9	0.6 U	1.2 U	42.5 R
1,2,3,7,8-PeCDF		1.4	0.94 R	1.2 U	0.8 U	1.1 U	2.1 R
2,3,4,7,8-PeCDF		0.98	1.3 R	1.1 U	0.8 U	1.1 U	4.5 R
1,2,3,4,7,8-HxCDF		10.7	5.2 R	7.5	2.2 R	2.0	17.8 R
1,2,3,6,7,8-HxCDF		4.1	3.0 R	4.9	1.4 R	1.8	8.1 R
2,3,4,6,7,8-HxCDF		6.4	3.1 R	5.6	2.1 R	3.3	10.5 R
1,2,3,7,8,9-HxCDF		0.5 U	0.8 U	1.6 U	1.5 U	1.6 U	0.9 U
1,2,3,4,6,7,8-HpCDF		81.9	59.6 R	78.9	26.4 R	21.3	146 R
1,2,3,4,7,8,9-HpCDF		5.5	4.1 R	6.7	(1.3) R	1.6 U	7.4 R
1,2,3,4,6,7,8,9-OCDF		404	156 R	170 J	34.5 R	48.1 J	478 R
Total TCDD		28.3	101	98.7	1.4	1.3 U	1240
Total PeCDD		8.3	25.5	10.1	2.5	1.5 U	32.8
Total HxCDD		133	163	136	54.2	45.8	218
Total HpCDD		1000	876	932	299	308	1630
Total TCDF		20.4	47.6	33.6	2.2	2.3	259
Total PeCDF		36.2	79.3	46.2	12.6	8.8	511
Total HxCDF		126	53.9	120	39.2	22.6	303
Total HpCDF		285	63.7	211	59.9	53.4	436
Total TEQ		42.248	113.34	113.426	7.0615	5.4511	1242.487

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For RCL DIOX

TABLE 1

ON-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	D2001	D2001	D2002	D2002	D2003	D2003
	SAMPLE ID	D2001D1P2	D2001D1P3	D2002D1P1	D2002D1P2	D2003D1P1	D2003D1P2
	DATE / TIME	04/04/97 / 13:56	06/24/97 / 14:30	04/04/97 / 13:45	04/04/97 / 13:46	04/04/97 / 15:23	04/04/97 / 15:24
	DEPTH (ft)	0.50	0.00	0.00	0.50	0.00	0.50
2,3,7,8-TCDD		1210	3830	44.5 R	44.7	294 J	259 J
1,2,3,7,8-PeCDD		6.9	18.9	1.4 U	0.9 U	6.8 J	7.7 J
1,2,3,4,7,8-HxCDD		9.8	25.0	(0.86) R	1.0 U	10.5 J	12.3 J
1,2,3,6,7,8-HxCDD		18.6	54.7	3.6 R	4.0	32.4 J	32.2 J
1,2,3,7,8,9-HxCDD		17.3	51.3	2.1 R	2.0	24.9 J	26.6 J
1,2,3,4,6,7,8-HpCDD		681	1690	113 R	113	823	806
1,2,3,4,6,7,8,9-OCDD		5850	15140 J	1050 R	995	6060	6020
2,3,7,8-TCDF		41.8	136	3.3	4.0	19.2 J	15.9 J
1,2,3,7,8-PeCDF		2.4	6.0	1.0 U	0.8 U	2.8 J	2.3 UJ
2,3,4,7,8-PeCDF		4.2	5.0	1.0 U	0.7 U	2.8 J	2.2 UJ
1,2,3,4,7,8-HxCDF		16.4	20.6	2.7 R	2.7	22.1 J	21.3 J
1,2,3,6,7,8-HxCDF		8.0	13.8	(0.43) R	0.5 U	7.7 J	8.4 J
2,3,4,6,7,8-HxCDF		9.6	29.6	(1.4) R	1.3	7.4 J	11.6 J
1,2,3,7,8,9-HxCDF		0.7 U	2.8 U	1.7 U	0.7 U	1.1 UJ	2.1 UJ
1,2,3,4,6,7,8-HpCDF		144	315	31.8 R	31.2	116	143
1,2,3,4,7,8,9-HpCDF		6.9	13.4	(1.7) R	1.7	8.7	11.6
1,2,3,4,6,7,8,9-OCDF		521	1100 J	95 R	92.8	259	251
Total TCDD		1240	3950	46.3	44.7	308	275
Total PeCDD		32.9	145	(0.94)	0.9 U	17.6	26.2
Total HxCDD		203	787	22.2	22.7	253	254
Total HpCDD		1720	5250	209	204	2110	2050
Total TCDF		247	543	13	10.4	62	24.4
Total PeCDF		512	754	22.3	21.5	110	66.2
Total HxCDF		273	607	32.1	30.3	229	190
Total HpCDF		407	872	111	110	362	436
Total TEQ		1242.51	3911.774	48.549	48.6468	327.156	291.557

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() = Less than Reporting Limit

U = non-dete[illegible] = rejected, EDL = estimated detection limit [illegible] RCL DIOX [illegible]

TABLE 1

ON-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	D2003	D2004	D2004	D2005	D2005	D2005
	SAMPLE ID	D2003D1P3	D2004D1P1	D2004D1P2	D2005D1P1	D2005D1P2	D2005D1P3
	DATE / TIME	06/25/97 / 13:40	04/04/97 / 13:25	04/04/97 / 13:26	04/04/97 / 13:10	04/04/97 / 13:11	06/25/97 / 13:52
	DEPTH (ft)	0.00	0.00	0.50	0.00	0.50	0.00
2,3,7,8-TCDD		283	1.5 R	1.8	4 R	4.3	7.1
1,2,3,7,8-PeCDD		5.1	0.7 U	0.3 U	(0.67) R	0.55	1.3
1,2,3,4,7,8-HxCDD		9.9	1.4 R	1.2	2.2 R	2.1	3.1
1,2,3,6,7,8-HxCDD		29.3	2.7 R	2.7	4.7 R	4.7	9.5
1,2,3,7,8,9-HxCDD		23.4	2.4 R	2.5	4.1 R	4.6	7.7
1,2,3,4,6,7,8-HpCDD		732	70.6 R	74.7	136 R	135	251
1,2,3,4,6,7,8,9-OCDD		5920	563 R	580	1210 R	1210	2380
2,3,7,8-TCDF		16.8	0.4 U	0.2 U	0.4 U	0.2 U	1.1
1,2,3,7,8-PeCDF		2.2	0.5 U	0.2 U	0.5 U	0.2 U	0.41
2,3,4,7,8-PeCDF		2.6	0.4 U	0.2 U	0.5 U	0.2 U	0.57
1,2,3,4,7,8-HxCDF		12.5	2.5 R	2.6	2.1 R	1.9	3.6
1,2,3,6,7,8-HxCDF		6.7	0.58 R	0.65	1.1 R	1.1	1.9
2,3,4,6,7,8-HxCDF		11.2	0.84 U	1.3	1.3 U	2.1	3.7
1,2,3,7,8,9-HxCDF		0.6 U	0.7 U	0.3 U	0.8 U	0.2 U	0.6 U
1,2,3,4,6,7,8-HpCDF		96.5	14.8 R	14.6	31.1 R	30.5	38.8
1,2,3,4,7,8,9-HpCDF		6.2	1.1 R	0.91	2 R	2.0	2.7
1,2,3,4,6,7,8,9-OCDF		160	54.9 R	50.4	134 R	134	151
Total TCDD		303	1.5	1.8	4	4.3	8.3
Total PeCDD		18.3	0.7 U	0.3 U	(0.69)	0.98	4.7
Total HxCDD		232	16.9	8.4	31	31.9	76.8
Total HpCDD		1760	168	194	227	239	576
Total TCDF		46.9	0.75	0.73	2	1.5	5.2
Total PeCDF		106	3.8	2.4	8.7	7.4	13.2
Total HxCDF		190	16.3	20.6	34.9	32.0	62.3
Total HpCDF		262	40.2	39.0	89.2	89.3	122
Total TEQ		312.467	3.9409	4.4275	8.79	9.244	16.5715

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() = Less than Reporting Limit

U = non-detect, R = rejected, EDL = estimated detection limit

For RCL DIOX

TABLE 1

ON-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	D2006	D2006	D2007	D2007	D2008	D2008
	SAMPLE ID	D2006D1P1	D2006D1P2	D2007D1P1	D2007D1P2	D2008D1P1	D2008D1P2
	DATE / TIME	04/04/97 / 15:47	04/04/97 / 15:48	04/04/97 / 10:50	04/04/97 / 10:51	04/04/97 / 10:40	04/04/97 / 10:41
	DEPTH (ft)	0.00	0.50	0.00	0.50	0.00	0.50
2,3,7,8-TCDD		0.8 UJ	0.8 UJ	0.3 U	0.2 U	2.8 J	1.6 UJ
1,2,3,7,8-PeCDD		1.3 UJ	0.9 UJ	0.4 U	0.2 U	1.5 UJ	2.0 UJ
1,2,3,4,7,8-HxCDD		1.5 U	1.0 UJ	0.5 U	0.3 U	1.8 UJ	2.6 UJ
1,2,3,6,7,8-HxCDD		1.3 U	0.8 UJ	0.61 R	0.54	3.3 J	3.8 J
1,2,3,7,8,9-HxCDD		1.3 U	0.8 UJ	8.9 R	7.8	2.7 J	3.5 J
1,2,3,4,6,7,8-HpCDD		21.9	19.8	13.8 R	14.0	97.8	92.7
1,2,3,4,6,7,8,9-OCDD		225	213	174 R	174	1220	1130
2,3,7,8-TCDF		0.8 UJ	0.7 UJ	0.2 U	0.2 U	0.8 UJ	1.4 UJ
1,2,3,7,8-PeCDF		0.9 UJ	0.7 UJ	0.3 U	0.2 U	1.0 UJ	1.6 UJ
2,3,4,7,8-PeCDF		0.9 UJ	0.7 UJ	0.3 U	0.2 U	1.0 UJ	1.5 UJ
1,2,3,4,7,8-HxCDF		1.1 UJ	0.8 UJ	0.4 U	0.2 U	2.9 J	3.6 J
1,2,3,6,7,8-HxCDF		0.9 UJ	0.5 UJ	0.3 U	0.1 U	0.95 J	1.4 UJ
2,3,4,6,7,8-HxCDF		1.1 UJ	0.7 UJ	1.3 U	0.38	1.9 J	1.8 UJ
1,2,3,7,8,9-HxCDF		1.2 UJ	0.8 UJ	0.4 U	0.2 U	1.5 UJ	1.9 UJ
1,2,3,4,6,7,8-HpCDF		3.8	6.1	1 R	0.76	21.1	25.2
1,2,3,4,7,8,9-HpCDF		1.7 U	0.9 U	0.5 U	0.3 U	2.2 U	2.4 U
1,2,3,4,6,7,8,9-OCDF		19	15.8	3.7 R	3.4	67.1	63.7
Total TCDD		0.8 U	0.8 U	0.87	0.83	2.8	1.6 U
Total PeCDD		2.5	0.9 U	2.3	2.4	1.6	2.0 U
Total HxCDD		11.9	16.6	15.4	13.9	17.3	21.3
Total HpCDD		56	53.3	13.8	19.6	219	209
Total TCDF		0.8 U	0.7 U	0.2 U	0.2 U	3.9	3.4
Total PeCDF		2.5	2.4	0.3 U	0.2 U	14.3	9.9
Total HxCDF		4.6	3.0	0.69	0.38	31.6	32.8
Total HpCDF		7.3	15.6	1	0.99	71.9	82.9
Total TEQ		0.501	0.4878	1.2767	1.197	6.4511	3.4627

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-dete[illegible] = rejected, EDL = estimated detection limit [illegible] RCL DIOX [illegible]

TABLE 1

ON-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	D2008	D2009	D3001	D3001	D3002	D3002
	SAMPLE ID	D2008D1P3	D2009D1P1	D3001D1P1	D3001D1P2	D3002D1P1	D3002D1P2
	DATE / TIME	06/25/97 / 14:20	04/08/97 / 16:00	04/07/97 / 16:05	04/07/97 / 16:06	04/07/97 / 14:50	04/07/97 / 14:51
	DEPTH (ft)	0.00	0.00	0.00	0.50	0.00	0.50
2,3,7,8-TCDD		5.8	427	93.7 R	80.2	(0.33) R	2.7 U
1,2,3,7,8-PeCDD		0.5 U	3.2	4.7 R	4.3	(0.48) R	2.6 U
1,2,3,4,7,8-HxCDD		2.1	4.4	10.5 R	10.1	1.2 R	2.9 U
1,2,3,6,7,8-HxCDD		5.7	10.5	28.0 R	32.7	3.6 R	2.7 U
1,2,3,7,8,9-HxCDD		5.4	10.3	21.8 R	28.1	2.8 R	2.6 U
1,2,3,4,6,7,8-HpCDD		149	325	833 R	943	131 R	144
1,2,3,4,6,7,8,9-OCDD		1610	2900	6460 R	7780	1150 R	1450
2,3,7,8-TCDF		1.5	24.4	3.5 R	6.3	0.3 U	2.7 U
1,2,3,7,8-PeCDF		0.3 U	1.5	3.3 R	5.1	0.4 U	2.2 U
2,3,4,7,8-PeCDF		0.3 U	1.2	3.3 R	4.4	0.4 U	2.1 U
1,2,3,4,7,8-HxCDF		3.3	4.5	32.8 R	25.9	2.4 R	2.3 U
1,2,3,6,7,8-HxCDF		1.7	3.1	18.5 R	19.9	0.72 R	1.9 U
2,3,4,6,7,8-HxCDF		3.1	3.8	13.9 R	21.8	2.0 R	2.3 U
1,2,3,7,8,9-HxCDF		0.5 U	1.1 U	1.2 R	1.3 U	0.7 U	2.6 U
1,2,3,4,6,7,8-HpCDF		29.0	56.4	284 R	264	30.8 R	23.2
1,2,3,4,7,8,9-HpCDF		2.1	3.8	13.4 R	15.2	1.8 R	2.7 U
1,2,3,4,6,7,8,9-OCDF		50.0	165	625 R	887	109 R	183
Total TCDD		7.0	443	100	80.2	(0.33)	2.7 U
Total PeCDD		1.6	16.1	13.9	15.2	(0.48)	2.6 U
Total HxCDD		49.5	122	276	300	29.2	11.3
Total HpCDD		347	913	2080	2340	291	310
Total TCDF		5.4	96.7	43.7	35.5	0.65	2.7 U
Total PeCDF		15.5	131	169	158	4.8	2.1 U
Total HxCDF		45.2	94.3	453	328	36.9	11.9
Total HpCDF		82.7	159	829	773	120	109
Total TEQ		11.581	442.292	129.274	120.174	4.737	3.305

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

() = Less than Reporting Limit

U = non-detect, R = rejected, EDL = estimated detection limit

For RCL DIOX

TABLE 1

ON-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	D3003	D3003	D3004	D3004	D3005	D3005
	SAMPLE ID	D3003D1P1	D3003D1P2	D3004D1P1	D3004D1P2	D3005D1P1	D3005D1P2
	DATE / TIME	04/07/97 / 15:20	04/07/97 / 15:21	04/07/97 / 14:20	04/07/97 / 14:21	04/07/97 / 11:10	04/07/97 / 11:11
	DEPTH (ft)	0.00	0.50	0.00	0.50	0.00	0.50
2,3,7,8-TCDD		7.2 R	6.2 U	0.4 U	15.7 U	4.3 R	4.5
1,2,3,7,8-PeCDD		0.52 R	6.6 U	0.6 U	14.3 U	0.58 R	2.0 U
1,2,3,4,7,8-HxCDD		1.9 R	6.5 U	(0.45) R	12.2 U	1.1 R	2.3 U
1,2,3,6,7,8-HxCDD		5.3 R	(5.3)	0.80 R	11.1 U	3.2 R	4.8
1,2,3,7,8,9-HxCDD		3.8 R	5.7 U	0.94 R	10.7 U	2.6 R	2.0 U
1,2,3,4,6,7,8-HpCDD		263 R	267	29.8 R	56.7	90.0 R	99.8
1,2,3,4,6,7,8,9-OCDD		2610 R	3180	328 R	410	971 R	1080
2,3,7,8-TCDF		0.96 R	0.89	0.3 U	17.5 UJ	1.0 R	1.1
1,2,3,7,8-PeCDF		0.2 UJ	4.8 U	0.4 U	14.5 U	0.3 U	1.5 U
2,3,4,7,8-PeCDF		0.2 U	4.7 U	0.4 U	14.0 U	0.3 U	1.5 U
1,2,3,4,7,8-HxCDF		2.7 R	5.2 U	(0.62) R	11.6 U	2.7 R	3.5
1,2,3,6,7,8-HxCDF		0.67 R	4.2 U	(0.35) R	9.3 U	0.91 R	1.4 U
2,3,4,6,7,8-HxCDF		1.4 UJ	5.2 U	0.7 UJ	11.6 U	1.2 U	1.8 U
1,2,3,7,8,9-HxCDF		0.4 UJ	5.7 U	0.8 UJ	12.8 U	0.5 U	2.0 U
1,2,3,4,6,7,8-HpCDF		48.5 R	42.3	8.5 R	9.0 U	25.0 R	21.0
1,2,3,4,7,8,9-HpCDF		2.0 R	5.9 U	1.0 U	14.0 U	1.3 R	(2.0)
1,2,3,4,6,7,8,9-OCDF		153 R	218	11.6 R	16.1 U	54.1 R	73.3
Total TCDD		7.2	6.2 U	0.4 U	15.7 U	4.3	4.5
Total PeCDD		2.4	6.6 U	0.6 U	14.3 U	4.0	3.8
Total HxCDD		46.6	18.0	9.6	11.3 U	23.8	12.6
Total HpCDD		519	517	83.2	56.7	184	205
Total TCDF		3.4	6.2 U	0.3 U	17.5 U	8.3	7.0
Total PeCDF		10.1	4.8 U	2.3	14.2 U	9.4	3.9
Total HxCDF		5.0	36.2	9.9	11.2 U	33.9	25.1
Total HpCDF		187	170	21.4	11.0 U	75.6	65.6
Total TEQ		14.891	7.11	1.0386	0.977	7.9291	7.8213

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

() =Less than Reporting Limit

U=non-dete[illegible]=rejected, EDL=estimated detection limit [illegible]RCL DIOX [illegible]

TABLE 1

ON-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	D3006	D3006	D3007	D3007	D3007	D3008
	SAMPLE ID	D3006D1P1	D3006D1P2	D3007D1P1	D3007D1P2	D3007D1P3	D3008D1P3
	DATE / TIME	04/07/97 / 08:40	04/07/97 / 08:41	04/22/97 / 13:10	04/22/97 / 13:11	06/24/97 / 14:00	06/25/97 / 14:30
	DEPTH (ft)	0.00	0.50	0.00	0.50	0.00	0.00
2,3,7,8-TCDD		0.59 R	1.2 U	1.5 R	3.5 U	1.3 U	0.3 U
1,2,3,7,8-PeCDD		0.3 U	1.2 U	1.8 U	3.8 U	2.4	0.3 U
1,2,3,4,7,8-HxCDD		0.4 U	1.3 U	2.3 U	4.5 U	3.5	0.5 U
1,2,3,6,7,8-HxCDD		0.42 R	1.2 U	2.2 R	4.1 U	7.9	0.4 U
1,2,3,7,8,9-HxCDD		0.50 R	1.2 U	2.2 R	4.0 U	9.6	0.4 U
1,2,3,4,6,7,8-HpCDD		8.8 R	10.7	58.9 R	68.0	139	5.5
1,2,3,4,6,7,8,9-OCDD		67.4 R	66.7	537 R	623	1240	102
2,3,7,8-TCDF		0.2 U	1.2 U	1.2 R	3.3 U	1.2 U	0.2 U
1,2,3,7,8-PeCDF		0.2 U	0.9 U	1.1 U	2.8 U	1.2 U	0.2 U
2,3,4,7,8-PeCDF		0.2 U	0.9 U	1.1 U	2.7 U	1.1 U	0.2 U
1,2,3,4,7,8-HxCDF		0.30 R	1.1 U	1.4 R	3.6 U	2.6	0.3 U
1,2,3,6,7,8-HxCDF		0.2 U	0.9 U	(0.90) R	2.9 U	1.9	0.3 U
2,3,4,6,7,8-HxCDF		0.50 U	1.1 U	(1.1) R	3.6 U	2.9	0.61
1,2,3,7,8,9-HxCDF		0.4 U	1.3 U	1.7 U	4.0 U	2.6 U	0.4 U
1,2,3,4,6,7,8-HpCDF		1.7 R	2.0	13.4 R	12.7	33.2	0.86
1,2,3,4,7,8,9-HpCDF		0.5 U	1.3 U	(1.2) R	4.4 U	(2.8)	0.4 U
1,2,3,4,6,7,8,9-OCDF		2.4 R	4.0	26.0 R	41.7	140	2.2
Total TCDD		0.59	1.2 U	1.5	3.5 U	1.3 U	0.3 U
Total PeCDD		0.3 U	1.2 U	2.0	3.8 U	6.3	0.3 U
Total HxCDD		3.1	1.2 U	17.5	4.2 U	54.0	2.3
Total HpCDD		8.8	22.3	117	127	283	13.6
Total TCDF		0.33	1.2 U	2.6	3.3 U	3.7	0.2 U
Total PeCDF		0.82	0.9 U	5.3	2.7 U	12.8	0.2 U
Total HxCDF		1.1	1.1 U	23.0	7.7	17.7	0.61
Total HpCDF		3.2	4.3	37.0	36.7	78.7	0.86
Total TEQ		0.8868	0.1977	3.698	1.4717	7.17	0.2288

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed
() = Less than Reporting Limit
U = non-detect, R = rejected, EDL = estimated detection limit

For RCL DIOX

TABLE 1

ON-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	D4001	D4001	D4002	D4002	D4002	D4003
	SAMPLE ID	D4001D1P1	D4001D1P2	D4002D1P1	D4002D1P2	D4002D1P3	D4003D1P1
	DATE / TIME	04/07/97 / 10:35	04/07/97 / 10:36	04/07/97 / 09:40	04/07/97 / 09:41	06/26/97 / 12:30	04/07/97 / 09:10
	DEPTH (ft)	0.00	0.50	0.00	0.50	0.00	0.00
2,3,7,8-TCDD		0.5 U	15.8 UJ	0.6 U	7.5 U	1.4 M	0.5 U
1,2,3,7,8-PeCDD		(0.69) R	8.8 U	1.2 U	5.8 U	3.8	0.8 U
1,2,3,4,7,8-HxCDD		2.5 R	7.7 U	(0.99) R	6.2 U	10.1	(1.0) R
1,2,3,6,7,8-HxCDD		4.4 R	7.0 U	1.9 R	5.7 U	21.2	2.4 R
1,2,3,7,8,9-HxCDD		5.9 R	6.8 U	(1.3) R	5.5 U	21.2	1.9 R
1,2,3,4,6,7,8-HpCDD		134 R	151	58.2 R	84.7	703	59.0 R
1,2,3,4,6,7,8,9-OCDD		1380 R	1370	563 R	510	6260	563 R
2,3,7,8-TCDF		0.4 U	12.6 U	0.5 U	8.1 U	3.0	0.4 U
1,2,3,7,8-PeCDF		(0.40) R	7.4 U	0.8 UJ	5.1 U	0.4 U	(0.45) R
2,3,4,7,8-PeCDF		(0.40) R	7.2 U	0.8 UJ	4.9 U	4.3	0.6 U
1,2,3,4,7,8-HxCDF		4.3 R	6.6 U	2.1 R	5.1 U	24.2	2.0 R
1,2,3,6,7,8-HxCDF		1.8 R	5.3 U	1.1 R	4.1 U	9.2	1.2 R
2,3,4,6,7,8-HxCDF		2.1 R	6.5 U	1.4 U	5.1 U	22.5	1.2 U
1,2,3,7,8,9-HxCDF		1.1 U	7.3 U	1.6 U	5.7 U	0.6 U	1.1 U
1,2,3,4,6,7,8-HpCDF		39.4 R	34.9	24.4 R	19.0	224	23.8 R
1,2,3,4,7,8,9-HpCDF		2.0 R	8.0 U	(1.2) R	7.1 U	12.6	(1.3) R
1,2,3,4,6,7,8,9-OCDF		82.5 R	110	47.7 R	63.7	516	47.9 R
Total TCDD		0.5 U	15.8 U	0.6 U	7.5 U	2.3	0.5 U
Total PeCDD		(0.68)	8.8 U	1.2	5.8 U	19.0	1.5
Total HxCDD		53.5	12.5	10.7	5.7 U	252	21.1
Total HpCDD		349	396	153	84.7	2100	151
Total TCDF		1.7	12.6 U	1.1	8.1 U	66.3	1.0
Total PeCDF		13.4	7.3 U	10.3	5.0 U	348	13.6
Total HxCDF		55.6	33.3	40.3	24.8	358	43.3
Total HpCDF		91.4	79.6	64.7	62.9	692	41.5
Total TEQ		5.8815	3.339	2.1877	1.6107	32.762	2.3244

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() = Less than Reporting Limit

U = non-dete[illegible] = rejected, EDL = estimated detection limit

[illegible]RCL DIOX

TABLE 1

ON-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	D4003	D5001	D5001	D5002	D5002	D5003
	SAMPLE ID	D4003D1P2	D5001D1P1	D5001D1P3	D5002D1P1	D5002D1P3	D5003D1P1
	DATE / TIME	04/07/97 / 09:11	04/08/97 / 13:05	06/24/97 / 09:00	04/08/97 / 13:20	06/24/97 / 13:20	04/08/97 / 10:15
	DEPTH (ft)	0.50	0.00	0.00	0.00	0.00	0.00
2,3,7,8-TCDD		0.6 U	5.3 R	17.4	0.7 R	0.6 U	0.2 U
1,2,3,7,8-PeCDD		0.8 U	47.6 R	164	14.5 R	9.2	0.2 U
1,2,3,4,7,8-HxCDD		1.6	83.4 R	311	22.1 R	12.9	0.3 U
1,2,3,6,7,8-HxCDD		3.5	41.1 R	135	41.8 R	21.6	0.3 U
1,2,3,7,8,9-HxCDD		3.8	27.9 R	169	42.1 R	23.8	0.50 R
1,2,3,4,6,7,8-HpCDD		102	498 R	1540	511 R	256	8.3 R
1,2,3,4,6,7,8,9-OCDD		1010	1470 R	4320	2870	1770	80.4 R
2,3,7,8-TCDF		0.94	0.6 U	52.5	0.62 R	0.6 U	0.57 R
1,2,3,7,8-PeCDF		0.5 U	46.4 R	96.2	1.4 R	0.5 U	0.2 U
2,3,4,7,8-PeCDF		0.5 U	93.7 R	193	0.95 R	0.5 U	0.50 R
1,2,3,4,7,8-HxCDF		3.1	46340	8310	14.5 R	4.7	7.2 R
1,2,3,6,7,8-HxCDF		1.1	536 R	1010	5.9 R	3.2	0.56 R
2,3,4,6,7,8-HxCDF		1.5	560 R	2350	5.0 R	5.2	1.3 R
1,2,3,7,8,9-HxCDF		0.8 U	26.7 R	67.6	0.2 U	1.3 U	0.3 U
1,2,3,4,6,7,8-HpCDF		19.9	2810 R	5270	76.4 R	44.7	4.0 R
1,2,3,4,7,8,9-HpCDF		1.9	1420 R	4340	5.3 R	3.8	0.58 R
1,2,3,4,6,7,8,9-OCDF		69.1	5880 R	13480	121 R	278	5.2 U
Total TCDD		0.6 U	26.5	160	2.4	0.6 U	0.2 U
Total PeCDD		0.8 U	64.1	641	31.9	14.7	0.2 U
Total HxCDD		34.1	503	1880	225	139	2.6
Total HpCDD		286	1030	2850	1020	544	17.6
Total TCDF		0.94	1300	512	5.8	2.7	3.7
Total PeCDF		10.7	10290	8960	29.8	4.7	13.5
Total HxCDF		24.7	17840	27240	119	61.7	20.1
Total HpCDF		63.3	4920	16280	202	100	10.2
Total TEQ		3.8711	4894.41	1570.52	30.615	16.833	1.4722

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

U=non-detect, R=rejected, EDL=estimated detection limit

For RCL DIOX

TABLE 1

ON-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	D5003	D5004	D5004	D5004	D5005	D5005
	SAMPLE ID	D5003D1P2	D5004D1P1	D5004D1P2	D5004S1P1	D5005D1P1	D5005D1P2
	DATE / TIME	04/08/97 / 10:06	04/08/97 / 15:10	04/08/97 / 15:01	04/08/97 / 15:10	04/07/97 / 14:40	04/07/97 / 14:41
	DEPTH (ft)	0.50	0.00	0.25	0.50	0.00	0.50
2,3,7,8-TCDD		0.9 U	0.1 U	1.2 U	0.4 U	16.9 R	(14.6)
1,2,3,7,8-PeCDD		0.9 U	0.24 R	1.1 U	0.5 U	1.5 R	15.0 U
1,2,3,4,7,8-HxCDD		0.8 U	0.27 R	1.0 U	0.8 U	3.0 R	11.7 U
1,2,3,6,7,8-HxCDD		0.7 U	0.74 R	0.9 U	1.1	8.3 R	10.7 U
1,2,3,7,8,9-HxCDD		0.7 U	1.9 R	0.9 U	2.1	5.4 R	10.3 U
1,2,3,4,6,7,8-HpCDD		10.0 J	10.8 R	11.0	8.2	180 R	164
1,2,3,4,6,7,8,9-OCDD		79.3 J	119 R	118	65.8	1410 R	1290
2,3,7,8-TCDF		0.9 U	0.1 U	1.3 U	0.9 U	2.6 R	2.7
1,2,3,7,8-PeCDF		0.8 U	0.1 U	0.9 U	0.4 U	0.7 U	11.2 U
2,3,4,7,8-PeCDF		0.8 U	0.1 U	0.9 U	0.4 U	0.7 U	10.9 U
1,2,3,4,7,8-HxCDF		6.1	0.47 R	0.8 U	0.6 U	7.4 R	10.3 U
1,2,3,6,7,8-HxCDF		0.5 U	0.1 U	0.6 U	0.5 U	2.7 R	8.3 U
2,3,4,6,7,8-HxCDF		2.2	0.51 R	0.8 U	0.6 U	2.3 R	10.3 U
1,2,3,7,8,9-HxCDF		0.7 U	0.2 U	0.9 U	0.7 U	1.1 U	11.4 U
1,2,3,4,6,7,8-HpCDF		5.0	0.98 R	1.6	1.3	38.2 R	32.8
1,2,3,4,7,8,9-HpCDF		0.7 U	0.2 U	0.8 U	1.0 U	2.9 R	11.5 U
1,2,3,4,6,7,8,9-OCDF		6.6 J	2.2 U	3.6	1.4	156 R	150
Total TCDD		0.9 U	0.30	1.2 U	1.8	16.9	(14.6)
Total PeCDD		0.9 U	0.24	1.1 U	0.89	1.3	15.0 U
Total HxCDD		0.7 U	6.7	0.9 U	7.3	46.4	19.7
Total HpCDD		19.7	20.8	22.0	18.5	349	306
Total TCDF		4.7	7.7	1.3 U	14.2	6.0	13.8 U
Total PeCDF		10.9	1.4	0.9 U	1.0	16.3	11.1 U
Total HxCDF		15.3	2.7	0.8 U	1.5	75.4	46.1
Total HpCDF		11.0	2.7	4.3	1.3	106	73.8
Total TEQ		1.0659	0.7458	---	0.4822	24.597	18.278

Values represent total concentrations unless noted < =Not detected at indicated reporting limit ---=Not analyzed

() =Less than Reporting Limit

U =non-dete[illegible] =rejected, EDL =estimated detection limit

TABLE 1

ON-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	D5006	D5006	D5007	D5007	D5007	D5008
	SAMPLE ID	D5006D1P1	D5006D1P2	D5007D1P1	D5007S1P1	D5007D1P3	D5008D1P1
	DATE / TIME	04/08/97 / 09:35	04/08/97 / 09:06	04/08/97 / 08:50	04/08/97 / 15:25	06/24/97 / 09:45	04/07/97 / 14:30
	DEPTH (ft)	0.00	0.50	0.00	0.50	0.00	0.00
2,3,7,8-TCDD		0.2 U	1.8 U	7.4 R	4.0	0.9 U	0.44 R
1,2,3,7,8-PeCDD		0.3 U	1.5 U	6.3 R	3.8	1.0 U	0.2 U
1,2,3,4,7,8-HxCDD		(0.31) R	1.4 U	15.0 R	7.5	1.6 UJ	0.45 R
1,2,3,6,7,8-HxCDD		0.62 R	1.3 U	41.5 R	20.9	1.7 J	1.4 R
1,2,3,7,8,9-HxCDD		0.44 R	1.3 U	40.8 R	17.5	1.4 UJ	1.4 R
1,2,3,4,6,7,8-HpCDD		13.7 R	13.7 J	1220 R	657	33.1	44.6 R
1,2,3,4,6,7,8,9-OCDD		134 R	141 J	10460 R	5550	441	460 R
2,3,7,8-TCDF		0.2 U	1.7 U	3.8 R	1.2	(0.34)	0.1 U
1,2,3,7,8-PeCDF		0.30 R	1.3 U	1.8 R	(0.90)	0.9 U	0.2 U
2,3,4,7,8-PeCDF		0.48 R	1.2 U	2.5 R	(1.1)	0.8 U	0.1 U
1,2,3,4,7,8-HxCDF		21.2 R	18.7	61.7 R	31.9	5.8 J	2.6 R
1,2,3,6,7,8-HxCDF		0.93 R	0.9 U	9.2 R	4.4	1.2 UJ	0.38 R
2,3,4,6,7,8-HxCDF		1.7 R	2.2	10.6 R	4.9	1.4 UJ	0.66 U
1,2,3,7,8,9-HxCDF		0.3 U	1.3 U	0.44 R	2.1 U	1.6 UJ	0.2 U
1,2,3,4,6,7,8-HpCDF		5.7 R	6.3	178 R	90.5	9.0	6.3 R
1,2,3,4,7,8,9-HpCDF		1.0 R	1.3 U	16.8 R	3.2 U	2.0 U	0.5 R
1,2,3,4,6,7,8,9-OCDF		8.9 R	8.2 J	657 R	268	23.3	17.2 R
Total TCDD		0.2 U	1.8 U	14.1	4.0	0.9 U	0.44
Total PeCDD		0.39	1.5 U	18.9	8.7	1.0 U	0.43
Total HxCDD		4.4	1.3 U	267	131	4.0	10.5
Total HpCDD		27.2	28.8	2170	1190	39.2	133
Total TCDF		2.5	13.1	41.9	11.2	0.8 U	1.8
Total PeCDF		16.7	14.5	87.6	45.6	9.8	3.1
Total HxCDF		31.8	19.7	316	149	28.3	11.5
Total HpCDF		16.3	19.5	645	90.5	27.6	20.5
Total TEQ		3.1219	2.4392	55.459	28.618	1.6693	2.0542

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

() = Less than Reporting Limit

U = non-detect, R = rejected, EDL = estimated detection limit

For RCL DIOX

TABLE 1

ON-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	D5008	D5009	D5009	D5009	D5010	D5010
	SAMPLE ID	D5008D1P2	D5009D1P1	D5009D1P2	D5009D1P3	D5010D1P1	D5010D1P2
	DATE / TIME	04/07/97 / 14:31	04/07/97 / 13:50	04/07/97 / 13:51	06/24/97 / 10:00	04/07/97 / 13:25	04/07/97 / 13:26
	DEPTH (ft)	0.50	0.00	0.50	0.00	0.00	0.50
2,3,7,8-TCDD		1.5 U	0.7 R	0.4 U	0.3 U	0.38 R	0.6 U
1,2,3,7,8-PeCDD		1.6 U	(0.35) R	0.3 U	0.4 U	0.2 U	0.4 U
1,2,3,4,7,8-HxCDD		1.4 U	0.94 R	0.83	0.8 U	(0.25) R	0.5 U
1,2,3,6,7,8-HxCDD		1.3 U	2.4 R	2.3	0.7 U	0.50 R	0.5 U
1,2,3,7,8,9-HxCDD		1.2 U	2.2 R	2.2	0.7 U	0.51 R	0.5 U
1,2,3,4,6,7,8-HpCDD		39.0	69.0 R	62.6	11.2	13.3 R	12.3
1,2,3,4,6,7,8,9-OCDD		456	580 R	551	170	179 R	173
2,3,7,8-TCDF		1.6 U	0.46 R	0.5 U	0.3 U	0.39 R	0.6 U
1,2,3,7,8-PeCDF		1.2 U	0.3 U	0.3 U	0.3 U	(0.17) R	0.4 U
2,3,4,7,8-PeCDF		1.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.4 U
1,2,3,4,7,8-HxCDF		1.4 U	11.0 R	10.4	2.2	0.71 R	0.74
1,2,3,6,7,8-HxCDF		1.1 U	0.77 R	0.80	0.5 U	0.2 U	0.4 U
2,3,4,6,7,8-HxCDF		1.4 U	1.6 U	1.8 U	0.7 U	0.59 R	0.77 U
1,2,3,7,8,9-HxCDF		1.6 U	0.4 U	0.4 U	0.7 U	0.3 U	0.6 U
1,2,3,4,6,7,8-HpCDF		7.2	11.8 R	13.4	2.8	2.0 R	2.4 U
1,2,3,4,7,8,9-HpCDF		1.5 U	1.4 R	2.1 U	1.1 U	0.3 U	0.6 U
1,2,3,4,6,7,8,9-OCDF		23.5	32.3 R	28.1	8.1	8.4 R	7.7 U
Total TCDD		1.5 U	0.69	0.4 U	0.39	0.38	0.6 U
Total PeCDD		1.6 U	0.45	0.3 U	0.4 U	0.2 U	0.4 U
Total HxCDD		3.6	13.9	10.0	3.2	2.4	0.5 U
Total HpCDD		127	137	125	25.9	25.5	21.7
Total TCDF		1.6 U	0.46	1.1	5.1	0.71	0.6 U
Total PeCDF		2.2	7.9	6.8	19.2	0.68	1.2
Total HxCDF		4.8	26.1	24.2	2.0	3.3	3.2
Total HpCDF		7.2	39.8	13.4	2.8	6.4	2.4
Total TEQ		0.9415	4.0863	2.9921	0.5381	1.0239	0.37

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

() =Less than Reporting Limit

U =non-dete[illegible] =rejected, EDL =estimated detection limit

TABLE 1

ON-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	D5011	D5011	D5011	D5012	D5012	D5012
	SAMPLE ID	D5011D1P1	D5011D1P2	D5011D1P3	D5012D1P1	D5012D1P2	D5012D1P3
	DATE / TIME	04/07/97 / 10:56	04/07/97 / 10:57	06/24/97 / 10:15	04/07/97 / 10:45	04/07/97 / 10:46	06/24/97 / 13:45
	DEPTH (ft)	0.00	0.50	0.00	0.00	0.50	0.00
2,3,7,8-TCDD		4.2 R	3.5	4.3	5.5 R	2.1 U	6.2
1,2,3,7,8-PeCDD		1.9 R	1.0 U	0.7 U	2.2 R	2.0 U	3.7
1,2,3,4,7,8-HxCDD		3.3 R	3.2	3.2	5.6 R	5.7	9.1
1,2,3,6,7,8-HxCDD		11.0 R	10.4	10.4	15.9 R	12.2	20.8
1,2,3,7,8,9-HxCDD		11.8 R	11.5	9.6	15.1 R	16.5	21.8
1,2,3,4,6,7,8-HpCDD		342 R	316	267	484 R	460	570
1,2,3,4,6,7,8,9-OCDD		3700 R	3530	3710 J	5030 R	4870	6390
2,3,7,8-TCDF		1.8	2.2	1.2 U	(1.2) R	1.5	2.2
1,2,3,7,8-PeCDF		0.79 R	0.7 U	0.5 U	0.5 U	1.6 U	1.2
2,3,4,7,8-PeCDF		1.3 R	0.7 U	0.5 U	1.3 R	1.6 U	1.8
1,2,3,4,7,8-HxCDF		30.9 R	25.3	5.9	40.8 R	37.0	11.0
1,2,3,6,7,8-HxCDF		3.5 R	3.6	2.8	4.5 R	1.5 U	4.7
2,3,4,6,7,8-HxCDF		3.6 R	3.8 U	5.3	4.3 R	1.9 U	8.0
1,2,3,7,8,9-HxCDF		(0.21) R	1.0 U	1.3 U	(0.37) R	2.1 U	1.1 U
1,2,3,4,6,7,8-HpCDF		47.8 R	42.7	38.7	58.3 R	57.7	79.1
1,2,3,4,7,8,9-HpCDF		5.4 R	4.5	3.6	11.2 R	4.8	7.8
1,2,3,4,6,7,8,9-OCDF		162 R	151	137 J	210 R	190	582
Total TCDD		5.3	3.5	5.9	6.4	2.1 U	6.2
Total PeCDD		2.3	1.0 U	2.7	5.7	2.0 U	5.9
Total HxCDD		72.7	68.2	75.9	111	89.3	150
Total HpCDD		641	592	667	947	908	1250
Total TCDF		9.7	24.9	10.6	14.8	26.3	14.7
Total PeCDF		39.8	17.9	25.1	52.1	33.3	35.8
Total HxCDF		103	86.2	83.6	116	55.7	130
Total HpCDF		169	161	117	216	62.5	234
Total TEQ		20.2645	16.433	14.96	26.802	17.575	30.311

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

() = Less than Reporting Limit

U = non-detect, R = rejected, EDL = estimated detection limit

For RCL DIOX

TABLE 1

ON-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	D5013	D5013	D5013	D5014	D5014	D5015
	SAMPLE ID	D5013D1P1	D5013D1P2	D5013S1P1	D5014D1P1	D5014D1P2	D5015D1P1
	DATE / TIME	04/07/97 / 09:45	04/07/97 / 09:46	04/08/97 / 15:45	04/07/97 / 09:10	04/07/97 / 09:11	04/07/97 / 08:40
	DEPTH (ft)	0.00	0.50	0.00	0.00	0.50	0.00
2,3,7,8-TCDD		5.2 R	6.9 U	0.3 U	5.4 R	11.2 U	8.3 R
1,2,3,7,8-PeCDD		2.8 R	6.2 U	0.4 U	3.2 R	7.0 U	5.2 R
1,2,3,4,7,8-HxCDD		4.4 R	6.6 U	0.99	6.3 R	6.9 U	12.2 R
1,2,3,6,7,8-HxCDD		13.6 R	10.3	3.0	17.7 R	15.9	30.8 R
1,2,3,7,8,9-HxCDD		12.8 R	9.6	4.0	16.6 R	19.2	32.5 R
1,2,3,4,6,7,8-HpCDD		329 R	335	66.3	497 R	440	928 R
1,2,3,4,6,7,8,9-OCDD		2960 R	2890	547	4830 R	4420	9130 R
2,3,7,8-TCDF		1.3 R	1.5	0.51	1.9 R	5.2 U	4.7 U
1,2,3,7,8-PeCDF		1.7 R	4.6 U	0.3 U	1.9 R	5.5 U	2.4 R
2,3,4,7,8-PeCDF		1.4 R	4.4 U	0.3 U	2.3 R	5.3 U	2.7 R
1,2,3,4,7,8-HxCDF		19.2 R	14.6	1.3	23.3 R	19.1	33.9 R
1,2,3,6,7,8-HxCDF		4.0 R	4.4 U	0.70	4.3 R	5.0 U	8.4 R
2,3,4,6,7,8-HxCDF		4.1 R	5.4 U	0.76	4.0 R	6.2 U	8.0 R
1,2,3,7,8,9-HxCDF		0.89 R	6.0 U	0.5 U	1.0 R	6.9 U	0.67 R
1,2,3,4,6,7,8-HpCDF		42.7 R	32.5	8.7	60.4 R	52.9	120 R
1,2,3,4,7,8,9-HpCDF		5.3 R	5.9 U	0.7 U	6.3 R	6.0 U	12.4 R
1,2,3,4,6,7,8,9-OCDF		131 R	120	20.9	263 R	220	480 R
Total TCDD		7.0	6.9 U	1.9	7.2	11.2 U	17.4
Total PeCDD		8.2	6.2 U	2.3	6.3	7.0 U	27.0
Total HxCDD		91.4	10.3	23.8	105	35.1	243
Total HpCDD		625	654	132	806	723	1950
Total TCDF		21.9	20.2	7.2	18.5	11.7 U	34.2
Total PeCDF		28.8	14.3	5.5	36.0	57.3	69.7
Total HxCDF		88.7	71.6	14.5	112	90.4	207
Total HpCDF		143	112	24.0	202	183	428
Total TEQ		20.275	10.285	2.4439	26.485	14.989	45.231

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

U=non-dete[illegible]=rejected, EDL=estimated detection limit [illegible]RCL DIOX

TABLE 1

ON-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	D6004	D6004	D6005	D6005	D6005	D6006
	SAMPLE ID	D6004D1P1	D6004D1P2	D6005D1P1	D6005D1P2	D6005D1P3	D6006D1P1
	DATE / TIME	04/08/97 / 10:20	04/08/97 / 10:01	04/08/97 / 10:50	04/08/97 / 10:01	06/25/97 / 15:00	04/08/97 / 13:50
	DEPTH (ft)	0.00	0.50	0.00	0.50	0.00	0.00
2,3,7,8-TCDD		0.3 U	0.5 U	0.5 U	3.7 U	0.7 U	0.52 R
1,2,3,7,8-PeCDD		0.6 U	0.5 U	2.7 R	3.0 U	3.6	5.1 R
1,2,3,4,7,8-HxCDD		0.87 R	0.5 U	6.6 R	5.9	7.6	8.5 R
1,2,3,6,7,8-HxCDD		1.4 R	1.8	17.0 R	18.6	23.9	17.0 R
1,2,3,7,8,9-HxCDD		2.1 R	1.8	13.9 R	14.2	18.5	17.6 R
1,2,3,4,6,7,8-HpCDD		29.8 R	32.0	311 R	332 J	480	359 R
1,2,3,4,6,7,8,9-OCDD		271 R	285	1950 R	2160	3740	3220 R
2,3,7,8-TCDF		0.37 R	0.4 U	1.2	3.7 U	1.7	1.2 R
1,2,3,7,8-PeCDF		0.4 U	0.4 U	1.3 R	2.6 U	1.5	0.85 R
2,3,4,7,8-PeCDF		0.4 U	0.4 U	1.3 R	2.5 U	1.9	1.3 R
1,2,3,4,7,8-HxCDF		0.85 R	0.4 U	12.2 R	7.9	17.9	14.3 R
1,2,3,6,7,8-HxCDF		0.34 R	0.3 U	3.4 R	4.8	4.8	3.5 R
2,3,4,6,7,8-HxCDF		0.70 R	0.4 U	4.1 R	3.9	8.0	4.8 R
1,2,3,7,8,9-HxCDF		0.4 U	0.4 U	(0.40) R	2.3 U	1.1 U	0.5 U
1,2,3,4,6,7,8-HpCDF		5.7 R	5.0	48.1 R	43.7	63.9	84.2 R
1,2,3,4,7,8,9-HpCDF		(0.43) R	0.5 U	3.3 R	3.0	4.1	5.5 R
1,2,3,4,6,7,8,9-OCDF		8.3 R	9.5	64.7 R	76.0	159	258 R
Total TCDD		0.3 U	0.61	0.5 U	3.7 U	0.84	0.52
Total PeCDD		0.6 U	0.5 U	7.3	3.0 U	4.7	14.6
Total HxCDD		12.5	9.6	121	105	170	143
Total HpCDD		72.9	70.3	724	704	1370	761
Total TCDF		2.6	1.7	6.6	3.7 U	10.0	13.8
Total PeCDF		1.9	2.0	33.6	16.0	42.4	49.6
Total HxCDF		10.1	6.0	110	77.3	130	110
Total HpCDF		13.6	13.1	119	110	164	263
Total TEQ		1.3016	1.0245	13.5837	11.553	20.444	18.4175

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For RCL DIOX

TABLE 1

ON-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	D6006	EE04D	EE04D	EE04D	EE04U	EE04U
	SAMPLE ID	D6006D1P2	EE04DD1P1	EE04DD1P2	EE04DD1P3	EE04UD1P1	EE04UD1P2
	DATE / TIME	04/08/97 / 13:01	04/22/97 / 16:30	04/22/97 / 16:31	06/26/97 / 11:20	04/22/97 / 16:30	04/22/97 / 16:31
	DEPTH (ft)	0.50	0.00	0.50	0.00	0.00	0.50
2,3,7,8-TCDD		1.3 U	2.7 R	2.3	7.8	39.8 R	45.2
1,2,3,7,8-PeCDD		4.8	1.2 R	1.3 U	0.4 U	3.8 R	4.2 U
1,2,3,4,7,8-HxCDD		6.7	2.1 R	2.6	1.3	10.8 R	7.8
1,2,3,6,7,8-HxCDD		17.9	7.6 R	9.1	3.8	26.0 R	19.1
1,2,3,7,8,9-HxCDD		17.0	7.9 R	7.8	3.6	24.5 R	23.4
1,2,3,4,6,7,8-HpCDD		393	172 R	212	114	725 R	805
1,2,3,4,6,7,8,9-OCDD		3470	1590 R	1740	1110	6810 R	7200
2,3,7,8-TCDF		1.1 U	0.4 U	1.3 U	3.4	10.7 R	12.0
1,2,3,7,8-PeCDF		1.1 U	0.62 R	1.0 U	0.3 U	1.5 R	3.6 U
2,3,4,7,8-PeCDF		1.0 U	0.82 R	0.9 U	0.3 U	1.7 R	3.4 U
1,2,3,4,7,8-HxCDF		12.2	1.9 R	3.1	2.5	13.0 R	12.7
1,2,3,6,7,8-HxCDF		3.9	0.73 R	1.4	1.4	8.1 R	9.4
2,3,4,6,7,8-HxCDF		6.7	(0.88) R	2.6	2.1	5.6 R	5.9 U
1,2,3,7,8,9-HxCDF		1.3 U	1.1 U	1.6 U	0.4 U	1.5 U	6.1 U
1,2,3,4,6,7,8-HpCDF		75.5	17.0 R	24.2	25.8	172 R	186
1,2,3,4,7,8,9-HpCDF		7.9	(1.1) R	1.9 U	2.3	10.9 R	14.9
1,2,3,4,6,7,8,9-OCDF		312	68.3 R	78.0	112	530 R	567
Total TCDD		1.3 U	9.9	8.8	8.4	46.2	45.2
Total PeCDD		4.8	18.2	8.4	1.7	27.0	9.2
Total HxCDD		117	129	107	28.7	238	172
Total HpCDD		789	413	478	228	1540	1680
Total TCDF		2.0	0.4 U	1.3 U	8.6	38.9	12.0
Total PeCDF		39.2	17.1	7.9	10.0	70.4	58.8
Total HxCDF		96.1	13.2	39.1	34.7	208	94.1
Total HpCDF		247	17.0	85.9	88.6	653	737
Total TEQ		17.386	9.4113	9.14	12.253	68.914	71.466

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() = Less than Reporting Limit

U = non-dete[illegible] = rejected, EDL = estimated detection limit

[illegible]RCL DIOX

TABLE 1

ON-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	EE05D	EE05D	EE05U	EE05U	EE07D	EE07D
	SAMPLE ID	EE05DD1P1	EE05DD1P2	EE05UD1P1	EE05UD1P2	EE07DD1P1	EE07DD1P2
	DATE / TIME	04/23/97 / 10:50	04/23/97 / 10:51	04/23/97 / 11:15	04/23/97 / 11:16	04/22/97 / 16:00	04/22/97 / 16:01
	DEPTH (ft)	0.00	0.50	0.00	0.50	0.00	0.50
2,3,7,8-TCDD		44.4 R	42.4	182 R	197	0.7 U	3.2 U
1,2,3,7,8-PeCDD		1.8 R	2.8	6.8 R	6.9	2.9 R	2.5 U
1,2,3,4,7,8-HxCDD		4.6 R	3.0	11.7 R	10.6	5.6 R	3.9
1,2,3,6,7,8-HxCDD		9.5 R	9.0	29.6 R	29.1	9.0 R	8.3
1,2,3,7,8,9-HxCDD		11.3 R	9.2	29.8 R	24.1	11.5 R	10.1
1,2,3,4,6,7,8-HpCDD		241 R	244	721 R	734	131 R	158
1,2,3,4,6,7,8,9-OCDD		1860 R	1990	5200 R	5750	987 R	1130
2,3,7,8-TCDF		8.2 R	10.1	39.5 R	42.3	0.5 U	3.0 U
1,2,3,7,8-PeCDF		0.79 R	1.1 U	0.7 U	3.2	(0.54) R	2.0 U
2,3,4,7,8-PeCDF		0.82 R	1.1 U	2.8 R	2.4	0.7 U	1.9 U
1,2,3,4,7,8-HxCDF		7.5 R	8.6	20.3 R	19.1	2.8 R	2.5
1,2,3,6,7,8-HxCDF		3.2 R	3.1	9.3 R	10.1	1.6 R	1.8 U
2,3,4,6,7,8-HxCDF		4.2 R	6.0	8.4 R	14.6	1.6 R	2.3 U
1,2,3,7,8,9-HxCDF		1.0 U	1.8 U	1.1 U	1.3 U	1.1 U	2.5 U
1,2,3,4,6,7,8-HpCDF		54.8 R	44.9	160 R	128	35.2 R	30.0
1,2,3,4,7,8,9-HpCDF		4.3 R	2.4 U	9.9 R	9.4	1.9 R	2.8 U
1,2,3,4,6,7,8,9-OCDF		94.7 R	107	279 R	339	57.2 R	76.9
Total TCDD		47.4	42.4	197	215	0.7 U	3.2 U
Total PeCDD		6.7	7.3	38.5	24.6	2.6	2.5 U
Total HxCDD		93.2	72.7	282	255	70.6	44.1
Total HpCDD		514	548	1640	1660	273	312
Total TCDF		23.2	21.5	114	117	1.9	3.0 U
Total PeCDF		41.6	43.7	161	150	13.2	8.5
Total HxCDF		76.5	60.8	232	218	42.1	7.6
Total HpCDF		143	119	433	349	88.7	30.0
Total TEQ		55.5552	53.686	216.048	231.603	7.4122	5.5669

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

() =Less than Reporting Limit

U =non-detect, R =rejected, EDL =estimated detection limit

For RCL DIOX

TABLE 1

ON-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	EE07U	EE07U	EE13D	EE13D	EE13U	EE13U
	SAMPLE ID	EE07UD1P1	EE07UD1P2	EE13DD1P1	EE13DD1P2	EE13UD1P1	EE13UD1P2
	DATE / TIME	04/22/97 / 16:00	04/22/97 / 16:01	04/22/97 / 15:35	04/22/97 / 15:36	04/22/97 / 15:35	04/22/97 / 15:36
	DEPTH (ft)	0.00	0.50	0.00	0.50	0.00	0.50
2,3,7,8-TCDD		18.9 R	18.4	5.0 R	5.1	6.3 R	4.3
1,2,3,7,8-PeCDD		4.1 R	4.0	1.4 U	0.9 U	0.69 R	3.1 U
1,2,3,4,7,8-HxCDD		10.1 R	6.9	1.6 U	1.0 U	1.8 R	3.7 U
1,2,3,6,7,8-HxCDD		21.1 R	22.8	1.5 R	0.9 U	4.4 R	4.4
1,2,3,7,8,9-HxCDD		20.4 R	19.5	1.5 U	0.9 U	4.6 R	4.3
1,2,3,4,6,7,8-HpCDD		619 R	671	36.8 R	41.6	111 R	116 J
1,2,3,4,6,7,8,9-OCDD		6560 R	7540	357 R	379	1030 R	1170
2,3,7,8-TCDF		12.8 R	13.8	(0.84) R	3.0	2.0 R	3.3 U
1,2,3,7,8-PeCDF		1.8 R	2.5	1.0 U	0.7 U	0.3 U	2.5 U
2,3,4,7,8-PeCDF		1.8 R	1.9	1.0 U	0.7 U	0.3 U	2.5 U
1,2,3,4,7,8-HxCDF		11.9 R	11.6	1.1 U	0.9 U	1.9 R	3.0 U
1,2,3,6,7,8-HxCDF		11.3 R	11.4	0.8 U	0.7 U	1.3 R	2.4 U
2,3,4,6,7,8-HxCDF		5.7 R	11.6	1.2 U	0.9 U	1.2 R	3.0 U
1,2,3,7,8,9-HxCDF		1.1 U	0.9 U	1.3 U	1.0 U	0.5 U	3.3 U
1,2,3,4,6,7,8-HpCDF		134 R	120	9.4 R	8.3	26.8 R	21.9
1,2,3,4,7,8,9-HpCDF		9.6 R	10.0	1.8 U	1.0 U	2.1 R	3.5 U
1,2,3,4,6,7,8,9-OCDF		283 R	310	60.3 R	69.3	78.7 R	103
Total TCDD		20.1	20.0	5.0	5.1	7.0	4.3
Total PeCDD		11.6	13.3	1.4 U	0.9 U	2.9	3.1 U
Total HxCDD		193	168	9.3	4.2	40.4	4.3
Total HpCDD		1350	1420	117	132	241	251
Total TCDF		24.7	29.2	(0.84)	3.0	5.2	3.3 U
Total PeCDF		68.2	54.9	6.1	3.6	11.3	11.0
Total HxCDF		229	206	11.8	7.2	36.9	12.9
Total HpCDF		368	130	44.6	45.2	89.9	82.3
Total TEQ		45.739	47.095	6.1133	6.3473	10.8727	7.822

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( ) = Less than Reporting Limit

U = non-dete[illegible] = rejected, EDL = estimated detection limit [illegible]RCL DIOX

TABLE 1

ON-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	EEN1D	EEN1D	EEN1U	EEN1U	EEN2D	EEN2D
	SAMPLE ID	EEN1DD1P1	EEN1DD1P2	EEN1UD1P1	EEN1UD1P2	EEN2DD1P1	EEN2DD1P2
	DATE / TIME	04/23/97 / 15:15	04/23/97 / 15:16	04/23/97 / 15:22	04/23/97 / 15:23	04/23/97 / 14:25	04/23/97 / 14:26
	DEPTH (ft)	0.00	0.50	0.00	0.50	0.00	0.50
2,3,7,8-TCDD		259 R	243	453 R	439	575 R	637
1,2,3,7,8-PeCDD		4.2 R	7.1	23.0 R	26.3	8.2 R	7.7
1,2,3,4,7,8-HxCDD		2.5 U	3.8 U	2.9 R	3.8	15.2 R	13.1
1,2,3,6,7,8-HxCDD		4.0 R	4.9	9.5 R	11.0	43.3 R	40.7
1,2,3,7,8,9-HxCDD		2.4 R	3.4 U	7.9 R	8.0	37.3 R	31.9
1,2,3,4,6,7,8-HpCDD		60.4 R	67.6	122 R	123	2040 R	2160
1,2,3,4,6,7,8,9-OCDD		516 R	572	833 R	885	14260 R	15970
2,3,7,8-TCDF		46.6 R	49.3	74.7 R	75.1	45.6 R	42.5
1,2,3,7,8-PeCDF		1.4 U	1.9 U	1.5 R	4.1	2.8 R	3.0
2,3,4,7,8-PeCDF		1.4 U	1.9 U	3.4 R	4.8	3.4 R	2.8
1,2,3,4,7,8-HxCDF		4.4 R	2.9 U	7.4 R	9.4	43.1 R	1.5 U
1,2,3,6,7,8-HxCDF		2.1 R	2.4 U	1.4 R	2.8	5.6 R	5.7
2,3,4,6,7,8-HxCDF		4.0 R	2.9 U	4.9 R	1.5 U	5.0 R	10.0
1,2,3,7,8,9-HxCDF		2.1 U	3.2 U	1.0 U	1.6 U	3.7 U	1.6 U
1,2,3,4,6,7,8-HpCDF		23.3 R	16.6	31.2 R	25.0	150 R	124
1,2,3,4,7,8,9-HpCDF		2.5 U	4.2 U	4.3 R	4.3	13.1 R	8.8 M
1,2,3,4,6,7,8,9-OCDF		62.0 R	70.6	72.1 R	77.6	461 R	599
Total TCDD		285	256	524	492	593	670
Total PeCDD		7.2	11.8	56.4	55.5	37.4	21.2
Total HxCDD		37.9	38.3	111	112	862	787
Total HpCDD		159	179	323	328	10290	10750
Total TCDF		149	133	302	286	188	174
Total PeCDF		134	121	305	284	269	257
Total HxCDF		32.2	15.3	56.4	57.4	229	218
Total HpCDF		74.8	55.8	84.7	66.1	695	124
Total TEQ		268.865	253.4546	479.6251	468.2506	637.202	696.287

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U=non-detect, R=rejected, EDL=estimated detection limit

For RCL DIOX

TABLE 1

ON-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	EEN2U	EEN2U	L8001	L8002	L8003	L8004
	SAMPLE ID	EEN2UD1P1	EEN2UD1P2	L8001S1P1	L8002S1P1	L8003S1P1	L8004S1P1
	DATE / TIME	04/23/97 / 14:45	04/23/97 / 14:46	04/09/97 / 09:00	04/09/97 / 11:05	04/10/97 / 10:40	04/10/97 / 09:55
	DEPTH (ft)	0.00	0.50	0.00	0.00	0.00	0.00
2,3,7,8-TCDD		980 R	1020	1.2	0.70	1.3 R	0.5 U
1,2,3,7,8-PeCDD		13.8 R	13.8	0.6 U	0.4 U	0.5 U	0.6 U
1,2,3,4,7,8-HxCDD		14.9 R	10.6	1.1 U	(0.48)	0.9 U	1.0 U
1,2,3,6,7,8-HxCDD		26.0 R	25.0	0.9 U	0.69	0.6 U	0.7 U
1,2,3,7,8,9-HxCDD		31.8 R	24.3	1.0 U	0.97	0.7 U	0.8 U
1,2,3,4,6,7,8-HpCDD		694 R	706	7.5	20.7	12.9 R	9.0 R
1,2,3,4,6,7,8,9-OCDD		5410 R	6180	642	447	169 R	110 R
2,3,7,8-TCDF		73.8 R	78.1	0.3 U	0.2 U	0.4 U	0.4 U
1,2,3,7,8-PeCDF		3.4 R	3.0	0.5 U	0.3 U	0.5 U	0.5 U
2,3,4,7,8-PeCDF		3.3 R	2.7	0.5 U	0.3 U	0.5 U	0.5 U
1,2,3,4,7,8-HxCDF		24.8 R	25.1	0.6 U	0.59	(0.46) R	0.7 U
1,2,3,6,7,8-HxCDF		5.6 R	5.4	0.5 U	0.3 U	0.4 U	0.5 U
2,3,4,6,7,8-HxCDF		7.4 R	10.9	0.7 U	(0.37)	0.44 U	0.53 U
1,2,3,7,8,9-HxCDF		1.3 U	2.0 U	0.7 U	0.4 U	0.6 U	0.8 U
1,2,3,4,6,7,8-HpCDF		116 R	92.3	0.9 U	3.5	4.2 R	3.1 R
1,2,3,4,7,8,9-HpCDF		9.0 R	7.4	1.2 U	0.6 U	0.8 U	1.0 U
1,2,3,4,6,7,8,9-OCDF		204 R	263	1.3 U	4.9	7.2 R	5.2 R
Total TCDD		1040	1080	1.6	0.70	1.3	0.5 U
Total PeCDD		58.6	50.7	0.6 U	0.4 U	0.5 U	0.6 U
Total HxCDD		339	290	(0.89)	7.5	2.3	1.4
Total HpCDD		1820	1910	7.5	46.9	28.5	19.7
Total TCDF		291	310	0.3 U	0.36	0.4 U	0.4 U
Total PeCDF		339	311	(0.47)	1.9	5.9	1.0
Total HxCDF		178	161	0.6 U	3.8	2.8	1.9
Total HpCDF		359	284	1.0 U	3.5	4.2	7.6
Total TEQ		1020.954	1060.84	1.917	1.7039	1.6932	0.2362

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() =Less than Reporting Limit

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TABLE 1

ON-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	L8005	L8006	L8007	L8007	L8008	L8008
	SAMPLE ID	L8005S1P1	L8006S1P1	L8007S1P1	L8007S1P2	L8008S1P1	L8008S1P2
	DATE / TIME	04/09/97 / 10:15	04/09/97 / 15:40	04/23/97 / 09:25	04/23/97 / 09:26	04/23/97 / 09:55	04/23/97 / 09:56
	DEPTH (ft)	0.00	0.00	0.00	0.50	0.00	0.50
2,3,7,8-TCDD		0.45	102	0.4 U	1.6 U	3.0 R	2.5
1,2,3,7,8-PeCDD		0.66	25.9	0.5 U	1.5 U	0.55 R	1.2 U
1,2,3,4,7,8-HxCDD		1.2	2.0	0.84 R	2.5 U	0.89 R	1.9 U
1,2,3,6,7,8-HxCDD		2.6	5.9	1.2 R	1.9 U	1.3 R	1.5 U
1,2,3,7,8,9-HxCDD		3.1	2.7	1.7 R	2.1 U	1.6 R	1.6 U
1,2,3,4,6,7,8-HpCDD		58.2	52.5	32.8 R	35.1	50.6 R	53.9
1,2,3,4,6,7,8,9-OCDD		474	746	271 R	268	498 R	496
2,3,7,8-TCDF		0.1 U	4.8	0.3 U	1.4 U	0.37 R	0.9 U
1,2,3,7,8-PeCDF		0.2 U	0.2 U	0.4 U	1.1 U	0.3 U	0.8 U
2,3,4,7,8-PeCDF		0.42	1.7	0.4 U	1.1 U	0.30 R	0.8 U
1,2,3,4,7,8-HxCDF		2.9	0.3 U	2.6 R	3.0	1.9 R	2.3
1,2,3,6,7,8-HxCDF		0.80	0.2 U	0.40 R	1.2 U	0.48 R	1.0 U
2,3,4,6,7,8-HxCDF		1.3	0.3 U	<0.89 EDL	1.5 U	<1.0 EDL	1.2 U
1,2,3,7,8,9-HxCDF		0.3 U	0.3 U	0.5 U	1.7 U	0.4 U	1.3 U
1,2,3,4,6,7,8-HpCDF		25.0	7.7	7.0 R	6.8	9.6 R	9.2
1,2,3,4,7,8,9-HpCDF		1.4	0.6 U	0.54 R	2.2 U	0.70 R	1.6 U
1,2,3,4,6,7,8,9-OCDF		41.2	10.1	11.9 R	16.7	25.1 R	28.9
Total TCDD		0.88	262	0.4 U	1.6 U	3.0	2.5
Total PeCDD		1.9	257	0.97	1.9	1.1	1.2 U
Total HxCDD		30.8	210	11.7	5.1	21.5	7.6
Total HpCDD		140	138	63.5	68.7	203	227
Total TCDF		1.6	227	1.4	1.4 U	2.2	1.6
Total PeCDF		11.5	226	5.1	3.2	5.6	8.7
Total HxCDF		29.5	22.6	10.3	10.3	11.9	9.8
Total HpCDF		64.1	20.9	7.5	6.8	32.2	29.2
Total TEQ		3.5412	118.6981	1.3603	1.0037	5.2111	3.8859

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U = non-detect, R = rejected, EDL = estimated detection limit

For RCL DIOX

TABLE 1

ON-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	L8009	L8010	L8011	L8012	L8013	L8013
	SAMPLE ID	L8009S1P1	L8010S1P1	L8011S1P1	L8012S1P1	L8013S1P1	L8013S1P2
	DATE / TIME	04/10/97 / 11:15	04/09/97 / 16:30	04/09/97 / 13:50	04/09/97 / 15:05	04/25/97 / 10:05	04/25/97 / 10:06
	DEPTH (ft)	0.00	0.00	0.75	0.00	0.00	0.50
2,3,7,8-TCDD		0.97 R	1.0	0.71	3.3	1.7	2.7 U
1,2,3,7,8-PeCDD		0.5 U	0.4 U	0.3 U	0.3 U	0.8 U	2.1 U
1,2,3,4,7,8-HxCDD		0.7 U	0.9 U	0.6 U	0.5 U	1.1 U	2.8 U
1,2,3,6,7,8-HxCDD		2.5 R	0.7 U	0.5 U	2.2	(0.60)	2.6 U
1,2,3,7,8,9-HxCDD		1.8	0.7 U	0.5 U	1.6	1.0 U	2.5 U
1,2,3,4,6,7,8-HpCDD		67.2 R	1.7	2.9	67.8	12.5 R	12.2
1,2,3,4,6,7,8,9-OCDD		694 R	16.5	176	631	293 R	345
2,3,7,8-TCDF		0.3 U	0.40	0.2 U	0.2 U	0.4 U	2.7 U
1,2,3,7,8-PeCDF		0.4 U	0.3 U	0.3 U	0.2 U	0.5 U	2.0 U
2,3,4,7,8-PeCDF		0.4 U	0.3 U	0.3 U	0.2 U	0.5 U	1.9 U
1,2,3,4,7,8-HxCDF		2.3 R	0.5 U	0.4 U	0.3 U	2.9 R	2.2 U
1,2,3,6,7,8-HxCDF		0.75 R	0.4 U	0.3 U	0.35	0.69 R	1.8 U
2,3,4,6,7,8-HxCDF		1.0 U	(0.48)	0.4 U	0.64	2.4 R	2.2 U
1,2,3,7,8,9-HxCDF		0.6 U	0.6 U	0.4 U	0.3 U	0.8 U	2.4 U
1,2,3,4,6,7,8-HpCDF		18.3 R	6.4	0.6 U	7.1	8.2 R	8.6
1,2,3,4,7,8,9-HpCDF		1.0	1.3 U	0.8 U	0.5 U	1.2 U	3.5 U
1,2,3,4,6,7,8,9-OCDF		43.3 R	1.9 U	0.9 U	13.9	7.5 R	3.8 U
Total TCDD		1.6	1.0	0.71	3.3	1.7	2.7 U
Total PeCDD		1.0	0.69	0.3 U	0.47	0.8 U	2.1 U
Total HxCDD		23.6	1.8	0.5 U	23.7	2.3	2.6 U
Total HpCDD		207	4.5	5.9	341	29.5	12.2
Total TCDF		0.84	1.0	0.2 U	0.71	2.1	2.7 U
Total PeCDF		7.2	1.2	0.3 U	10.0	30.8	28.9
Total HxCDF		20.0	7.5	0.4 U	10.9	28.9	9.9
Total HpCDF		57.7	6.4	0.7 U	7.1	9.9	8.6
Total TEQ		3.3073	1.1855	0.915	5.1729	2.8665	0.553

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() =Less than Reporting Limit

U =non-de[illegible] R =rejected, EDL =estimated detection limit [illegible] RCL DIOX

TABLE 1

ON-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	L8014	L8015	L8016	L8016	L8017	L8017
	SAMPLE ID	L8014S1P1	L8015S1P1	L8016S1P1	L8016S1P2	L8017S1P1	L8017S1P2
	DATE / TIME	04/10/97 / 14:35	04/09/97 / 14:15	04/24/97 / 15:10	04/24/97 / 15:11	04/23/97 / 14:35	04/23/97 / 14:36
	DEPTH (ft)	0.00	0.00	0.00	0.50	0.00	0.50
2,3,7,8-TCDD		160 R	0.60	31.0 R	83.5	3.8 R	5.0
1,2,3,7,8-PeCDD		3.5 R	0.4 U	(0.53) R	0.3 U	0.72 R	1.2 U
1,2,3,4,7,8-HxCDD		7.3 R	0.7 U	0.94 R	0.99	1.3 R	1.4 U
1,2,3,6,7,8-HxCDD		17.0 R	0.98	1.4 R	1.5	3.0 R	2.9
1,2,3,7,8,9-HxCDD		14.9 R	0.93	2.3 R	2.0	2.6 R	2.9
1,2,3,4,6,7,8-HpCDD		464 R	17.7	51.2 R	53.8 J	72.4 R	79.7
1,2,3,4,6,7,8,9-OCDD		3960 R	202	451 R	463 J	659 R	696
2,3,7,8-TCDF		4.6 R	0.32	1.3 R	1.4	0.55 R	0.8 U
1,2,3,7,8-PeCDF		0.87 R	0.3 U	0.5 U	0.3 U	0.50 R	0.9 U
2,3,4,7,8-PeCDF		0.95 R	0.37	0.5 U	0.3 U	0.65 R	0.9 U
1,2,3,4,7,8-HxCDF		17.6 R	1.1	0.99 R	1.00	5.6 R	1.0 U
1,2,3,6,7,8-HxCDF		5.8 R	0.65	0.3 U	0.3 U	2.4 R	2.2
2,3,4,6,7,8-HxCDF		9.6 R	1.1	<0.74 EDL	0.85	2.9 R	4.0
1,2,3,7,8,9-HxCDF		0.8 U	0.4 U	0.6 U	0.4 U	0.3 U	1.0 U
1,2,3,4,6,7,8-HpCDF		232 R	11.1	6.5 R	4.7	39.7 R	41.2
1,2,3,4,7,8,9-HpCDF		7.9 R	0.8 U	0.7 U	0.4 U	1.9 R	1.3 U
1,2,3,4,6,7,8,9-OCDF		426 R	12.4	16.8 R	20.2 J	52.3 R	64.5
Total TCDD		167	0.87	93.1	83.5	3.8	5.0
Total PeCDD		8.8	0.48	1.3	1.5	1.4	1.2 U
Total HxCDD		149	6.9	33.9	31.9	28.8	23.9
Total HpCDD		835	31.8	303	294	166	189
Total TCDF		21.2	3.9	4.9	3.3	4.2	0.8 U
Total PeCDF		68.1	21.4	10.5	11.9	28.0	32.4
Total HxCDF		227	20.9	3.9	2.1	54.7	50.9
Total HpCDF		568	11.1	6.5	16.7	95.7	98.9
Total TEQ		181.3735	1.7954	93.0028	85.3422	8.1963	8.1695

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

() = Less than Reporting Limit

U = non-detect, R = rejected, EDL = estimated detection limit

For RCL DIOX

TABLE 1

ON-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	L8018	L8018	L8019	L8019	L8020	L8020
	SAMPLE ID	L8018S1P1	L8018S1P2	L8019S1P1	L8019S1P2	L8020S1P1	L8020S1P2
	DATE / TIME	04/24/97 / 11:55	04/24/97 / 11:56	04/22/97 / 15:00	04/22/97 / 15:01	04/23/97 / 13:00	04/23/97 / 13:01
	DEPTH (ft)	0.00	0.50	0.00	0.50	0.00	0.50
2,3,7,8-TCDD		37.2 R	35.7	(0.86) R	0.74	0.46 R	0.88
1,2,3,7,8-PeCDD		3.5 R	1.3 U	1.8 U	0.4 U	0.4 U	0.3 U
1,2,3,4,7,8-HxCDD		6.0 R	6.7	2.2 U	0.7 U	0.5 U	0.5 U
1,2,3,6,7,8-HxCDD		17.6 R	18.8	2.0 R	1.8	0.4 U	0.4 U
1,2,3,7,8,9-HxCDD		14.1 R	12.0	2.5 R	2.2	0.60 R	0.4 U
1,2,3,4,6,7,8-HpCDD		567 R	583	52.7 R	50.9	7.2 R	7.0
1,2,3,4,6,7,8,9-OCDD		4280 R	4520	576 R	595	317 R	311
2,3,7,8-TCDF		2.3 R	4.0	0.8 U	0.4 U	0.3 U	0.3 U
1,2,3,7,8-PeCDF		1.4 R	1.1 U	1.1 U	0.3 U	0.3 U	0.3 U
2,3,4,7,8-PeCDF		2.7 R	2.5	1.1 U	0.3 U	0.3 U	0.3 U
1,2,3,4,7,8-HxCDF		26.9 R	21.0	(1.1) R	1.4	0.60 R	0.80
1,2,3,6,7,8-HxCDF		6.7 R	5.5	(0.54) R	0.46	0.3 U	0.3 U
2,3,4,6,7,8-HxCDF		9.0 R	8.1	(0.85) R	1.4 U	0.61 R	0.93
1,2,3,7,8,9-HxCDF		1.5 U	1.7 U	1.5 U	0.6 U	0.4 U	0.4 U
1,2,3,4,6,7,8-HpCDF		161 R	134	22.1 R	23.7	2.7 R	3.3
1,2,3,4,7,8,9-HpCDF		6.7 R	9.1	2.3 U	0.99	0.5 U	0.5 U
1,2,3,4,6,7,8,9-OCDF		44[illegible] R	501	41.7 R	37.7	1.7 R	2.1
Total TCDD		38.3	35.7	(0.86)	0.74	0.46	0.88
Total PeCDD		11.4	11.7	1.8 U	0.4 U	0.4 U	0.3 U
Total HxCDD		165	147	20.5	21.1	1.5	0.4 U
Total HpCDD		1280	1290	164	158	15.9	19.3
Total TCDF		25.3	17.6	3.3	5.0	0.55	1.5
Total PeCDF		115	97.8	3.6	7.4	7.9	6.7
Total HxCDF		226	186	19.9	20.2	6.7	7.4
Total HpCDF		567	496	31.0	53.3	5.2	5.7
Total TEQ		60.697	56.842	2.9247	2.7146	1.0587	1.4691

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

() =Less th[illegible]eporting Limit

U =non-det[illegible] R =rejected, EDL =estimated detection limit [illegible]r RCL DIOX

TABLE 1

ON-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	D5015	D5015	D5016	D5016	D5017	D5017
	SAMPLE ID	D5015D1P2	D5015D1P3	D5016D1P1	D5016D1P2	D5017D1P1	D5017D1P2
	DATE / TIME	04/07/97 / 08:41	06/24/97 / 10:30	04/08/97 / 15:05	04/08/97 / 15:06	04/08/97 / 15:35	04/08/97 / 15:06
	DEPTH (ft)	0.50	0.00	0.00	0.50	0.00	0.50
2,3,7,8-TCDD		5.2 U	5.1	1.1 R	0.8 U	2.4 R	2.7
1,2,3,7,8-PeCDD		6.4 U	3.0	1.2 R	0.9 U	(1.2) R	0.8 U
1,2,3,4,7,8-HxCDD		11.0	7.8	1.4 R	1.3	(2.4) R	2.9
1,2,3,6,7,8-HxCDD		32.1	17.3	4.4 R	4.7	8.0 R	9.4
1,2,3,7,8,9-HxCDD		38.6	20.1	4.5 R	4.5	7.3 R	6.9
1,2,3,4,6,7,8-HpCDD		868	526	129 R	140	239 R	273 J
1,2,3,4,6,7,8,9-OCDD		9070 J	6420	992 R	1050	2310 R	2580
2,3,7,8-TCDF		5.2 U	2.7	1.8 R	1.7	0.78 R	0.7 U
1,2,3,7,8-PeCDF		5.2 U	1.3	0.56 R	0.7 U	(0.84) R	0.6 U
2,3,4,7,8-PeCDF		5.0 U	1.5	0.90 R	0.6 U	(1.1) R	0.6 U
1,2,3,4,7,8-HxCDF		27.8	8.3	2.5 R	2.5	29.7 R	28.2
1,2,3,6,7,8-HxCDF		9.7	5.3	1.1 R	1.1	2.5 R	3.1
2,3,4,6,7,8-HxCDF		8.2 U	8.7	1.4 U	2.1	3.8 R	5.0
1,2,3,7,8,9-HxCDF		4.5 U	1.0 U	0.4 U	0.8 U	2.4 U	0.7 U
1,2,3,4,6,7,8-HpCDF		114	95.3	30.3 R	25.9	45.2 R	44.2
1,2,3,4,7,8,9-HpCDF		12.7 U	7.0	1.3 R	1.2	4.2 R	5.9
1,2,3,4,6,7,8,9-OCDF		259 J	433	68.2 R	77.9	90.8 R	123
Total TCDD		18.0	10.9	4.0	0.8 U	2.4	2.7
Total PeCDD		92.4	17.7	10.2	3.3	4.6	0.8 U
Total HxCDD		218	177	52.2	33.5	74.2	65.9
Total HpCDD		1560	1190	301	302	808	804
Total TCDF		18.2	14.0	13.4	8.1	12.6	4.5
Total PeCDF		96.8	41.3	14.5	12.9	65.6	16.9
Total HxCDF		156	161	40.1	34.7	97.2	98.9
Total HpCDF		358	256	83.5	74.8	137	148
Total TEQ		31.069	27.571	6.4148	4.5889	14.3248	14.184

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

() = Less than Reporting Limit

U = non-detect, R = rejected, EDL = estimated detection limit

For RCL DIOX

TABLE 1

ON-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	D6001	D6001	D6002	D6002	D6003	D6003
	SAMPLE ID	D6001D1P1	D6001D1P2	D6002D1P1	D6002D1P2	D6003D1P1	D6003D1P2
	DATE / TIME	04/08/97 / 08:50	04/08/97 / 08:01	04/08/97 / 09:15	04/08/97 / 09:06	04/08/97 / 13:05	04/08/97 / 13:06
	DEPTH (ft)	0.00	0.50	0.00	0.50	0.00	0.50
2,3,7,8-TCDD		0.2 U	0.3 U	0.1 U	0.3 U	0.49 R	0.7 U
1,2,3,7,8-PeCDD		0.3 U	0.3 U	0.2 U	0.3 U	1.6 R	0.8 U
1,2,3,4,7,8-HxCDD		0.52 R	0.48	0.43 R	0.3 U	3.2 R	3.0
1,2,3,6,7,8-HxCDD		1.6 R	1.3	0.58 R	0.63	6.4 R	6.4
1,2,3,7,8,9-HxCDD		1.6 R	1.6	1.1 R	1.0	7.2 R	5.7
1,2,3,4,6,7,8-HpCDD		39.8 R	39.8	12.3 R	13.1	185 R	211
1,2,3,4,6,7,8,9-OCDD		388 R	399	457 R	471	2050 R	2210
2,3,7,8-TCDF		0.2 U	0.2 U	0.1 U	0.2 U	0.96 R	0.6 U
1,2,3,7,8-PeCDF		0.2 U	0.2 U	0.1 U	0.2 U	0.70 R	0.6 U
2,3,4,7,8-PeCDF		0.2 U	0.2 U	0.1 U	0.2 U	0.70 R	0.6 U
1,2,3,4,7,8-HxCDF		1.4 R	1.4	2.2 R	2.1	3.9 R	2.5
1,2,3,6,7,8-HxCDF		0.38 R	0.34	0.23 R	0.2 U	1.7 R	1.5
2,3,4,6,7,8-HxCDF		0.71 R	1.2	0.44 R	0.61	2.1 R	2.6
1,2,3,7,8,9-HxCDF		0.3 U	0.3 U	0.2 U	0.3 U	0.5 U	0.7 U
1,2,3,4,6,7,8-HpCDF		8.3 R	7.7	1.4 R	1.8	37.6 R	33.6
1,2,3,4,7,8,9-HpCDF		0.63 R	0.56	0.39 R	0.54	2.3 R	3.0
1,2,3,4,6,7,8,9-OCDF		23.9 R	27.5	3.4 U	3.4	84.6 R	97.6
Total TCDD		1.6	1.8	0.1 U	0.3 U	1.0	0.7 U
Total PeCDD		0.76	0.84	0.2 U	0.3 U	3.4	0.8 U
Total HxCDD		12.4	7.4	5.3	2.3	73.2	55.3
Total HpCDD		80.2	82.1	29.4	31.1	609	610
Total TCDF		0.51	1.5	0.75	0.71	4.6	2.4
Total PeCDF		3.6	2.0	0.64	4.2	19.6	13.1
Total HxCDF		11.3	10.0	3.2	0.44	58.1	34.5
Total HpCDF		21.9	21.8	3.6	4.0	108	104
Total TEQ		1.5202	1.5391	1.0959	1.0628	8.6046	6.9536

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-dete[illegible] = rejected, EDL = estimated detection limit [illegible]RCL DIOX

TABLE 1

ON-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	L8021	L8021	L8022	L8022	L8023	L8023
	SAMPLE ID	L8021S1P1	L8021S1P2	L8022S1P1	L8022S1P2	L8023S1P1	L8023S1P2
	DATE / TIME	04/24/97 / 09:30	04/24/97 / 09:36	04/24/97 / 14:35	04/24/97 / 14:36	04/24/97 / 10:05	04/24/97 / 10:06
	DEPTH (ft)	0.00	0.50	0.00	0.50	0.00	0.50
2,3,7,8-TCDD		67.7 R	62.4	4.9 R	4.6	39.6 R	38.5
1,2,3,7,8-PeCDD		0.76 R	0.9 U	0.82 R	0.72	1.9 R	1.8
1,2,3,4,7,8-HxCDD		1.2 R	(1.1)	1.9 R	1.6	4.6 R	3.6
1,2,3,6,7,8-HxCDD		2.8 R	2.9	4.5 R	4.6	12.9 R	12.9
1,2,3,7,8,9-HxCDD		2.9 R	3.0	4.7 R	4.2	9.1 R	7.7
1,2,3,4,6,7,8-HpCDD		72.6 R	78.0 J	121 R	127 J	337 R	340
1,2,3,4,6,7,8,9-OCDD		704 R	735 J	1290 R	1280	2490 R	2570
2,3,7,8-TCDF		1.9 R	2.1	0.80 R	0.4 U	1.7 R	2.9
1,2,3,7,8-PeCDF		0.5 U	0.7 U	0.6 U	0.3 U	0.5 U	0.8 U
2,3,4,7,8-PeCDF		0.53 R	1.0	0.6 U	0.63	0.91 R	0.8 U
1,2,3,4,7,8-HxCDF		3.0 R	2.7	5.8 R	5.2	12.8 R	10.7
1,2,3,6,7,8-HxCDF		1.5 R	1.5	1.5 R	1.7	2.8 R	3.1
2,3,4,6,7,8-HxCDF		2.2 U	1.5	2.2 U	2.5	4.9 R	3.8
1,2,3,7,8,9-HxCDF		0.8 U	1.1 U	0.8 U	0.5 U	0.7 U	1.2 U
1,2,3,4,6,7,8-HpCDF		34.2 R	25.3	38.7 R	31.3	108 R	85.7
1,2,3,4,7,8,9-HpCDF		1.0 R	(1.0)	2.3 R	2.4	4.9 R	5.9
1,2,3,4,6,7,8,9-OCDF		47.7 R	57.2 J	84.0 R	83.8	292 R	320
Total TCDD		69.7	64.4	6.4	5.9	41.2	38.5
Total PeCDD		1.8	3.0	2.6	3.4	6.0	4.1
Total HxCDD		37.8	33.0	62.7	52.1	94.1	82.2
Total HpCDD		229	238	337	353	650	669
Total TCDF		10.8	7.2	2.2	1.2	6.7	6.9
Total PeCDF		36.0	38.1	14.2	11.0	31.4	25.3
Total HxCDF		49.2	41.9	44.8	40.4	124	107
Total HpCDF		77.1	60.0	120	100	381	326
Total TEQ		71.5047	66.2152	10.224	10.2258	53.236	51.076

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

() = Less than Reporting Limit

U = non-detect, R = rejected, EDL = estimated detection limit

For RCL DIOX

TABLE 1

ON-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	L8024	L8024	L8025	L8025	L8026	L8026
	SAMPLE ID	L8024S1P1	L8024S1P2	L8025S1P1	L8025S1P2	L8026S1P1	L8026S1P2
	DATE / TIME	04/24/97 / 10:30	04/24/97 / 10:31	04/24/97 / 15:50	04/24/97 / 15:51	04/23/97 / 13:35	04/23/97 / 13:36
	DEPTH (ft)	0.00	0.50	0.00	0.50	0.00	0.50
2,3,7,8-TCDD		8.7 R	7.5	66.0 R	63.0	163 R	174
1,2,3,7,8-PeCDD		1.4 U	0.5 U	3.3 R	2.9	1.7 R	2.1 J
1,2,3,4,7,8-HxCDD		1.6 U	0.7 U	6.6 R	6.0	2.0 R	3.0
1,2,3,6,7,8-HxCDD		1.5 R	1.5	43.5 R	43.8	3.6 R	4.5
1,2,3,7,8,9-HxCDD		1.6 R	1.2	15.1 R	13.2	3.8 R	5.2
1,2,3,4,6,7,8-HpCDD		35.8 R	38.3 J	1920 R	2070	106 R	116
1,2,3,4,6,7,8,9-OCDD		291 R	309 J	22180 R	14400	881 R	874
2,3,7,8-TCDF		0.8 U	0.6 U	8.5 R	8.7	8.7 R	10.4
1,2,3,7,8-PeCDF		1.1 U	0.5 U	0.8 U	0.4 U	0.69 R	1.0 J
2,3,4,7,8-PeCDF		1.1 U	0.5 U	0.8 U	0.4 U	1.4 R	1.5 J
1,2,3,4,7,8-HxCDF		3.1 R	2.8	26.6 R	22.6	4.8 R	5.1
1,2,3,6,7,8-HxCDF		0.98 R	0.79	3.3 R	3.7	2.1 R	2.4
2,3,4,6,7,8-HxCDF		1.5 U	1.0	4.1 R	0.6 U	3.1 R	1.1 U
1,2,3,7,8,9-HxCDF		1.3 U	0.7 U	1.0 U	0.7 U	<0.5 R	1.3 U
1,2,3,4,6,7,8-HpCDF		14.8 R	11.8	319 R	255	22.9 R	21.4
1,2,3,4,7,8,9-HpCDF		1.4 U	0.7 U	14.6 R	13.8	1.0 R	1.8
1,2,3,4,6,7,8,9-OCDF		22.4 R	24.8 J	1070 R	1230	45.4 R	59.4
Total TCDD		8.7	7.5	71.6	67.3	171	182
Total PeCDD		1.4 U	0.5 U	7.0	8.0	5.3	10.1
Total HxCDD		14.5	11.9	227	204	42.0	45.3
Total HpCDD		99.3	105	3630	3890	250	289
Total TCDF		6.7	6.1	47.7	37.4	59.6	54.8
Total PeCDF		24.4	22.1	112	97.9	155	127
Total HxCDF		26.3	23.7	333	289	75.3	67.9
Total HpCDF		37.0	29.6	1550	1250	70.0	64.8
Total TEQ		10.2374	9.0638	124.206	113.268	169.6199	181.2354

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

U=non-dete[illegible]=rejected, EDL=estimated detection limit [illegible]RCL DIOX [illegible]

TABLE 1

ON-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	L8027	L8027	L8028	L8028	L8029	L8029
	SAMPLE ID	L8027S1P1	L8027S1P2	L8028S1P1	L8028S1P2	L8029S1P1	L8029S1P2
	DATE / TIME	04/25/97 / 14:35	04/25/97 / 14:36	04/22/97 / 15:30	04/22/97 / 15:31	04/25/97 / 15:30	04/25/97 / 15:31
	DEPTH (ft)	0.00	0.50	0.00	0.50	0.00	0.50
2,3,7,8-TCDD		2.0 R	2.0	0.7 U	1.0 U	5.7 R	6.1
1,2,3,7,8-PeCDD		0.6 U	0.3 U	1.1 U	0.9 U	0.8 U	0.86
1,2,3,4,7,8-HxCDD		1.5 R	1.2	1.6 U	1.5 U	3.5 R	2.8
1,2,3,6,7,8-HxCDD		2.9 R	2.8	1.2 U	1.1 U	8.1 R	7.9
1,2,3,7,8,9-HxCDD		2.4 R	2.6	1.4 U	1.2 U	5.6 R	5.2
1,2,3,4,6,7,8-HpCDD		74.0 R	80.3	17.0 R	16.9	219 R	244
1,2,3,4,6,7,8,9-OCDD		549 R	585	197 R	201	1670 R	1850
2,3,7,8-TCDF		0.70	1.2	0.5 U	0.9 U	0.4 U	0.58
1,2,3,7,8-PeCDF		0.4 U	0.3 U	0.6 U	0.7 U	0.5 U	0.1 U
2,3,4,7,8-PeCDF		0.64 R	0.3 U	0.6 U	0.7 U	0.5 U	0.65
1,2,3,4,7,8-HxCDF		3.7 R	3.2	0.99 R	1.2 U	8.9 R	7.9
1,2,3,6,7,8-HxCDF		1.0 R	0.3 U	(0.61) R	0.9 U	3.2 R	3.0
2,3,4,6,7,8-HxCDF		2.5 R	2.2 U	1.2 R	1.2 U	5.9 R	0.2 U
1,2,3,7,8,9-HxCDF		0.6 U	0.4 U	1.2 U	1.2 U	1.1 U	0.2 U
1,2,3,4,6,7,8-HpCDF		21.5 R	22.7	4.4 R	4.4	94.1 R	102
1,2,3,4,7,8,9-HpCDF		1.4 R	0.88	1.7 U	1.4 U	3.3	2.7
1,2,3,4,6,7,8,9-OCDF		32.9 R	32.8	6.8 R	6.7	167 R	168
Total TCDD		2.8	1.6	0.7 U	1.0 U	5.7	6.1
Total PeCDD		0.74	2.3	1.1 U	0.9 U	4.5	1.4
Total HxCDD		26.0	25.4	1.9	1.7	69.5	63.9
Total HpCDD		151	163	36.5	21.1	562	608
Total TCDF		2.4	5.0	6.3	7.5	3.6	6.1
Total PeCDF		16.7	16.0	36.3	8.5	43.6	42.0
Total HxCDF		37.6	29.4	24.3	19.0	124	110
Total HpCDF		56.3	56.6	11.6	11.6	241	251
Total TEQ		5.3409	4.7566	0.6978	0.4207	14.221	15.098

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() =Less than Reporting Limit

U =non-detect, R =rejected, EDL =estimated detection limit

For RCL DIOX

TABLE 1

ON-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	L8030	L8030	L8031	L8031	L8032	L8032
	SAMPLE ID	L8030S1P1	L8030S1P2	L8031S1P1	L8031S1P2	L8032S1P1	L8032S1P2
	DATE / TIME	04/25/97 / 15:05	04/25/97 / 15:06	04/22/97 / 16:10	04/22/97 / 16:11	04/23/97 / 14:15	04/23/97 / 14:16
	DEPTH (ft)	0.00	0.50	0.00	0.50	0.00	0.50
2,3,7,8-TCDD		0.6 U	0.78	3.5 R	3.6	51.2 R	56.2
1,2,3,7,8-PeCDD		0.8 U	0.54	5.8 R	5.1	(0.53) R	2.9 U
1,2,3,4,7,8-HxCDD		1.9 R	1.7	14.1 R	14.1	0.93 R	3.9 U
1,2,3,6,7,8-HxCDD		10.2 R	9.9	26.5 R	28.2	2.2 R	3.0 U
1,2,3,7,8,9-HxCDD		4.2 R	3.5	32.4 R	31.8	2.1 R	3.3 U
1,2,3,4,6,7,8-HpCDD		431 R	486	857 R	977	76.2 R	79.6
1,2,3,4,6,7,8,9-OCDD		4780 R	5200	8300 R	7710	892 R	985
2,3,7,8-TCDF		0.4 U	0.2 U	1.4 R	1.5	1.5 R	4.0 U
1,2,3,7,8-PeCDF		0.5 U	0.2 U	2.6 R	1.6	0.4 U	2.3 U
2,3,4,7,8-PeCDF		0.5 U	0.2 U	2.1 R	2.2	0.4 U	2.3 U
1,2,3,4,7,8-HxCDF		15.5 R	15.5	29.4 R	27.8	2.3 R	2.7 U
1,2,3,6,7,8-HxCDF		1.3 R	1.4	11.5 R	11.9	(0.36) R	2.0 U
2,3,4,6,7,8-HxCDF		2.5 R	2.3 U	14.6 R	15.3	<0.82 EDL	2.3 U
1,2,3,7,8,9-HxCDF		0.9 U	0.3 U	(0.58) R	0.7 U	0.6 U	2.7 U
1,2,3,4,6,7,8-HpCDF		108 R	111	210 R	214	18.2 R	20.4
1,2,3,4,7,8,9-HpCDF		5.6 R	5.6	13.0 R	13.9	1.2 R	3.1 U
1,2,3,4,6,7,8,9-OCDF		802 R	875	384 R	400	57.4 R	101
Total TCDD		0.6 U	0.78	4.8	3.6	54.1	56.2
Total PeCDD		0.8 U	0.54	30.3	25.6	(0.44)	2.9 U
Total HxCDD		47.3	42.4	318	296	22.7	18.2
Total HpCDD		706	790	2110	2220	186	203
Total TCDF		0.4 U	0.88	15.7	25.5	7.8	4.0 U
Total PeCDF		8.0	6.5	108	94.6	15.4	7.9
Total HxCDF		93.7	93.0	353	343	16.6	6.1
Total HpCDF		714	692	578	555	67.0	68.8
Total TEQ		14.588	16.351	40.112	40.549	54.3094	58.286

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TABLE 1

ON-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	L8033	L8033
	SAMPLE ID	L8033S1P1	L8033S1P2
	DATE / TIME	04/25/97 / 15:55	04/25/97 / 15:56
	DEPTH (ft)	0.00	0.50
2,3,7,8-TCDD		2.0 R	2.4
1,2,3,7,8-PeCDD		1.2	1.2 J
1,2,3,4,7,8-HxCDD		2.9 R	2.6
1,2,3,6,7,8-HxCDD		9.7 R	10.2
1,2,3,7,8,9-HxCDD		8.1 R	7.3
1,2,3,4,6,7,8-HpCDD		193 R	216
1,2,3,4,6,7,8,9-OCDD		1200 R	1320
2,3,7,8-TCDF		0.3 U	0.88
1,2,3,7,8-PeCDF		0.53 R	0.1 U
2,3,4,7,8-PeCDF		0.47	0.56
1,2,3,4,7,8-HxCDF		8.8 R	8.2
1,2,3,6,7,8-HxCDF		2.8 R	3.0
2,3,4,6,7,8-HxCDF		6.2 R	5.8
1,2,3,7,8,9-HxCDF		0.5 U	0.2 U
1,2,3,4,6,7,8-HpCDF		97.1 R	104
1,2,3,4,7,8,9-HpCDF		3.0	2.9
1,2,3,4,6,7,8,9-OCDF		133 R	134
Total TCDD		2.0	2.4
Total PeCDD		7.0	5.2
Total HxCDD		69.2	65.2
Total HpCDD		377	412
Total TCDF		5.7	6.0
Total PeCDF		39.6	15.8
Total HxCDF		112	107
Total HpCDF		234	232
Total TEQ		10.9755	11.761

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For RCL DIOX

TABLE 2

OFF-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	BB001	BB001	BB002	BB002	BB003	BB003
	SAMPLE ID	BB001D1P1	BB001D1P2	BB002D1P1	BB002D1P2	BB003D1P1	BB003D1P2
	DATE / TIME	05/16/97 / 12:47	05/16/97 / 12:48	05/16/97 / 13:25	05/16/97 / 13:26	05/16/97 / 14:05	05/16/97 / 14:06
	DEPTH (ft)	0.00	0.50	0.00	0.50	0.00	0.50
2,3,7,8-TCDD		0.7 U	0.3 U	0.9 U	0.68	1.1 R	1.3
1,2,3,7,8-PeCDD		0.9 U	0.4 U	1.1 U	0.7 U	1.5 R	1.7
1,2,3,4,7,8-HxCDD		(0.83) R	0.75	2.2 R	2.2	5.3 R	5.6
1,2,3,6,7,8-HxCDD		3.3 R	2.6	5.0 R	5.4	18.8 R	20.4
1,2,3,7,8,9-HxCDD		7.2 R	6.8	9.1 R	8.8	23.8 R	22.9
1,2,3,4,6,7,8-HpCDD		102 R	98.7	273 R	290	693 R	807
1,2,3,4,6,7,8,9-OCDD		1530 R	1570	2720 R	2880	9890 R	10350
2,3,7,8-TCDF		0.5 U	0.3 U	0.7 U	(0.31)	(0.78) R	1.6
1,2,3,7,8-PeCDF		0.7 U	0.3 U	0.8 U	0.5 U	0.91 R	0.7 U
2,3,4,7,8-PeCDF		0.7 U	0.3 U	0.7 U	0.5 U	1.3 R	0.7 U
1,2,3,4,7,8-HxCDF		1.1 R	1.0	1.7 R	1.6	9.5 R	11.0
1,2,3,6,7,8-HxCDF		0.53 R	0.36	0.64 R	0.72	3.6 R	4.5
2,3,4,6,7,8-HxCDF		0.98 R	0.91	1.6 R	1.5	7.4 R	7.0
1,2,3,7,8,9-HxCDF		0.7 U	0.4 U	0.8 U	0.6 U	0.8 U	0.9 U
1,2,3,4,6,7,8-HpCDF		10.7 R	10.6	28.3 R	22.5	143 R	126
1,2,3,4,7,8,9-HpCDF		(0.85) R	0.96	2.0 R	1.9	11.7 R	12.9
1,2,3,4,6,7,8,9-OCDF		34.6 R	36.8	79.5 R	97.2	465 R	609
Total TCDD		21.6	18.2	16.2	16.8	39.3	37.9
Total PeCDD		26.4	28.5	14.4	13.4	32.5	15.2
Total HxCDD		143	142	150	151	221	239
Total HpCDD		235	228	1340	1460	1410	1870
Total TCDF		0.61	0.55	0.92	0.91	6.9	1.6
Total PeCDF		1.7	2.6	3.3	3.8	26.9	23.2
Total HxCDF		14.5	12.9	28.1	28.5	135	169
Total HpCDF		32.5	32.1	96.8	80.2	476	499
Total TEQ		4.0941	3.9514	7.8565	8.8542	28.2955	29.868

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TABLE 2

OFF-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	BB004	BB004	BB005	BB005	BC001	BC001
	SAMPLE ID	BB004D1P1	BB004D1P2	BB005D1P1	BB005D1P2	BC001D1P1	BC001D1P2
	DATE / TIME	05/16/97 / 15:24	05/16/97 / 15:25	05/16/97 / 15:38	05/16/97 / 15:39	04/29/97 / 09:30	04/29/97 / 09:31
	DEPTH (ft)	0.00	0.50	0.00	0.50	0.00	0.50
2,3,7,8-TCDD		0.6 U	0.3 U	(0.62) R	3.6 U	0.9 U	0.3 UJ
1,2,3,7,8-PeCDD		0.8 U	0.4 U	3.3 R	5.6 U	1.3 U	0.4 U
1,2,3,4,7,8-HxCDD		1.2 R	1.1	9.7 R	5.2 U	1.6 U	0.6 U
1,2,3,6,7,8-HxCDD		6.5 R	6.9	47.7 R	36.2	1.1 U	1.6 J
1,2,3,7,8,9-HxCDD		4.2 R	4.1	28.7 R	22.4	1.3 U	1.6
1,2,3,4,6,7,8-HpCDD		210 R	225	1510 R	1530	51.3 R	49.9
1,2,3,4,6,7,8,9-OCDD		2450 R	2610	18850 R	18990	411 R	452
2,3,7,8-TCDF		0.67 R	0.3 U	2.9 R	3.2 U	0.7 U	0.3 UJ
1,2,3,7,8-PeCDF		0.6 U	0.3 U	2.9 R	3.8 U	0.9 U	0.3 U
2,3,4,7,8-PeCDF		0.6 U	0.3 U	3.9 R	3.6 U	0.9 U	0.3 U
1,2,3,4,7,8-HxCDF		5.0 R	5.1	33.4 R	34.5	2.9 R	2.5 J
1,2,3,6,7,8-HxCDF		2.0 R	2.4	14.7 R	18.7	0.8 U	0.69
2,3,4,6,7,8-HxCDF		3.5 R	3.4	26.3 R	21.1	1.1 U	1.3
1,2,3,7,8,9-HxCDF		0.6 U	0.4 U	(1.4) R	4.8 U	1.2 U	0.5 U
1,2,3,4,6,7,8-HpCDF		82.5 R	70.5	568 R	442	10.2 R	10.8
1,2,3,4,7,8,9-HpCDF		6.0 R	5.7	38.9 R	17.9	1.9 U	0.97
1,2,3,4,6,7,8,9-OCDF		217 R	262	1550 R	2160	24.3 R	31.0
Total TCDD		3.5	3.2	38.1	22.2	0.9 U	0.3 U
Total PeCDD		1.4	1.7	48.7	47.1	1.3 U	2.5
Total HxCDD		54.6	53.4	389	178	9.3	10.8
Total HpCDD		444	481	3260	3430	103	103
Total TCDF		0.57	0.67	19.6	3.2 U	0.7 U	1.4
Total PeCDF		10.5	9.8	81.4	73.9	2.3	1.4
Total HxCDF		84.9	86.9	596	546	15.7	10.1
Total HpCDF		289	259	2120	1690	34.7	23.2
Total TEQ		7.959	8.184	62.414	54.339	1.3403	1.8687

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TABLE 2

OFF-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	BC002	BC002	BC003	BC004	BC005	C1001
	SAMPLE ID	BC002D1P1	BC002D1P2	BC003D1P1	BC004D1P1	BC005D1P1	C1001D1P1
	DATE / TIME	04/29/97 / 10:45	04/29/97 / 10:46	05/19/97 / 12:00	05/19/97 / 11:30	05/19/97 / 11:00	04/23/97 / 09:00
	DEPTH (ft)	0.00	0.50	0.00	0.00	0.00	0.00
2,3,7,8-TCDD		0.4 U	0.3 U	0.8 U	0.60	9.6 U	0.6 U
1,2,3,7,8-PeCDD		0.7 U	0.3 U	2.3	2.1	16.5 U	3.8 R
1,2,3,4,7,8-HxCDD		1.0 U	0.5 U	4.2	4.9	13.0 U	3.8 R
1,2,3,6,7,8-HxCDD		1.4 R	1.6	14.4	14.3	11.9 U	6.2 R
1,2,3,7,8,9-HxCDD		0.8 U	0.4 U	11.5	17.1	11.5 U	8.1 R
1,2,3,4,6,7,8-HpCDD		26.3 R	26.7	440	402	86.0	92.6 R
1,2,3,4,6,7,8,9-OCDD		192 R	174	5740	4740	1880	762 R
2,3,7,8-TCDF		0.3 U	0.3 U	2.6	3.3	7.9 U	0.5 U
1,2,3,7,8-PeCDF		0.4 U	0.2 U	2.3	1.9	10.3 U	0.6 U
2,3,4,7,8-PeCDF		0.5 U	0.35	1.8	2.2	10.0 U	0.6 U
1,2,3,4,7,8-HxCDF		1.4 R	1.2	10.6	8.8	9.5 U	6.4 R
1,2,3,6,7,8-HxCDF		0.4 U	0.3 U	5.5	4.1	7.7 U	1.4 R
2,3,4,6,7,8-HxCDF		0.6 U	0.4 U	5.7	6.0	9.5 U	2.2 R
1,2,3,7,8,9-HxCDF		0.7 U	0.5 U	0.9 U	0.6 U	10.5 U	1.0 U
1,2,3,4,6,7,8-HpCDF		3.9 R	4.7	72.2	62.2	15.8	25.5 R
1,2,3,4,7,8,9-HpCDF		1.1 U	0.6 U	5.4	4.3	12.8 U	1.9 R
1,2,3,4,6,7,8,9-OCDF		6.6 R	8.3	482	281	25.5 U	50.1 R
Total TCDD		0.4 U	0.3 U	3.8	9.8	9.6 U	0.85
Total PeCDD		0.7 U	0.3 U	13.6	18.2	16.5 U	5.8
Total HxCDD		3.2	3.7	85.7	173	12.1 U	46.7
Total HpCDD		46.6	45.9	665	721	182	176
Total TCDF		0.3 U	0.3 U	20.7	21.9	7.9 U	3.8
Total PeCDF		1.2	2.7	43.1	46.0	10.1 U	13.8
Total HxCDF		6.2	7.5	105	105	9.2 U	45.5
Total HpCDF		15.0	14.4	209	189	15.8	27.5
Total TEQ		0.7806	0.9513	19.013	18.401	2.898	6.7221

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U = non-dete[illegible] = rejected, EDL = estimated detection limit

TABLE 2

OFF-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	C1001	C1002	C1002	C1003	C1003	C1005
	SAMPLE ID	C1001D1P2	C1002D1P1	C1002D1P2	C1003D1P1	C1003D1P2	C1005D1P1
	DATE / TIME	04/23/97 / 09:01	04/24/97 / 09:30	04/24/97 / 09:31	04/22/97 / 13:45	04/22/97 / 13:46	04/23/97 / 10:45
	DEPTH (ft)	0.50	0.00	0.50	0.00	0.50	0.00
2,3,7,8-TCDD		0.4 U	3.1 R	4.5 U	4.1 R	5.5	1.0 R
1,2,3,7,8-PeCDD		1.9	0.85 R	3.3 U	1.3 R	0.8 U	1.1 U
1,2,3,4,7,8-HxCDD		2.9	1.4 R	4.0 U	3.4 R	3.0	1.4 U
1,2,3,6,7,8-HxCDD		6.0	3.2 R	3.7 U	7.1 R	7.4	1.2 R
1,2,3,7,8,9-HxCDD		6.0	5.1 R	3.6 U	8.0 R	6.8	2.2 R
1,2,3,4,6,7,8-HpCDD		98.2	86.6 R	85.8 J	195 R	208	40.4 R
1,2,3,4,6,7,8,9-OCDD		749	1150 R	1340 J	1760 R	1860	392 R
2,3,7,8-TCDF		0.59	0.78 R	4.5 U	1.8 R	2.2	0.5 U
1,2,3,7,8-PeCDF		0.3 U	0.5 U	3.0 U	0.4 U	0.6 U	0.6 U
2,3,4,7,8-PeCDF		0.3 U	0.5 U	2.9 U	0.69 R	0.6 U	0.6 U
1,2,3,4,7,8-HxCDF		5.6	14.2 R	17.8	4.2 R	4.3	1.3 R
1,2,3,6,7,8-HxCDF		1.6	1.1 R	2.9 U	2.4 R	2.3	(0.52) R
2,3,4,6,7,8-HxCDF		0.74	1.4 U	3.6 U	1.7 R	3.2	0.95 R
1,2,3,7,8,9-HxCDF		0.6 U	0.8 U	4.0 U	0.9 U	1.2 U	1.0 U
1,2,3,4,6,7,8-HpCDF		22.2	19.4 R	14.3	32.8 R	32.2	6.0 R
1,2,3,4,7,8,9-HpCDF		2.0	2.0 R	3.6 U	2.4 R	2.8	1.3 U
1,2,3,4,6,7,8,9-OCDF		51.6	29.7 R	49.7 J	79.2 R	83.2	18.6 R
Total TCDD		0.4 U	6.3	4.5 U	1.2	5.5	1.0
Total PeCDD		1.7	1.7	3.3 U	0.83	1.4	1.1 U
Total HxCDD		37.4	31.0	20.1	69.7	58.1	18.0
Total HpCDD		184	181	186	521	474	162
Total TCDF		3.3	9.1	4.5 U	5.3	11.0	0.5 U
Total PeCDF		7.4	30.7	5.7	18.9	12.4	3.5
Total HxCDF		30.8	32.5	27.5	50.2	46.0	10.7
Total HpCDF		22.2	47.8	46.7	113	93.3	22.4
Total TEQ		5.3176	8.3627	4.1707	12.0962	12.7932	2.4916

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TABLE 2

OFF-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	C1005	C1006	C1006	TC001	TC001	TC002
	SAMPLE ID	C1005D1P2	C1006D1P1	C1006D1P2	TC001D1P1	TC001D1P2	TC002D1P1
	DATE / TIME	04/23/97 / 10:46	04/23/97 / 13:30	04/23/97 / 13:31	04/25/97 / 15:30	04/25/97 / 15:31	04/25/97 / 15:30
	DEPTH (ft)	0.50	0.00	0.50	0.00	0.50	0.00
2,3,7,8-TCDD		0.86	0.6 U	0.3 U	0.4 U	0.2 U	0.3 U
1,2,3,7,8-PeCDD		0.3 U	1.0 U	0.3 U	0.62 R	0.2 U	0.4 U
1,2,3,4,7,8-HxCDD		(0.46)	1.0 U	0.4 U	1.2 R	0.72	0.6 U
1,2,3,6,7,8-HxCDD		1.2	0.8 U	0.4 U	1.8 R	1.6	0.5 U
1,2,3,7,8,9-HxCDD		1.6	1.3 R	1.4	8.2 R	8.1	2.6 R
1,2,3,4,6,7,8-HpCDD		41.6	11.9 R	13.1	48.8 R	51.2	11.5 R
1,2,3,4,6,7,8,9-OCDD		413	142 R	151	614 R	632	143 R
2,3,7,8-TCDF		0.4 U	0.4 U	0.3 U	0.3 U	0.2 U	0.2 U
1,2,3,7,8-PeCDF		0.3 U	0.6 U	0.2 U	0.4 U	0.2 U	0.3 U
2,3,4,7,8-PeCDF		0.3 U	0.6 U	0.2 U	0.4 U	0.2 U	0.3 U
1,2,3,4,7,8-HxCDF		0.4 U	0.7 U	1.1	0.6 U	0.2 U	0.4 U
1,2,3,6,7,8-HxCDF		0.4 U	0.6 U	0.3 U	(0.17) R	0.25	0.3 U
2,3,4,6,7,8-HxCDF		0.4 U	0.8 U	0.4 U	<0.54 EDL	0.37 U	<0.64 EDL
1,2,3,7,8,9-HxCDF		0.5 U	0.9 U	0.4 U	0.7 U	0.2 U	0.5 U
1,2,3,4,6,7,8-HpCDF		5.2	2.5 R	2.8	0.8 U	0.2 U	0.58 R
1,2,3,4,7,8,9-HpCDF		0.77	1.2 U	1.0	1.1 U	0.3 U	0.7 U
1,2,3,4,6,7,8,9-OCDF		18.8	5.0 R	7.0	1.2 U	0.3 U	(0.69) R
Total TCDD		0.86	0.6 U	0.3 U	10.2	10.2	0.64
Total PeCDD		1.1	1.0 U	0.84	26.1	23.8	1.3
Total HxCDD		16.0	9.7	5.8	174	144	17.8
Total HpCDD		170	24.2	27.3	229	232	29.7
Total TCDF		0.97	0.4 U	0.3 U	0.48	1.3	0.2 U
Total PeCDF		1.9	0.6 U	7.0	0.4 U	0.2 U	0.3 U
Total HxCDF		7.1	1.1	5.9	(0.54)	0.62	0.64
Total HpCDF		5.2	7.1	8.0	0.9 U	0.3 U	(0.58)
Total TEQ		2.0935	0.421	0.577	2.549	2.211	0.52449

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TABLE 2

OFF-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	TC002	TC004	TC005	TC006	TC007	TC008
	SAMPLE ID	TC002D1P2	TC004D1P1	TC005D1P1	TC006D1P1	TC007D1P1	TC008D1P1
	DATE / TIME	04/25/97 / 15:31	04/28/97 / 14:20	04/28/97 / 11:00	05/14/97 / 14:30	05/14/97 / 15:15	05/14/97 / 15:30
	DEPTH (ft)	0.50	0.00	0.00	0.00	0.00	0.00
2,3,7,8-TCDD		0.3 U	0.73 R	0.3 U	0.9 U	0.4 U	0.8 U
1,2,3,7,8-PeCDD		0.2 U	2.1 R	0.4 U	1.3 U	0.5 U	1.1 U
1,2,3,4,7,8-HxCDD		0.3 U	4.4 R	0.66 R	1.5 U	0.63	1.4 U
1,2,3,6,7,8-HxCDD		0.2 U	7.9 R	0.87 R	1.4 U	2.1	1.2 U
1,2,3,7,8,9-HxCDD		2.3	39.0 R	2.4 R	3.4	12.8	3.8
1,2,3,4,6,7,8-HpCDD		12.4	208 R	26.0 R	29.6	121	65.2
1,2,3,4,6,7,8,9-OCDD		152	2080 R	947 R	407	3550	674
2,3,7,8-TCDF		0.2 U	0.4 U	0.2 U	0.7 U	0.4 U	0.6 U
1,2,3,7,8-PeCDF		0.2 U	0.4 U	0.3 U	0.9 U	0.4 U	0.8 U
2,3,4,7,8-PeCDF		0.2 U	0.4 U	0.3 U	0.8 U	0.4 U	0.7 U
1,2,3,4,7,8-HxCDF		0.2 U	0.6 U	0.33 R	1.1 U	0.59	0.9 U
1,2,3,6,7,8-HxCDF		0.2 U	1.2 R	0.2 U	0.9 U	0.4 U	0.7 U
2,3,4,6,7,8-HxCDF		0.37 U	0.77 R	0.50 R	1.1 U	0.72	0.9 U
1,2,3,7,8,9-HxCDF		0.2 U	0.7 U	0.4 U	1.2 U	0.5 U	1.0 U
1,2,3,4,6,7,8-HpCDF		0.50	0.8 U	0.83 R	2.6	1.3	6.7 U
1,2,3,4,7,8,9-HpCDF		0.3 U	1.1 U	0.6 U	1.6 U	0.7 U	1.4 U
1,2,3,4,6,7,8,9-OCDF		0.3 U	1.2 U	0.91 R	3.0 U	2.4	26.6 U
Total TCDD		1.2	177	8.6	12.3	7.5	87.2
Total PeCDD		3.0	479	4.1	8.0	6.6	48.3
Total HxCDD		11.9	2450	9.7	63.4	74.1	89.9
Total HpCDD		29.8	1710	64.3	92.3	242	258
Total TCDF		0.2 U	1.5	17.2	0.7 U	0.4 U	1.4
Total PeCDF		0.2 U	0.4 U	0.73	0.9 U	0.46	1.2
Total HxCDF		0.66	2.0	1.4	1.1 U	1.9	8.2
Total HpCDF		1.4	(0.80)	1.7	2.6	1.8	20.1
Total TEQ		0.511	11.267	1.69221	1.069	6.4594	1.706

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TABLE 2

OFF-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	TC009	TC009	TC010	TC010	WL001	WL001
	SAMPLE ID	TC009D1P1	TC009D1P2	TC010D1P1	TC010D1P2	WL001D1P1	WL001D1P2
	DATE / TIME	05/16/97 / 09:35	05/16/97 / 09:36	05/16/97 / 09:58	05/16/97 / 09:59	05/16/97 / 14:00	05/16/97 / 14:01
	DEPTH (ft)	0.00	0.50	0.00	0.50	0.00	0.50
2,3,7,8-TCDD		1.4 R	1.0	0.9 U	0.3 U	12.1 R	11.7
1,2,3,7,8-PeCDD		0.9 U	0.7 U	1.2 U	0.4 U	0.8 U	0.8 U
1,2,3,4,7,8-HxCDD		(0.95) R	(0.78)	1.2 U	0.5 U	1.4 R	1.4
1,2,3,6,7,8-HxCDD		2.9 R	2.3	1.1 U	0.4 U	4.3 R	3.6
1,2,3,7,8,9-HxCDD		7.7 R	7.6	1.0 R	1.2	3.6 R	4.1
1,2,3,4,6,7,8-HpCDD		101 R	101	13.1 R	11.9	119 R	110
1,2,3,4,6,7,8,9-OCDD		1530 R	1590	277 R	290	1080 R	1060
2,3,7,8-TCDF		0.87 R	0.50	0.7 U	0.3 U	5.4 R	4.7
1,2,3,7,8-PeCDF		0.7 U	0.5 U	0.9 U	0.3 U	0.6 U	0.6 U
2,3,4,7,8-PeCDF		0.7 U	0.5 U	0.9 U	0.3 U	0.6 U	0.6 U
1,2,3,4,7,8-HxCDF		2.0 R	2.0	0.9 U	0.3 U	2.1 R	2.2
1,2,3,6,7,8-HxCDF		1.0 R	1.2	0.7 U	0.3 U	1.7 R	1.6
2,3,4,6,7,8-HxCDF		1.8 R	1.5	0.9 U	0.45	2.3 R	2.5
1,2,3,7,8,9-HxCDF		0.9 U	0.7 U	1.0 U	0.4 U	0.7 U	0.7 U
1,2,3,4,6,7,8-HpCDF		13.6 R	13.5	(0.66) R	0.42	28.9 R	32.1
1,2,3,4,7,8,9-HpCDF		1.4 R	1.0 U	1.3 U	0.6 U	2.3 R	1.8
1,2,3,4,6,7,8,9-OCDF		33.6 R	36.4	(1.8) R	1.9	102 R	94.0
Total TCDD		10.6	8.7	(0.78)	0.82	14.0	13.3
Total PeCDD		5.9	10.1	1.2 U	0.81	4.1	1.8
Total HxCDD		75.8	66.8	9.7	9.7	32.7	32.2
Total HpCDD		232	233	30.0	28.5	238	218
Total TCDF		0.87	1.2	0.7 U	0.3 U	10.8	5.9
Total PeCDF		3.2	2.5	0.9 U	0.3 U	16.7	15.8
Total HxCDF		20.7	19.4	(0.67)	0.45	42.9	37.8
Total HpCDF		39.2	25.1	1.7	1.5	93.2	93.3
Total TEQ		5.8455	5.3594	0.5164	0.5801	16.864	16.303

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TABLE 2

OFF-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	WL002	WL002	WL002	WL003	WL003	WL004
	SAMPLE ID	WL002D1P1	WL002D1P2	WL002D1P3	WL003D1P1	WL003D1P2	WL004D1P1
	DATE / TIME	05/16/97 / 14:20	05/16/97 / 14:21	06/26/97 / 13:10	05/16/97 / 14:39	05/16/97 / 14:41	05/16/97 / 15:00
	DEPTH (ft)	0.00	0.50	0.00	0.00	0.50	0.00
2,3,7,8-TCDD		69.3 R	66.8	70.3	56.6 R	54.9	137.7 R
1,2,3,7,8-PeCDD		4.2 R	3.7	3.4	2.6 R	2.2	5.8 R
1,2,3,4,7,8-HxCDD		8.6 R	9.0	9.0	3.7 R	4.0	11.6 R
1,2,3,6,7,8-HxCDD		27.1 R	25.8	20.4	10.7 R	10.7	31.5 R
1,2,3,7,8,9-HxCDD		24.4 R	24.6	21.7	10.0 R	9.9	29.4 R
1,2,3,4,6,7,8-HpCDD		746 R	772	586	275 R	284	849 R
1,2,3,4,6,7,8,9-OCDD		6650 R	7210	5250	2120 R	2240	7000 R
2,3,7,8-TCDF		26.6 R	29.9	30.5	27.3 R	26.7	50.8 R
1,2,3,7,8-PeCDF		2.9 R	2.3	2.4	1.2 R	0.80	2.8 R
2,3,4,7,8-PeCDF		1.7 R	1.9	1.6	0.88 R	1.0	2.5 R
1,2,3,4,7,8-HxCDF		10.7 R	10.4	8.4	4.5 R	4.7	12.4 R
1,2,3,6,7,8-HxCDF		11.4 R	10.6	7.9	4.2 R	4.5	14.5 R
2,3,4,6,7,8-HxCDF		11.9 R	11.2	10.6	5.3 R	5.2	14.6 R
1,2,3,7,8,9-HxCDF		1.9 U	1.1 U	0.6 U	0.8 U	(0.27)	(0.54) R
1,2,3,4,6,7,8-HpCDF		133 R	137	136	59.6 R	58.7	157 R
1,2,3,4,7,8,9-HpCDF		11.1 R	11.6	8.1	5.2 R	4.2	12.7 R
1,2,3,4,6,7,8,9-OCDF		451 R	538	389	190 R	212	524 R
Total TCDD		76.9	69.1	81.6	61.6	62.3	157.1
Total PeCDD		27.2	21.5	25.7	13.3	13.3	37.7
Total HxCDD		216	207	188	80.1	85.2	254
Total HpCDD		1500	1600	1200	533	551	1690
Total TCDF		64.3	56.0	60.7	51.8	55.9	123
Total PeCDF		82.2	74.4	81.9	47.9	48.8	127
Total HxCDF		220	208	178	93.6	93.3	232
Total HpCDF		436	447	390	185	59.3	503
Total TEQ		99.067	98.819	96.71	70.678	69.058	176.235

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TABLE 2

OFF-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	WL004	WL005	WL006	WL007	WL008	WL009
	SAMPLE ID	WL004D1P2	WL005D1P1	WL006D1P1	WL007D1P1	WL008D1P1	WL009D1P1
	DATE / TIME	05/16/97 / 15:01	05/17/97 / 10:45	05/17/97 / 10:45	05/17/97 / 10:55	05/17/97 / 10:55	05/17/97 / 11:10
	DEPTH (ft)	0.50	0.00	0.00	0.00	0.00	0.00
2,3,7,8-TCDD		133	136	109	176	212	0.4 U
1,2,3,7,8-PeCDD		5.2	4.4	4.6	7.2	6.5	0.5 U
1,2,3,4,7,8-HxCDD		11.8	9.0	9.2	15.9	12.1	0.8 U
1,2,3,6,7,8-HxCDD		31.9	24.8	27.0	42.9	33.1	0.86
1,2,3,7,8,9-HxCDD		28.7	21.9	17.0	33.3	20.4	6.2
1,2,3,4,6,7,8-HpCDD		883	626	745	1170	809	45.3
1,2,3,4,6,7,8,9-OCDD		7610	5130	8610 J	10980 J	6840 J	932
2,3,7,8-TCDF		49.8	66.1	40.7	55.6	77.2	0.3 U
1,2,3,7,8-PeCDF		2.3	5.3	2.3	3.4	3.2	0.4 U
2,3,4,7,8-PeCDF		2.2	5.4	3.9	3.7	3.2	0.4 U
1,2,3,4,7,8-HxCDF		13.3	31.7	22.0	22.7	15.9	0.5 U
1,2,3,6,7,8-HxCDF		14.5	17.7	12.3	16.2	14.7	0.4 U
2,3,4,6,7,8-HxCDF		15.2	17.9	11.9	9.4	12.5	0.62 U
1,2,3,7,8,9-HxCDF		1.1	0.89	0.98	0.98	0.84	0.5 U
1,2,3,4,6,7,8-HpCDF		162	246	289	218	169	1.00
1,2,3,4,7,8,9-HpCDF		11.9	14.9	13.5	17.7	10.8	0.7 U
1,2,3,4,6,7,8,9-OCDF		623	801	1690 J	1220 J	1950 J	1.0 U
Total TCDD		150	153	125	198	236	3.6
Total PeCDD		39.9	7.8	19.6	27.8	22.3	4.7
Total HxCDD		258	167	142	243	158	30.1
Total HpCDD		1880	1030	1000	1700	937	86.6
Total TCDF		120	194	110	134	195	3.4
Total PeCDF		125	224	110	146	177	0.67
Total HxCDF		270	349	263	341	292	0.62
Total HpCDF		514	600	757	701	501	1.0
Total TEQ		172.247	174.964	148.248	227.575	254.362	2.101

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TABLE 2

OFF-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	WL010	WM001	WM001	WM002	WM002	WM003
	SAMPLE ID	WL010D1P1	WM001D1P1	WM001D1P2	WM002D1P1	WM002D1P2	WM003D1P1
	DATE / TIME	05/17/97 / 11:05	04/23/97 / 15:30	04/23/97 / 15:31	04/24/97 / 11:00	04/24/97 / 11:01	04/23/97 / 14:30
	DEPTH (ft)	0.00	0.00	0.50	0.00	0.50	0.00
2,3,7,8-TCDD		8.4	4.8 R	5.3	6.7 R	6.4	0.5 U
1,2,3,7,8-PeCDD		1.0 U	0.9 U	0.7 U	1.1 R	1.9	0.9 U
1,2,3,4,7,8-HxCDD		1.1	3.3 R	1.2 U	3.3 R	2.8	1.1 U
1,2,3,6,7,8-HxCDD		3.3	6.9 R	7.0	7.2 R	7.6	0.8 U
1,2,3,7,8,9-HxCDD		3.5	7.3 R	6.3	8.6 R	7.2	4.1 R
1,2,3,4,6,7,8-HpCDD		72.2	194 R	201	190 R	212	27.3 R
1,2,3,4,6,7,8,9-OCDD		581	1710 R	1740	1580 R	1840	418 R
2,3,7,8-TCDF		3.3	1.5 R	1.0 U	(1.3) R	1.9	0.3 U
1,2,3,7,8-PeCDF		0.7 U	0.5 U	0.6 U	0.44 R	0.70	0.5 U
2,3,4,7,8-PeCDF		0.7 U	0.5 U	0.6 U	0.78 R	0.85	0.5 U
1,2,3,4,7,8-HxCDF		1.7	8.0 R	7.0	5.6 R	5.3	0.7 U
1,2,3,6,7,8-HxCDF		0.6 U	1.9 R	2.1	2.4 R	2.5	0.5 U
2,3,4,6,7,8-HxCDF		1.8 U	2.0 R	3.6	0.6 U	2.2	0.7 U
1,2,3,7,8,9-HxCDF		0.8 U	0.7 U	1.0 U	0.6 U	0.7 U	0.8 U
1,2,3,4,6,7,8-HpCDF		14.1	53.6 R	44.7	49.6 R	42.3	2.4 R
1,2,3,4,7,8,9-HpCDF		1.0 U	3.5 R	3.5	2.8 R	3.6	1.1 U
1,2,3,4,6,7,8,9-OCDF		57.6	152 R	164	106 R	156	4.1 R
Total TCDD		8.4	5.5	5.3	10.1	8.0	0.89
Total PeCDD		1.6	2.5	0.7 U	7.2	6.9	17.2
Total HxCDD		20.9	63.5	44.1	75.4	63.7	108
Total HpCDD		146	447	478	426	445	116
Total TCDF		5.6	8.6	4.3	9.0	3.6	0.49
Total PeCDF		11.0	21.5	13.8	21.6	17.1	0.81
Total HxCDF		23.7	62.8	56.8	67.3	60.7	1.6
Total HpCDF		46.0	181	164	131	133	6.8
Total TEQ		11.1916	12.263	12.296	14.612	15.335	1.1291

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U = non-detect, R = rejected, EDL = estimated detection limit

TABLE 2

OFF-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(soil/sediment)

Date: 10/03/97

CONSTITUENT (Units in ng/kg)	SITE	WM003	WM004	WM004	WM005	WM005
	SAMPLE ID	WM003D1P2	WM004D1P1	WM004D1P2	WM005D1P1	WM005D1P2
	DATE / TIME	04/23/97 / 14:31	04/24/97 / 14:30	04/24/97 / 14:31	04/24/97 / 15:15	04/24/97 / 15:16
	DEPTH (ft)	0.50	0.00	0.50	0.00	0.50
2,3,7,8-TCDD		0.6 U	0.56 R	0.8 U	0.49 R	2.2 U
1,2,3,7,8-PeCDD		0.5 U	0.3 U	0.8 U	0.3 U	2.1 U
1,2,3,4,7,8-HxCDD		0.8 U	0.35 R	1.0 U	0.56 R	2.5 U
1,2,3,6,7,8-HxCDD		0.7 U	0.52 R	0.9 U	1.4 R	2.3 U
1,2,3,7,8,9-HxCDD		3.3	0.68 R	0.9 U	6.1 R	4.5
1,2,3,4,6,7,8-HpCDD		29.4	12.9 R	13.0	44.8 R	49.0
1,2,3,4,6,7,8,9-OCDD		439	109 R	122	847 R	926 J
2,3,7,8-TCDF		0.6 U	0.2 U	0.8 U	0.42 R	2.0 U
1,2,3,7,8-PeCDF		0.4 U	0.2 U	0.7 U	0.2 U	1.7 U
2,3,4,7,8-PeCDF		0.4 U	0.2 U	0.7 U	0.2 U	1.7 U
1,2,3,4,7,8-HxCDF		0.7 U	0.45 R	0.9 U	0.31 R	2.0 U
1,2,3,6,7,8-HxCDF		0.6 U	0.22 R	0.7 U	0.23 R	1.6 U
2,3,4,6,7,8-HxCDF		0.7 U	<0.43 EDL	0.9 U	<0.58 EDL	2.0 U
1,2,3,7,8,9-HxCDF		0.8 U	0.3 U	1.0 U	0.3 U	2.2 U
1,2,3,4,6,7,8-HpCDF		2.4	3.5 R	3.1	2.3 R	2.3
1,2,3,4,7,8,9-HpCDF		0.9 U	0.4 U	1.0 U	0.5 U	2.3 U
1,2,3,4,6,7,8,9-OCDF		1.0	5.8 R	7.1	4.2 R	6.0 J
Total TCDD		4.3	0.2 U	0.8 U	5.1	4.9
Total PeCDD		10.6	0.3 U	0.8 U	5.1	2.1 U
Total HxCDD		88.8	7.7	3.5	52.2	8.0
Total HpCDD		128	27.6	29.1	94.6	101
Total TCDF		0.6 U	0.2 U	0.8 U	1.1	2.0 U
Total PeCDF		0.4 U	1.4	0.7 U	0.62	1.7 U
Total HxCDF		1.6 M	4.5	2.1	4.3	1.9 U
Total HpCDF		5.7 M	3.5	8.7	3.9	5.2
Total TEQ		1.091	1.0608	0.2901	2.7142	1.895

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

U=non-det[illegible]=rejected, EDL=estimated detection limit

TABLE 3

ON-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in pg/L)	SITE	D1001	D1001	D1003	D1003	D1005	D1005
	SAMPLE ID	D1001W1P1	D1001W1P3	D1003W1P1	D1003W1D1	D1005W1P1	D1005W1P2
	DATE	04/10/97	06/26/97	04/10/97	04/10/97	04/10/97	04/10/97
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
2,3,7,8-TCDD		1.7 U	6.6	3.0 U	3.8 U	2.6 R	26.3 U
1,2,3,7,8-PeCDD		2.5 U	3.1 U	4.3 U	5.7 U	3.5 U	16.2 U
1,2,3,4,7,8-HxCDD		3.1 U	4.9 U	4.6 U	5.7 U	4.1 U	15.9 U
1,2,3,6,7,8-HxCDD		2.9 U	4.1 U	3.6 U	4.5 U	3.3 U	12.4 U
1,2,3,7,8,9-HxCDD		2.8 U	4.3 U	3.9 U	5.0 U	3.6 U	13.6 U
1,2,3,4,6,7,8-HpCDD		4.1 U	6.8	5.0 U	6.7 U	16.3 R	14.3 U
1,2,3,4,6,7,8,9-OCDD		29.2	43.6	8.7 U	12.4 U	105 R	88.5 U
2,3,7,8-TCDF		1.5 U	3.2 U	2.1 U	2.9 U	1.9 U	17.6 U
1,2,3,7,8-PeCDF		1.8 U	2.4 U	2.7 U	3.6 U	2.1 U	13.2 U
2,3,4,7,8-PeCDF		1.8 U	2.6 U	2.6 U	3.6 U	2.0 U	13.0 U
1,2,3,4,7,8-HxCDF		2.3 U	3.7 U	2.6 U	3.4 U	2.5 U	12.1 U
1,2,3,6,7,8-HxCDF		1.9 U	3.0 U	2.0 U	2.6 U	1.9 U	9.1 U
2,3,4,6,7,8-HxCDF		3.2	4.8 U	2.6 U	4.1 R	4.6 U	12.1 U
1,2,3,7,8,9-HxCDF		2.6 U	4.5 U	2.9 U	3.8 U	2.8 U	13.6 U
1,2,3,4,6,7,8-HpCDF		2.3 U	3.7 U	3.0 U	4.1 U	6.9 R	12.2 U
1,2,3,4,7,8,9-HpCDF		3.6 U	5.2 U	4.3 U	5.8 U	3.9 U	16.5 U
1,2,3,4,6,7,8,9-OCDF		4.6 U	6.4 U	6.4 U	9.1 U	25.6 R	23.4
Total TCDD		1.7 U	6.6	3.0 U	3.8 U	2.6	26.3 U
Total PeCDD		2.5 U	3.1 U	4.3 U	5.7 U	3.5 U	16.2 U
Total HxCDD		2.9 U	4.4 U	4.0 U	5.0 U	3.6 U	13.8 U
Total HpCDD		4.1 U	14.4	5.0 U	6.7 U	38.1	20.7
Total TCDF		1.5 U	3.2 U	2.1 U	2.9 U	1.9 U	17.6 U
Total PeCDF		(1.6)	2.5 U	2.7 U	3.6 U	2.0 U	13.1 U
Total HxCDF		3.2	4.8	2.5 U	4.1	8.8	11.5 U
Total HpCDF		2.8 U	4.3 U	3.5 U	4.8 U	6.9	14.0 U
Total TEQ		0.3492	6.7116	0	0.41	2.9626	0.0234

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

( ) =Less than Reporting Limit

U =non-detect, R =rejected

TABLE 3

ON-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in pg/L)	SITE	D1008	D1010	D1013	D2003	D2003	D2006
	SAMPLE ID	D1008W1P1	D1010W1P1	D1013W1P1	D2003W1P1	D2003W1P2	D2006W1P1
	DATE	04/09/97	04/09/97	04/09/97	04/04/97	04/04/97	04/04/97
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
2,3,7,8-TCDD		1.8 U	1.9 U	1.7 U	6.1 R	8.7 U	4.5 R
1,2,3,7,8-PeCDD		2.8 U	2.7 U	2.4 U	20.3 R	21.1	9.8 R
1,2,3,4,7,8-HxCDD		3.3 U	3.3 U	2.9 U	16.4 R	7.5 U	10 R
1,2,3,6,7,8-HxCDD		3.0 U	3.0 U	2.7 U	11.8 R	20.8	11.1 R
1,2,3,7,8,9-HxCDD		2.9 U	2.9 U	2.6 U	20.2 R	20.5	10.8 R
1,2,3,4,6,7,8-HpCDD		6.8	5.3	4.1	90.4 R	114	7.6 R
1,2,3,4,6,7,8,9-OCDD		46.9	32.2	25.6	599 R	700	24.6 R
2,3,7,8-TCDF		1.6 U	1.7 U	1.5 U	9.1 R	7.2 U	5.9 R
1,2,3,7,8-PeCDF		2.0 U	1.9 U	1.7 U	19 R	23.8	8.7 R
2,3,4,7,8-PeCDF		1.9 U	1.9 U	1.7 U	16.6 R	22.4	12.4 R
1,2,3,4,7,8-HxCDF		2.7 U	2.4 U	2.1 U	22.6 R	29.4	14.3 R
1,2,3,6,7,8-HxCDF		2.1 U	1.9 U	1.7 U	19.4 R	18.6	13 R
2,3,4,6,7,8-HxCDF		3.7	3.2	3.5	22 R	26.7	14.7 R
1,2,3,7,8,9-HxCDF		2.9 U	2.6 U	2.3 U	25.3 R	32.9	17.4 R
1,2,3,4,6,7,8-HpCDF		2.4 U	2.2 U	1.9 U	26.1 R	27.8	11.6 R
1,2,3,4,7,8,9-HpCDF		3.8 U	3.4 U	3.0 U	19.3 R	30.7	8 R
1,2,3,4,6,7,8,9-OCDF		4.6 U	4.5 U	3.7 U	47.2 R	86.8	31.5 R
Total TCDD		1.8 U	1.9 U	1.7 U	6.1	8.7 U	4.5
Total PeCDD		2.8 U	2.7 U	2.4 U	20.3	21.1	9.8
Total HxCDD		3.1 U	3.0 U	2.7 U	20.2	41.3	21.9
Total HpCDD		6.8	15.1	8.3	164	201	7.6
Total TCDF		1.6 U	1.7 U	1.5 U	9.1	7.2 U	5.9
Total PeCDF		2.0 U	1.9 U	1.7 U	19	46.2	21.2
Total HxCDF		3.7	3.2	3.5	89.4	100	59.4
Total HpCDF		2.9 U	2.7 U	2.4 U	64.6	77.7	19.6
Total TEQ		0.4849	0.4052	0.4166	42.1842	40.3418	26.0831

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-dete[illegible] = rejected

TABLE 3

ON-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(water)

CONSTITUENT (Units in pg/L)	SITE	D2006	D2006	D2006	D3003	D3003	D3005
	SAMPLE ID	D2006W1D1	D2006W1P2	D2006W1D2	D3003W1P1	D3003W1P2	D3005W1P1
	DATE	04/04/97	04/04/97	04/04/97	04/07/97	04/07/97	04/07/97
	RESULT TYPE	Duplicate 1	Primary	Duplicate 1	Primary	Primary	Primary
2,3,7,8-TCDD		5.3 U	7.8	5.6 U	1.2 U	15.6 U	2.7 U
1,2,3,7,8-PeCDD		9.2 U	18.8	5.8 U	1.7 U	12.5 U	4.2 U
1,2,3,4,7,8-HxCDD		12.6 U	13.1	5.7 U	2.1 U	13.9 U	5.7 U
1,2,3,6,7,8-HxCDD		(3.2) R	13.3	5.2 U	2.0 U	12.7 U	14.0 R
1,2,3,7,8,9-HxCDD		11.4 U	13.4	5.1 U	1.9 U	12.3 U	9.7 R
1,2,3,4,6,7,8-HpCDD		16.9 U	16.6	6.1 U	24.7 R	12.3 U	290 R
1,2,3,4,6,7,8,9-OCDD		37.9 R	41.2	29.5	191 R	187 J	2160 R
2,3,7,8-TCDF		4.0 U	8.7	4.8 U	1.0 U	14.5 U	2.3 U
1,2,3,7,8-PeCDF		6.4 U	16.7	4.6 U	1.2 U	10.1 U	2.7 U
2,3,4,7,8-PeCDF		6.2 U	13.6	4.4 U	1.2 U	9.8 U	2.7 U
1,2,3,4,7,8-HxCDF		9.0 U	13.9	4.1 U	1.6 U	11.6 U	7.1 R
1,2,3,6,7,8-HxCDF		6.8 U	14.3	3.3 U	1.3 U	9.3 U	2.8 U
2,3,4,6,7,8-HxCDF		9.2 U	15.3	8.3	3.0 R	11.5 U	4.8 R
1,2,3,7,8,9-HxCDF		9.9 U	20.5	4.5 U	1.8 U	12.8 U	3.9 U
1,2,3,4,6,7,8-HpCDF		(7.2) R	11.1	3.6 U	4.5 R	8.0 U	44.6 R
1,2,3,4,7,8,9-HpCDF		12.7 U	16.7	5.6 U	2.4 U	12.5 U	5.5 U
1,2,3,4,6,7,8,9-OCDF		30.0 U	43.7	17.0	12.0 R	10.7 U	155 R
Total TCDD		5.3 U	7.8	5.6 U	1.2 U	15.6 U	2.7 U
Total PeCDD		9.2 U	18.8	5.8 U	1.7 U	12.5 U	4.2 U
Total HxCDD		(3.2)	26.5	5.3 U	2.7	13.0 U	71.0
Total HpCDD		16.9 U	16.6	6.1 U	24.7	25.1	606
Total TCDF		4.0 U	8.7	4.8 U	1.0 U	14.5 U	2.3 U
Total PeCDF		6.3 U	30.4	4.5 U	1.2 U	9.9 U	11.1
Total HxCDF		8.5 U	64.0	8.3	5.1	11.2 U	72.3
Total HpCDF		(7.2)	16.7	4.4 U	13.1	9.8 U	127
Total TEQ		0.4299	36.6139	0.8765	0.795	0.187	9.221

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed
() = Less than Reporting Limit
U = non-detect, R = rejected

TABLE 3

ON-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in pg/L)	SITE	D3005	D3007	D3007	D5004	D5004	D5007
	SAMPLE ID	D3005W1P2	D3007W1P3	D3007W1D3	D5004W1P2	D5004W1P1	D5007W1P2
	DATE	04/07/97	06/24/97	06/24/97	04/08/97	04/08/97	04/08/97
	RESULT TYPE	Primary	Primary	Duplicate 1	Primary	Primary	Primary
2,3,7,8-TCDD		11.6 U	1.9 U	4.3	7.6 U	1.7 U	6.1 U
1,2,3,7,8-PeCDD		10.1 U	2.1 U	3.9	5.5 U	3.3 U	5.1 U
1,2,3,4,7,8-HxCDD		11.3 U	2.9 U	7.4	8.3 U	3.8 U	7.7 U
1,2,3,6,7,8-HxCDD		10.4 U	2.7 U	10.2	7.6 U	5.5 R	7.0 U
1,2,3,7,8,9-HxCDD		10.0 U	2.6 U	12.3	7.3 U	6.0 R	6.8 U
1,2,3,4,6,7,8-HpCDD		286	39.9	163	51.6	48.8 R	89.4
1,2,3,4,6,7,8,9-OCDD		2000 J	291	992	408	398 R	563
2,3,7,8-TCDF		11.6 U	1.9 U	2.1 U	7.7 U	1.2 U	6.0 U
1,2,3,7,8-PeCDF		7.8 U	1.6 U	1.9 U	4.8 U	2.0 U	4.5 U
2,3,4,7,8-PeCDF		7.5 U	1.5 U	1.8 U	4.6 U	1.9 U	4.4 U
1,2,3,4,7,8-HxCDF		10.6	2.6 U	4.4	7.6 U	3.6 R	10.3
1,2,3,6,7,8-HxCDF		7.2 U	2.1 U	3.2	6.1 U	(1.5) R	5.3 U
2,3,4,6,7,8-HxCDF		8.9 U	4.1 U	7.3 U	7.5 U	3.7 U	6.6 U
1,2,3,7,8,9-HxCDF		9.8 U	2.8 U	3.5 U	8.3 U	2.4 U	7.3 U
1,2,3,4,6,7,8-HpCDF		46.9	9.6	30.0	6.6 U	7.5 R	14.2
1,2,3,4,7,8,9-HpCDF		10.3 U	3.4 U	5.5	10.3 U	3.4 U	9.2 U
1,2,3,4,6,7,8,9-OCDF		218 J	23.1	57.4	11.4 U	16.2 R	40.3
Total TCDD		14.2	1.9 U	4.3	7.6 U	1.7 U	6.1 U
Total PeCDD		10.1 U	2.1 U	3.6	5.5 U	3.3 U	5.1 U
Total HxCDD		53.9	6.0	22.8	7.7 U	31.1	19.9
Total HpCDD		592	59.6	316	76.7	119	168
Total TCDF		11.6 U	1.9 U	2.1 U	7.7 U	4.0	6.0 U
Total PeCDF		7.6 U	1.6 U	4.6	4.7 U	1.9 U	4.4 U
Total HxCDF		48.6	3.1	5.5	7.3 U	21.2	24.8
Total HpCDF		146	19.4	69.8	14.8	15.5	14.2
Total TEQ		6.607	0.8091	13.0344	0.924	2.6372	2.6693

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

() =Less than Reporting Limit

U =non-det[illegible] =rejected

TABLE 3

ON-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in pg/L)	SITE	D5007	D5009	D5009	D5013
	SAMPLE ID	D5007W1P1	D5009W1P1	D5009W1P3	D5013W1P1
	DATE	04/08/97	04/07/97	06/24/97	04/07/97
	RESULT TYPE	Primary	Primary	Primary	Primary
2,3,7,8-TCDD		2.2 U	2.7 U	(3.2)	4.5 U
1,2,3,7,8-PeCDD		3.6 U	4.5 U	4.0 U	7.3 U
1,2,3,4,7,8-HxCDD		4.7 U	4.8 U	6.8 U	7.0 U
1,2,3,6,7,8-HxCDD		3.7 U	3.8 U	6.2 U	5.5 U
1,2,3,7,8,9-HxCDD		4.1 U	4.1 U	6.0 U	6.1 U
1,2,3,4,6,7,8-HpCDD		71.0 R	50.9 R	17.3	35.9 R
1,2,3,4,6,7,8,9-OCDD		497 R	469 R	219	279 R
2,3,7,8-TCDF		2.7 R	1.9 U	3.8 U	3.9 R
1,2,3,7,8-PeCDF		2.3 U	3.0 U	3.1 U	4.7 U
2,3,4,7,8-PeCDF		2.3 U	2.9 U	3.0 U	4.6 U
1,2,3,4,7,8-HxCDF		10.1 R	11.4 R	5.4 U	8.8 R
1,2,3,6,7,8-HxCDF		(1.7) R	2.2 U	4.3 U	3.3 U
2,3,4,6,7,8-HxCDF		5.6 U	6.7 U	5.3 U	7.4 R
1,2,3,7,8,9-HxCDF		3.2 U	3.2 U	5.9 U	4.9 U
1,2,3,4,6,7,8-HpCDF		14.9 R	14.4 R	6.0	7.9 R
1,2,3,4,7,8,9-HpCDF		4.4 U	4.4 U	6.8 U	6.7 U
1,2,3,4,6,7,8,9-OCDF		24.8 R	26.1 R	(7.3)	22.7 R
Total TCDD		2.2 U	2.7 U	(3.2)	4.5 U
Total PeCDD		6.0	4.5 U	4.0 U	7.3 U
Total HxCDD		41.7	13.5	6.3 U	8.0
Total HpCDD		146	114	27.0	69.4
Total TCDF		2.7	2.9	3.8 U	3.6
Total PeCDF		19.5	17.8	3.1 U	16.0
Total HxCDF		44.5	37.5	(3.6)	23.1
Total HpCDF		29.6	14.4	12.1	7.9
Total TEQ		2.8308	2.2881	3.6593	2.7497

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

() = Less than Reporting Limit

U = non-detect, R = rejected

TABLE 4

ON-BASE DELINEATION
VOC RESULTS
NCBC GULFPORT
(water)

Date: 07/08/98

CONSTITUENT (Units in ug/L)	SITE	GPT-04-04	GPT-04-04	GPT-04-05	GPT-04-06	GPT-04-07
	SAMPLE ID	GPT44G1P1	GPT44G1D1	GPT45G1P1	GPT46G1P1	GPT47G1P1
	DATE	05/19/97	05/19/97	05/19/97	05/20/97	05/20/97
	RESULT TYPE	Primary	Duplicate 1	Primary	Primary	Primary
Chloromethane		10 U	10 U	10 U	10 U	10 U
Bromomethane		10 U	10 U	10 U	10 U	10 U
Vinyl chloride		10 U	10 U	37	10 U	10 U
Chloroethane		10 U	10 U	10 U	10 U	10 U
Methylene chloride		10 U	10 U	10 U	10 U	10 U
Acetone		10 U	10 U	10 U	10 U	10 U
Carbon disulfide		10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene		10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane		10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethene (total)		10 U	10 U	180	10 U	10 U
Chloroform		10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane		10 U	10 U	10 U	10 U	10 U
2-Butanone		10 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane		10 U	10 U	10 U	10 U	10 U
Carbon tetrachloride		10 U	10 U	10 U	10 U	10 U
Bromodichloromethane		10 U	10 U	10 U	10 U	10 U
1,2-Dichloropropane		10 U	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene		10 U	10 U	10 U	10 U	10 U
Trichloroethene		10 U	10 U	4.7 J	10 U	10 U
Dibromochloromethane		10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane		10 U	10 U	10 U	10 U	10 U
Benzene		10 U	10 U	10 U	10 U	10 U
trans-1,3-Dichloropropene		10 U	10 U	10 U	10 U	10 U
Bromoform		10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone		10 U	10 U	10 U	10 U	10 U
2-Hexanone		10 U	10 U	10 U	10 U	10 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

For RCL VO[illegible]mit 2 is used for results comparison

TABLE 4

ON-BASE DELINEATION
VOC RESULTS
NCBC GULFPORT
(water)

Date: 07/08/98

CONSTITUENT (Units in ug/L)	SITE	GPT-04-04	GPT-04-04	GPT-04-05	GPT-04-06	GPT-04-07
	SAMPLE ID	GPT44G1P1	GPT44G1D1	GPT45G1P1	GPT46G1P1	GPT47G1P1
	DATE	05/19/97	05/19/97	05/19/97	05/20/97	05/20/97
	RESULT TYPE	Primary	Duplicate 1	Primary	Primary	Primary
Tetrachloroethene		10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane		10 U	10 U	10 U	10 U	10 U
Toluene		10 U	10 U	10 U	10 U	10 U
Chlorobenzene		10 U	10 U	10 U	10 U	10 U
Ethylbenzene		10 U	10 U	10 U	10 U	10 U
Styrene		10 U	10 U	10 U	10 U	10 U
Xylenes (total)		10 U	10 U	10 U	10 U	10 U

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

For RCL VOA Limit 2 is used for results comparison

TABLE 4

ON-BASE DELINEATION
VOC RESULTS
NCBC GULFPORT
(water)

Date: 07/08/98

CONSTITUENT (Units in ug/L)	SITE	GPT-05-04	GPT-05-05	GPT-05-06
	SAMPLE ID	GPT54G1P1	GPT55G1P1	GPT56G1P1
	DATE	05/20/97	05/20/97	05/20/97
	RESULT TYPE	Primary	Primary	Primary
Chloromethane		10 U	10 U	10 U
Bromomethane		10 U	10 U	10 U
Vinyl chloride		10 U	10 U	10 U
Chloroethane		10 U	10 U	10 U
Methylene chloride		10 U	10 U	10 U
Acetone		10 U	10 U	10 U
Carbon disulfide		10 U	10 U	10 U
1,1-Dichloroethene		10 U	10 U	10 U
1,1-Dichloroethane		10 U	10 U	10 U
1,2-Dichloroethene (total)		10 U	10 U	10 U
Chloroform		10 U	10 U	10 U
1,2-Dichloroethane		10 U	10 U	10 U
2-Butanone		10 U	10 U	10 U
1,1,1-Trichloroethane		10 U	10 U	10 U
Carbon tetrachloride		10 U	10 U	10 U
Bromodichloromethane		10 U	10 U	10 U
1,2-Dichloropropane		10 U	10 U	10 U
cis-1,3-Dichloropropene		10 U	10 U	10 U
Trichloroethene		10 U	10 U	10 U
Dibromochloromethane		10 U	10 U	10 U
1,1,2-Trichloroethane		10 U	10 U	10 U
Benzene		10 U	10 U	10 U
trans-1,3-Dichloropropene		10 U	10 U	10 U
Bromoform		10 U	10 U	10 U
4-Methyl-2-pentanone		10 U	10 U	10 U
2-Hexanone		10 U	10 U	10 U

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

For RCL VO[illegible]imit 2 is used for results comparison

TABLE 4

ON-BASE DELINEATION
VOC RESULTS
NCBC GULFPORT
(water)

Date: 07/08/98

CONSTITUENT (Units in ug/L)	SITE	GPT-05-04	GPT-05-05	GPT-05-06
	SAMPLE ID	GPT54G1P1	GPT55G1P1	GPT56G1P1
	DATE	05/20/97	05/20/97	05/20/97
	RESULT TYPE	Primary	Primary	Primary
Tetrachloroethene		10 U	10 U	10 U
1,1,2,2-Tetrachloroethane		10 U	10 U	10 U
Toluene		10 U	10 U	10 U
Chlorobenzene		10 U	10 U	10 U
Ethylbenzene		10 U	10 U	10 U
Styrene		10 U	10 U	10 U
Xylenes (total)		10 U	10 U	10 U

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --=Not analyzed

For RCL VOA Limit 2 is used for results comparison

TABLE 4

ON-BASE DELINEATION
VOC RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in ug/L)	SITE	D1001	D1003	D1005	D1008	D1010	D1013
	SAMPLE ID	D1001W1P1	D1003W1P1	D1005W1P1	D1008W1P1	D1010W1P1	D1013W1P1
	DATE	04/10/97	04/10/97	04/10/97	04/09/97	04/09/97	04/09/97
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Chloromethane		10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane		10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride		10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride		10 U	10 U	10 U	10 U	10 U	10 U
Acetone		10 U	10 U	10 U	10 U	10 U	10 U
Carbon disulfide		10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene		10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane		10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethene (total)		10 U	10 U	10 U	10 U	10 U	10 U
Chloroform		10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane		10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone		10 U	10 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Carbon tetrachloride		10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane		10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloropropane		10 U	10 U	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene		10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene		10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane		10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Benzene		10 U	10 U	10 U	10 U	10 U	10 U
trans-1,3-Dichloropropene		10 U	10 U	10 U	10 U	10 U	10 U
Bromoform		10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone		10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone		10 U	10 U	10 U	10 U	10 U	10 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-det[illegible] = estimated For RCL VOA

TABLE 4

ON-BASE DELINEATION
VOC RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in ug/L)	SITE	D1001	D1003	D1005	D1008	D1010	D1013
	SAMPLE ID	D1001W1P1	D1003W1P1	D1005W1P1	D1008W1P1	D1010W1P1	D1013W1P1
	DATE	04/10/97	04/10/97	04/10/97	04/09/97	04/09/97	04/09/97
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Tetrachloroethene		10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Toluene		10 U	10 U	10 U	10 U	10 U	10 U
Chlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene		10 U	10 U	10 U	10 U	10 U	10 U
Styrene		10 U	10 U	10 U	10 U	10 U	10 U
Xylenes (total)		10 U	10 U	10 U	10 U	10 U	10 U

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U = non-detect, J = estimated For RCL VOA

TABLE 4

ON-BASE DELINEATION
VOC RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in ug/L)	SITE	D2003	D2006	D2006	D3003	D3005	D5004
	SAMPLE ID	D2003W1P1	D2006W1P1	D2006W1D1	D3003W1P1	D3005W1P1	D5004W1P1
	DATE	04/05/97	04/05/97	04/05/97	04/07/97	04/07/97	04/08/97
	RESULT TYPE	Primary	Primary	Duplicate 1	Primary	Primary	Primary
Chloromethane		10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane		10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride		10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride		10 U	10 U	10 U	10 U	10 U	10 U
Acetone		10 U	10 U	10 U	10 U	10 U	10 U
Carbon disulfide		10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene		10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane		10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethene (total)		10 U	10 U	10 U	10 U	10 U	10 U
Chloroform		10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane		10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone		10 U	10 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Carbon tetrachloride		10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane		10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloropropane		10 U	10 U	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene		10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene		10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane		10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Benzene		10 U	10 U	10 U	10 U	10 U	10 U
trans-1,3-Dichloropropene		10 U	10 U	10 U	10 U	10 U	10 U
Bromoform		10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone		10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone		10 U	10 U	10 U	10 U	10 U	10 U

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

U=non-dete[illegible]=estimated For RCL VOA

TABLE 4

ON-BASE DELINEATION
VOC RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in ug/L)	SITE	D2003	D2006	D2006	D3003	D3005	D5004
	SAMPLE ID	D2003W1P1	D2006W1P1	D2006W1D1	D3003W1P1	D3005W1P1	D5004W1P1
	DATE	04/05/97	04/05/97	04/05/97	04/07/97	04/07/97	04/08/97
	RESULT TYPE	Primary	Primary	Duplicate 1	Primary	Primary	Primary
Tetrachloroethene		10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Toluene		10 U	10 U	10 U	10 U	10 U	10 U
Chlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene		10 U	10 U	10 U	10 U	10 U	10 U
Styrene		10 U	10 U	10 U	10 U	10 U	10 U
Xylenes (total)		10 U	10 U	10 U	10 U	10 U	10 U

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U=non-detect, J=estimated For RCL VOA

TABLE 4

ON-BASE DELINEATION
VOC RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in ug/L)	SITE	D5007	D5009	D5013
	SAMPLE ID	D5007W1P1	D5009W1P1	D5013W1P1
	DATE	04/08/97	04/07/97	04/07/97
	RESULT TYPE	Primary	Primary	Primary
Chloromethane		10 U	10 U	10 U
Bromomethane		10 U	10 U	10 U
Vinyl chloride		10 U	10 U	10 U
Chloroethane		10 U	10 U	10 U
Methylene Chloride		10 U	10 U	10 U
Acetone		10 U	10 U	10 U
Carbon disulfide		10 U	10 U	10 U
1,1-Dichloroethene		10 U	10 U	10 U
1,1-Dichloroethane		10 U	2 J	10 U
1,2-Dichloroethene (total)		10 U	10 U	10 U
Chloroform		10 U	10 U	10 U
1,2-Dichloroethane		10 U	10 U	10 U
2-Butanone		10 U	10 U	10 U
1,1,1-Trichloroethane		10 U	10 U	10 U
Carbon tetrachloride		10 U	10 U	10 U
Bromodichloromethane		10 U	10 U	10 U
1,2-Dichloropropane		10 U	10 U	10 U
cis-1,3-Dichloropropene		10 U	10 U	10 U
Trichloroethene		10 U	10 U	10 U
Dibromochloromethane		10 U	10 U	10 U
1,1,2-Trichloroethane		10 U	10 U	10 U
Benzene		10 U	10 U	10 U
trans-1,3-Dichloropropene		10 U	10 U	10 U
Bromoform		10 U	10 U	10 U
4-Methyl-2-pentanone		10 U	10 U	10 U
2-Hexanone		10 U	10 U	10 U

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U = non-dete[illegible] = estimated For RCL VOA

TABLE 4

ON-BASE DELINEATION
VOC RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in ug/L)	SITE	D5007	D5009	D5013
	SAMPLE ID	D5007W1P1	D5009W1P1	D5013W1P1
	DATE	04/08/97	04/07/97	04/07/97
	RESULT TYPE	Primary	Primary	Primary
Tetrachloroethene		10 U	10 U	10 U
1,1,2,2-Tetrachloroethane		10 U	10 U	10 U
Toluene		10 U	10 U	10 U
Chlorobenzene		10 U	10 U	10 U
Ethylbenzene		10 U	10 U	10 U
Styrene		10 U	10 U	10 U
Xylenes (total)		10 U	10 U	10 U

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

U=non-detect, J=estimated For RCL VOA

TABLE 5

ON-BASE DELINEATION
SVOC RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in ug/L)	SITE	D1001	D1003	D1005	D1008	D1010	D1013
	SAMPLE ID	D1001W1P1	D1003W1P1	D1005W1P1	D1008W1P1	D1010W1P1	D1013W1P1
	DATE	04/10/97	04/10/97	04/10/97	04/09/97	04/09/97	04/09/97
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Phenol		10 U	10 U	10 U	10 U	10 U	10 U
bis(2-chloroethyl)ether		10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol		10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U
2,2'-oxybis(1-Chloropropane)		10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodinpropylamine		10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene		10 U	10 U	10 U	10 U	10 U	10 U
Isophorone		10 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol		10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol		10 U	10 U	10 U	10 U	10 U	10 U
bis(2-chloroethoxy)methane		10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline		10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene		10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene		10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene		10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol		25 U	25 U	25 U	25 U	25 U	25 U

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

U=non-dete[illegible]=estimated For RCL SVOA

TABLE 5

ON-BASE DELINEATION
SVOC RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in ug/L)	SITE	D1001	D1003	D1005	D1008	D1010	D1013
	SAMPLE ID	D1001W1P1	D1003W1P1	D1005W1P1	D1008W1P1	D1010W1P1	D1013W1P1
	DATE	04/10/97	04/10/97	04/10/97	04/09/97	04/09/97	04/09/97
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
2-Chloronaphthalene		10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline		25 U	25 U	25 U	25 U	25 U	25 U
Dimethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline		25 U	25 U	25 U	25 U	25 U	25 U
Acenaphthene		10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol		25 U	25 U	25 U	25 U	25 U	25 U
4-Nitrophenol		25 U	25 U	25 U	25 U	25 U	25 U
Dibenzofuran		10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether		10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline		25 U	25 U	25 U	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol		25 U	25 U	25 U	25 U	25 U	25 U
N-Nitrosodiphenylamine (1)		10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether		10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol		25 U	25 U	25 U	25 U	25 U	25 U
Phenanthrene		10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		10 U	10 U	10 U	10 U	10 U	10 U
Carbazole		10 U	10 U	10 U	10 U	10 U	10 U
Di-n-Butylphthalate		10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		10 U	10 U	10 U	10 U	10 U	10 U

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U=non-detect, J=estimated For RCL SVOA

TABLE 5

ON-BASE DELINEATION
SVOC RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in ug/L)	SITE	D1001	D1003	D1005	D1008	D1010	D1013
	SAMPLE ID	D1001W1P1	D1003W1P1	D1005W1P1	D1008W1P1	D1010W1P1	D1013W1P1
	DATE	04/10/97	04/10/97	04/10/97	04/09/97	04/09/97	04/09/97
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Butylbenzylphthalate		10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine		10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)Anthracene		10 U	10 U	10 U	10 U	10 U	10 U
Chrysene		10 U	10 U	10 U	10 U	10 U	10 U
bis(2-ethylhexyl)Phthalate		10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate		10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene		10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene		10 U	10 U	10 U	10 U	10 U	10 U

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U =non-det[illegible] =estimated For RCL SVOA

TABLE 5

ON-BASE DELINEATION
SVOC RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in ug/L)	SITE	D2003	D2006	D2006	D3003	D3005	D5004
	SAMPLE ID	D2003W1P1	D2006W1P1	D2006W1D1	D3003W1P1	D3005W1P1	D5004W1P1
	DATE	04/05/97	04/05/97	04/05/97	04/07/97	04/07/97	04/08/97
	RESULT TYPE	Primary	Primary	Duplicate 1	Primary	Primary	Primary
Phenol		10 U	10 U	10 U	10 U	10 U	10 U
bis(2-chloroethyl)ether		10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol		10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U
2,2'-oxybis(1-Chloropropane)		10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodinpropylamine		10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene		10 U	10 U	10 U	10 U	10 U	10 U
Isophorone		10 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol		10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol		10 U	10 U	10 U	10 U	10 U	10 U
bis(2-chloroethoxy)methane		10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline		10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene		10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene		10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene		10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol		25 U	25 U	25 U	25 U	25 U	25 U

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

U=non-detect, J=estimated For RCL SVOA

TABLE 5

ON-BASE DELINEATION
SVOC RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in ug/L)	SITE	D2003	D2006	D2006	D3003	D3005	D5004
	SAMPLE ID	D2003W1P1	D2006W1P1	D2006W1D1	D3003W1P1	D3005W1P1	D5004W1P1
	DATE	04/05/97	04/05/97	04/05/97	04/07/97	04/07/97	04/08/97
	RESULT TYPE	Primary	Primary	Duplicate 1	Primary	Primary	Primary
2-Chloronaphthalene		10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline		25 U	25 U	25 U	25 U	25 U	25 U
Dimethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline		25 U	25 U	25 U	25 U	25 U	25 U
Acenaphthene		10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol		25 U	25 U	25 U	25 U	25 U	25 U
4-Nitrophenol		25 U	25 U	25 U	25 U	25 U	25 U
Dibenzofuran		10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether		10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline		25 U	25 U	25 U	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol		25 U	25 U	25 U	25 U	25 U	25 U
N-Nitrosodiphenylamine (1)		10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether		10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol		25 U	25 U	25 U	25 U	25 U	25 U
Phenanthrene		10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		10 U	10 U	10 U	10 U	10 U	10 U
Carbazole		10 U	10 U	10 U	10 U	10 U	10 U
Di-n-Butylphthalate		10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		10 U	10 U	10 U	10 U	10 U	10 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-det[illegible] = estimated For RCL SVOA

TABLE 5

ON-BASE DELINEATION
SVOC RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in ug/L)	SITE	D2003	D2006	D2006	D3003	D3005	D5004
	SAMPLE ID	D2003W1P1	D2006W1P1	D2006W1D1	D3003W1P1	D3005W1P1	D5004W1P1
	DATE	04/05/97	04/05/97	04/05/97	04/07/97	04/07/97	04/08/97
	RESULT TYPE	Primary	Primary	Duplicate 1	Primary	Primary	Primary
Butylbenzylphthalate		10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine		10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)Anthracene		10 U	10 U	10 U	10 U	10 U	10 U
Chrysene		10 U	10 U	10 U	10 U	10 U	10 U
bis(2-ethylhexyl)Phthalate		10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate		10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene		10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene		10 U	10 U	10 U	10 U	10 U	10 U

Values represent total concentrations unless noted < =Not detected at indicated reporting limit ---=Not analyzed

U=non-detect, J=estimated For RCL SVOA

TABLE 5

ON-BASE DELINEATION
SVOC RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in ug/L)	SITE	D5007	D5009	D5013
	SAMPLE ID	D5007W1P1	D5009W1P1	D5013W1P1
	DATE	04/08/97	04/07/97	04/07/97
	RESULT TYPE	Primary	Primary	Primary
Phenol		10 U	10 U	10 U
bis(2-chloroethyl)ether		10 U	10 U	10 U
2-Chlorophenol		10 U	10 U	10 U
1,3-Dichlorobenzene		10 U	10 U	10 U
1,4-Dichlorobenzene		10 U	10 U	10 U
1,2-Dichlorobenzene		10 U	10 U	10 U
2-Methylphenol		10 U	10 U	10 U
2,2'-oxybis(1-Chloropropane)		10 U	10 U	10 U
N-Nitrosodinpropylamine		10 U	10 U	10 U
4-Methylphenol		10 U	10 U	10 U
Hexachloroethane		10 U	10 U	10 U
Nitrobenzene		10 U	10 U	10 U
Isophorone		10 U	10 U	10 U
2-Nitrophenol		10 U	10 U	10 U
2,4-Dimethylphenol		10 U	10 U	10 U
bis(2-chloroethoxy)methane		10 U	10 U	10 U
2,4-Dichlorophenol		10 U	10 U	10 U
1,2,4-Trichlorobenzene		10 U	10 U	10 U
Naphthalene		10 U	10 U	10 U
4-Chloroaniline		10 U	10 U	10 U
Hexachlorobutadiene		10 U	10 U	10 U
4-Chloro-3-Methylphenol		10 U	10 U	10 U
2-Methylnaphthalene		10 U	10 U	10 U
Hexachlorocyclopentadiene		10 U	10 U	10 U
2,4,6-Trichlorophenol		10 U	10 U	10 U
2,4,5-Trichlorophenol		25 U	25 U	25 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-det[illegible] = estimated For RCL SVOA

TABLE 5

ON-BASE DELINEATION
SVOC RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in ug/L)	SITE	D5007	D5009	D5013
	SAMPLE ID	D5007W1P1	D5009W1P1	D5013W1P1
	DATE	04/08/97	04/07/97	04/07/97
	RESULT TYPE	Primary	Primary	Primary
2-Chloronaphthalene		10 U	10 U	10 U
2-Nitroaniline		25 U	25 U	25 U
Dimethylphthalate		10 U	10 U	10 U
Acenaphthylene		10 U	10 U	10 U
2,6-Dinitrotoluene		10 U	10 U	10 U
3-Nitroaniline		25 U	25 U	25 U
Acenaphthene		10 U	10 U	10 U
2,4-Dinitrophenol		25 U	25 U	25 U
4-Nitrophenol		25 U	25 U	25 U
Dibenzofuran		10 U	10 U	10 U
2,4-Dinitrotoluene		10 U	10 U	10 U
Diethylphthalate		10 U	10 U	10 U
4-Chlorophenyl-phenylether		10 U	10 U	10 U
Fluorene		10 U	10 U	10 U
4-Nitroaniline		25 U	25 U	25 U
4,6-Dinitro-2-methylphenol		25 U	25 U	25 U
N-Nitrosodiphenylamine (1)		10 U	10 U	10 U
4-Bromophenyl-phenylether		10 U	10 U	10 U
Hexachlorobenzene		10 U	10 U	10 U
Pentachlorophenol		25 U	25 U	25 U
Phenanthrene		10 U	10 U	10 U
Anthracene		10 U	10 U	10 U
Carbazole		10 U	10 U	10 U
Di-n-Butylphthalate		10 U	10 U	10 U
Fluoranthene		10 U	10 U	10 U
Pyrene		10 U	10 U	10 U

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

U=non-detect, J=estimated For RCL SVOA

TABLE 5

ON-BASE DELINEATION
SVOC RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in ug/L)	SITE	D5007	D5009	D5013
	SAMPLE ID	D5007W1P1	D5009W1P1	D5013W1P1
	DATE	04/08/97	04/07/97	04/07/97
	RESULT TYPE	Primary	Primary	Primary
Butylbenzylphthalate		10 U	10 U	10 U
3,3'-Dichlorobenzidine		10 U	10 U	10 U
Benzo(a)Anthracene		10 U	10 U	10 U
Chrysene		10 U	10 U	10 U
bis(2-ethylhexyl)Phthalate		10 U	10 U	10 U
Di-n-octylphthalate		10 U	10 U	10 U
Benzo(b)fluoranthene		10 U	10 U	10 U
Benzo(k)fluoranthene		10 U	10 U	10 U
Benzo(a)pyrene		10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		10 U	10 U	10 U
Dibenzo(a,h)anthracene		10 U	10 U	10 U
Benzo(g,h,i)perylene		10 U	10 U	10 U

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

U=non-det[illegible] =estimated For RCL SVOA

TABLE 6

ON-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in ug/L)	SITE	D1001	D1003	D1005	D1008	D1010	D1013
	SAMPLE ID	D1001W1P1	D1003W1P1	D1005W1P1	D1008W1P1	D1010W1P1	D1013W1P1
	DATE	04/10/97	04/10/97	04/10/97	04/09/97	04/09/97	04/09/97
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
alpha-BHC		0.05 UJ	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ
beta-BHC		0.05 UJ	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ
delta-BHC		0.05 UJ	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ
gamma-BHC(Lindane)		0.05 UJ	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ
Heptachlor		0.05 UJ	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ
Aldrin		0.05 UJ	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ
Heptachlor epoxide		0.05 UJ	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ
Endosulfan I		0.05 UJ	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ
Dieldrin		0.1 UJ	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDE		0.1 UJ	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ
Endrin		0.1 UJ	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ
Endosulfan II		0.1 UJ	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDD		0.1 UJ	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ
Endosulfan sulfate		0.1 UJ	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDT		0.1 UJ	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ
Methoxychlor		0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 UJ
Endrin ketone		0.1 UJ	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ
Endrin aldehyde		0.1 UJ	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ
alpha-Chlordane		0.05 UJ	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ
gamma-Chlordane		0.05 UJ	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ
Toxaphene		5 UJ	5 U	5 U	5 UJ	5 UJ	5 UJ
Aroclor-1016		1 UJ	1 U	1 U	1 UJ	1 UJ	1 UJ
Aroclor-1221		2 UJ	2 U	2 U	2 UJ	2 UJ	2 UJ
Aroclor-1232		1 UJ	1 U	1 U	1 UJ	1 UJ	1 UJ
Aroclor-1242		1 UJ	1 U	1 U	1 UJ	1 UJ	1 UJ
Aroclor-1248		1 UJ	1 U	1 U	1 UJ	1 UJ	1 UJ

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

U=non-detect, J=estimated, For RCL PCB

TABLE 6

ON-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in ug/L)	SITE	D1001	D1003	D1005	D1008	D1010	D1013
	SAMPLE ID	D1001W1P1	D1003W1P1	D1005W1P1	D1008W1P1	D1010W1P1	D1013W1P1
	DATE	04/10/97	04/10/97	04/10/97	04/09/97	04/09/97	04/09/97
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Aroclor-1254		1 UJ	1 U	1 U	1 UJ	1 UJ	1 UJ
Aroclor-1260		1 UJ	1 U	1 U	1 UJ	1 UJ	1 UJ

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

U =non-det[illegible] =estimated, For RCL PCB

TABLE 6

ON-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in ug/L)	SITE	D2003	D2006	D2006	D3003	D3005	D5004
	SAMPLE ID	D2003W1P1	D2006W1P1	D2006W1D1	D3003W1P1	D3005W1P1	D5004W1P1
	DATE	04/05/97	04/05/97	04/05/97	04/07/97	04/07/97	04/08/97
	RESULT TYPE	Primary	Primary	Duplicate 1	Primary	Primary	Primary
alpha-BHC		0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ
beta-BHC		0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ
delta-BHC		0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ
gamma-BHC(Lindane)		0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ
Heptachlor		0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ
Aldrin		0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ
Heptachlor epoxide		0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ
Endosulfan I		0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ
Dieldrin		0.1 UJ	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ
4,4'-DDE		0.1 UJ	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ
Endrin		0.1 UJ	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ
Endosulfan II		0.1 UJ	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ
4,4'-DDD		0.1 UJ	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ
Endosulfan sulfate		0.1 UJ	0.0051 NJ	0.1 UJ	0.1 U	0.1 U	0.1 UJ
4,4'-DDT		0.1 UJ	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ
Methoxychlor		0.5 UJ	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ
Endrin ketone		0.1 UJ	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ
Endrin aldehyde		0.1 UJ	0.1 U	0.027 J	0.1 U	0.1 U	0.1 UJ
alpha-Chlordane		0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ
gamma-Chlordane		0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ
Toxaphene		5 UJ	5 U	5 UJ	5 U	5 U	5 UJ
Aroclor-1016		1 UJ	1 U	1 UJ	1 U	1 U	1 UJ
Aroclor-1221		2 UJ	2 U	2 UJ	2 U	2 U	2 UJ
Aroclor-1232		1 UJ	1 U	1 UJ	1 U	1 U	1 UJ
Aroclor-1242		1 UJ	1 U	1 UJ	1 U	1 U	1 UJ
Aroclor-1248		1 UJ	1 U	1 UJ	1 U	1 U	1 UJ

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

U =non-detect, J =estimated, For RCL PCB

TABLE 6

ON-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in ug/L)	SITE	D2003	D2006	D2006	D3003	D3005	D5004
	SAMPLE ID	D2003W1P1	D2006W1P1	D2006W1D1	D3003W1P1	D3005W1P1	D5004W1P1
	DATE	04/05/97	04/05/97	04/05/97	04/07/97	04/07/97	04/08/97
	RESULT TYPE	Primary	Primary	Duplicate 1	Primary	Primary	Primary
Aroclor-1254		1 UJ	1 U	1 UJ	1 U	1 U	1 UJ
Aroclor-1260		1 UJ	1 U	1 UJ	1 U	1 U	1 UJ

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

U =non-det[illegible] =estimated, For RCL PCB

TABLE 6

ON-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in ug/L)	SITE	D5007	D5009	D5013
	SAMPLE ID	D5007W1P1	D5009W1P1	D5013W1P1
	DATE	04/08/97	04/07/97	04/07/97
	RESULT TYPE	Primary	Primary	Primary
alpha-BHC		0.05 UJ	0.05 U	0.05 UJ
beta-BHC		0.05 UJ	0.05 U	0.05 UJ
delta-BHC		0.05 UJ	0.05 U	0.05 UJ
gamma-BHC(Lindane)		0.05 UJ	0.05 U	0.05 UJ
Heptachlor		0.05 UJ	0.05 U	0.05 UJ
Aldrin		0.05 UJ	0.05 U	0.05 UJ
Heptachlor epoxide		0.05 UJ	0.05 U	0.05 UJ
Endosulfan I		0.05 UJ	0.05 U	0.05 UJ
Dieldrin		0.1 UJ	0.1 U	0.1 UJ
4,4'-DDE		0.1 UJ	0.1 U	0.1 UJ
Endrin		0.1 UJ	0.1 U	0.1 UJ
Endosulfan II		0.1 UJ	0.1 U	0.1 UJ
4,4'-DDD		0.1 UJ	0.1 U	0.1 UJ
Endosulfan sulfate		0.1 UJ	0.1 U	0.1 UJ
4,4'-DDT		0.1 UJ	0.1 U	0.1 UJ
Methoxychlor		0.5 UJ	0.5 U	0.5 UJ
Endrin ketone		0.1 UJ	0.1 U	0.1 UJ
Endrin aldehyde		0.1 UJ	0.1 U	0.1 UJ
alpha-Chlordane		0.05 UJ	0.05 U	0.05 UJ
gamma-Chlordane		0.05 UJ	0.05 U	0.05 UJ
Toxaphene		5 UJ	5 U	5 UJ
Aroclor-1016		1 UJ	1 U	1 UJ
Aroclor-1221		2 UJ	2 U	2 UJ
Aroclor-1232		1 UJ	1 U	1 UJ
Aroclor-1242		1 UJ	1 U	1 UJ
Aroclor-1248		1 UJ	1 U	1 UJ

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

U=non-detect, J=estimated, For RCL PCB

TABLE 6

ON-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in ug/L)	SITE	D5007	D5009	D5013
	SAMPLE ID	D5007W1P1	D5009W1P1	D5013W1P1
	DATE	04/08/97	04/07/97	04/07/97
	RESULT TYPE	Primary	Primary	Primary
Aroclor-1254		1 UJ	1 U	1 UJ
Aroclor-1260		1 UJ	1 U	1 UJ

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

U=non-det[illegible] =estimated, For RCL PCB

TABLE 7

ON-BASE DELINEATION
HERBICIDE RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in ug/L)	SITE	D1001	D1003	D1005	D1008	D1010	D1013
	SAMPLE ID	D1001W1P1	D1003W1P1	D1005W1P1	D1008W1P1	D1010W1P1	D1013W1P1
	DATE	04/10/97	04/10/97	04/10/97	04/09/97	04/09/97	04/09/97
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
2,4-D		4 U	4 U	4 U	4 U	4 U	4 U
2,4,5-TP (Silvex)		1 U	1 U	1 U	1 U	1 U	1 U
2,4,5-T		1 U	1 U	1 U	1 U	1 U	1 U

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

U=non-detect, J=estimated, For RCL HERB

TABLE 7

ON-BASE DELINEATION
HERBICIDE RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in ug/L)	SITE	D2003	D2006	D2006	D3003	D3005	D5004
	SAMPLE ID	D2003W1P1	D2006W1P1	D2006W1D1	D3003W1P1	D3005W1P1	D5004W1P1
	DATE	04/05/97	04/05/97	04/05/97	04/07/97	04/07/97	04/08/97
	RESULT TYPE	Primary	Primary	Duplicate 1	Primary	Primary	Primary
2,4-D		4 U	4 U	4 U	4 U	4 U	4 U
2,4,5-TP (Silvex)		1 U	1 U	1 U	1 U	1 U	1 U
2,4,5-T		1 U	1 U	1 U	1 U	1 U	1 U

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

U =non-det[illegible] =estimated, For RCL HERB

TABLE 7

ON-BASE DELINEATION
HERBICIDE RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in ug/L)	SITE	D5007	D5009	D5013
	SAMPLE ID	D5007W1P1	D5009W1P1	D5013W1P1
	DATE	04/08/97	04/07/97	04/07/97
	RESULT TYPE	Primary	Primary	Primary
2,4-D		4 U	4 U	4 U
2,4,5-TP (Silvex)		1 U	1 U	1 U
2,4,5-T		1 U	1 U	1 U

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

U=non-detect, J=estimated, For RCL HERB

TABLE 8

OFF-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in pg/L)	SITE	BB003	BB003	BC003	C1001	C1001	TC002
	SAMPLE ID	BB003W1P1	BB003W1P2	BC003W1P1	C1001W1P1	C1001W1D1	TC002W1P1
	DATE	05/16/97	05/16/97	05/19/97	04/23/97	04/23/97	04/25/97
	RESULT TYPE	Primary	Primary	Primary	Primary	Duplicate 1	Primary
2,3,7,8-TCDD		6.1 U	4.8 U	1.5 U	(4.1) R	3.9 U	9.1 U
1,2,3,7,8-PeCDD		7.8 U	5.6 U	1.7 U	22.1 R	(4.6) R	14.1 U
1,2,3,4,7,8-HxCDD		7.7 U	6.1 U	2.1 U	16.6 R	4.8 R	14.7 U
1,2,3,6,7,8-HxCDD		7.1 U	4.3 U	1.5 U	22.1 R	6.4 R	11.5 U
1,2,3,7,8,9-HxCDD		6.8 U	4.7 U	1.7 U	29.6 R	8.9 R	13.2 U
1,2,3,4,6,7,8-HpCDD		21.7 R	23.5	7.7	297 R	74.2 R	14.9 U
1,2,3,4,6,7,8,9-OCDD		262 R	266	74.6 U	2100 R	506 R	160 R
2,3,7,8-TCDF		4.9 U	3.7 U	1.2 U	6.7 R	2.6 U	6.7 U
1,2,3,7,8-PeCDF		5.8 U	4.5 U	1.3 U	11.8 R	3.7 U	8.2 U
2,3,4,7,8-PeCDF		5.7 U	4.3 U	1.2 U	8.6 R	3.7 U	8.2 U
1,2,3,4,7,8-HxCDF		5.6 U	3.9 U	1.5 U	18.0 R	5.6 R	9.2 U
1,2,3,6,7,8-HxCDF		4.5 U	2.8 U	1.0 U	12.9 R	3.3 R	6.8 U
2,3,4,6,7,8-HxCDF		5.6 U	5.5	3.0 U	19.2 R	3.3 U	9.9 U
1,2,3,7,8,9-HxCDF		6.2 U	4.0 U	1.5 U	7.3 R	4.4 R	11.2 U
1,2,3,4,6,7,8-HpCDF		6.1 R	10.5	3.0	78.5 R	19.9 R	10.4 U
1,2,3,4,7,8,9-HpCDF		7.4 U	4.4 U	1.8 U	(9.1) R	(3.0)	14.4 U
1,2,3,4,6,7,8,9-OCDF		25.0	22.8	5.5	130 R	34.2 R	14.1 U
Total TCDD		6.1 U	4.8 U	1.5 U	(4.1)	3.9 U	9.1 U
Total PeCDD		7.8 U	5.6 U	1.7 U	22.1	(4.6)	14.1 U
Total HxCDD		7.2 U	4.9 U	1.7 U	101	31.3	13.0 U
Total HpCDD		50.8	51.5	16.2	574	132	14.9 U
Total TCDF		4.9 U	3.7 U	1.2 U	10.1	2.6 U	6.7 U
Total PeCDF		5.8 U	4.4 U	1.3 U	29.8	3.7 U	8.2 U
Total HxCDF		5.4 U	5.5	3.0	124	24.9	9.0 U
Total HpCDF		16.7	26.1	5.8	199	49.1	12.1 U
Total TEQ		0.565	1.1788	0.1125	39.356	7.1512	0.16

Values represent total concentrations unless noted < =Not detected at indicated reporting limit ---=Not analyzed

() =Less than Reporting Limit

U=non-dete[illegible]=estimated, R=rejected For RCL DIOX

TABLE 8

OFF-BASE DELINEATION
DIOXIN RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in pg/L)	SITE	TC002	TC006	TC006	WM002	WM002
	SAMPLE ID	TC002W1P2	TC006W1P1	TC006W1D1	WM002W1P1	WM002W1P2
	DATE	04/25/97	05/14/97	05/14/97	04/24/97	04/24/97
	RESULT TYPE	Primary	Primary	Duplicate 1	Primary	Primary
2,3,7,8-TCDD		5.3 U	5.8 U	2.2 U	4.7 U	4.8 U
1,2,3,7,8-PeCDD		4.5 U	7.2 U	2.4 U	8.2 U	5.1 U
1,2,3,4,7,8-HxCDD		6.6 U	7.2 U	2.6 U	8.7 U	6.8 U
1,2,3,6,7,8-HxCDD		5.6 U	5.2 U	1.9 U	6.8 U	6.2 U
1,2,3,7,8,9-HxCDD		5.7 U	5.6 U	2.0 U	7.8 U	6.0 U
1,2,3,4,6,7,8-HpCDD		11.5	6.8 U	8.2	8.5 U	6.2 U
1,2,3,4,6,7,8,9-OCDD		174	85.6	80.2	12.4 U	29.3 U
2,3,7,8-TCDF		5.1 U	4.3 U	1.7 U	3.6 U	4.8 U
1,2,3,7,8-PeCDF		3.5 U	5.0 U	1.8 U	4.7 U	4.5 U
2,3,4,7,8-PeCDF		3.7 U	4.8 U	1.8 U	4.8 U	4.3 U
1,2,3,4,7,8-HxCDF		5.1 U	5.2 U	1.8 U	5.6 U	5.4 U
1,2,3,6,7,8-HxCDF		4.2 U	3.7 U	1.3 U	4.2 U	4.3 U
2,3,4,6,7,8-HxCDF		5.4 U	5.0 U	3.7	6.0 U	5.4 U
1,2,3,7,8,9-HxCDF		6.2 U	5.3 U	1.9 U	6.8 U	5.9 U
1,2,3,4,6,7,8-HpCDF		5.5 U	4.8 U	1.7 U	5.9 U	3.9 U
1,2,3,4,7,8,9-HpCDF		7.6 U	6.0 U	2.2 U	8.2 U	6.0 U
1,2,3,4,6,7,8,9-OCDF		9.5 U	6.5 U	2.3 U	9.5 U	7.0 U
Total TCDD		5.3 U	5.8 U	2.2 U	4.7 U	4.8 U
Total PeCDD		4.5 U	7.2 U	2.4 U	8.2 U	5.1 U
Total HxCDD		5.9 U	5.9 U	2.1 U	7.7 U	6.3 U
Total HpCDD		11.5	6.8 U	16.1	8.5 U	6.2 U
Total TCDF		5.1 U	4.3 U	1.7 U	3.6 U	4.8 U
Total PeCDF		3.6 U	4.9 U	1.8 U	4.8 U	4.4 U
Total HxCDF		5.1 U	4.7 U	3.7	5.5 U	5.2 U
Total HpCDF		6.3 U	5.4 U	1.9 U	6.8 U	4.7 U
Total TEQ		0.289	0.0856	0.5322	0	0

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

U=non-detect, J=estimated, R=rejected For RCL DIOX

TABLE 9

OFF-BASE DELINEATION
VOC RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in ug/L)	SITE	BB003	BC003	C1001	C1001	TC002	TC006
	SAMPLE ID	BB003W1P1	BC003W1P1	C1001W1P1	C1001W1D1	TC002W1P1	TC006W1P1
	DATE	05/16/97	05/19/97	04/23/97	04/23/97	04/25/97	05/14/97
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
Chloromethane		10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane		10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride		10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride		10 U	10 U	10 U	10 U	10 U	10 U
Acetone		10 U	10 U	10 U	10 U	10 U	10 U
Carbon disulfide		10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene		10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane		10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethene (total)		10 U	10 U	10 U	10 U	10 U	10 U
Chloroform		10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane		10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone		10 U	10 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Carbon tetrachloride		10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane		10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloropropane		10 U	10 U	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene		10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene		10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane		10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Benzene		10 U	10 U	10 U	10 U	10 U	10 U
trans-1,3-Dichloropropene		10 U	10 U	10 U	10 U	10 U	10 U
Bromoform		10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone		10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone		10 U	10 U	10 U	10 U	10 U	10 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-dete[illegible] = estimated, For RCL VOA

TABLE 9

OFF-BASE DELINEATION
VOC RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in ug/L)	SITE	BB003	BC003	C1001	C1001	TC002	TC006
	SAMPLE ID	BB003W1P1	BC003W1P1	C1001W1P1	C1001W1D1	TC002W1P1	TC006W1P1
	DATE	05/16/97	05/19/97	04/23/97	04/23/97	04/25/97	05/14/97
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
Tetrachloroethene		10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Toluene		10 U	10 U	10 U	10 U	10 U	10 U
Chlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene		10 U	10 U	10 U	10 U	10 U	10 U
Styrene		10 U	10 U	10 U	10 U	10 U	10 U
Xylenes (total)		10 U	10 U	10 U	10 U	10 U	10 U

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

U=non-detect, J=estimated, For RCL VOA

TABLE 9

OFF-BASE DELINEATION
VOC RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in ug/L)	SITE	TC006	WM002
	SAMPLE ID	TC006W1D1	WM002W1P1
	DATE	05/14/97	04/24/97
	RESULT TYPE	Duplicate 1	Primary
Chloromethane		10 U	10 U
Bromomethane		10 U	10 U
Vinyl chloride		10 U	10 U
Chloroethane		10 U	10 U
Methylene Chloride		10 U	10 U
Acetone		10 U	10 U
Carbon disulfide		10 U	10 U
1,1-Dichloroethene		10 U	10 U
1,1-Dichloroethane		10 U	10 U
1,2-Dichloroethene (total)		10 U	10 U
Chloroform		10 U	10 U
1,2-Dichloroethane		10 U	10 U
2-Butanone		10 U	10 U
1,1,1-Trichloroethane		10 U	10 U
Carbon tetrachloride		10 U	10 U
Bromodichloromethane		10 U	10 U
1,2-Dichloropropane		10 U	10 U
cis-1,3-Dichloropropene		10 U	10 U
Trichloroethene		10 U	10 U
Dibromochloromethane		10 U	10 U
1,1,2-Trichloroethane		10 U	10 U
Benzene		10 U	10 U
trans-1,3-Dichloropropene		10 U	10 U
Bromoform		10 U	10 U
4-Methyl-2-pentanone		10 U	10 U
2-Hexanone		10 U	10 U

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

U=non-det[illegible] =estimated, For RCL VOA

TABLE 9

OFF-BASE DELINEATION
VOC RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in ug/L)	SITE	TC006	WM002
	SAMPLE ID	TC006W1D1	WM002W1P1
	DATE	05/14/97	04/24/97
	RESULT TYPE	Duplicate 1	Primary
Tetrachloroethene		10 U	10 U
1,1,2,2-Tetrachloroethane		10 U	10 U
Toluene		10 U	10 U
Chlorobenzene		10 U	10 U
Ethylbenzene		10 U	10 U
Styrene		10 U	10 U
Xylenes (total)		10 U	10 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-detect, J = estimated, For RCL VOA

TABLE 10

OFF-BASE DELINEATION
SVOC RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in ug/L)	SITE	BB003	BC003	C1001	C1001	TC002	TC006
	SAMPLE ID	BB003W1P1	BC003W1P1	C1001W1P1	C1001W1D1	TC002W1P1	TC006W1P1
	DATE	05/16/97	05/19/97	04/23/97	04/23/97	04/25/97	05/14/97
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
Phenol		10 U	10 U	10 U	10 U	10 U	10 U
bis(2-chloroethyl)ether		10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol		10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U
2,2'-oxybis(1-Chloropropane)		10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodinpropylamine		10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene		10 U	10 U	10 U	10 U	10 U	10 U
Isophorone		10 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol		10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol		10 U	10 U	10 U	10 U	10 U	10 U
bis(2-chloroethoxy)methane		10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline		10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene		10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene		10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene		10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol		25 U	25 U	25 U	25 U	25 U	25 U

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

U=non-dete[illegible]=estimated, For RCL SVOA

TABLE 10

OFF-BASE DELINEATION
SVOC RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in ug/L)	SITE	BB003	BC003	C1001	C1001	TC002	TC006
	SAMPLE ID	BB003W1P1	BC003W1P1	C1001W1P1	C1001W1D1	TC002W1P1	TC006W1P1
	DATE	05/16/97	05/19/97	04/23/97	04/23/97	04/25/97	05/14/97
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
2-Chloronaphthalene		10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline		25 U	25 U	25 U	25 U	25 U	25 U
Dimethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline		25 U	25 U	25 U	25 U	25 U	25 U
Acenaphthene		10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol		25 U	25 U	25 U	25 U	25 U	25 U
4-Nitrophenol		25 UJ	25 UJ	25 U	25 U	25 U	25 UJ
Dibenzofuran		10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether		10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline		25 U	25 U	25 U	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol		25 U	25 U	25 U	25 U	25 U	25 U
N-Nitrosodiphenylamine (1)		10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether		10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol		25 U	25 U	25 U	25 U	25 U	25 U
Phenanthrene		10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		10 U	10 U	10 U	10 U	10 U	10 U
Carbazole		10 U	10 U	10 U	10 U	10 U	10 U
Di-n-Butylphthalate		10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		10 U	10 U	10 U	10 U	10 U	10 U

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

U=non-detect, J=estimated, For RCL SVOA

TABLE 10

OFF-BASE DELINEATION
SVOC RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in ug/L)	SITE	BB003	BC003	C1001	C1001	TC002	TC006
	SAMPLE ID	BB003W1P1	BC003W1P1	C1001W1P1	C1001W1D1	TC002W1P1	TC006W1P1
	DATE	05/16/97	05/19/97	04/23/97	04/23/97	04/25/97	05/14/97
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
Butylbenzylphthalate		10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine		10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)Anthracene		10 U	10 U	10 U	10 U	10 U	10 U
Chrysene		10 U	10 U	10 U	10 U	10 U	10 U
bis(2-ethylhexyl)Phthalate		10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate		10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene		10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene		10 U	10 U	10 U	10 U	10 U	10 U

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

U =non-det[illegible] =estimated, For RCL SVOA

TABLE 10

OFF-BASE DELINEATION
SVOC RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in ug/L)	SITE	TC006	WM002
	SAMPLE ID	TC006W1D1	WM002W1P1
	DATE	05/14/97	04/24/97
	RESULT TYPE	Duplicate 1	Primary
Phenol		10 U	10 U
bis(2-chloroethyl)ether		10 U	10 U
2-Chlorophenol		10 U	10 U
1,3-Dichlorobenzene		10 U	10 U
1,4-Dichlorobenzene		10 U	10 U
1,2-Dichlorobenzene		10 U	10 U
2-Methylphenol		10 U	10 U
2,2'-oxybis(1-Chloropropane)		10 U	10 U
N-Nitrosodinpropylamine		10 U	10 U
4-Methylphenol		10 U	10 U
Hexachloroethane		10 U	10 U
Nitrobenzene		10 U	10 U
Isophorone		10 U	10 U
2-Nitrophenol		10 U	10 U
2,4-Dimethylphenol		10 U	10 U
bis(2-chloroethoxy)methane		10 U	10 U
2,4-Dichlorophenol		10 U	10 U
1,2,4-Trichlorobenzene		10 U	10 U
Naphthalene		10 U	10 U
4-Chloroaniline		10 U	10 U
Hexachlorobutadiene		10 U	10 U
4-Chloro-3-Methylphenol		10 U	10 U
2-Methylnaphthalene		10 U	10 U
Hexachlorocyclopentadiene		10 U	10 U
2,4,6-Trichlorophenol		10 U	10 U
2,4,5-Trichlorophenol		25 U	25 U

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

U = non-detect, J = estimated, For RCL SVOA

TABLE 10

OFF-BASE DELINEATION
SVOC RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in ug/L)	SITE	TC006	WM002
	SAMPLE ID	TC006W1D1	WM002W1P1
	DATE	05/14/97	04/24/97
	RESULT TYPE	Duplicate 1	Primary
2-Chloronaphthalene		10 U	10 U
2-Nitroaniline		25 U	25 U
Dimethylphthalate		10 U	10 U
Acenaphthylene		10 U	10 U
2,6-Dinitrotoluene		10 U	10 U
3-Nitroaniline		25 U	25 U
Acenaphthene		10 U	10 U
2,4-Dinitrophenol		25 U	25 U
4-Nitrophenol		25 UJ	25 U
Dibenzofuran		10 U	10 U
2,4-Dinitrotoluene		10 U	10 U
Diethylphthalate		10 U	10 U
4-Chlorophenyl-phenylether		10 U	10 U
Fluorene		10 U	10 U
4-Nitroaniline		25 U	25 U
4,6-Dinitro-2-methylphenol		25 U	25 U
N-Nitrosodiphenylamine (1)		10 U	10 U
4-Bromophenyl-phenylether		10 U	10 U
Hexachlorobenzene		10 U	10 U
Pentachlorophenol		25 U	25 U
Phenanthrene		10 U	10 U
Anthracene		10 U	10 U
Carbazole		10 U	10 U
Di-n-Butylphthalate		10 U	10 U
Fluoranthene		10 U	10 U
Pyrene		10 U	10 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-dete[illegible] = estimated, For RCL SVOA

TABLE 10

OFF-BASE DELINEATION
SVOC RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in ug/L)	SITE	TC006	WM002
	SAMPLE ID	TC006W1D1	WM002W1P1
	DATE	05/14/97	04/24/97
	RESULT TYPE	Duplicate 1	Primary
Butylbenzylphthalate		10 U	10 U
3,3'-Dichlorobenzidine		10 U	10 U
Benzo(a)Anthracene		10 U	10 U
Chrysene		10 U	10 U
bis(2-ethylhexyl)Phthalate		10 U	10 U
Di-n-octylphthalate		10 U	10 U
Benzo(b)fluoranthene		10 U	10 U
Benzo(k)fluoranthene		10 U	10 U
Benzo(a)pyrene		10 U	10 U
Indeno(1,2,3-cd)pyrene		10 U	10 U
Dibenzo(a,h)anthracene		10 U	10 U
Benzo(g,h,i)perylene		10 U	10 U

Values represent total concentrations unless noted < =Not detected at indicated reporting limit ---=Not analyzed

U=non-detect, J=estimated, For RCL SVOA

TABLE 11

OFF-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in ug/L)	SITE	BB003	BC003	C1001	C1001	TC002	TC006
	SAMPLE ID	BB003W1P1	BC003W1P1	C1001W1P1	C1001W1D1	TC002W1P1	TC006W1P1
	DATE	05/16/97	05/19/97	04/23/97	04/23/97	04/25/97	05/14/97
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
alpha-BHC		0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U
beta-BHC		0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U
delta-BHC		0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U
gamma-BHC(Lindane)		0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U
Heptachlor		0.05 U	0.05 UJ	0.05 UJ	0.026 J	0.05 UJ	0.05 U
Aldrin		0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U
Heptachlor epoxide		0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U
Endosulfan I		0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U
Dieldrin		0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U
4,4'-DDE		0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U
Endrin		0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U
Endosulfan II		0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U
4,4'-DDD		0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U
Endosulfan sulfate		0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U
4,4'-DDT		0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U
Methoxychlor		0.5 U	0.5 UJ	0.5 UJ	0.031 NJ	0.5 UJ	0.5 U
Endrin ketone		0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U
Endrin aldehyde		0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U
alpha-Chlordane		0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U
gamma-Chlordane		0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U
Toxaphene		5 U	5 UJ	5 UJ	5 UJ	5 UJ	5 U
Aroclor-1016		1 U	1 UJ	1 UJ	1 UJ	1 UJ	1 U
Aroclor-1221		2 U	2 UJ	2 UJ	2 UJ	2 UJ	2 U
Aroclor-1232		1 U	1 UJ	1 UJ	1 UJ	1 UJ	1 U
Aroclor-1242		1 U	1 UJ	1 UJ	1 UJ	1 UJ	1 U
Aroclor-1248		1 U	1 UJ	1 UJ	1 UJ	1 UJ	1 U

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

U=non-det[illegible] =estimated, For RCL PCB

TABLE 11

OFF-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in ug/L)	SITE	BB003	BC003	C1001	C1001	TC002	TC006
	SAMPLE ID	BB003W1P1	BC003W1P1	C1001W1P1	C1001W1D1	TC002W1P1	TC006W1P1
	DATE	05/16/97	05/19/97	04/23/97	04/23/97	04/25/97	05/14/97
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
Aroclor-1254		1 U	1 UJ	1 UJ	1 UJ	1 UJ	1 U
Aroclor-1260		1 U	1 UJ	1 UJ	1 UJ	1 UJ	1 U

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

U =non-detect, J =estimated, For RCL PCB

TABLE 11

OFF-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in ug/L)	SITE	TC006	WM002
	SAMPLE ID	TC006W1D1	WM002W1P1
	DATE	05/14/97	04/24/97
	RESULT TYPE	Duplicate 1	Primary
alpha-BHC		0.05 U	0.05 UJ
beta-BHC		0.05 U	0.05 UJ
delta-BHC		0.05 U	0.05 UJ
gamma-BHC(Lindane)		0.05 U	0.05 UJ
Heptachlor		0.05 U	0.05 UJ
Aldrin		0.05 U	0.05 UJ
Heptachlor epoxide		0.05 U	0.05 UJ
Endosulfan I		0.05 U	0.05 UJ
Dieldrin		0.1 U	0.1 UJ
4,4'-DDE		0.1 U	0.1 UJ
Endrin		0.1 U	0.1 UJ
Endosulfan II		0.1 U	0.1 UJ
4,4'-DDD		0.1 U	0.1 UJ
Endosulfan sulfate		0.1 U	0.1 UJ
4,4'-DDT		0.1 U	0.1 UJ
Methoxychlor		0.5 U	0.5 UJ
Endrin ketone		0.1 U	0.1 UJ
Endrin aldehyde		0.1 U	0.1 UJ
alpha-Chlordane		0.05 U	0.05 UJ
gamma-Chlordane		0.05 U	0.05 UJ
Toxaphene		5 U	5 UJ
Aroclor-1016		1 U	1 UJ
Aroclor-1221		2 U	2 UJ
Aroclor-1232		1 U	1 UJ
Aroclor-1242		1 U	1 UJ
Aroclor-1248		1 U	1 UJ

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

U=non-det[illegible]=estimated, For RCL PCB

TABLE 11

OFF-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in ug/L)	SITE	TC006	WM002
	SAMPLE ID	TC006W1D1	WM002W1P1
	DATE	05/14/97	04/24/97
	RESULT TYPE	Duplicate 1	Primary
Aroclor-1254		1 U	1 UJ
Aroclor-1260		1 U	1 UJ

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

U=non-detect, J=estimated, For RCL PCB

TABLE 12

OFF-BASE DELINEATION
HERBICIDE RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in ug/L)	SITE	BB003	BC003	C1001	C1001	TC002	TC006
	SAMPLE ID	BB003W1P1	BC003W1P1	C1001W1P1	C1001W1D1	TC002W1P1	TC006W1P1
	DATE	05/16/97	05/19/97	04/23/97	04/23/97	04/25/97	05/14/97
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
2,4-D		4 U	4 U	4 UJ	4 UJ	4 UJ	4 U
2,4,5-TP (Silvex)		1 U	1 U	1 UJ	1 U	1 U	1 U
2,4,5-T		1 U	1 U	1 UJ	1 U	1 U	1 U

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

U=non-det[illegible]=estimated, For RCL HERB

TABLE 12

OFF-BASE DELINEATION
HERBICIDE RESULTS
NCBC GULFPORT
(water)

Date: 10/03/97

CONSTITUENT (Units in ug/L)	SITE	TC006	WM002
	SAMPLE ID	TC006W1D1	WM002W1P1
	DATE	05/14/97	04/24/97
	RESULT TYPE	Duplicate 1	Primary
2,4-D		4 U	4 UJ
2,4,5-TP (Silvex)		1 U	1 U
2,4,5-T		1 U	1 U

Values represent total concentrations unless noted < =Not detected at indicated reporting limit ---=Not analyzed

U=non-detect, J=estimated, For RCL HERB

ATTACHMENT C

GLOSSARY

GLOSSARY

ABB-ES	ABB Environmental Services, Inc.
GPS	global positioning system
HO	herbicide orange
HpCDD	heptachlorodibenzo-p-dioxin
IR	installation restoration
MCL	maximum contaminant limit
MSDEQ	Mississippi Department of Environmental Quality
NCBC	Naval Construction Battalion Center
OCDD	octachlorodibenzodioxin
PCB	polychlorinated biphenyl
PeCDD	pentachloro-diphenodioxin
ppb	parts per billion
ppm	parts per million
ppq	parts per quadrillion
ppt	parts per trillion
SRT	sediment recovery trap
2,4,5-T	2,4,5-trichlorophenoxyacetic acid
TCDD	tetrachlorodibenzo-p-dioxin
TEQ	toxicity equivalent
TOC	total organic carbon

ATTACHMENT D

REFERENCES

REFERENCES

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APPENDIX B

APPENDIX B

DATA TABLES

TABLE 1

ON-BASE DELINEATION
DIOXIN/FURAN RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ng/kg)	SITE	D1001	D1001	D1002	D1003	D1003	D1006
	SAMPLE ID	D1001D1P3	D1001D1D3	D1002D1P1	D1003D1P1	D1003D1D1	D1006D1P1
	DATE / TIME	06/26/97 / 10:20	06/26/97 / 10:20	04/10/97 / 15:00	04/10/97 / 11:10	04/10/97 / 11:10	04/09/97 / 14:55
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Duplicate 1	Primary	Primary	Duplicate 1	Primary
2,3,7,8-TCDD		58.0	54.7	217	118	150	9.9
1,2,3,7,8-PeCDD		2.5	2.9	4.1	1.9	3.2	0.72
1,2,3,4,7,8-HxCDD		4.8	4.0	5.8	(0.92)	1.1	0.96
1,2,3,6,7,8-HxCDD		10.4	9.1	10.1	1.9	2.6	2.7
1,2,3,7,8,9-HxCDD		11.1	8.1	11.8	2.5	3.3	2.7
1,2,3,4,6,7,8-HpCDD		319	292	258	41.0	46.6	60.6
1,2,3,4,6,7,8,9-OCDD		3190	2680	2450	612	674	427
2,3,7,8-TCDF		4.1	3.6	15.5	17.5	22.5	(1.7)
1,2,3,7,8-PeCDF		0.97	0.4 U	1.2	0.9 U	(0.66)	0.2 U
2,3,4,7,8-PeCDF		0.85	0.4 U	0.95	0.9 U	0.76	0.2 U
1,2,3,4,7,8-HxCDF		3.7	4.3	11.2	1.8 U	1.9 U	1.6
1,2,3,6,7,8-HxCDF		2.5	2.5	2.3	0.64 U	0.50 U	0.90
2,3,4,6,7,8-HxCDF		5.1	4.7	3.0 U	0.75 U	1.5 U	1.2 U
1,2,3,7,8,9-HxCDF		0.5 U	0.6 U	0.23	1.5 U	0.7 U	0.3 U
1,2,3,4,6,7,8-HpCDF		47.5	47.3	45.2	11.1	12.9	11.1
1,2,3,4,7,8,9-HpCDF		2.6	2.7	3.1	(0.86)	(0.75)	1.1
1,2,3,4,6,7,8,9-OCDF		165	158	111	27.4	28.9	22.4
Total TCDD		63.1	54.7	---	130	163	11.3
Total PeCDD		12.3	17.7	---	4.1	11.0	2.1
Total HxCDD		138	100	---	14.9	31.0	23.2
Total HpCDD		939	783	---	97.1	114	140
Total TCDF		25.7	20.9	---	69.5	80.6	4.1
Total PeCDF		32.2	18.2	---	58.0	57.6	7.9
Total HxCDF		76.3	73.0	---	16.3	20.3	18.8
Total HpCDF		122	133	---	28.3	33.9	26.3
Total TEQ		70.9	66.0	231	122	156	12.5

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

() = Less than Reporting Limit

U = non-detect, J = estimated For RCL DIOX

EDL = estimated detection limit

TABLE 1

ON-BASE DELINEATION
DIOXIN/FURAN RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ng/kg)	SITE	D1007	D1008	D1008	D1009	D1010	D1010
	SAMPLE ID	D1007D1P3	D1008D1P1	D1008S1P1	D1009D1P1	D1010S1P1	D1010D1P3
	DATE / TIME	06/26/97 / 09:40	04/09/97 / 13:50	04/09/97 / 13:50	04/09/97 / 13:30	04/09/97 / 11:00	06/26/97 / 10:00
	DEPTH (ft)	0.00	0.00	0.50	0.00	0.50	0.00
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
2,3,7,8-TCDD		9.8	28.0	12.6	40.2	25.3	27.0
1,2,3,7,8-PeCDD		0.9 U	3.4	1.4	3.0	7.9	6.1
1,2,3,4,7,8-HxCDD		1.3 U	8.4	3.8	6.0	24.2	18.7
1,2,3,6,7,8-HxCDD		1.4	25.7	11.2	17.2	45.0	43.3
1,2,3,7,8,9-HxCDD		1.6	20.2	8.5	14.0	42.1	40.3
1,2,3,4,6,7,8-HpCDD		31.6	707	287	466	1420	1410
1,2,3,4,6,7,8,9-OCDD		326 J	5250	2480 J	3700	11700	16470
2,3,7,8-TCDF		2.5	3.3	2.1 U	4.9	(2.3)	15.1
1,2,3,7,8-PeCDF		0.6 U	1.1	0.3 U	1.3	3.3	3.4
2,3,4,7,8-PeCDF		0.6 U	1.3	0.76	0.79	3.0	1.9
1,2,3,4,7,8-HxCDF		1.3	15.8	5.5	11.0	41.0	18.8
1,2,3,6,7,8-HxCDF		0.7 U	5.5	2.0	5.1	11.5	21.4
2,3,4,6,7,8-HxCDF		0.9 U	6.7	2.1	3.6 U	9.3	18.5
1,2,3,7,8,9-HxCDF		1.0 U	(0.41)	0.5 U	(0.41)	0.5 U	2.1
1,2,3,4,6,7,8-HpCDF		5.6	107	66.4	82.7	335	206
1,2,3,4,7,8,9-HpCDF		1.5 U	7.1	5.4	5.0	26.2	18.4
1,2,3,4,6,7,8,9-OCDF		23.7 J	462	221 J	282	935	1050
Total TCDD		10.9	33.1	14.8	44.8	32.4	34.5
Total PeCDD		1.4	17.1	1.9	10.5	21.2	29.2
Total HxCDD		11.7	191	93.3	138	383	361
Total HpCDD		74.8	1460	622	997	2830	2800
Total TCDF		3.8	22.5	4.7	21.6	35.9	43.4
Total PeCDF		7.0	50.6	17.8	44.5	131	78.8
Total HxCDF		7.8	173	86.0	129	403	310
Total HpCDF		16.4	262	214	260	1350	706
Total TEQ		11.2 J	52.9	23.3 J	57.5	78.9	82.8

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

() = Less than Reporting Limit

U = non-det[illegible] = estimated For RCL DIOX [illegible] = estimated detection limit [illegible]

TABLE 1

ON-BASE DELINEATION
DIOXIN/FURAN RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ng/kg)	SITE	D1011	D1012	D1013	D1013	D1014	D1015
	SAMPLE ID	D1011D1P1	D1012D1P1	D1013D1P1	D1013S1P1	D1014D1P3	D1015D1P2
	DATE / TIME	04/09/97 / 10:25	04/09/97 / 09:40	04/09/97 / 08:40	04/09/97 / 08:40	06/26/97 / 09:20	04/22/97 / 11:11
	DEPTH (ft)	0.00	0.00	0.00	0.50	0.00	0.50
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
2,3,7,8-TCDD		67.7	31.2	10.2	27.9	23.7	95.6
1,2,3,7,8-PeCDD		4.4	2.7	1.5	3.1	2.4	3.9
1,2,3,4,7,8-HxCDD		10.4	6.5	2.7	6.8	4.7	6.3
1,2,3,6,7,8-HxCDD		28.2	17.4	7.8	20.3	15.8	16.8
1,2,3,7,8,9-HxCDD		25.1	16.6	6.3	18.5	13.6	16.7
1,2,3,4,6,7,8-HpCDD		849	498	207	611	454	424
1,2,3,4,6,7,8,9-OCDD		6700	4100	1860	5860	4760	3240 J
2,3,7,8-TCDF		18.6	5.9	(2.9)	5.6	7.0	15.9
1,2,3,7,8-PeCDF		2.4	1.1	0.82	0.96	1.4	1.2 U
2,3,4,7,8-PeCDF		1.9	1.3	0.96	1.3	0.98	1.1 U
1,2,3,4,7,8-HxCDF		21.5	11.5	4.9	12.9	10.7	7.5
1,2,3,6,7,8-HxCDF		11.9	6.1	2.6	4.3	4.1	4.9
2,3,4,6,7,8-HxCDF		6.9 U	4.9	2.0 U	4.0	6.4	5.6
1,2,3,7,8,9-HxCDF		1.0	(0.63)	0.51	0.7 U	0.5 U	1.6 U
1,2,3,4,6,7,8-HpCDF		153	101	41.1	140	81.9	78.9
1,2,3,4,7,8,9-HpCDF		14.8	6.9	3.6	8.5	5.5	6.7
1,2,3,4,6,7,8,9-OCDF		660	377	156	476	384	170 J
Total TCDD		79.0	36.6	12.3	30.8	28.3	98.7
Total PeCDD		22.1	9.1	4.7	10.1	8.3	10.1
Total HxCDD		221	147	56.3	164	133	136
Total HpCDD		1730	1010	428	1520	1000	932
Total TCDF		51.4	17.3	8.8	16.9	20.4	33.6
Total PeCDF		79.2	41.4	18.5	49.3	36.2	46.2
Total HxCDF		218	132	54.7	172	126	120
Total HpCDF		570	337	143	486	285	211
Total TEQ		100	50.7	18.8	51.3	42.2	113 J

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() = Less than Reporting Limit

U = non-detect, J = estimated For RCL DIOX

EDL = estimated detection limit

TABLE 1

ON-BASE DELINEATION
DIOXIN/FURAN RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ng/kg)	SITE	D1015	D1016	D1017	D1017	D1018	D1019
	SAMPLE ID	D1015D1D2	D1016D1P2	D1017D2P1	D1017D2D1	D1018D2P1	D1019D2P1
	DATE / TIME	04/22/97 / 11:11	04/22/97 / 10:21	10/09/97 / 10:45	10/09/97 / 10:45	10/09/97 / 10:35	10/09/97 / 09:12
	DEPTH (ft)	0.50	0.50	0.00	0.00	0.00	0.00
	RESULT TYPE	Duplicate 1	Primary	Primary	Duplicate 1	Primary	Primary
2,3,7,8-TCDD		80.3	1.3 U	16.4	19.8	1.3	3.5
1,2,3,7,8-PeCDD		3.2	1.5 U	5.8	6.4	1.7	9.7
1,2,3,4,7,8-HxCDD		4.7	3.0	14.3	17	5.3	24.2
1,2,3,6,7,8-HxCDD		14.1	6.3	55	64.3	10.5	53
1,2,3,7,8,9-HxCDD		14.2	6.6	38.2	44	10.9 J	50.7
1,2,3,4,6,7,8-HpCDD		369	148	2270	2680	371	1900 J
1,2,3,4,6,7,8,9-OCDD		2700 J	1410 J	2000 J	2000 J	3040 J	18240 J
2,3,7,8-TCDF		11.7	1.2 U	2	2.4	0.8 U	2.5
1,2,3,7,8-PeCDF		0.5 U	1.1 U	1.2	1.4	0.63	5
2,3,4,7,8-PeCDF		0.5 U	1.1 U	2.2	2.7	0.78	5.2
1,2,3,4,7,8-HxCDF		5.7	2.0	12.9	16.7 J	2.6 U	41.3 J
1,2,3,6,7,8-HxCDF		4.0	1.8	4.6	5.6	2.2	18.5
2,3,4,6,7,8-HxCDF		4.3	3.3	10.9 J	11.8 J	4.5 U	25.8 J
1,2,3,7,8,9-HxCDF		0.8 U	1.6 U	0.4 U	0.2 U	0.2 U	0.97
1,2,3,4,6,7,8-HpCDF		64.3	21.3	74.3	88.9	56.8	320 J
1,2,3,4,7,8,9-HpCDF		4.9	1.6 U	5.5	6.5	2.9	18 J
1,2,3,4,6,7,8,9-OCDF		141 J	48.1 J	177	222	156 J	1050 J
Total TCDD		85.6	1.3 U	21.2	24.4	2.7	15.3
Total PeCDD		17.2	1.5 U	29.5	41.2	9	50.9
Total HxCDD		113	45.8	534	624	147	736
Total HpCDD		814	308	4750	5560	1490	7250
Total TCDF		26.7	2.3	23.1	24.5	9.1	58
Total PeCDF		56.9	8.8	69.3	80.4	24.9	189
Total HxCDF		103	22.6	202	220	66.9	532
Total HpCDF		161	53.4	216	258	166	793
Total TEQ		95.0 J	5.45 J	59.9 J	70.6 J	13.0 J	74.6 J

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U = non-det[illegible] = estimated For RCL DIOX [illegible] = estimated detection limit [illegible]

TABLE 1

ON-BASE DELINEATION
DIOXIN/FURAN RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ng/kg)	SITE	D1020	D1021	D1022	D1023	D2001	D2001
	SAMPLE ID	D1020D2P1	D1021D2P1	D1022D2P1	D1023D2P1	D2001D1P3	D2001D1D3
	DATE / TIME	10/09/97 / 10:05	10/09/97 / 11:10	10/09/97 / 11:55	10/09/97 / 11:45	06/24/97 / 14:30	06/24/97 / 14:30
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Duplicate 1
2,3,7,8-TCDD		0.2 U	0.4 U	10.2	0.3 U	3830	3910
1,2,3,7,8-PeCDD		0.3 U	2.7	5.6	0.4 U	18.9	18.6
1,2,3,4,7,8-HxCDD		0.47	11.4	14.1	(0.19)	25.0	25.8
1,2,3,6,7,8-HxCDD		0.6	20.4	27	0.41	54.7	59.7
1,2,3,7,8,9-HxCDD		0.95	22.7 J	31.1 J	(0.26)	51.3	54.0
1,2,3,4,6,7,8-HpCDD		7.7	642	769	5.6	1690	1790
1,2,3,4,6,7,8,9-OCDD		88.4	4550	7550	62.6	15140 J	16020
2,3,7,8-TCDF		0.43	0.91 U	2.3	0.59 U	136	144
1,2,3,7,8-PeCDF		0.3 U	1.6	1.7	0.3 U	6.0	5.6
2,3,4,7,8-PeCDF		0.34	1.5	2	0.3 U	5.0	5.6
1,2,3,4,7,8-HxCDF		0.81 U	7.5 J	9.8 J	0.37 U	20.6	21.1
1,2,3,6,7,8-HxCDF		0.54 U	12.9	8.1	0.32	13.8	17.1
2,3,4,6,7,8-HxCDF		1.1 U	19.3 J	12.5 J	0.53 U	29.6	17.7
1,2,3,7,8,9-HxCDF		0.36	0.72	0.89	0.3 U	2.8 U	2.5 U
1,2,3,4,6,7,8-HpCDF		2.3	325	152	2.9 U	315	336
1,2,3,4,7,8,9-HpCDF		0.6	19.5	9.6	0.3 U	13.4	16.2
1,2,3,4,6,7,8,9-OCDF		4.4 U	536	355	3.9 U	1100 J	1060
Total TCDD		0.2 U	0.62	18.6	0.3 U	3950	4040
Total PeCDD		0.3 U	9.2	18.9	(0.11)	145	149
Total HxCDD		3.4	180	263	2	787	772
Total HpCDD		17.6	1140	1650	11.8	5250	5120
Total TCDF		0.95	10.1	21.5	0.6	543	574
Total PeCDF		0.78	60.8	55.9	1.3	754	773
Total HxCDF		6.1	300	207	3.5	607	657
Total HpCDF		5	690	460	5.7	872	951
Total TEQ		0.645	26.6 J	41.9 J	0.237	3910 J	3990

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TABLE 1

ON-BASE DELINEATION
DIOXIN/FURAN RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ng/kg)	SITE	D2002	D2003	D2004	D2005	D2006	D2006
	SAMPLE ID	D2002D1P2	D2003D1P3	D2004D1P2	D2005D1P3	D2006D1P2	D2006D1D2
	DATE / TIME	04/04/97 / 13:46	06/25/97 / 13:40	04/04/97 / 13:26	06/25/97 / 13:52	04/04/97 / 15:48	04/04/97 / 15:48
	DEPTH (ft)	0.50	0.00	0.50	0.00	0.50	0.50
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Duplicate 1
2,3,7,8-TCDD		44.7	283	1.8	7.1	0.8 UJ	0.2 U
1,2,3,7,8-PeCDD		0.9 U	5.1	0.3 U	1.3	0.9 UJ	0.3 U
1,2,3,4,7,8-HxCDD		1.0 U	9.9	1.2	3.1	1.0 UJ	0.3 U
1,2,3,6,7,8-HxCDD		4.0	29.3	2.7	9.5	0.8 UJ	0.54
1,2,3,7,8,9-HxCDD		2.0	23.4	2.5	7.7	0.8 UJ	1.0
1,2,3,4,6,7,8-HpCDD		113	732	74.7	251	19.8	19.8
1,2,3,4,6,7,8,9-OCDD		995	5920	580	2380	213	207
2,3,7,8-TCDF		4.0	16.8	0.2 U	1.1	0.7 UJ	0.2 U
1,2,3,7,8-PeCDF		0.8 U	2.2	0.2 U	0.41	0.7 UJ	0.2 U
2,3,4,7,8-PeCDF		0.7 U	2.6	0.2 U	0.57	0.7 UJ	0.2 U
1,2,3,4,7,8-HxCDF		2.7	12.5	2.6	3.6	0.8 UJ	0.59
1,2,3,6,7,8-HxCDF		0.5 U	6.7	0.65	1.9	0.5 UJ	0.25
2,3,4,6,7,8-HxCDF		1.3	11.2	1.3	3.7	0.7 UJ	0.64
1,2,3,7,8,9-HxCDF		0.7 U	0.6 U	0.3 U	0.6 U	0.8 UJ	0.2 U
1,2,3,4,6,7,8-HpCDF		31.2	96.5	14.6	38.8	6.1	5.3
1,2,3,4,7,8,9-HpCDF		1.7	6.2	0.91	2.7	0.9 U	0.3 U
1,2,3,4,6,7,8,9-OCDF		92.8	260	50.4	151	15.8	13.7
Total TCDD		44.7	303	1.8	8.3	0.8 U	0.2 U
Total PeCDD		0.9 U	18.3	0.3 U	4.7	0.9 U	0.81
Total HxCDD		22.7	232	8.4	76.8	16.6	10.6
Total HpCDD		204	1760	194	576	53.3	43.0
Total TCDF		10.4	46.9	0.73	5.2	0.7 U	0.50
Total PeCDF		21.5	106	2.4	13.2	2.4	3.4
Total HxCDF		30.3	190	20.6	62.3	3.0	6.6
Total HpCDF		110	262	39.0	122	15.6	12.9
Total TEQ		48.6	312	4.43	16.6	0.488	0.774

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TABLE 1

ON-BASE DELINEATION
DIOXIN/FURAN RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ng/kg)	SITE	D2007	D2008	D2009	D2010	D2011	D2012
	SAMPLE ID	D2007D1P2	D2008D1P3	D2009D1P1	D2010D2P1	D2011D2P1	D2012D2P1
	DATE / TIME	04/04/97 / 10:51	06/25/97 / 14:20	04/08/97 / 16:00	10/10/97 / 14:53	10/10/97 / 15:15	10/10/97 / 15:30
	DEPTH (ft)	0.50	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
2,3,7,8-TCDD		0.2 U	5.8	427	468	404	757
1,2,3,7,8-PeCDD		0.2 U	0.5 U	3.2	3	6.5	13.2
1,2,3,4,7,8-HxCDD		0.3 U	2.1	4.4	5.7	14.2	29.5
1,2,3,6,7,8-HxCDD		0.54	5.7	10.5	13.4	40.8	76.3
1,2,3,7,8,9-HxCDD		7.8	5.4	10.3	11.8 J	32.8 J	63.6 J
1,2,3,4,6,7,8-HpCDD		14.0	149	325	522	1270	1930
1,2,3,4,6,7,8,9-OCDD		174	1610	2900	4950	2000 J	1990 J
2,3,7,8-TCDF		0.2 U	1.5	24.4	18.5	29	31.7
1,2,3,7,8-PeCDF		0.2 U	0.3 U	1.5	0.87	2.5	4.8
2,3,4,7,8-PeCDF		0.2 U	0.3 U	1.2	1	3.1	5.5
1,2,3,4,7,8-HxCDF		0.2 U	3.3	4.5	7 J	9.4 J	18.5 J
1,2,3,6,7,8-HxCDF		0.1 U	1.7	3.1	3.7	8.5	15.2
2,3,4,6,7,8-HxCDF		0.38	3.1	3.8	7 J	11.5	18.1 J
1,2,3,7,8,9-HxCDF		0.2 U	0.5 U	1.1 U	1.1 U	0.44	0.61
1,2,3,4,6,7,8-HpCDF		0.76	29.0	56.4	147	189	350
1,2,3,4,7,8,9-HpCDF		0.3 U	2.1	3.8	5.8	10.1	20.4
1,2,3,4,6,7,8,9-OCDF		3.4	90.0	165	315	370	732
Total TCDD		0.83	7.0	443	482	420	802
Total PeCDD		2.4	1.6	16.1	9.9	33.2	58.8
Total HxCDD		13.9	49.5	122	167	518	623
Total HpCDD		19.6	347	913	1450	5640	4630
Total TCDF		0.2 U	5.4	96.7	43.7	97.7	143
Total PeCDF		0.2 U	15.5	131	102	210	271
Total HxCDF		0.38	45.2	94.3	166	291	490
Total HpCDF		0.99	82.7	159	470	556	1010
Total TEQ		1.20	11.6	442	489	441 J	818 J

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EDL = estimated detection limit

TABLE 1

ON-BASE DELINEATION
DIOXIN/FURAN RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ng/kg)	SITE	D2012	D2013	D2031	D2032	D2033	D3001
	SAMPLE ID	D2012D2D1	D2013D2P1	D2031D2P1	D2032D2P1	D2033D2P1	D3001D1P2
	DATE / TIME	10/10/97 / 15:30	10/10/97 / 15:50	11/07/97 / 10:30	11/07/97 / 11:00	11/07/97 / 11:30	04/07/97 / 16:06
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.50
	RESULT TYPE	Duplicate 1	Primary	Primary	Primary	Primary	Primary
2,3,7,8-TCDD		555	2.1	1110 J	196	649 J	80.2
1,2,3,7,8-PeCDD		16.1	0.9 U	28.8	ND	28.2	4.3
1,2,3,4,7,8-HxCDD		37.9	1.5 U	65.8	92.3	57.9 J	10.1
1,2,3,6,7,8-HxCDD		96.4	1.6	153	241	130	32.7
1,2,3,7,8,9-HxCDD		80 J	1.6	87.1 J	137 J	115 J	28.1
1,2,3,4,6,7,8-HpCDD		2280	48.6	4060 J	6710 J	3320 J	943
1,2,3,4,6,7,8,9-OCDD		1990 J	331	33520 J	54570 J	21900 J	7780
2,3,7,8-TCDF		28.9	0.5 U	28.1	28.6	72.5	6.3
1,2,3,7,8-PeCDF		5.4	0.6 U	12.5	10.6	8.7	5.1
2,3,4,7,8-PeCDF		6	0.6 U	14.1	11.2	8.5	4.4
1,2,3,4,7,8-HxCDF		26.7 J	0.9 U	127 J	222 J	34.5 J	25.9
1,2,3,6,7,8-HxCDF		18.7	0.7 U	39.7	48.1	36.7 J	19.9
2,3,4,6,7,8-HxCDF		20.8 J	0.9 U	63.8 J	97.3 J	53.4	21.8
1,2,3,7,8,9-HxCDF		1.1	1 U	0.9 U	1.1 U	16.1 J	1.3 U
1,2,3,4,6,7,8-HpCDF		390	6.3	698	1120 J	684	264
1,2,3,4,7,8,9-HpCDF		22.5	1.3 U	39.4	54.8	31.8	15.2
1,2,3,4,6,7,8,9-OCDF		766	16.9	1190	3090 J	1120	887
Total TCDD		588	2.1	1190	221	696	80.2
Total PeCDD		66.8	0.9 U	121	126	132	15.2
Total HxCDD		770	4.4	1380	1640	1320	300
Total HpCDD		5260	118	15030	14710	7280	2340
Total TCDF		118	0.5 U	167	113	224	35.5
Total PeCDF		280	2	511	416	510	158
Total HxCDF		586	7.6	1170	1120	879	328
Total HpCDF		1110	11.3	2060	1170	1470	773
Total TEQ		627 J	3.32	1270 J	441 J	783 J	120

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ND = Not Det[illegible]ed

U = non-dete[illegible] = estimated For RCL DIOX [illegible] = estimated detection limit

TABLE 1

ON-BASE DELINEATION
DIOXIN/FURAN RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ng/kg)	SITE	D3002	D3002	D3003	D3004	D3005	D3006
	SAMPLE ID	D3002D1P2	D3002D1D2	D3003D1P2	D3004D1P2	D3005D1P2	D3006D1P2
	DATE / TIME	04/07/97 / 14:51	04/07/97 / 14:51	04/07/97 / 15:21	04/07/97 / 14:21	04/07/97 / 11:11	04/07/97 / 08:41
	DEPTH (ft)	0.50	0.50	0.50	0.50	0.50	0.50
	RESULT TYPE	Primary	Duplicate 1	Primary	Primary	Primary	Primary
2,3,7,8-TCDD		2.7 U	1.6 U	6.2 U	15.7 U	4.5	1.2 U
1,2,3,7,8-PeCDD		2.6 U	1.7 U	6.6 U	14.3 U	2.0 U	1.2 U
1,2,3,4,7,8-HxCDD		2.9 U	2.0 U	6.5 U	12.2 U	2.3 U	1.3 U
1,2,3,6,7,8-HxCDD		2.7 U	1.8 U	(5.3)	11.1 U	4.8	1.2 U
1,2,3,7,8,9-HxCDD		2.6 U	2.4	5.7 U	10.7 U	2.0 U	1.2 U
1,2,3,4,6,7,8-HpCDD		144	148	267	56.7	99.8	10.7
1,2,3,4,6,7,8,9-OCDD		1450	1440	3180	410	1080	66.7
2,3,7,8-TCDF		2.7 U	1.6 U	0.89	17.5 UJ	1.1	1.2 U
1,2,3,7,8-PeCDF		2.2 U	1.3 U	4.8 U	14.5 U	1.5 U	0.9 U
2,3,4,7,8-PeCDF		2.1 U	1.3 U	4.7 U	14.0 U	1.5 U	0.9 U
1,2,3,4,7,8-HxCDF		2.3 U	1.6 U	5.2 U	11.6 U	3.5	1.1 U
1,2,3,6,7,8-HxCDF		1.9 U	1.3 U	4.2 U	9.3 U	1.4 U	0.9 U
2,3,4,6,7,8-HxCDF		2.3 U	1.6 U	5.2 U	11.6 U	1.8 U	1.1 U
1,2,3,7,8,9-HxCDF		2.6 U	1.8 U	5.7 U	12.8 U	2.0 U	1.3 U
1,2,3,4,6,7,8-HpCDF		23.2	18.6	42.3	9.0 U	21.0	2.0
1,2,3,4,7,8,9-HpCDF		2.7 U	2.0 U	5.9 U	14.0 U	(2.0)	1.3 U
1,2,3,4,6,7,8,9-OCDF		183	202	218	16.1 U	73.3	4.0
Total TCDD		2.7 U	1.6 U	6.2 U	15.7 U	4.5	1.2 U
Total PeCDD		2.6 U	1.7 U	6.6 U	14.3 U	3.8	1.2 U
Total HxCDD		11.3	22.0	18.0	11.3 U	12.6	1.2 U
Total HpCDD		310	308	517	56.7	205	22.3
Total TCDF		2.7 U	1.6 U	6.2 U	17.5 U	7.0	1.2 U
Total PeCDF		2.1 U	6.4	4.8 U	14.2 U	3.9	0.9 U
Total HxCDF		11.9	28.5	36.2	11.2 U	25.1	1.1 U
Total HpCDF		109	77.5	170	11.0 U	65.6	4.3
Total TEQ		3.30	3.55	7.11	0.977	7.82	0.198

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

() = Less than Reporting Limit

U = non-detect, J = estimated For RCL DIOX

EDL = estimated detection limit

TABLE 1

ON-BASE DELINEATION
DIOXIN/FURAN RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ng/kg)	SITE	D3007	D3008	D4001	D4002	D4003	D5001
	SAMPLE ID	D3007D1P3	D3008D1P3	D4001D1P2	D4002D1P3	D4003D1P2	D5001D1P3
	DATE / TIME	06/24/97 / 14:00	06/25/97 / 14:30	04/07/97 / 10:36	06/26/97 / 12:30	04/07/97 / 09:11	06/24/97 / 09:00
	DEPTH (ft)	0.00	0.00	0.50	0.00	0.50	0.00
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
2,3,7,8-TCDD		1.3 U	0.3 U	15.8 UJ	1.4	0.6 U	17.4
1,2,3,7,8-PeCDD		2.4	0.3 U	8.8 U	3.8	0.8 U	164
1,2,3,4,7,8-HxCDD		3.5	0.5 U	7.7 U	10.1	1.6	311
1,2,3,6,7,8-HxCDD		7.9	0.4 U	7.0 U	21.2	3.5	135
1,2,3,7,8,9-HxCDD		9.6	0.4 U	6.8 U	21.2	3.8	169
1,2,3,4,6,7,8-HpCDD		139	5.5	151	703	102	1540
1,2,3,4,6,7,8,9-OCDD		1240	102	1370	6260	1010	4320
2,3,7,8-TCDF		1.2 U	0.2 U	12.6 U	3.0	0.94	52.5
1,2,3,7,8-PeCDF		1.2 U	0.2 U	7.4 U	0.4 U	0.5 U	96.2
2,3,4,7,8-PeCDF		1.1 U	0.2 U	7.2 U	4.3	0.5 U	193
1,2,3,4,7,8-HxCDF		2.6	0.3 U	6.6 U	24.2	3.1	8310
1,2,3,6,7,8-HxCDF		1.9	0.3 U	5.3 U	9.2	1.1	1010
2,3,4,6,7,8-HxCDF		2.9	0.61	6.5 U	22.5	1.5	2350
1,2,3,7,8,9-HxCDF		2.6 U	0.4 U	7.3 U	0.6 U	0.8 U	67.6
1,2,3,4,6,7,8-HpCDF		33.2	0.86	34.9	224	19.9	5270
1,2,3,4,7,8,9-HpCDF		(2.8)	0.4 U	8.0 U	12.6	1.9	4340
1,2,3,4,6,7,8,9-OCDF		140	2.2	110	516	69.1	13480
Total TCDD		1.3 U	0.3 U	15.8 U	2.3	0.6 U	160
Total PeCDD		6.3	0.3 U	8.8 U	19.0	0.8 U	641
Total HxCDD		54.0	2.3	12.5	252	34.1	1880
Total HpCDD		283	13.6	396	2100	286	2850
Total TCDF		3.7	0.2 U	12.6 U	66.3	0.94	512
Total PeCDF		12.8	0.2 U	7.3 U	348	10.7	8960
Total HxCDF		17.7	0.61	33.3	358	24.7	27240
Total HpCDF		78.7	0.86	79.6	692	63.3	16280
Total TEQ		7.17	0.229	3.34	32.8	3.87	1570

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U =non-detected J =estimated For RCL DIOX UJ =estimated detection limit

TABLE 1

ON-BASE DELINEATION
DIOXIN/FURAN RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ng/kg)	SITE	D5002	D5003	D5004	D5004	D5005	D5006
	SAMPLE ID	D5002D1P3	D5003D1P2	D5004D1P2	D5004S1P1	D5005D1P2	D5006D1P2
	DATE / TIME	06/24/97 / 13:20	04/08/97 / 10:06	04/08/97 / 15:01	04/08/97 / 15:10	04/07/97 / 14:41	04/08/97 / 09:36
	DEPTH (ft)	0.00	0.50	0.25	0.50	0.50	0.50
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
2,3,7,8-TCDD		0.6 U	0.9 U	1.2 U	0.4 U	(14.6)	1.8 U
1,2,3,7,8-PeCDD		9.2	0.9 U	1.1 U	0.5 U	15.0 U	1.5 U
1,2,3,4,7,8-HxCDD		12.9	0.8 U	1.0 U	0.8 U	11.7 U	1.4 U
1,2,3,6,7,8-HxCDD		21.6	0.7 U	0.9 U	1.1	10.7 U	1.3 U
1,2,3,7,8,9-HxCDD		23.8	0.7 U	0.9 U	2.1	10.3 U	1.3 U
1,2,3,4,6,7,8-HpCDD		256	10.0 J	11.0	8.2	164	13.7 J
1,2,3,4,6,7,8,9-OCDD		1770	79.3 J	118	65.8	1290	141 J
2,3,7,8-TCDF		0.6 U	0.9 U	1.3 U	0.9 U	2.7	1.7 U
1,2,3,7,8-PeCDF		0.5 U	0.8 U	0.9 U	0.4 U	11.2 U	1.3 U
2,3,4,7,8-PeCDF		0.5 U	0.8 U	0.9 U	0.4 U	10.9 U	1.2 U
1,2,3,4,7,8-HxCDF		4.7	6.1	0.8 U	0.6 U	10.3 U	18.7
1,2,3,6,7,8-HxCDF		3.2	0.5 U	0.6 U	0.5 U	8.3 U	0.9 U
2,3,4,6,7,8-HxCDF		5.2	2.2	0.8 U	0.6 U	10.3 U	2.2
1,2,3,7,8,9-HxCDF		1.3 U	0.7 U	0.9 U	0.7 U	11.4 U	1.3 U
1,2,3,4,6,7,8-HpCDF		44.7	5.0	1.6	1.3	32.8	6.3
1,2,3,4,7,8,9-HpCDF		3.8	0.7 U	0.8 U	1.0 U	11.5 U	1.3 U
1,2,3,4,6,7,8,9-OCDF		278	6.6 J	3.6	1.4	150	8.2 J
Total TCDD		0.6 U	0.9 U	1.2 U	1.8	(14.6)	1.8 U
Total PeCDD		14.7	0.9 U	1.1 U	0.89	15.0 U	1.5 U
Total HxCDD		139	0.7 U	0.9 U	7.3	19.7	1.3 U
Total HpCDD		544	19.7	22.0	18.5	306	28.8
Total TCDF		2.7	4.7	1.3 U	14.2	13.8 U	13.1
Total PeCDF		4.7	10.9	0.9 U	1.0	11.1 U	14.5
Total HxCDF		61.7	15.3	0.8 U	1.5	46.1	19.7
Total HpCDF		100	11.0	4.3	1.3	73.8	19.5
Total TEQ		16.8	1.07 J	0.248	0.482	18.3	2.44 J

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

() = Less than Reporting Limit

U = non-detect, J = estimated For RCL DIOX EDL = estimated detection limit

TABLE 1

ON-BASE DELINEATION
DIOXIN/FURAN RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ng/kg)	SITE	D5007	D5007	D5008	D5009	D5010	D5011
	SAMPLE ID	D5007S1P1	D5007D1P3	D5008D1P2	D5009D1P2	D5010D1P2	D5011D1P2
	DATE / TIME	04/08/97 / 15:25	06/24/97 / 09:45	04/07/97 / 14:31	04/07/97 / 13:51	04/07/97 / 13:26	04/07/97 / 10:57
	DEPTH (ft)	0.50	0.00	0.50	0.50	0.50	0.50
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
2,3,7,8-TCDD		4.0	0.9 U	1.5 U	0.4 U	0.6 U	3.5
1,2,3,7,8-PeCDD		3.8	1.0 U	1.6 U	0.3 U	0.4 U	1.0 U
1,2,3,4,7,8-HxCDD		7.5	1.6 UJ	1.4 U	0.83	0.5 U	3.2
1,2,3,6,7,8-HxCDD		20.9	1.7 J	1.3 U	2.3	0.5 U	10.4
1,2,3,7,8,9-HxCDD		17.5	1.4 UJ	1.2 U	2.2	0.5 U	11.5
1,2,3,4,6,7,8-HpCDD		657	33.1	39.0	62.6	12.3	316
1,2,3,4,6,7,8,9-OCDD		5550	441	456	551	173	3530
2,3,7,8-TCDF		1.2	(0.34)	1.6 U	0.5 U	0.6 U	2.2
1,2,3,7,8-PeCDF		(0.90)	0.9 U	1.2 U	0.3 U	0.4 U	0.7 U
2,3,4,7,8-PeCDF		(1.1)	0.8 U	1.2 U	0.3 U	0.4 U	0.7 U
1,2,3,4,7,8-HxCDF		31.9	5.8 J	1.4 U	10.4	0.74	25.3
1,2,3,6,7,8-HxCDF		4.4	1.2 UJ	1.1 U	0.80	0.4 U	3.6
2,3,4,6,7,8-HxCDF		4.9	1.4 UJ	1.4 U	1.8 U	0.77 U	3.8 U
1,2,3,7,8,9-HxCDF		2.1 U	1.6 UJ	1.6 U	0.4 U	0.6 U	1.0 U
1,2,3,4,6,7,8-HpCDF		90.5	9.0	7.2	13.4	2.4 U	42.7
1,2,3,4,7,8,9-HpCDF		3.2 U	2.0 U	1.5 U	2.1 U	0.6 U	4.5
1,2,3,4,6,7,8,9-OCDF		268	23.3	23.5	28.1	7.7 U	151
Total TCDD		4.0	0.9 U	1.5 U	0.4 U	0.6 U	3.5
Total PeCDD		8.7	1.0 U	1.6 U	0.3 U	0.4 U	1.0 U
Total HxCDD		131	4.0	3.6	10.0	0.5 U	68.2
Total HpCDD		1190	39.2	127	125	21.7	592
Total TCDF		11.2	0.8 U	1.6 U	1.1	0.6 U	24.9
Total PeCDF		45.6	9.8	2.2	6.8	1.2	17.9
Total HxCDF		149	28.3	4.8	24.2	3.2	86.2
Total HpCDF		90.5	27.6	7.2	13.4	2.4	161
Total TEQ		28.6	1.67 J	0.942	2.99	0.370	16.4

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() = Less than Reporting Limit

U = non-det[illegible] = estimated For RCL DIOX [illegible] = estimated detection limit [illegible]

TABLE 1

ON-BASE DELINEATION
DIOXIN/FURAN RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ng/kg)	SITE	D5011	D5012	D5013	D5013	D5014	D5015
	SAMPLE ID	D5011D1D2	D5012D1P3	D5013D1P2	D5013S1P1	D5014D1P2	D5015D1P2
	DATE / TIME	04/07/97 / 10:57	06/24/97 / 13:45	04/07/97 / 09:46	04/08/97 / 15:45	04/07/97 / 09:11	04/07/97 / 08:41
	DEPTH (ft)	0.50	0.00	0.50	0.00	0.50	0.50
	RESULT TYPE	Duplicate 1	Primary	Primary	Primary	Primary	Primary
2,3,7,8-TCDD		18.3 U	6.2	6.9 U	0.3 U	11.2 U	5.2 U
1,2,3,7,8-PeCDD		7.8 U	3.7	6.2 U	0.4 U	7.0 U	6.4 U
1,2,3,4,7,8-HxCDD		8.0 U	9.1	6.6 U	0.99	6.9 U	11.0
1,2,3,6,7,8-HxCDD		7.3 U	20.8	10.3	3.0	15.9	32.1
1,2,3,7,8,9-HxCDD		7.0 U	21.8	9.6	4.0	19.2	38.6
1,2,3,4,6,7,8-HpCDD		457 J	570	335	66.3	440	868
1,2,3,4,6,7,8,9-OCDD		4800 J	6390	2890	547	4420	9070 J
2,3,7,8-TCDF		34.3 U	2.2	1.5	0.51	5.2 U	5.2 U
1,2,3,7,8-PeCDF		8.6 U	1.2	4.6 U	0.3 U	5.5 U	5.2 U
2,3,4,7,8-PeCDF		8.3 U	1.8	4.4 U	0.3 U	5.3 U	5.0 U
1,2,3,4,7,8-HxCDF		34.7	11.0	14.6	1.3	19.1	27.8
1,2,3,6,7,8-HxCDF		6.3 U	4.7	4.4 U	0.70	5.0 U	9.7
2,3,4,6,7,8-HxCDF		7.8 U	8.0	5.4 U	0.76	6.2 U	8.2 U
1,2,3,7,8,9-HxCDF		8.6 U	1.1 U	6.0 U	0.5 U	6.9 U	4.5 U
1,2,3,4,6,7,8-HpCDF		5.5 U	79.1	32.5	8.7	52.9	114
1,2,3,4,7,8,9-HpCDF		8.6 U	7.8	5.9 U	0.7 U	6.0 U	12.7 U
1,2,3,4,6,7,8,9-OCDF		617 J	582	120	20.9	220	259 J
Total TCDD		18.3 U	6.2	6.9 U	1.9	11.2 U	18.0
Total PeCDD		7.8 U	5.9	6.2 U	2.3	7.0 U	92.4
Total HxCDD		52.8	150	10.3	23.8	35.1	218
Total HpCDD		812	1250	654	132	723	1560
Total TCDF		34.3 U	14.7	20.2	7.2	11.7 U	18.2
Total PeCDF		109	35.8	14.3	5.5	57.3	96.8
Total HxCDF		71.3	130	71.6	14.5	90.4	156
Total HpCDF		115	234	112	24.0	183	358
Total TEQ		13.5 J	30.3	10.3	2.44	15.0	31.1 J

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-detect, J = estimated For RCL DIOX

EDL = estimated detection limit

TABLE 1

ON-BASE DELINEATION
DIOXIN/FURAN RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ng/kg)	SITE	D5016	D5017	D5018	D5019	D5020	D5021
	SAMPLE ID	D5016D1P2	D5017D1P2	D5018D2P1	D5019D2P1	D5020D2P1	D5021D2P1
	DATE / TIME	04/08/97 / 15:06	04/08/97 / 15:06	10/10/97 / 08:35	10/10/97 / 10:45	10/10/97 / 09:15	10/10/97 / 09:45
	DEPTH (ft)	0.50	0.50	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
2,3,7,8-TCDD		0.8 U	2.7	4.9	3.1	2.6	7.9
1,2,3,7,8-PeCDD		0.9 U	0.8 U	1.4	2	2.6	3.7
1,2,3,4,7,8-HxCDD		1.3	2.9	1.3	5	7.6	11.1
1,2,3,6,7,8-HxCDD		4.7	9.4	3.7	13.1	17.5	26.3
1,2,3,7,8,9-HxCDD		4.5	6.9	3	12.3	16.6	30.9
1,2,3,4,6,7,8-HpCDD		140	273 J	103	387	512	796
1,2,3,4,6,7,8,9-OCDD		1050	2580	1110	3900	3850	2000 J
2,3,7,8-TCDF		1.7	0.7 U	1.8	1.1	1.5	4.1
1,2,3,7,8-PeCDF		0.7 U	0.6 U	2.1	0.6 U	1.2	1.9
2,3,4,7,8-PeCDF		0.6 U	0.6 U	1.7	0.95	1.9	2.2
1,2,3,4,7,8-HxCDF		2.5	28.2	8.6 J	47.7 J	8.3 J	8 J
1,2,3,6,7,8-HxCDF		1.1	3.1	2.6	2.7	5.2	8.6
2,3,4,6,7,8-HxCDF		2.1	5.0	2.9 J	5.9	7.9 J	6.2
1,2,3,7,8,9-HxCDF		0.8 U	0.7 U	0.26	0.8 U	0.37	0.83
1,2,3,4,6,7,8-HpCDF		25.9	44.2	35.3	74.1	120	146
1,2,3,4,7,8,9-HpCDF		1.2	5.9	3	5.4	9.7	11.7
1,2,3,4,6,7,8,9-OCDF		77.9	123	60.1	177	292	379
Total TCDD		0.8 U	2.7	7.8	3.1	4.4	20.4
Total PeCDD		3.3	0.8 U	3.7	6	8.3	14.4
Total HxCDD		33.5	65.9	32.1	95.9	115	254
Total HpCDD		302	804	228	828	911	1700
Total TCDF		8.1	4.5	15.1	11.1	21.3	30.8
Total PeCDF		12.9	16.9	16.4	32.3	69.8	63.5
Total HxCDF		34.7	98.9	35.5	104	186	206
Total HpCDF		74.8	148	87.2	242	386	161
Total TEQ		4.59	14.2 J	12.0 J	22.0 J	22.0 J	32.0 J

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

U=non-det[illegible] =estimated For RCL DIOX [illegible] =estimated detection limit [illegible]

TABLE 1

ON-BASE DELINEATION
DIOXIN/FURAN RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ng/kg)	SITE	D5027	D5030	D5032	D5033	D5034	D5035
	SAMPLE ID	D5027DPP1	D5030DPP1	D5032D2P1	D5033D2P1	D5034D2P1	D5035D2P1
	DATE / TIME	08/01/97 / 12:00	08/01/97 / 12:00	10/10/97 / 08:35	10/10/97 / 10:45	10/10/97 / 09:15	10/10/97 / 09:45
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
2,3,7,8-TCDD		0.17 U	8.4	4.9	3.1	2.6	7.9
1,2,3,7,8-PeCDD		1.9	106	1.4	2	2.6	3.7
1,2,3,4,7,8-HxCDD		4.4	184	1.3	5	7.6	11.1
1,2,3,6,7,8-HxCDD		3	78.3	3.7	13.1	17.5	26.3
1,2,3,7,8,9-HxCDD		2.8	92.4	3	12.3	16.6	30.9
1,2,3,4,6,7,8-HpCDD		35.5	851	103	387	512	796
1,2,3,4,6,7,8,9-OCDD		186	2610	1110	3900	3850	2000 J
2,3,7,8-TCDF		2.8	9.5 J	1.8	1.1	1.5	4.1
1,2,3,7,8-PeCDF		2.1 U	2.1 U	2.1	0.6 U	1.2	1.9
2,3,4,7,8-PeCDF		7.2	110	1.7	0.95	1.9	2.2
1,2,3,4,7,8-HxCDF		107	5260	8.6 J	47.7 J	8.3 J	8 J
1,2,3,6,7,8-HxCDF		24.6	508	2.6	2.7	5.2	8.6
2,3,4,6,7,8-HxCDF		96.3	1150	2.9 J	5.9	7.9 J	6.2
1,2,3,7,8,9-HxCDF		399 J	19490 J	0.26	0.8 U	0.37	0.83
1,2,3,4,6,7,8-HpCDF		228	5070	35.3	74.1	120	146
1,2,3,4,7,8,9-HpCDF		67.4	3410	3	5.4	9.7	11.7
1,2,3,4,6,7,8,9-OCDF		289	11770	60.1	177	292	379
Total TCDD		3.2	102	7.8	3.1	4.4	20.4
Total PeCDD		3.6	395	3.7	6	8.3	14.4
Total HxCDD		50.4	1130	32.1	95.9	115	254
Total HpCDD		74.5	1700	228	828	911	1700
Total TCDF		287 J	898 J	15.1	11.1	21.3	30.8
Total PeCDF		1070 J	9380 J	16.4	32.3	69.8	63.5
Total HxCDF		1400 J	14680 J	35.5	104	186	206
Total HpCDF		605	14770 J	87.2	242	386	161
Total TEQ		72.3 J	2900 J	11.6 J	22.1 J	22.0 J	32.5 J

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-detect, J = estimated For RCL DIOX

EDL = estimated detection limit

TABLE 1

ON-BASE DELINEATION
DIOXIN/FURAN RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ng/kg)	SITE	D6001	D6002	D6002	D6003	D6004	D6005
	SAMPLE ID	D6001D1P2	D6002D1P2	D6002D1D2	D6003D1P2	D6004D1P2	D6005D1P3
	DATE / TIME	04/08/97 / 08:01	04/08/97 / 09:06	04/08/97 / 09:06	04/08/97 / 13:06	04/08/97 / 10:01	06/25/97 / 15:00
	DEPTH (ft)	0.50	0.50	0.50	0.50	0.50	0.00
	RESULT TYPE	Primary	Primary	Duplicate 1	Primary	Primary	Primary
2,3,7,8-TCDD		0.3 U	0.3 U	0.5 U	0.7 U	0.5 U	0.7 U
1,2,3,7,8-PeCDD		0.3 U	0.3 U	0.6 U	0.8 U	0.5 U	3.6
1,2,3,4,7,8-HxCDD		0.48	0.3 U	0.4 U	3.0	0.5 U	7.6
1,2,3,6,7,8-HxCDD		1.3	0.63	0.4 U	6.4	1.8	23.9
1,2,3,7,8,9-HxCDD		1.6	1.0	0.4 U	5.7	1.8	18.5
1,2,3,4,6,7,8-HpCDD		39.8	13.1	13.4	211	32.0	480
1,2,3,4,6,7,8,9-OCDD		399	471	642	2210	285	3740
2,3,7,8-TCDF		0.2 U	0.2 U	0.5 U	0.6 U	0.4 U	1.7
1,2,3,7,8-PeCDF		0.2 U	0.2 U	0.4 U	0.6 U	0.4 U	1.5
2,3,4,7,8-PeCDF		0.2 U	0.2 U	0.4 U	0.6 U	0.4 U	1.9
1,2,3,4,7,8-HxCDF		1.4	2.1	0.3 U	2.5	0.4 U	17.9
1,2,3,6,7,8-HxCDF		0.34	0.2 U	0.3 U	1.5	0.3 U	4.8
2,3,4,6,7,8-HxCDF		1.2	0.61	0.3 U	2.6	0.4 U	8.0
1,2,3,7,8,9-HxCDF		0.3 U	0.3 U	0.4 U	0.7 U	0.4 U	1.1 U
1,2,3,4,6,7,8-HpCDF		7.7	1.8	1.3	33.6	5.0	63.9
1,2,3,4,7,8,9-HpCDF		0.56	0.54	0.5 U	3.0	0.5 U	4.1
1,2,3,4,6,7,8,9-OCDF		27.5	3.4	3.9	97.6	9.5	159
Total TCDD		1.8	0.3 U	0.5 U	0.7 U	0.61	0.84
Total PeCDD		0.84	0.3 U	0.6 U	0.8 U	0.5 U	4.7
Total HxCDD		7.4	2.3	3.9	55.3	9.6	170
Total HpCDD		82.1	31.1	33.8	610	70.3	1370
Total TCDF		1.5	0.71	0.5 U	2.4	1.7	10.0
Total PeCDF		2.0	4.2	0.4 U	13.1	2.0	42.4
Total HxCDF		10.0	0.44	0.3 U	34.5	6.0	130
Total HpCDF		21.8	4.0	2.6	104	13.1	164
Total TEQ		1.54	1.06	0.793	6.95	1.02	20.4

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U = non-det[illegible] = estimated For RCL DIOX [illegible] = estimated detection limit [illegible]

TABLE 1

ON-BASE DELINEATION
DIOXIN/FURAN RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ng/kg)	SITE	D6006	L8001	L8002	L8005	L8006	L8007
	SAMPLE ID	D6006D1P2	L8001S1P1	L8002S1P1	L8005S1P1	L8006S1P1	L8007S1P2
	DATE / TIME	04/08/97 / 13:01	04/09/97 / 09:00	04/09/97 / 11:05	04/09/97 / 10:15	04/09/97 / 15:40	04/23/97 / 09:26
	DEPTH (ft)	0.50	0.00	0.00	0.00	0.00	0.50
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
2,3,7,8-TCDD		1.3 U	1.2	0.70	0.45	102	1.6 U
1,2,3,7,8-PeCDD		4.8	0.6 U	0.4 U	0.66	25.9	1.5 U
1,2,3,4,7,8-HxCDD		6.7	1.1 U	(0.48)	1.2	2.0	2.5 U
1,2,3,6,7,8-HxCDD		17.9	0.9 U	0.69	2.6	5.9	1.9 U
1,2,3,7,8,9-HxCDD		17.0	1.0 U	0.97	3.1	2.7	2.1 U
1,2,3,4,6,7,8-HpCDD		393	7.5	20.7	58.2	52.5	35.1
1,2,3,4,6,7,8,9-OCDD		3470	642	447	474	746	268
2,3,7,8-TCDF		1.1 U	0.3 U	0.2 U	0.1 U	4.8	1.4 U
1,2,3,7,8-PeCDF		1.1 U	0.5 U	0.3 U	0.2 U	0.2 U	1.1 U
2,3,4,7,8-PeCDF		1.0 U	0.5 U	0.3 U	0.42	1.7	1.1 U
1,2,3,4,7,8-HxCDF		12.2	0.6 U	0.59	2.9	0.3 U	3.0
1,2,3,6,7,8-HxCDF		3.9	0.5 U	0.3 U	0.80	0.2 U	1.2 U
2,3,4,6,7,8-HxCDF		6.7	0.7 U	(0.37)	1.3	0.3 U	1.5 U
1,2,3,7,8,9-HxCDF		1.3 U	0.7 U	0.4 U	0.3 U	0.3 U	1.7 U
1,2,3,4,6,7,8-HpCDF		75.5	0.9 U	3.5	25.0	7.7	6.8
1,2,3,4,7,8,9-HpCDF		7.9	1.2 U	0.6 U	1.4	0.6 U	2.2 U
1,2,3,4,6,7,8,9-OCDF		312	1.3 U	4.9	41.2	10.1	16.7
Total TCDD		1.3 U	1.6	0.70	0.88	262	1.6 U
Total PeCDD		4.8	0.6 U	0.4 U	1.9	257	1.9
Total HxCDD		117	(0.89)	7.5	30.8	210	5.1
Total HpCDD		789	7.5	46.9	140	138	68.7
Total TCDF		2.0	0.3 U	0.36	1.6	227	1.4 U
Total PeCDF		39.2	(0.47)	1.9	11.5	226	3.2
Total HxCDF		96.1	0.6 U	3.8	29.5	22.6	10.3
Total HpCDF		247	1.0 U	3.5	64.1	20.9	6.8
Total TEQ		17.4	1.92	1.70	3.54	119	1.00

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() = Less than Reporting Limit

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EDL = estimated detection limit

TABLE 1

ON-BASE DELINEATION
DIOXIN/FURAN RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ng/kg)	SITE	L8008	L8010	L8011	L8012	L8013	L8013
	SAMPLE ID	L8008S1P2	L8010S1P1	L8011S1P1	L8012S1P1	L8013S1P2	L8013S1D2
	DATE / TIME	04/23/97 / 09:56	04/09/97 / 16:30	04/09/97 / 13:50	04/09/97 / 15:05	04/25/97 / 10:06	04/25/97 / 10:06
	DEPTH (ft)	0.50	0.00	0.75	0.00	0.50	0.50
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Duplicate 1
2,3,7,8-TCDD		2.5	1.0	0.71	3.3	2.7 U	1.7
1,2,3,7,8-PeCDD		1.2 U	0.4 U	0.3 U	0.3 U	2.1 U	0.1 U
1,2,3,4,7,8-HxCDD		1.9 U	0.9 U	0.6 U	0.5 U	2.8 U	0.2 U
1,2,3,6,7,8-HxCDD		1.5 U	0.7 U	0.5 U	2.2	2.6 U	0.59
1,2,3,7,8,9-HxCDD		1.6 U	0.7 U	0.5 U	1.6	2.5 U	0.38
1,2,3,4,6,7,8-HpCDD		53.9	1.7	2.9	67.8	12.2	13.7
1,2,3,4,6,7,8,9-OCDD		496	16.5	176	631	345	335
2,3,7,8-TCDF		0.9 U	0.40	0.2 U	0.2 U	2.7 U	0.71
1,2,3,7,8-PeCDF		0.8 U	0.3 U	0.3 U	0.2 U	2.0 U	0.1 U
2,3,4,7,8-PeCDF		0.8 U	0.3 U	0.3 U	0.2 U	1.9 U	0.46
1,2,3,4,7,8-HxCDF		2.3	0.5 U	0.4 U	0.3 U	2.2 U	2.8
1,2,3,6,7,8-HxCDF		1.0 U	0.4 U	0.3 U	0.35	1.8 U	0.71
2,3,4,6,7,8-HxCDF		1.2 U	(0.48)	0.4 U	0.64	2.2 U	2.6
1,2,3,7,8,9-HxCDF		1.3 U	0.6 U	0.4 U	0.3 U	2.4 U	0.2 U
1,2,3,4,6,7,8-HpCDF		9.2	6.4	0.6 U	7.1	8.6	11.0
1,2,3,4,7,8,9-HpCDF		1.6 U	1.3 U	0.8 U	0.5 U	3.5 U	0.2 U
1,2,3,4,6,7,8,9-OCDF		28.9	1.9 U	0.9 U	13.9	3.8 U	9.5
Total TCDD		2.5	1.0	0.71	3.3	2.7 U	1.7
Total PeCDD		1.2 U	0.69	0.3 U	0.47	2.1 U	1.3
Total HxCDD		7.6	1.8	0.5 U	23.7	2.6 U	3.2
Total HpCDD		227	4.5	5.9	341	12.2	29.4
Total TCDF		1.6	1.0	0.2 U	0.71	2.7 U	4.1
Total PeCDF		8.7	1.2	0.3 U	10.0	28.9	33.8
Total HxCDF		9.8	7.5	0.4 U	10.9	9.9	29.2
Total HpCDF		29.2	6.4	0.7 U	7.1	8.6	22.0
Total TEQ		3.89	1.19	0.915	5.17	0.553	3.30

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() = Less the[illegible]porting Limit

U = non-dete[illegible] = estimated For RCL DIOX [illegible] = estimated detection limit

TABLE 1

ON-BASE DELINEATION
DIOXIN/FURAN RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ng/kg)	SITE	L8015	L8016	L8017	L8018	L8019	L8020
	SAMPLE ID	L8015S1P1	L8016S1P2	L8017S1P2	L8018S1P2	L8019S1P2	L8020S1P2
	DATE / TIME	04/09/97 / 14:15	04/24/97 / 15:11	04/23/97 / 14:36	04/24/97 / 11:56	04/22/97 / 15:01	04/23/97 / 13:01
	DEPTH (ft)	0.00	0.50	0.50	0.50	0.50	0.50
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
2,3,7,8-TCDD		0.60	83.5	5.0	35.7	0.74	0.88
1,2,3,7,8-PeCDD		0.4 U	0.3 U	1.2 U	1.3 U	0.4 U	0.3 U
1,2,3,4,7,8-HxCDD		0.7 U	0.99	1.4 U	6.7	0.7 U	0.5 U
1,2,3,6,7,8-HxCDD		0.98	1.5	2.9	18.8	1.8	0.4 U
1,2,3,7,8,9-HxCDD		0.93	2.0	2.9	12.0	2.2	0.4 U
1,2,3,4,6,7,8-HpCDD		17.7	53.8 J	79.7	583	50.9	7.0
1,2,3,4,6,7,8,9-OCDD		202	463 J	696	4520	595	311
2,3,7,8-TCDF		0.32	1.4	0.8 U	4.0	0.4 U	0.3 U
1,2,3,7,8-PeCDF		0.3 U	0.3 U	0.9 U	1.1 U	0.3 U	0.3 U
2,3,4,7,8-PeCDF		0.37	0.3 U	0.9 U	2.5	0.3 U	0.3 U
1,2,3,4,7,8-HxCDF		1.1	1.00	1.0 U	21.0	1.4	0.80
1,2,3,6,7,8-HxCDF		0.65	0.3 U	2.2	5.5	0.46	0.3 U
2,3,4,6,7,8-HxCDF		1.1	0.85	4.0	8.1	1.4 U	0.93
1,2,3,7,8,9-HxCDF		0.4 U	0.4 U	1.0 U	1.7 U	0.6 U	0.4 U
1,2,3,4,6,7,8-HpCDF		11.1	4.7	41.2	134	23.7	3.3
1,2,3,4,7,8,9-HpCDF		0.8 U	0.4 U	1.3 U	9.1	0.99	0.5 U
1,2,3,4,6,7,8,9-OCDF		12.4	20.2 J	64.5	501	37.7	2.1
Total TCDD		0.87	83.5	5.0	35.7	0.74	0.88
Total PeCDD		0.48	1.5	1.2 U	11.7	0.4 U	0.3 U
Total HxCDD		6.9	31.9	23.9	147	21.1	0.4 U
Total HpCDD		31.8	294	189	1290	158	19.3
Total TCDF		3.9	3.3	0.8 U	17.6	5.0	1.5
Total PeCDF		21.4	11.9	32.4	97.8	7.4	6.7
Total HxCDF		20.9	2.1	50.9	186	20.2	7.4
Total HpCDF		11.1	16.7	98.9	496	53.3	5.7
Total TEQ		1.80	85.3 J	8.20	56.8	2.71	1.47

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EDL = estimated detection limit

TABLE 1

ON-BASE DELINEATION
DIOXIN/FURAN RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ng/kg)	SITE	L8020	L8021	L8022	L8023	L8024	L8025
	SAMPLE ID	L8020S1D2	L8021S1P2	L8022S1P2	L8023S1P2	L8024S1P2	L8025S1P2
	DATE / TIME	04/23/97 / 13:01	04/24/97 / 09:36	04/24/97 / 14:36	04/24/97 / 10:06	04/24/97 / 10:31	04/24/97 / 15:51
	DEPTH (ft)	0.50	0.50	0.50	0.50	0.50	0.50
	RESULT TYPE	Duplicate 1	Primary	Primary	Primary	Primary	Primary
2,3,7,8-TCDD		0.56	62.4	4.6	38.5	7.5	63.0
1,2,3,7,8-PeCDD		0.5 U	0.9 U	0.72	1.8	0.5 U	2.9
1,2,3,4,7,8-HxCDD		0.7 U	(1.1)	1.6	3.6	0.7 U	6.0
1,2,3,6,7,8-HxCDD		0.6 U	2.9	4.6	12.9	1.5	43.8
1,2,3,7,8,9-HxCDD		0.6 U	3.0	4.2	7.7	1.2	13.2
1,2,3,4,6,7,8-HpCDD		6.8	78.0 J	127 J	340	38.3 J	2070
1,2,3,4,6,7,8,9-OCDD		282	735 J	1280	2570	309 J	14400
2,3,7,8-TCDF		0.4 U	2.1	0.4 U	2.9	0.6 U	8.7
1,2,3,7,8-PeCDF		0.4 U	0.7 U	0.3 U	0.8 U	0.5 U	0.4 U
2,3,4,7,8-PeCDF		0.4 U	1.0	0.63	0.8 U	0.5 U	0.4 U
1,2,3,4,7,8-HxCDF		0.5 U	2.7	5.2	10.7	2.8	22.6
1,2,3,6,7,8-HxCDF		0.4 U	1.5	1.7	3.1	0.79	3.7
2,3,4,6,7,8-HxCDF		0.5 U	1.5	2.5	3.8	1.0	0.6 U
1,2,3,7,8,9-HxCDF		0.6 U	1.1 U	0.5 U	1.2 U	0.7 U	0.7 U
1,2,3,4,6,7,8-HpCDF		2.8	25.3	31.3	85.7	11.8	255
1,2,3,4,7,8,9-HpCDF		0.6 U	(1.0)	2.4	5.9	0.7 U	13.8
1,2,3,4,6,7,8,9-OCDF		2.2	57.2 J	83.8	320	24.8 J	1230
Total TCDD		0.56	64.4	5.9	38.5	7.5	67.3
Total PeCDD		0.5 U	3.0	3.4	4.1	0.5 U	8.0
Total HxCDD		0.82	33.0	52.1	82.2	11.9	204
Total HpCDD		16.0	238	353	669	105	3890
Total TCDF		1.4	7.2	1.2	6.9	6.1	37.4
Total PeCDF		4.8	38.1	11.0	25.3	22.1	97.9
Total HxCDF		5.0	41.9	40.4	107	23.7	289
Total HpCDF		2.7	60.0	100	326	29.6	1250
Total TEQ		0.940	66.2 J	10.2 J	51.1	9.06 J	113

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() = Less than Reporting Limit

U = non-det[illegible] = estimated For RCL DIOX [illegible] = estimated detection limit [illegible]

TABLE 1

ON-BASE DELINEATION
DIOXIN/FURAN RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ng/kg)	SITE	L8026	L8027	L8028	L8029	L8030	L8031
	SAMPLE ID	L8026S1P2	L8027S1P2	L8028S1P2	L8029S1P2	L8030S1P2	L8031S1P2
	DATE / TIME	04/23/97 / 13:36	04/25/97 / 14:36	04/22/97 / 15:31	04/25/97 / 15:31	04/25/97 / 15:06	04/22/97 / 16:11
	DEPTH (ft)	0.50	0.50	0.50	0.50	0.50	0.50
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
2,3,7,8-TCDD		174	2.0	1.0 U	6.1	0.78	3.6
1,2,3,7,8-PeCDD		2.1 J	0.3 U	0.9 U	0.86	0.54	5.1
1,2,3,4,7,8-HxCDD		3.0	1.2	1.5 U	2.8	1.7	14.1
1,2,3,6,7,8-HxCDD		4.5	2.8	1.1 U	7.9	9.9	28.2
1,2,3,7,8,9-HxCDD		5.2	2.6	1.2 U	5.2	3.5	31.8
1,2,3,4,6,7,8-HpCDD		116	80.3	16.9	244	486	977
1,2,3,4,6,7,8,9-OCDD		874	585	201	1850	5200	7710
2,3,7,8-TCDF		10.4	1.2	0.9 U	0.58	0.2 U	1.5
1,2,3,7,8-PeCDF		1.0 J	0.3 U	0.7 U	0.1 U	0.2 U	1.6
2,3,4,7,8-PeCDF		1.5 J	0.3 U	0.7 U	0.65	0.2 U	2.2
1,2,3,4,7,8-HxCDF		5.1	3.2	1.2 U	7.9	15.5	27.8
1,2,3,6,7,8-HxCDF		2.4	0.3 U	0.9 U	3.0	1.4	11.9
2,3,4,6,7,8-HxCDF		1.1 U	2.2 U	1.2 U	0.2 U	2.3 U	15.3
1,2,3,7,8,9-HxCDF		1.3 U	0.4 U	1.2 U	0.2 U	0.3 U	0.7 U
1,2,3,4,6,7,8-HpCDF		21.4	22.7	4.4	102	111	214
1,2,3,4,7,8,9-HpCDF		1.8	0.88	1.4 U	2.7	5.6	13.9
1,2,3,4,6,7,8,9-OCDF		59.4	32.8	6.7	168	875	400
Total TCDD		182	1.6	1.0 U	6.1	0.78	3.6
Total PeCDD		10.1	2.3	0.9 U	1.4	0.54	25.6
Total HxCDD		45.3	25.4	1.7	63.9	42.4	296
Total HpCDD		289	163	21.1	608	790	2220
Total TCDF		54.8	5.0	7.5	6.1	0.88	25.5
Total PeCDF		127	16.0	8.5	42.0	6.5	94.6
Total HxCDF		67.9	29.4	19.0	110	93.0	343
Total HpCDF		64.8	56.6	11.6	251	692	555
Total TEQ		181 J	4.76	0.421	15.1	16.4	40.5

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-detect, J = estimated For RCL DIOX

EDL = estimated detection limit

TABLE 1

ON-BASE DELINEATION
DIOXIN/FURAN RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ng/kg)	SITE	L8031	L8032	L8033
	SAMPLE ID	L8031S1D2	L8032S1P2	L8033S1P2
	DATE / TIME	04/22/97 / 16:11	04/23/97 / 14:16	04/25/97 / 15:56
	DEPTH (ft)	0.50	0.50	0.50
	RESULT TYPE	Duplicate 1	Primary	Primary
2,3,7,8-TCDD		4.2	56.2	2.4
1,2,3,7,8-PeCDD		6.6	2.9 U	1.2 J
1,2,3,4,7,8-HxCDD		16.0	3.9 U	2.6
1,2,3,6,7,8-HxCDD		31.7	3.0 U	10.2
1,2,3,7,8,9-HxCDD		36.2	3.3 U	7.3
1,2,3,4,6,7,8-HpCDD		1070	79.6	216
1,2,3,4,6,7,8,9-OCDD		7830	985	1320
2,3,7,8-TCDF		1.7	4.0 U	0.88
1,2,3,7,8-PeCDF		1.9	2.3 U	0.1 U
2,3,4,7,8-PeCDF		2.6	2.3 U	0.56
1,2,3,4,7,8-HxCDF		17.5	2.7 U	8.2
1,2,3,6,7,8-HxCDF		13.2	2.0 U	3.0
2,3,4,6,7,8-HxCDF		17.3	2.3 U	5.8
1,2,3,7,8,9-HxCDF		(0.38)	2.7 U	0.2 U
1,2,3,4,6,7,8-HpCDF		242	20.4	104
1,2,3,4,7,8,9-HpCDF		15.3	3.1 U	2.9
1,2,3,4,6,7,8,9-OCDF		471	101	134
Total TCDD		5.6	56.2	2.4
Total PeCDD		28.5	2.9 U	5.2
Total HxCDD		343	18.2	65.2
Total HpCDD		2210	203	412
Total TCDF		31.6	4.0 U	6.0
Total PeCDF		117	7.9	15.8
Total HxCDF		386	6.1	107
Total HpCDF		596	68.8	232
Total TEQ		43.9	58.3	11.8

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

() = Less than Reporting Limit

U = non-detected J = estimated For RCL DIOX L = estimated detection limit

TABLE 2

ON-BASE DELINEATION
VOC RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	D1001	D1003	D1005	D1008	D1010	D1013
	SAMPLE ID	D1001D1P1	D1003D1P1	D1005D1P1	D1008D1P1	D1010D1P1	D1013D1P1
	DATE / TIME	04/10/97 / 10:40	04/10/97 / 11:10	04/10/97 / 09:20	04/09/97 / 13:50	04/09/97 / 11:00	04/09/97 / 08:40
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Chloromethane		18 U	14 U	13 U	18 U	19 U	14 U
Bromomethane		18 U	14 U	13 U	18 U	19 U	14 U
Vinyl chloride		18 U	14 U	13 U	18 U	19 U	14 U
Chloroethane		18 U	14 U	13 U	18 U	19 U	14 U
Methylene chloride		18 U	14 U	13 U	18 U	19 U	14 U
Acetone		13 J	11 J	13 U	19	140	24
Carbon disulfide		18 U	14 U	13 U	18 U	19 U	14 U
1,1-Dichloroethene		18 U	14 U	13 U	18 U	19 U	14 U
1,1-Dichloroethane		18 U	14 U	13 U	18 U	19 U	14 U
1,2-Dichloroethene (total)		18 U	14 U	13 U	18 U	19 U	14 U
Chloroform		18 U	14 U	13 U	18 U	19 U	14 U
1,2-Dichloroethane		18 U	14 U	13 U	18 U	19 U	14 U
2-Butanone		18 U	14 U	13 U	18 U	35	14 U
1,1,1-Trichloroethane		18 U	14 U	13 U	18 U	19 U	14 U
Carbon tetrachloride		18 U	14 U	13 U	18 U	19 U	14 U
Bromodichloromethane		18 U	14 U	13 U	18 U	19 U	14 U
1,2-Dichloropropane		18 U	14 U	13 U	18 U	19 U	14 U
cis-1,3-Dichloropropene		18 U	14 U	13 U	18 U	19 U	14 U
Trichloroethene		18 U	14 U	13 U	18 U	19 U	14 U
Dibromochloromethane		18 U	14 U	13 U	18 U	19 U	14 U
1,1,2-Trichloroethane		18 U	14 U	13 U	18 U	19 U	14 U
Benzene		18 U	14 U	13 U	18 U	19 U	14 U
trans-1,3-Dichloropropene		18 U	14 U	13 U	18 U	19 U	14 U
Bromoform		18 U	14 U	13 U	18 U	19 U	14 U
4-Methyl-2-pentanone		18 U	14 U	13 U	18 U	19 U	14 U
2-Hexanone		18 U	14 U	13 U	18 U	19 U	14 U

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

U = non-detect, J = estimated For RCL VOA UJ = estimated quantitation limit

TABLE 2

ON-BASE DELINEATION
VOC RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	D1001	D1003	D1005	D1008	D1010	D1013
	SAMPLE ID	D1001D1P1	D1003D1P1	D1005D1P1	D1008D1P1	D1010D1P1	D1013D1P1
	DATE / TIME	04/10/97 / 10:40	04/10/97 / 11:10	04/10/97 / 09:20	04/09/97 / 13:50	04/09/97 / 11:00	04/09/97 / 08:40
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Tetrachloroethene		18 U	14 U	13 U	18 U	19 U	14 U
1,1,2,2-Tetrachloroethane		18 U	14 U	13 U	18 U	19 U	14 U
Toluene		18 U	14 U	13 U	18 U	19 U	14 U
Chlorobenzene		18 U	14 U	13 U	18 U	19 U	14 U
Ethylbenzene		18 U	14 U	13 U	18 U	19 U	14 U
Styrene		18 U	14 U	13 U	18 U	19 U	14 U
Xylenes (total)		18 U	14 U	13 U	18 U	19 U	14 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-det[illegible] = estimated For RCL VOA [illegible] = estimated quantitation limit [illegible]

TABLE 2

ON-BASE DELINEATION
VOC RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	D1015	D2003	D2006	D2006	D3003	D3005
	SAMPLE ID	D1015D1P1	D2003D1P1	D2006D1P1	D2006D1D1	D3003D1P1	D3005D1P1
	DATE / TIME	04/22/97 / 11:10	04/05/97 / 10:00	04/05/97 / 10:20	04/05/97 / 10:20	04/07/97 / 15:20	04/07/97 / 11:10
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
Chloromethane		20 U	14 U	12 U	12 U	13 U	13 U
Bromomethane		20 U	14 U	12 U	12 U	13 U	13 U
Vinyl chloride		20 U	14 U	12 U	12 U	13 U	13 U
Chloroethane		20 U	14 U	12 U	12 U	13 U	13 U
Methylene chloride		20 U	14 U	12 U	12 U	13 U	13 U
Acetone		270 J	15	12 U	12 U	10 J	13 U
Carbon disulfide		20 U	14 U	12 U	12 U	13 U	13 U
1,1-Dichloroethene		20 U	14 U	12 U	12 U	13 U	13 U
1,1-Dichloroethane		20 U	14 U	12 U	12 U	13 U	13 U
1,2-Dichloroethene (total)		20 U	14 U	12 U	12 U	13 U	13 U
Chloroform		20 U	14 U	12 U	12 U	13 U	13 U
1,2-Dichloroethane		20 U	14 U	12 U	12 U	13 U	13 U
2-Butanone		40 J	14 U	12 U	12 U	13 U	13 U
1,1,1-Trichloroethane		20 UJ	14 U	12 U	12 U	13 U	13 U
Carbon tetrachloride		20 UJ	14 U	12 U	12 U	13 U	13 U
Bromodichloromethane		20 UJ	14 U	12 U	12 U	13 U	13 U
1,2-Dichloropropane		20 UJ	14 U	12 U	12 U	13 U	13 U
cis-1,3-Dichloropropene		20 UJ	14 U	12 U	12 U	13 U	13 U
Trichloroethene		20 UJ	14 U	12 U	12 U	13 U	13 U
Dibromochloromethane		20 UJ	14 U	12 U	12 U	13 U	13 U
1,1,2-Trichloroethane		20 UJ	14 U	12 U	12 U	13 U	13 U
Benzene		20 UJ	14 U	12 U	12 U	13 U	13 U
trans-1,3-Dichloropropene		20 UJ	14 U	12 U	12 U	13 U	13 U
Bromoform		20 UJ	14 U	12 U	12 U	13 U	13 U
4-Methyl-2-pentanone		20 UJ	14 U	12 U	12 U	13 U	13 U
2-Hexanone		20 UJ	14 U	12 U	12 U	13 U	13 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-detect, J = estimated For RCL VOA

UJ = estimated quantitation limit

TABLE 2

ON-BASE DELINEATION
VOC RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	D1015	D2003	D2006	D2006	D3003	D3005
	SAMPLE ID	D1015D1P1	D2003D1P1	D2006D1P1	D2006D1D1	D3003D1P1	D3005D1P1
	DATE / TIME	04/22/97 / 11:10	04/05/97 / 10:00	04/05/97 / 10:20	04/05/97 / 10:20	04/07/97 / 15:20	04/07/97 / 11:10
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
Tetrachloroethene		20 UJ	14 U	12 U	12 U	13 U	13 U
1,1,2,2-Tetrachloroethane		20 UJ	14 U	12 U	12 U	13 U	13 U
Toluene		20 UJ	14 U	12 U	12 U	13 U	13 U
Chlorobenzene		20 UJ	14 U	12 U	12 U	13 U	13 U
Ethylbenzene		20 UJ	14 U	12 U	12 U	13 U	13 U
Styrene		20 UJ	14 U	12 U	12 U	13 U	13 U
Xylenes (total)		20 UJ	14 U	12 U	12 U	13 U	13 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-det[illegible] = estimated For RCL VOA [illegible] = estimated quantitation limit

TABLE 2

ON-BASE DELINEATION
VOC RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	D5004	D5007	D5009	D5013	D5030	L8001
	SAMPLE ID	D5004D1P1	D5007D1P1	D5009D1P1	D5013D1P1	D5030DPP1	L8001S1P1
	DATE / TIME	04/08/97 / 15:10	04/08/97 / 08:50	04/07/97 / 13:50	04/07/97 / 09:45	08/01/97 / 00:00	04/09/97 / 09:00
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Chloromethane		12 U	21 U	12 U	13 U	1500 U	11 U
Bromomethane		12 U	21 U	12 U	13 U	1500 U	11 U
Vinyl chloride		12 U	21 U	12 U	13 U	1500 U	11 U
Chloroethane		12 U	21 U	12 U	13 U	1500 U	11 U
Methylene chloride		12 U	21 U	12 U	13 U	1500 U	11 U
Acetone		12 U	38	12 U	16	1500 UJ	11 U
Carbon disulfide		12 U	21 U	12 U	13 U	1500 U	11 U
1,1-Dichloroethene		12 U	21 U	12 U	13 U	1500 U	11 U
1,1-Dichloroethane		12 U	21 U	12 U	13 U	1500 U	11 U
1,2-Dichloroethene (total)		12 U	21 U	12 U	13 U	1500 U	11 U
Chloroform		12 U	21 U	12 U	13 U	1500 U	11 U
1,2-Dichloroethane		12 U	21 U	12 U	13 U	1500 U	11 U
2-Butanone		12 U	21 U	12 U	13 U	1500 U	11 U
1,1,1-Trichloroethane		12 U	21 U	12 U	13 U	1500 U	11 U
Carbon tetrachloride		12 U	21 U	12 U	13 U	1500 U	11 U
Bromodichloromethane		12 U	21 U	12 U	13 U	1500 U	11 U
1,2-Dichloropropane		12 U	21 U	12 U	13 U	1500 U	11 U
cis-1,3-Dichloropropene		12 U	21 U	12 U	13 U	1500 U	11 U
Trichloroethene		12 U	21 U	12 U	13 U	1500 U	11 U
Dibromochloromethane		12 U	21 U	12 U	13 U	1500 U	11 U
1,1,2-Trichloroethane		12 U	21 U	12 U	13 U	1500 U	11 U
Benzene		12 U	21 U	12 U	13 U	1500 U	11 U
trans-1,3-Dichloropropene		12 U	21 U	12 U	13 U	1500 U	11 U
Bromoform		12 U	21 U	12 U	13 U	1500 UJ	11 U
4-Methyl-2-pentanone		12 U	21 U	12 U	13 U	1500 U	11 U
2-Hexanone		12 U	21 U	12 U	13 U	1500 U	11 U

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

U = non-detect, J = estimated For RCL VOA UJ = estimated quantitation limit

TABLE 2

ON-BASE DELINEATION
VOC RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	D5004	D5007	D5009	D5013	D5030	L8001
	SAMPLE ID	D5004D1P1	D5007D1P1	D5009D1P1	D5013D1P1	D5030DPP1	L800161P1
	DATE / TIME	04/08/97 / 15:10	04/08/97 / 08:50	04/07/97 / 13:50	04/07/97 / 09:45	08/01/97 / 00:00	04/09/97 / 09:00
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Tetrachloroethene		12 U	21 U	12 U	13 U	1500 U	11 U
1,1,2,2-Tetrachloroethane		12 U	21 U	12 U	13 U	1500 U	11 U
Toluene		12 U	21 U	12 U	13 U	1500 U	11 U
Chlorobenzene		12 U	21 U	12 U	13 U	1500 U	11 U
Ethylbenzene		12 U	21 U	12 U	13 U	1500 U	11 U
Styrene		12 U	21 U	12 U	13 U	1500 U	11 U
Xylenes (total)		12 U	21 U	12 U	13 U	1500 U	11 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-det[illegible] = estimated For RCL VOA [illegible] = estimated quantitation limit [illegible]

TABLE 2

ON-BASE DELINEATION
VOC RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	L8003	L8005	L8010	L8013	L8013	L8016
	SAMPLE ID	L8003S1P1	L8005S1P1	L8010S1P1	L8013S1P1	L8013S1D1	L8016S1P1
	DATE / TIME	04/10/97 / 10:40	04/09/97 / 10:15	04/09/97 / 16:30	04/25/97 / 10:05	04/25/97 / 10:05	04/24/97 / 15:10
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Primary	Duplicate 1	Primary
Chloromethane		11 U	11 U	12 U	10 U	10 U	11 U
Bromomethane		11 U	11 U	12 U	10 U	10 U	11 U
Vinyl chloride		11 U	11 U	12 U	10 U	10 U	11 U
Chloroethane		11 U	11 U	12 U	10 U	10 U	11 U
Methylene chloride		11 U	11 U	12 U	10 U	10 U	11 U
Acetone		11 U	11 U	12 U	10 UJ	10 UJ	11 U
Carbon disulfide		11 U	11 U	12 U	10 U	10 U	11 U
1,1-Dichloroethene		11 U	11 U	12 U	10 U	10 U	11 U
1,1-Dichloroethane		11 U	11 U	12 U	10 U	10 U	11 U
1,2-Dichloroethene (total)		11 U	11 U	12 U	10 U	10 U	11 U
Chloroform		11 U	11 U	12 U	10 U	10 U	11 U
1,2-Dichloroethane		11 U	11 U	12 U	10 U	10 U	11 U
2-Butanone		11 U	11 U	12 U	10 U	10 U	11 U
1,1,1-Trichloroethane		11 U	11 U	12 U	10 U	10 U	11 U
Carbon tetrachloride		11 U	11 U	12 U	10 U	10 U	11 U
Bromodichloromethane		11 U	11 U	12 U	10 U	10 U	11 U
1,2-Dichloropropane		11 U	11 U	12 U	10 U	10 U	11 U
cis-1,3-Dichloropropene		11 U	11 U	12 U	10 U	10 U	11 U
Trichloroethene		11 U	11 U	12 U	10 U	10 U	11 U
Dibromochloromethane		11 U	11 U	12 U	10 U	10 U	11 U
1,1,2-Trichloroethane		11 U	11 U	12 U	10 U	10 U	11 U
Benzene		11 U	11 U	12 U	10 U	10 U	11 U
trans-1,3-Dichloropropene		11 U	11 U	12 U	10 U	10 U	11 U
Bromoform		11 U	11 U	12 U	10 U	10 U	11 U
4-Methyl-2-pentanone		11 U	11 U	12 U	10 U	10 U	11 U
2-Hexanone		11 U	11 U	12 U	10 U	10 U	11 U

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

U = non-detect, J = estimated For RCL VOA UJ = estimated quantitation limit

TABLE 2

ON-BASE DELINEATION
VOC RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	L8003	L8005	L8010	L8013	L8013	L8016
	SAMPLE ID	L8003S1P1	L8005S1P1	L8010S1P1	L8013S1P1	L8013S1D1	L8016S1P1
	DATE / TIME	04/10/97 / 10:40	04/09/97 / 10:15	04/09/97 / 16:30	04/25/97 / 10:05	04/25/97 / 10:05	04/24/97 / 16:10
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Primary	Duplicate 1	Primary
Tetrachloroethene		11 U	11 U	12 U	10 U	10 U	3 J
1,1,2,2-Tetrachloroethane		11 U	11 U	12 U	10 U	10 U	4 J
Toluene		11 U	11 U	12 U	10 U	10 U	11 U
Chlorobenzene		11 U	11 U	12 U	10 U	10 U	11 U
Ethylbenzene		11 U	11 U	12 U	10 U	10 U	11 U
Styrene		11 U	11 U	12 U	10 U	10 U	11 U
Xylenes (total)		11 U	11 U	12 U	10 U	10 U	11 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-dete[illegible] = estimated For RCL VOA [illegible] = estimated quantitation limit

TABLE 2

ON-BASE DELINEATION
VOC RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	L8025	L8027
	SAMPLE ID	L8025S1P1	L8027S1P1
	DATE / TIME	04/24/97 / 15:50	04/25/97 / 14:35
	DEPTH (ft)	0.00	0.00
	RESULT TYPE	Primary	Primary
Chloromethane		11 U	11 U
Bromomethane		11 U	11 U
Vinyl chloride		11 U	11 U
Chloroethane		11 U	11 U
Methylene chloride		11 U	11 U
Acetone		11 U	4 J
Carbon disulfide		11 U	11 U
1,1-Dichloroethene		11 U	11 U
1,1-Dichloroethane		11 U	11 U
1,2-Dichloroethene (total)		11 U	11 U
Chloroform		11 U	11 U
1,2-Dichloroethane		11 U	11 U
2-Butanone		11 U	11 U
1,1,1-Trichloroethane		11 U	11 U
Carbon tetrachloride		11 U	11 U
Bromodichloromethane		11 U	11 U
1,2-Dichloropropane		11 U	11 U
cis-1,3-Dichloropropene		11 U	11 U
Trichloroethene		11 U	11 U
Dibromochloromethane		11 U	11 U
1,1,2-Trichloroethane		11 U	11 U
Benzene		11 U	11 U
trans-1,3-Dichloropropene		11 U	11 U
Bromoform		11 U	11 U
4-Methyl-2-pentanone		11 U	11 U
2-Hexanone		11 U	11 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-detect, J = estimated For RCL VOA UJ = estimated quantitation limit

TABLE 2

ON-BASE DELINEATION
VOC RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	L8025	L8027
	SAMPLE ID	L8025S1P1	L8027S1P1
	DATE / TIME	04/24/97 / 15:50	04/25/97 / 14:35
	DEPTH (ft)	0.00	0.00
	RESULT TYPE	Primary	Primary
Tetrachloroethene		3 J	11 U
1,1,2,2-Tetrachloroethane		11 U	11 U
Toluene		11 U	11 U
Chlorobenzene		11 U	11 U
Ethylbenzene		11 U	11 U
Styrene		11 U	11 U
Xylenes (total)		11 U	11 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-det[illegible] = estimated For RCL VOA [illegible] = estimated quantitation limit [illegible]

TABLE 3

ON-BASE DELINEATION
SVOC RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	D1001	D1003	D1005	D1008	D1010	D1013
	SAMPLE ID	D1001D1P1	D1003D1P1	D1005D1P1	D1008D1P1	D1010D1P1	D1013D1P1
	DATE / TIME	04/10/97 / 10:40	04/10/97 / 11:10	04/10/97 / 09:20	04/09/97 / 13:50	04/09/97 / 11:00	04/09/97 / 08:40
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Phenol		580 U	460 U	420 U	610 U	630 U	450 U
bis(2-chloroethyl)ether		580 U	460 U	420 U	610 U	630 U	450 U
2-Chlorophenol		580 U	460 U	420 U	610 U	630 U	450 U
1,3-Dichlorobenzene		580 U	460 U	420 U	610 U	630 U	450 U
1,4-Dichlorobenzene		580 U	460 U	420 U	610 U	630 U	450 U
1,2-Dichlorobenzene		580 U	460 U	420 U	610 U	630 U	450 U
2-Methylphenol		580 U	460 U	420 U	610 U	630 U	450 U
2,2'-oxybis(1-Chloropropane)		580 U	460 U	420 U	610 U	630 U	450 U
N-Nitrosodinpropylamine		580 U	460 U	420 U	610 U	630 U	450 U
4-Methylphenol		580 U	460 U	420 U	610 U	630 U	450 U
Hexachloroethane		580 U	460 U	420 U	610 U	630 U	450 U
Nitrobenzene		580 U	460 U	420 U	610 U	630 U	450 U
Isophorone		580 U	460 U	420 U	610 U	630 U	450 U
2-Nitrophenol		580 U	460 U	420 U	610 U	630 U	450 U
2,4-Dimethylphenol		580 U	460 U	420 U	610 U	630 U	450 U
bis(2-chloroethoxy)methane		580 U	460 U	420 U	610 U	630 U	450 U
2,4-Dichlorophenol		580 U	460 U	420 U	610 U	630 U	450 U
1,2,4-Trichlorobenzene		580 U	460 U	420 U	610 U	630 U	450 U
Naphthalene		580 U	460 U	420 U	610 U	630 U	450 U
4-Chloroaniline		580 U	460 U	420 U	610 U	630 U	450 U
Hexachlorobutadiene		580 U	460 U	420 U	610 U	630 U	450 U
4-Chloro-3-Methylphenol		580 U	460 U	420 U	610 U	630 U	450 U
2-Methylnaphthalene		580 U	460 U	420 U	610 U	630 U	450 U
Hexachlorocyclopentadiene		580 U	460 U	420 U	610 U	630 U	450 U
2,4,6-Trichlorophenol		580 U	460 U	420 U	610 U	630 U	450 U
2,4,5-Trichlorophenol		1400 U	1100 U	1000 U	1500 U	1500 U	1100 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-detect, J = estimated, R = rejected UJ = estimated quantitation limit

TABLE 3

ON-BASE DELINEATION
SVOC RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	D1001	D1003	D1005	D1008	D1010	D1013
	SAMPLE ID	D1001D1P1	D1003D1P1	D1005D1P1	D1008D1P1	D1010D1P1	D1013D1P1
	DATE / TIME	04/10/97 / 10:40	04/10/97 / 11:10	04/10/97 / 09:20	04/09/97 / 13:50	04/09/97 / 11:00	04/09/97 / 08:40
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
2-Chloronaphthalene		580 U	460 U	420 U	610 U	630 U	450 U
2-Nitroaniline		1400 U	1100 U	1000 U	1500 U	1500 U	1100 U
Dimethylphthalate		580 U	460 U	420 U	610 U	630 U	450 U
Acenaphthylene		580 U	460 U	420 U	610 U	630 U	450 U
2,6-Dinitrotoluene		580 U	460 U	420 U	610 U	630 U	450 U
3-Nitroaniline		1400 U	1100 U	1000 U	1500 U	1500 U	1100 U
Acenaphthene		580 U	460 U	420 U	610 U	630 U	450 U
2,4-Dinitrophenol		1400 U	1100 U	1000 U	1500 U	1500 U	1100 U
4-Nitrophenol		1400 U	1100 U	1000 U	1500 U	1500 U	1100 U
Dibenzofuran		580 U	460 U	420 U	610 U	630 U	450 U
2,4-Dinitrotoluene		580 U	460 U	420 U	610 U	630 U	450 U
Diethylphthalate		580 U	460 U	420 U	610 U	630 U	450 U
4-Chlorophenyl-phenylether		580 U	460 U	420 U	610 U	630 U	450 U
Fluorene		580 U	460 U	420 U	610 U	630 U	450 U
4-Nitroaniline		1400 U	1100 U	1000 U	1500 U	1500 U	1100 U
4,6-Dinitro-2-methylphenol		1400 U	1100 U	1000 U	1500 U	1500 U	1100 U
N-Nitrosodiphenylamine (1)		580 U	460 U	420 U	610 U	630 U	450 U
4-Bromophenyl-phenylether		580 U	460 U	420 U	610 U	630 U	450 U
Hexachlorobenzene		580 U	460 U	420 U	610 U	630 U	450 U
Pentachlorophenol		1400 U	1100 U	1000 U	1500 U	1500 U	1100 U
Phenanthrene		580 U	460 U	420 U	610 U	630 U	450 U
Anthracene		580 U	460 U	420 U	610 U	630 U	450 U
Carbazole		580 U	460 U	420 U	610 U	630 U	450 U
Di-n-Butylphthalate		580 U	460 U	420 U	610 U	630 U	450 U
Fluoranthene		580 U	460 U	420 U	610 U	400 J	450 U
Pyrene		580 U	460 U	420 U	610 U	300 J	450 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-det[illegible] = estimated, R = rejected [illegible] = estimated quantitation limit [illegible]

TABLE 3

ON-BASE DELINEATION
SVOC RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	D1001	D1003	D1005	D1008	D1010	D1013
	SAMPLE ID	D1001D1P1	D1003D1P1	D1005D1P1	D1008D1P1	D1010D1P1	D1013D1P1
	DATE / TIME	04/10/97 / 10:40	04/10/97 / 11:10	04/10/97 / 09:20	04/09/97 / 13:50	04/09/97 / 11:00	04/09/97 / 08:40
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Butylbenzylphthalate		580 U	460 U	420 U	610 U	630 U	450 U
3,3'-Dichlorobenzidine		580 U	460 U	420 U	610 U	630 U	450 U
Benzo(a)Anthracene		580 U	460 U	420 U	610 U	630 U	450 U
Chrysene		580 U	460 U	420 U	610 U	630 U	450 U
bis(2-ethylhexyl)Phthalate		100 J	460 U	420 U	320 J	820	74 J
Di-n-octylphthalate		580 U	460 U	420 U	610 U	630 U	450 U
Benzo(b)fluoranthene		580 U	460 U	420 U	610 U	630 U	450 U
Benzo(k)fluoranthene		580 U	460 U	420 U	610 U	630 U	450 U
Benzo(a)pyrene		580 U	460 U	420 U	610 U	630 U	450 U
Indeno(1,2,3-cd)pyrene		580 U	460 U	420 U	610 U	630 U	450 U
Dibenzo(a,h)anthracene		580 U	460 U	420 U	610 U	630 U	450 U
Benzo(g,h,i)perylene		580 U	460 U	420 U	610 U	630 U	450 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-detect, J = estimated, R = rejected

UJ = estimated quantitation limit

TABLE 3

ON-BASE DELINEATION
SVOC RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	D1015	D2003	D2006	D2006	D3003	D3005
	SAMPLE ID	D1015D1P1	D2003D1P1	D2006D1P1	D2006D1D1	D3003D1P1	D3005D1P1
	DATE / TIME	04/22/97 / 11:10	04/05/97 / 10:00	04/05/97 / 10:20	04/05/97 / 10:20	04/07/97 / 15:20	04/07/97 / 11:10
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
Phenol		670 U	460 U	390 U	400 U	430 U	440 U
bis(2-chloroethyl)ether		670 U	460 U	390 U	400 U	430 U	440 U
2-Chlorophenol		670 U	460 U	390 U	400 U	430 U	440 U
1,3-Dichlorobenzene		670 U	460 U	390 U	400 U	430 U	440 U
1,4-Dichlorobenzene		670 U	460 U	390 U	400 U	430 U	440 U
1,2-Dichlorobenzene		670 U	460 U	390 U	400 U	430 U	440 U
2-Methylphenol		670 U	460 U	390 U	400 U	430 U	440 U
2,2'-oxybis(1-Chloropropane)		670 U	460 U	390 U	400 U	430 U	440 U
N-Nitrosodinpropylamine		670 U	460 U	390 U	400 U	430 U	440 U
4-Methylphenol		670 U	460 U	390 U	400 U	430 U	440 U
Hexachloroethane		670 U	460 U	390 U	400 U	430 U	440 U
Nitrobenzene		670 U	460 U	390 U	400 U	430 U	440 U
Isophorone		670 U	460 U	390 U	400 U	430 U	440 U
2-Nitrophenol		670 U	460 U	390 U	400 U	430 U	440 U
2,4-Dimethylphenol		670 U	460 U	390 U	400 U	430 U	440 U
bis(2-chloroethoxy)methane		670 U	460 U	390 U	400 U	430 U	440 U
2,4-Dichlorophenol		670 U	460 U	390 U	400 U	430 U	440 U
1,2,4-Trichlorobenzene		670 U	460 U	390 U	400 U	430 U	440 U
Naphthalene		670 U	460 U	390 U	400 U	430 U	440 U
4-Chloroaniline		670 U	460 U	390 U	400 U	430 U	440 U
Hexachlorobutadiene		670 U	460 U	390 U	400 U	430 U	440 U
4-Chloro-3-Methylphenol		670 U	460 U	390 U	400 U	430 U	440 U
2-Methylnaphthalene		670 U	460 U	390 U	400 U	430 U	440 U
Hexachlorocyclopentadiene		670 U	460 U	390 U	400 U	430 U	440 U
2,4,6-Trichlorophenol		670 U	460 U	390 U	400 U	430 U	440 U
2,4,5-Trichlorophenol		1600 U	1100 U	940 U	970 U	1000 U	1100 U

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TABLE 3

ON-BASE DELINEATION
SVOC RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT [Units in ug/kg]	SITE	D1015	D2003	D2006	D2006	D3003	D3005
	SAMPLE ID	D1015D1P1	D2003D1P1	D2006D1P1	D2006D1D1	D3003D1P1	D3005D1P1
	DATE / TIME	04/22/97 / 11:10	04/05/97 / 10:00	04/05/97 / 10:20	04/05/97 / 10:20	04/07/97 / 15:20	04/07/97 / 11:10
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
2-Chloronaphthalene		670 U	460 U	390 U	400 U	430 U	440 U
2-Nitroaniline		1600 U	1100 U	940 U	970 U	1000 U	1100 U
Dimethylphthalate		670 U	460 U	390 U	400 U	430 U	440 U
Acenaphthylene		670 U	460 U	390 U	400 U	430 U	440 U
2,6-Dinitrotoluene		670 U	460 U	390 U	400 U	430 U	440 U
3-Nitroaniline		1600 U	1100 U	940 U	970 U	1000 U	1100 U
Acenaphthene		670 U	460 U	390 U	400 U	430 U	440 U
2,4-Dinitrophenol		1600 U	1100 U	940 U	970 U	1000 U	1100 U
4-Nitrophenol		1600 U	1100 U	940 U	970 U	1000 U	1100 U
Dibenzofuran		670 U	460 U	390 U	400 U	430 U	440 U
2,4-Dinitrotoluene		670 U	460 U	390 U	400 U	430 U	440 U
Diethylphthalate		670 U	460 U	390 U	400 U	430 U	440 U
4-Chlorophenyl-phenylether		670 U	460 U	390 U	400 U	430 U	440 U
Fluorene		670 U	460 U	390 U	400 U	430 U	440 U
4-Nitroaniline		1600 U	1100 U	940 U	970 U	1000 U	1100 U
4,6-Dinitro-2-methylphenol		1600 U	1100 U	940 U	970 U	1000 U	1100 U
N-Nitrosodiphenylamine (1)		670 U	460 U	390 U	400 U	430 U	440 U
4-Bromophenyl-phenylether		670 U	460 U	390 U	400 U	430 U	440 U
Hexachlorobenzene		670 U	460 U	390 U	400 U	430 U	440 U
Pentachlorophenol		1600 U	1100 U	940 U	970 U	1000 U	1100 U
Phenanthrene		670 U	460 U	390 U	400 U	430 U	440 U
Anthracene		670 U	460 U	390 U	400 U	430 U	440 U
Carbazole		670 U	460 U	390 U	400 U	430 U	440 U
Di-n-Butylphthalate		670 U	460 U	390 U	400 U	430 U	440 U
Fluoranthene		670 U	520	48 J	400 U	430 U	200 J
Pyrene		670 U	380 J	41 J	400 U	430 U	140 J

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UJ = estimated quantitation limit

TABLE 3

ON-BASE DELINEATION
SVOC RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	D1015	D2003	D2006	D2006	D3003	D3005
	SAMPLE ID	D1015D1P1	D2003D1P1	D2006D1P1	D2006D1D1	D3003D1P1	D3005D1P1
	DATE / TIME	04/22/97 / 11:10	04/05/97 / 10:00	04/05/97 / 10:20	04/05/97 / 10:20	04/07/97 / 15:20	04/07/97 / 11:10
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
Butylbenzylphthalate		670 U	460 U	390 U	400 U	430 U	440 U
3,3'-Dichlorobenzidine		670 U	460 U	390 U	400 U	430 U	440 U
Benzo(a)Anthracene		670 U	140 J	390 U	400 U	430 U	440 U
Chrysene		670 U	310 J	390 U	400 U	430 U	440 U
bis(2-ethylhexyl)Phthalate		730	460 U	390 U	400 U	430 U	440 U
Di-n-octylphthalate		670 U	460 U	390 U	400 U	430 U	440 U
Benzo(b)fluoranthene		670 U	420 J	390 U	93 J	430 U	180 J
Benzo(k)fluoranthene		670 U	98 J	390 U	400 U	430 U	66 J
Benzo(a)pyrene		670 U	460 U	390 U	400 U	430 U	440 U
Indeno(1,2,3-cd)pyrene		670 U	460 U	390 U	400 U	430 U	440 U
Dibenzo(a,h)anthracene		670 U	460 U	390 U	400 U	430 U	440 U
Benzo(g,h,i)perylene		670 U	460 U	390 U	400 U	430 U	440 U

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TABLE 3

ON-BASE DELINEATION
SVOC RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	D5004	D5007	D5009	D5013	D5030	L8001
	SAMPLE ID	D5004D1P1	D5007D1P1	D5009D1P1	D5013D1P1	D5030DPP1	L8001S1P1
	DATE / TIME	04/08/97 / 15:10	04/08/97 / 08:50	04/07/97 / 13:50	04/07/97 / 09:45	08/01/97 / 00:00	04/09/97 / 09:00
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Phenol		410 U	680 U	400 U	420 U	4000 U	360 U
bis(2-chloroethyl)ether		410 U	680 U	400 U	420 U	4000 U	360 U
2-Chlorophenol		410 U	680 U	400 U	420 U	4000 U	360 U
1,3-Dichlorobenzene		410 U	680 U	400 U	420 U	4000 U	360 U
1,4-Dichlorobenzene		410 U	680 U	400 U	420 U	4000 U	360 U
1,2-Dichlorobenzene		410 U	680 U	400 U	420 U	4000 U	360 U
2-Methylphenol		410 U	680 U	400 U	420 U	4000 U	360 U
2,2'-oxybis(1-Chloropropane)		410 U	680 U	400 U	420 U	4000 U	360 U
N-Nitrosodinpropylamine		410 U	680 U	400 U	420 U	4000 U	360 U
4-Methylphenol		410 U	680 U	400 U	420 U	4000 U	360 U
Hexachloroethane		410 U	680 U	400 U	420 U	4000 U	360 U
Nitrobenzene		410 U	680 U	400 U	420 U	4000 U	360 U
Isophorone		410 U	680 U	400 U	420 U	4000 U	360 U
2-Nitrophenol		410 U	680 U	400 U	420 U	4000 U	360 U
2,4-Dimethylphenol		410 U	680 U	400 U	420 U	4000 U	360 U
bis(2-chloroethoxy)methane		410 U	680 U	400 U	420 U	4000 U	360 U
2,4-Dichlorophenol		410 U	680 U	400 U	420 U	4000 U	360 U
1,2,4-Trichlorobenzene		410 U	680 U	400 U	420 U	24000	360 U
Naphthalene		410 U	680 U	400 U	420 U	4000 U	360 U
4-Chloroaniline		410 U	680 U	400 U	420 U	4000 U	360 U
Hexachlorobutadiene		410 U	680 U	400 U	420 U	4000 U	360 U
4-Chloro-3-Methylphenol		410 U	680 U	400 U	420 U	4000 U	360 U
2-Methylnaphthalene		410 U	680 U	400 U	420 U	4000 U	360 U
Hexachlorocyclopentadiene		410 U	680 U	400 U	420 U	4000 U	360 U
2,4,6-Trichlorophenol		410 U	680 U	400 U	420 U	4000 U	360 U
2,4,5-Trichlorophenol		1000 U	1600 U	980 U	1000 U	9700 U	870 U

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TABLE 3

ON-BASE DELINEATION
SVOC RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	D5004	D5007	D5009	D5013	D5030	L8001
	SAMPLE ID	D5004D1P1	D5007D1P1	D5009D1P1	D5013D1P1	D5030DPP1	L800161P1
	DATE / TIME	04/08/97 / 15:10	04/08/97 / 08:50	04/07/97 / 13:50	04/07/97 / 09:45	08/01/97 / 00:00	04/09/97 / 09:00
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
2-Chloronaphthalene		410 U	680 U	400 U	420 U	4000 U	360 U
2-Nitroaniline		1000 U	1600 U	980 U	1000 U	9700 U	870 U
Dimethylphthalate		410 U	680 U	400 U	420 U	4000 U	360 U
Acenaphthylene		410 U	680 U	400 U	420 U	4000 U	360 U
2,6-Dinitrotoluene		410 U	680 U	400 U	420 U	4000 U	360 U
3-Nitroaniline		1000 U	1600 U	980 U	1000 U	9700 U	870 U
Acenaphthene		410 U	680 U	400 U	420 U	4000 U	360 U
2,4-Dinitrophenol		1000 U	1600 U	980 U	1000 U	9700 U	870 U
4-Nitrophenol		1000 U	1600 U	980 U	1000 U	9700 UJ	870 U
Dibenzofuran		410 U	680 U	400 U	420 U	4000 U	360 U
2,4-Dinitrotoluene		410 U	680 U	400 U	420 U	4000 U	360 U
Diethylphthalate		410 U	680 U	1300	420 U	4000 U	360 U
4-Chlorophenyl-phenylether		410 U	680 U	400 U	420 U	4000 U	360 U
Fluorene		410 U	680 U	400 U	420 U	4000 U	360 U
4-Nitroaniline		1000 U	1600 U	980 U	1000 U	9700 U	870 U
4,6-Dinitro-2-methylphenol		1000 U	1600 U	980 U	1000 U	9700 U	870 U
N-Nitrosodiphenylamine (1)		410 U	680 U	400 U	420 U	4000 U	360 U
4-Bromophenyl-phenylether		410 U	680 U	400 U	420 U	4000 U	360 U
Hexachlorobenzene		410 U	680 U	400 U	420 U	4000 U	360 U
Pentachlorophenol		1000 U	1600 U	980 U	1000 U	9700 U	870 U
Phenanthrene		410 U	680 U	93 J	420 U	4000 U	360 U
Anthracene		410 U	680 U	400 U	420 U	4000 U	360 U
Carbazole		410 U	680 U	400 U	420 U	4000 U	360 U
Di-n-Butylphthalate		410 U	680 U	400 U	420 U	4000 U	360 U
Fluoranthene		410 U	680 U	420	420 U	4000 U	360 U
Pyrene		410 U	680 U	420	420 U	4000 U	360 U

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TABLE 3

ON-BASE DELINEATION
SVOC RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	D5004	D5007	D5009	D5013	D5030	L8001
	SAMPLE ID	D5004D1P1	D5007D1P1	D5009D1P1	D5013D1P1	D5030DPP1	L800161P1
	DATE / TIME	04/08/97 / 15:10	04/08/97 / 08:50	04/07/97 / 13:50	04/07/97 / 09:45	08/01/97 / 00:00	04/09/97 / 09:00
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Butylbenzylphthalate		410 U	680 U	400 U	420 U	4000 U	360 U
3,3'-Dichlorobenzidine		410 U	680 U	400 U	420 U	4000 U	360 U
Benzo(a)Anthracene		410 U	680 U	400 U	420 U	4000 U	360 U
Chrysene		410 U	680 U	400 U	420 U	4000 U	360 U
bis(2-ethylhexyl)Phthalate		410 U	170 J	400 U	420 U	4000 U	360 U
Di-n-octylphthalate		410 U	680 U	400 U	420 U	4000 U	360 U
Benzo(b)fluoranthene		410 U	680 U	400 U	420 U	4000 U	360 U
Benzo(k)fluoranthene		410 U	680 U	400 U	420 U	4000 U	360 U
Benzo(a)pyrene		410 U	680 U	400 U	420 U	4000 U	360 U
Indeno(1,2,3-cd)pyrene		410 U	680 U	400 U	420 U	4000 U	360 U
Dibenzo(a,h)anthracene		410 U	680 U	400 U	420 U	4000 U	360 U
Benzo(g,h,i)perylene		410 U	680 U	400 U	420 U	4000 U	360 U

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U = non-detect, J = estimated, R = rejected UJ = estimated quantitation limit

TABLE 3

ON-BASE DELINEATION
SVOC RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	L8003	L8005	L8010	L8013	L8013	L8016
	SAMPLE ID	L8003S1P1	L8005S1P1	L8010S1P1	L8013S1P1	L8013S1D1	L8016S1P1
	DATE / TIME	04/10/97 / 10:40	04/09/97 / 10:15	04/09/97 / 16:30	04/25/97 / 10:05	04/25/97 / 10:05	04/24/97 / 16:10
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Primary	Duplicate 1	Primary
Phenol		350 U	360 U	360 U	350 U	350 U	350 U
bis(2-chloroethyl)ether		350 U	360 U	360 U	350 U	350 U	350 U
2-Chlorophenol		350 U	360 U	360 U	350 U	350 U	350 U
1,3-Dichlorobenzene		350 U	360 U	360 U	350 U	350 U	350 U
1,4-Dichlorobenzene		350 U	360 U	360 U	350 U	350 U	350 U
1,2-Dichlorobenzene		350 U	360 U	360 U	350 U	350 U	350 U
2-Methylphenol		350 U	360 U	360 U	350 U	350 U	350 U
2,2'-oxybis(1-Chloropropane)		350 U	360 U	360 U	350 U	350 U	350 U
N-Nitrosodinpropylamine		350 U	360 U	360 U	350 U	350 U	350 U
4-Methylphenol		350 U	360 U	360 U	350 U	350 U	350 U
Hexachloroethane		350 U	360 U	360 U	350 U	350 U	350 U
Nitrobenzene		350 U	360 U	360 U	350 U	350 U	350 U
Isophorone		350 U	360 U	360 U	350 U	350 U	350 U
2-Nitrophenol		350 U	360 U	360 U	350 U	350 U	350 U
2,4-Dimethylphenol		350 U	360 U	360 U	350 U	350 U	350 U
bis(2-chloroethoxy)methane		350 U	360 U	360 U	350 U	350 U	350 U
2,4-Dichlorophenol		350 U	360 U	360 U	350 U	350 U	350 U
1,2,4-Trichlorobenzene		350 U	360 U	360 U	350 U	350 U	350 U
Naphthalene		350 U	360 U	360 U	350 U	350 U	350 U
4-Chloroaniline		350 U	360 U	360 U	350 U	350 U	350 U
Hexachlorobutadiene		350 U	360 U	360 U	350 U	350 U	350 U
4-Chloro-3-Methylphenol		350 U	360 U	360 U	350 U	350 U	350 U
2-Methylnaphthalene		350 U	360 U	360 U	350 U	350 U	350 U
Hexachlorocyclopentadiene		350 U	360 U	360 U	350 U	350 U	350 U
2,4,6-Trichlorophenol		350 U	360 U	360 U	350 U	350 U	350 U
2,4,5-Trichlorophenol		840 U	860 U	870 U	840 U	840 U	850 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-de[illegible] J = estimated, R = rejected [illegible] = estimated quantitation limit [illegible]

TABLE 3

ON-BASE DELINEATION
SVOC RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	L8003	L8005	L8010	L8013	L8013	L8016
	SAMPLE ID	L8003S1P1	L8005S1P1	L8010S1P1	L8013S1P1	L8013S1D1	L8016S1P1
	DATE / TIME	04/10/97 / 10:40	04/09/97 / 10:15	04/09/97 / 16:30	04/25/97 / 10:05	04/25/97 / 10:05	04/24/97 / 15:10
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Primary	Duplicate 1	Primary
2-Chloronaphthalene		350 U	360 U	360 U	350 U	350 U	350 U
2-Nitroaniline		840 U	860 U	870 U	840 U	840 U	850 U
Dimethylphthalate		350 U	360 U	360 U	350 U	350 U	350 U
Acenaphthylene		350 U	360 U	360 U	350 U	350 U	350 U
2,6-Dinitrotoluene		350 U	360 U	360 U	350 U	350 U	350 U
3-Nitroaniline		840 U	860 U	870 U	840 U	840 U	850 U
Acenaphthene		350 U	360 U	360 U	350 U	350 U	350 U
2,4-Dinitrophenol		840 U	860 U	870 U	840 U	840 U	850 U
4-Nitrophenol		840 U	860 U	870 U	<840 R	840 U	850 U
Dibenzofuran		350 U	360 U	360 U	350 U	350 U	350 U
2,4-Dinitrotoluene		350 U	360 U	360 U	350 U	350 U	350 U
Diethylphthalate		350 U	360 U	360 U	350 U	350 U	350 U
4-Chlorophenyl-phenylether		350 U	360 U	360 U	350 U	350 U	350 U
Fluorene		350 U	360 U	360 U	350 U	350 U	350 U
4-Nitroaniline		840 U	860 U	870 U	840 U	840 U	850 U
4,6-Dinitro-2-methylphenol		840 U	860 U	870 U	840 U	840 U	850 U
N-Nitrosodiphenylamine (1)		350 U	360 U	360 U	350 U	350 U	350 U
4-Bromophenyl-phenylether		350 U	360 U	360 U	350 U	350 U	350 U
Hexachlorobenzene		350 U	360 U	360 U	350 U	350 U	350 U
Pentachlorophenol		840 U	860 U	870 U	<840 R	840 U	850 U
Phenanthrene		350 U	360 U	360 U	350 U	350 U	350 U
Anthracene		350 U	360 U	360 U	350 U	350 U	350 U
Carbazole		350 U	360 U	360 U	350 U	350 U	350 U
Di-n-Butylphthalate		350 U	360 U	360 U	350 U	350 U	350 U
Fluoranthene		350 U	150 J	360 U	350 U	350 U	350 U
Pyrene		350 U	160 J	360 U	350 U	350 U	350 U

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U = non-detect, J = estimated, R = rejected

UJ = estimated quantitation limit

TABLE 3

ON-BASE DELINEATION
SVOC RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	L8003	L8005	L8010	L8013	L8013	L8016
	SAMPLE ID	L8003S1P1	L8005S1P1	L8010S1P1	L8013S1P1	L8013S1D1	L8016S1P1
	DATE / TIME	04/10/97 / 10:40	04/09/97 / 10:15	04/09/97 / 16:30	04/25/97 / 10:05	04/25/97 / 10:05	04/24/97 / 15:10
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Primary	Duplicate 1	Primary
Butylbenzylphthalate		350 U	360 U	360 U	350 U	350 U	350 U
3,3'-Dichlorobenzidine		350 U	360 U	360 U	350 U	350 U	350 U
Benzo(a)Anthracene		350 U	360 U	360 U	350 U	350 U	350 U
Chrysene		350 U	360 U	360 U	350 U	350 U	350 U
bis(2-ethylhexyl)Phthalate		350 U	360 U	360 U	350 U	350 U	350 U
Di-n-octylphthalate		350 U	360 U	360 U	350 U	350 U	350 U
Benzo(b)fluoranthene		350 U	360 U	360 U	350 U	350 U	350 U
Benzo(k)fluoranthene		350 U	360 U	360 U	350 U	350 U	350 U
Benzo(a)pyrene		350 U	360 U	360 U	350 U	350 U	350 U
Indeno(1,2,3-cd)pyrene		350 U	360 U	360 U	350 U	350 U	350 U
Dibenzo(a,h)anthracene		350 U	360 U	360 U	350 U	350 U	350 U
Benzo(g,h,i)perylene		350 U	360 U	360 U	350 U	350 U	350 U

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[illegible] = estimated quantitation limit

TABLE 3

ON-BASE DELINEATION
SVOC RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	L8025	L8027
	SAMPLE ID	L8025S1P1	L8027S1P1
	DATE / TIME	04/24/97 / 15:50	04/25/97 / 14:35
	DEPTH (ft)	0.00	0.00
	RESULT TYPE	Primary	Primary
Phenol		350 U	350 U
bis(2-chloroethyl)ether		350 U	350 U
2-Chlorophenol		350 U	350 U
1,3-Dichlorobenzene		350 U	350 U
1,4-Dichlorobenzene		350 U	350 U
1,2-Dichlorobenzene		350 U	350 U
2-Methylphenol		350 U	350 U
2,2'-oxybis(1-Chloropropane)		350 U	350 U
N-Nitrosodinpropylamine		350 U	350 U
4-Methylphenol		350 U	350 U
Hexachloroethane		350 U	350 U
Nitrobenzene		350 U	350 U
Isophorone		350 U	350 U
2-Nitrophenol		350 U	350 U
2,4-Dimethylphenol		350 U	350 U
bis(2-chloroethoxy)methane		350 U	350 U
2,4-Dichlorophenol		350 U	350 U
1,2,4-Trichlorobenzene		350 U	350 U
Naphthalene		350 U	350 U
4-Chloroaniline		350 U	350 U
Hexachlorobutadiene		350 U	350 U
4-Chloro-3-Methylphenol		350 U	350 U
2-Methylnaphthalene		350 U	350 U
Hexachlorocyclopentadiene		350 U	350 U
2,4,6-Trichlorophenol		350 U	350 U
2,4,5-Trichlorophenol		860 U	860 U

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U = non-detect, J = estimated, R = rejected UJ = estimated quantitation limit

TABLE 3

ON-BASE DELINEATION
SVOC RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	L8025	L8027
	SAMPLE ID	L8025S1P1	L8027S1P1
	DATE / TIME	04/24/97 / 15:50	04/25/97 / 14:35
	DEPTH (ft)	0.00	0.00
	RESULT TYPE	Primary	Primary
2-Chloronaphthalene		350 U	350 U
2-Nitroaniline		860 U	860 U
Dimethylphthalate		350 U	350 U
Acenaphthylene		350 U	350 U
2,6-Dinitrotoluene		350 U	350 U
3-Nitroaniline		860 U	860 U
Acenaphthene		350 U	350 U
2,4-Dinitrophenol		860 U	860 U
4-Nitrophenol		860 U	860 U
Dibenzofuran		350 U	350 U
2,4-Dinitrotoluene		350 U	350 U
Diethylphthalate		350 U	350 U
4-Chlorophenyl-phenylether		350 U	350 U
Fluorene		350 U	350 U
4-Nitroaniline		860 U	860 U
4,6-Dinitro-2-methylphenol		860 U	860 U
N-Nitrosodiphenylamine (1)		350 U	350 U
4-Bromophenyl-phenylether		350 U	350 U
Hexachlorobenzene		350 U	350 U
Pentachlorophenol		860 U	860 U
Phenanthrene		350 U	350 U
Anthracene		350 U	350 U
Carbazole		350 U	350 U
Di-n-Butylphthalate		350 U	350 U
Fluoranthene		350 U	350 U
Pyrene		350 U	350 U

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TABLE 3

ON-BASE DELINEATION
SVOC RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	L8025	L8027
	SAMPLE ID	L8025S1P1	L8027S1P1
	DATE / TIME	04/24/97 / 15:50	04/25/97 / 14:35
	DEPTH (ft)	0.00	0.00
	RESULT TYPE	Primary	Primary
Butylbenzylphthalate		350 U	350 U
3,3'-Dichlorobenzidine		350 U	350 U
Benzo(a)Anthracene		350 U	350 U
Chrysene		350 U	350 U
bis(2-ethylhexyl)Phthalate		350 U	350 U
Di-n-octylphthalate		350 U	350 U
Benzo(b)fluoranthene		350 U	350 U
Benzo(k)fluoranthene		350 U	350 U
Benzo(a)pyrene		350 U	350 U
Indeno(1,2,3-cd)pyrene		350 U	350 U
Dibenzo(a,h)anthracene		350 U	350 U
Benzo(g,h,i)perylene		350 U	350 U

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TABLE 4

ON-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	D1001	D1003	D1005	D1008	D1010	D1013
	SAMPLE ID	D1001D1P1	D1003D1P1	D1005D1P1	D1008D1P1	D1010D1P1	D1013D1P1
	DATE / TIME	04/10/97 / 10:40	04/10/97 / 11:10	04/10/97 / 09:20	04/09/97 / 13:50	04/09/97 / 11:00	04/09/97 / 08:40
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
alpha-BHC		2.9 U	2.3 U	2.1 U	3.1 U	3.2 UJ	2.3 U
beta-BHC		2.9 U	2.3 U	2.1 U	3.1 U	3.2 UJ	2.3 U
delta-BHC		2.9 U	2.3 U	2.1 U	3.1 U	3.2 UJ	2.3 U
gamma-BHC(Lindane)		2.9 U	2.3 U	2.1 U	3.1 U	3.2 UJ	2.3 U
Heptachlor		2.9 U	2.3 U	2.1 U	3.1 U	3.2 UJ	2.3 U
Aldrin		2.9 U	2.3 U	2.1 U	3.1 U	3.2 UJ	2.3 U
Heptachlor epoxide		2.9 U	2.3 U	2.1 U	3.1 U	3.2 UJ	2.3 U
Endosulfan I		2.9 U	2.3 U	2.1 U	3.1 U	3.2 UJ	2.3 U
Dieldrin		5.8 U	4.7 U	4.3 U	6.1 U	6.4 UJ	4.5 U
4,4'-DDE		12 J	2.4 J	4.3 U	6.1 U	3.6 J	2.3 J
Endrin		5.8 U	4.7 U	4.3 U	6.1 U	6.4 UJ	4.5 U
Endosulfan II		5.8 U	4.7 U	4.3 U	6.1 U	6.4 UJ	4.5 U
4,4'-DDD		5.7 J	0.47 NJ	2.1 J	1 J	9 J	4.8
Endosulfan sulfate		5.8 U	4.7 U	4.3 U	6.1 U	6.4 UJ	4.5 U
4,4'-DDT		5.6 NJ	1 J	4.3 U	6.1 U	6.4 UJ	4.5 U
Methoxychlor		29 U	23 U	21 U	31 U	0.94 NJ	2.2 J
Endrin ketone		5.8 U	4.7 U	4.3 U	6.1 U	6.4 UJ	4.5 U
Endrin aldehyde		5.8 U	0.39 J	4.3 U	6.1 U	6.4 UJ	4.5 U
alpha-Chlordane		0.56 J	0.85 J	2.1 U	1.5 J	5.1 J	7.3
gamma-Chlordane		0.47 NJ	0.94 J	2.1 U	1 J	8.7 J	7.4
Toxaphene		290 U	230 U	210 U	310 U	320 UJ	230 U
Aroclor-1016		58 U	47 U	43 U	61 U	64 UJ	45 U
Aroclor-1221		120 U	94 U	85 U	120 U	130 UJ	91 U
Aroclor-1232		58 U	47 U	43 U	61 U	64 UJ	45 U
Aroclor-1242		58 U	47 U	43 U	61 U	64 UJ	45 U
Aroclor-1248		58 U	47 U	43 U	61 U	64 UJ	45 U

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U = non-det[illegible] = estimated, NJ = presumptive evidence [illegible] = estimated quantitation limit [illegible]

TABLE 4

ON-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	D1001	D1003	D1005	D1008	D1010	D1013
	SAMPLE ID	D1001D1P1	D1003D1P1	D1005D1P1	D1008D1P1	D1010D1P1	D1013D1P1
	DATE / TIME	04/10/97 / 10:40	04/10/97 / 11:10	04/10/97 / 09:20	04/09/97 / 13:50	04/09/97 / 11:00	04/09/97 / 08:40
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Aroclor-1254		58 U	47 U	43 U	61 U	64 UJ	45 U
Aroclor-1260		58 U	47 U	43 U	61 U	64 UJ	45 U

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TABLE 4

ON-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	D1015	D2003	D2006	D2006	D3003	D3005
	SAMPLE ID	D1015D1P1	D2003D1P1	D2006D1P1	D2006D1D1	D3003D1P1	D3005D1P1
	DATE / TIME	04/22/97 / 11:10	04/05/97 / 10:00	04/05/97 / 10:20	04/05/97 / 10:20	04/07/97 / 15:20	04/07/97 / 11:10
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
alpha-BHC		3.1 UJ	2.3 UJ	2 UJ	2 U	2.2 U	4.4 U
beta-BHC		3.1 UJ	2.3 UJ	2 UJ	2 U	2.2 U	4.4 U
delta-BHC		3.1 UJ	2.3 UJ	2 UJ	2 U	2.2 U	4.4 U
gamma-BHC(Lindane)		3.1 UJ	2.3 UJ	2 UJ	2 U	2.2 U	4.4 U
Heptachlor		3.1 UJ	2.3 UJ	2 UJ	2 U	2.2 U	4.4 U
Aldrin		3.1 UJ	2.3 UJ	2 UJ	2 U	2.2 U	4.4 U
Heptachlor epoxide		3.1 UJ	2.3 UJ	2 UJ	2 U	2.2 U	4.4 U
Endosulfan I		3.1 UJ	2.3 UJ	2 UJ	2 U	2.2 U	4.4 U
Dieldrin		6.2 UJ	4.7 UJ	26 J	32	4.4 U	0.19 NJ
4,4'-DDE		0.84 J	4.7 J	0.24 NJ	0.73 NJ	32	14
Endrin		6.2 UJ	4.7 UJ	3.9 UJ	4 U	4.4 U	8.9 U
Endosulfan II		1.1 NJ	4.7 UJ	3.9 UJ	4 U	4.4 U	8.9 U
4,4'-DDD		2.4 J	4.7 UJ	20 J	27	6 U	970
Endosulfan sulfate		6.2 UJ	4.7 UJ	3.9 UJ	4 U	4.4 U	8.9 U
4,4'-DDT		6.2 UJ	0.5 NJ	3.9 UJ	0.58 J	13	22
Methoxychlor		31 UJ	23 UJ	20 UJ	20 U	22 U	44 U
Endrin ketone		6.2 UJ	4.7 UJ	3.9 UJ	4 U	0.46 NJ	8.9 U
Endrin aldehyde		6.2 UJ	4.7 UJ	3.9 UJ	4 U	4.4 U	8.9 U
alpha-Chlordane		0.76 J	0.59 NJ	2 UJ	0.35 NJ	0.73 J	7.1
gamma-Chlordane		0.88 J	0.68 NJ	2 UJ	2 U	0.53 NJ	8.1
Toxaphene		310 UJ	230 UJ	200 UJ	200 U	220 U	440 U
Aroclor-1016		62 UJ	47 UJ	39 UJ	40 U	44 U	89 U
Aroclor-1221		120 UJ	93 UJ	79 UJ	81 U	87 U	180 U
Aroclor-1232		62 UJ	47 UJ	39 UJ	40 U	44 U	89 U
Aroclor-1242		62 UJ	47 UJ	39 UJ	40 U	44 U	89 U
Aroclor-1248		62 UJ	47 UJ	39 UJ	40 U	44 U	89 U

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U = non-det[illegible] = estimated, NJ = presumptive evidence [illegible] = estimated quantitation limit [illegible]

TABLE 4

ON-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	D1015	D2003	D2006	D2006	D3003	D3005
	SAMPLE ID	D1015D1P1	D2003D1P1	D2006D1P1	D2006D1D1	D3003D1P1	D3005D1P1
	DATE / TIME	04/22/97 / 11:10	04/05/97 / 10:00	04/05/97 / 10:20	04/05/97 / 10:20	04/07/97 / 15:20	04/07/97 / 11:10
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
Aroclor-1254		62 UJ	47 UJ	39 UJ	40 U	44 U	89 U
Aroclor-1260		62 UJ	47 UJ	39 UJ	40 U	44 U	89 U

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TABLE 4

ON-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	D5001	D5001	D5001	D5001	D5001	D5004
	SAMPLE ID	D5001D1P1	D5001D1P3	D5001DPP1	D5001DPD1	D5001DPP2	D5004D1P1
	DATE / TIME	04/08/97 / 13:05	06/24/97 / 09:00	08/01/97 / 12:00	08/01/97 / 12:00	08/01/97 / 12:00	04/08/97 / 16:10
	DEPTH (ft)	0.00	0.00	0.00	0.00	1.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
alpha-BHC		---	---	---	---	---	2 UJ
beta-BHC		---	---	---	---	---	2 UJ
delta-BHC		---	---	---	---	---	2 UJ
gamma-BHC(Lindane)		---	---	---	---	---	2 UJ
Heptachlor		---	---	---	---	---	2 UJ
Aldrin		---	---	---	---	---	2 UJ
Heptachlor epoxide		---	---	---	---	---	2 UJ
Endosulfan I		---	---	---	---	---	2 UJ
Dieldrin		---	---	---	---	---	1.3 J
4,4'-DDE		---	---	---	---	---	4.1 UJ
Endrin		---	---	---	---	---	4.1 UJ
Endosulfan II		---	---	---	---	---	4.1 UJ
4,4'-DDD		---	---	---	---	---	4.1 UJ
Endosulfan sulfate		---	---	---	---	---	4.1 UJ
4,4'-DDT		---	---	---	---	---	4.1 UJ
Methoxychlor		---	---	---	---	---	20 UJ
Endrin ketone		---	---	---	---	---	4.1 UJ
Endrin aldehyde		---	---	---	---	---	4.1 UJ
alpha-Chlordane		---	---	---	---	---	2 UJ
gamma-Chlordane		---	---	---	---	---	2 UJ
Toxaphene		---	---	---	---	---	200 UJ
Aroclor-1016		21000 U	20000 U	40000 U	3900 U	8000 U	41 UJ
Aroclor-1221		21000 U	20000 U	40000 U	3900 U	8000 U	82 UJ
Aroclor-1232		21000 U	20000 U	40000 U	3900 U	8000 U	41 UJ
Aroclor-1242		---	---	40000 U	3900 U	8000 U	41 UJ
Aroclor-1248		21000 U	20000 U	40000 U	3900 U	8000 U	41 UJ

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U = non-det[illegible] = estimated, NJ = presumptive evidence [illegible] = estimated quantitation limit [illegible]

TABLE 4

ON-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	D5001	D5001	D5001	D5001	D5001	D5004
	SAMPLE ID	D5001D1P1	D5001D1P3	D5001DPP1	D5001DPD1	D5001DPP2	D5004D1P1
	DATE / TIME	04/08/97 / 13:05	06/24/97 / 09:00	08/01/97 / 12:00	08/01/97 / 12:00	08/01/97 / 12:00	04/08/97 / 15:10
	DEPTH (ft)	0.00	0.00	0.00	0.00	1.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
Aroclor-1254		42000 U	40000 U	40000 U	3900 U	8000 U	41 UJ
Aroclor-1260		180000	120000	140000 J	15000 J	33000	41 UJ

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-detect, J = estimated, NJ = presumptive evidence UJ = estimated quantitation limit

TABLE 4

ON-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	D5007	D5009	D5013	D5020	D5021	D5023
	SAMPLE ID	D5007D1P1	D5009D1P1	D5013D1P1	D5020DPP1	D5021DPP1	D5023DPP1
	DATE / TIME	04/08/97 / 08:50	04/07/97 / 13:50	04/07/97 / 09:45	08/01/97 / 12:00	08/01/97 / 12:00	08/01/97 / 12:00
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
alpha-BHC		3.4 UJ	2 UJ	2.4 U	---	---	---
beta-BHC		3.4 UJ	2 UJ	2.4 U	---	---	---
delta-BHC		3.4 UJ	2 UJ	2.4 U	---	---	---
gamma-BHC(Lindane)		3.4 UJ	2 UJ	2.4 U	---	---	---
Heptachlor		3.4 UJ	2 UJ	2.4 U	---	---	---
Aldrin		3.4 UJ	2 UJ	2.4 U	---	---	---
Heptachlor epoxide		3.4 UJ	2 UJ	2.4 U	---	---	---
Endosulfan I		0.56 J	2 UJ	2.4 U	---	---	---
Dieldrin		0.19 NJ	4 UJ	4.8 U	---	---	---
4,4'-DDE		6.9 UJ	4 UJ	2 J	---	---	---
Endrin		6.9 UJ	4 UJ	4.8 U	---	---	---
Endosulfan II		6.9 UJ	4 UJ	4.8 U	---	---	---
4,4'-DDD		6.9 UJ	4 UJ	4.8 U	---	---	---
Endosulfan sulfate		6.9 UJ	4 UJ	4.8 U	---	---	---
4,4'-DDT		6.9 UJ	4 UJ	4.8 U	---	---	---
Methoxychlor		0.48 NJ	20 UJ	24 U	---	---	---
Endrin ketone		6.9 UJ	4 UJ	4.8 U	---	---	---
Endrin aldehyde		6.9 UJ	4 UJ	4.8 U	---	---	---
alpha-Chlordane		6.6 J	2 UJ	1.6 J	---	---	---
gamma-Chlordane		6.7 J	2 UJ	1.8 J	---	---	---
Toxaphene		340 UJ	200 UJ	240 U	---	---	---
Aroclor-1016		69 UJ	40 UJ	48 U	40 U	40 U	40 U
Aroclor-1221		140 UJ	81 UJ	95 U	40 U	40 U	40 U
Aroclor-1232		69 UJ	40 UJ	48 U	40 U	40 U	40 U
Aroclor-1242		69 UJ	40 UJ	48 U	40 U	40 U	40 U
Aroclor-1248		69 UJ	40 UJ	48 U	40 U	40 U	40 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-det[illegible] = estimated, NJ = presumptive evidence [illegible] = estimated quantitation limit [illegible]

TABLE 4

ON-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	D5007	D5009	D5013	D5020	D5021	D5023
	SAMPLE ID	D5007D1P1	D5009D1P1	D5013D1P1	D5020DPP1	D5021DPP1	D5023DPP1
	DATE / TIME	04/08/97 / 08:50	04/07/97 / 13:50	04/07/97 / 09:45	08/01/97 / 12:00	08/01/97 / 12:00	08/01/97 / 12:00
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Aroclor-1254		69 UJ	40 UJ	48 U	40 U	40 U	40 U
Aroclor-1260		78 J	24 J	48 U	40 U	40 U	40 U

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TABLE 4

ON-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	D5026	D5027	D5029	D5030	D5031	L8001
	SAMPLE ID	D5026DPP1	D5027DPP1	D5029DPP1	D5030DPP1	D5031DPP1	L8001S1P1
	DATE / TIME	08/01/97 / 12:00	08/01/97 / 12:00	08/01/97 / 12:00	08/01/97 / 12:00	08/01/97 / 12:00	04/09/97 / 09:00
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
alpha-BHC		---	---	---	200 U	---	1.8 UJ
beta-BHC		---	---	---	200 U	---	1.8 UJ
delta-BHC		---	---	---	200 U	---	1.8 UJ
gamma-BHC(Lindane)		---	---	---	200 U	---	1.8 UJ
Heptachlor		---	---	---	200 U	---	1.8 UJ
Aldrin		---	---	---	200 U	---	0.42 NJ
Heptachlor epoxide		---	---	---	200 U	---	1.8 UJ
Endosulfan I		---	---	---	160 NJ	---	1.8 UJ
Dieldrin		---	---	---	150 NJ	---	3.6 UJ
4,4'-DDE		---	---	---	400 U	---	3.6 UJ
Endrin		---	---	---	400 U	---	3.6 UJ
Endosulfan II		---	---	---	400 U	---	3.6 UJ
4,4'-DDD		---	---	---	400 U	---	3.6 UJ
Endosulfan sulfate		---	---	---	400 U	---	3.6 UJ
4,4'-DDT		---	---	---	400 U	---	0.67 J
Methoxychlor		---	---	---	2000 UJ	---	10 J
Endrin ketone		---	---	---	400 U	---	3.6 UJ
Endrin aldehyde		---	---	---	400 U	---	3.6 UJ
alpha-Chlordane		---	---	---	71 NJ	---	1.8 UJ
gamma-Chlordane		---	---	---	200 U	---	1.8 UJ
Toxaphene		---	---	---	20000 U	---	180 UJ
Aroclor-1016		41 U	7900 U	160 U	4000 U	40 U	36 UJ
Aroclor-1221		41 U	7900 U	160 U	8100 U	40 U	73 UJ
Aroclor-1232		41 U	7900 U	160 U	4000 U	40 U	36 UJ
Aroclor-1242		41 U	7900 U	160 U	4000 U	40 U	36 UJ
Aroclor-1248		41 U	7900 U	160 U	4000 U	40 U	36 UJ

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-det[illegible] = estimated, NJ = presumptive evidence [illegible] = estimated quantitation limit [illegible]

TABLE 4

ON-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	D5026	D5027	D5029	D5030	D5031	L8001
	SAMPLE ID	D5026DPP1	D5027DPP1	D5029DPP1	D5030DPP1	D5031DPP1	L8001S1P1
	DATE / TIME	08/01/97 / 12:00	08/01/97 / 12:00	08/01/97 / 12:00	08/01/97 / 12:00	08/01/97 / 12:00	04/09/97 / 09:00
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Aroclor-1254		41 U	7900 U	160 U	4000 U	40 U	36 UJ
Aroclor-1260		120	28000	390	150000	40 U	36 UJ

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TABLE 4

ON-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	L8003	L8005	L8010	L8013	L8013	L8016
	SAMPLE ID	L8003S1P1	L8005S1P1	L8010S1P1	L8013S1P1	L8013S1D1	L8016S1P1
	DATE / TIME	04/10/97 / 10:40	04/09/97 / 10:15	04/09/97 / 16:30	04/25/97 / 10:05	04/25/97 / 10:05	04/24/97 / 15:10
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Primary	Duplicate 1	Primary
alpha-BHC		1.8 U	1.8 UJ	1.9 U	1.8 UJ	1.7 U	1.8 UJ
beta-BHC		1.8 U	1.8 UJ	1.9 U	1.8 UJ	1.7 U	1.8 UJ
delta-BHC		1.8 U	1.8 UJ	1.9 U	1.8 UJ	1.7 U	1.8 UJ
gamma-BHC(Lindane)		1.8 U	1.8 UJ	1.9 U	1.8 UJ	1.7 U	1.8 UJ
Heptachlor		1.8 U	1.8 UJ	1.9 U	1.8 UJ	1.7 U	1.8 UJ
Aldrin		1.8 U	1.8 UJ	0.27 NJ	1.8 UJ	1.7 U	1.8 UJ
Heptachlor epoxide		1.8 U	1.8 UJ	1.9 U	1.8 UJ	1.7 U	1.8 UJ
Endosulfan I		1.8 U	0.83 J	1.9 U	1.8 UJ	1.7 U	1.1 NJ
Dieldrin		2.7 NJ	3.6 UJ	3.9 U	3.5 UJ	3.5 U	3.5 UJ
4,4'-DDE		3.5 U	170 D	3.9 U	3.5 UJ	3.5 U	2.8 NJ
Endrin		3.5 U	3.6 UJ	3.9 U	3.5 UJ	3.5 U	3.5 UJ
Endosulfan II		3.5 U	3.6 UJ	3.9 U	3.5 UJ	3.5 U	3.5 UJ
4,4'-DDD		3.5 U	3.6 UJ	3.9 U	3.5 UJ	3.5 U	3.5 UJ
Endosulfan sulfate		3.5 U	3.6 UJ	3.9 U	3.5 UJ	3.5 U	3.5 UJ
4,4'-DDT		6.4	280 D	3.9 U	1.2 J	1.9 J	2.4 J
Methoxychlor		18 U	18 UJ	19 U	18 UJ	17 U	18 UJ
Endrin ketone		3.5 U	3.6 UJ	3.9 U	3.5 UJ	3.5 U	3.5 UJ
Endrin aldehyde		3.5 U	3.6 UJ	3.9 U	3.5 UJ	3.5 U	3.5 UJ
alpha-Chlordane		1.8 U	0.56 J	1.9 U	1.8 UJ	1.7 U	1.8 UJ
gamma-Chlordane		1.8 U	0.33 NJ	1.9 U	1.8 UJ	1.7 U	1.8 UJ
Toxaphene		180 U	180 UJ	190 U	180 UJ	170 U	180 UJ
Aroclor-1016		35 U	36 UJ	39 U	35 UJ	35 U	35 UJ
Aroclor-1221		70 U	72 UJ	78 U	70 UJ	70 U	71 UJ
Aroclor-1232		35 U	36 UJ	39 U	35 UJ	35 U	35 UJ
Aroclor-1242		35 U	36 UJ	39 U	35 UJ	35 U	35 UJ
Aroclor-1248		35 U	36 UJ	39 U	35 UJ	35 U	35 UJ

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TABLE 4

ON-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	L8003	L8005	L8010	L8013	L8013	L8016
	SAMPLE ID	L8003S1P1	L8005S1P1	L8010S1P1	L8013S1P1	L8013S1D1	L8016S1P1
	DATE / TIME	04/10/97 / 10:40	04/09/97 / 10:15	04/09/97 / 16:30	04/25/97 / 10:05	04/25/97 / 10:05	04/24/97 / 15:10
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Primary	Duplicate 1	Primary
Aroclor-1254		35 U	36 UJ	39 U	35 UJ	35 U	35 UJ
Aroclor-1260		35 U	36 UJ	39 U	35 UJ	35 U	35 UJ

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U = non-detect, J = estimated, NJ = presumptive evidence UJ = estimated quantitation limit

TABLE 4

ON-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	L8025	L8027
	SAMPLE ID	L8025S1P1	L8027S1P1
	DATE / TIME	04/24/97 / 15:50	04/25/97 / 14:35
	DEPTH (ft)	0.00	0.00
	RESULT TYPE	Primary	Primary
alpha-BHC		3.6 U	9 U
beta-BHC		3.6 U	9 U
delta-BHC		3.6 U	9 U
gamma-BHC(Lindane)		3.6 U	9 U
Heptachlor		3.6 U	9 U
Aldrin		3.6 U	9 U
Heptachlor epoxide		3.6 U	9 U
Endosulfan I		3.6 U	9 U
Dieldrin		7.2 U	18 U
4,4'-DDE		58	100
Endrin		7.2 U	18 U
Endosulfan II		7.2 U	18 U
4,4'-DDD		7.2 U	18 U
Endosulfan sulfate		7.2 U	18 U
4,4'-DDT		9	18 U
Methoxychlor		36 U	90 U
Endrin ketone		7.2 U	18 U
Endrin aldehyde		7.2 U	18 U
alpha-Chlordane		3.6 U	9 U
gamma-Chlordane		3.6 U	9 U
Toxaphene		360 U	900 U
Aroclor-1016		72 U	180 U
Aroclor-1221		140 U	360 U
Aroclor-1232		72 U	180 U
Aroclor-1242		72 U	180 U
Aroclor-1248		72 U	180 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-dete[illegible] = estimated, NJ = presumptive evidence [illegible] = estimated quantitation limit

TABLE 4

ON-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	L8025	L8027
	SAMPLE ID	L8025S1P1	L8027S1P1
	DATE / TIME	04/24/97 / 15:50	04/25/97 / 14:35
	DEPTH (ft)	0.00	0.00
	RESULT TYPE	Primary	Primary
Aroclor-1254		72 U	46 J
Aroclor-1260		72 U	180 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-detect, J = estimated, NJ = presumptive evidence UJ = estimated quantitation limit

TABLE 5

ON-BASE DELINEATION
HERBICIDE RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	D1001	D1003	D1005	D1008	D1010	D1013
	SAMPLE ID	D1001D1P1	D1003D1P1	D1005D1P1	D1008D1P1	D1010D1P1	D1013D1P1
	DATE / TIME	04/10/97 / 10:40	04/10/97 / 11:10	04/10/97 / 09:20	04/09/97 / 13:50	04/09/97 / 11:00	04/09/97 / 08:40
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
2,4-D		140 U	110 U	100 U	150 U	150 U	110 U
2,4,5-TP (Silvex)		35 U	28 U	26 U	37 U	38 U	27 U
2,4,5-T		35 U	28 U	26 U	37 U	38 U	27 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-de[illegible] = estimated, For RCL HERB [illegible] = estimated quantitation limit [illegible]

TABLE 5

ON-BASE DELINEATION
HERBICIDE RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	D1015	D2003	D2006	D2006	D3003	D3005
	SAMPLE ID	D1015D1P1	D2003D1P1	D2006D1P1	D2006D1D1	D3003D1P1	D3005D1P1
	DATE / TIME	04/22/97 / 11:10	04/05/97 / 10:00	04/05/97 / 10:20	04/05/97 / 10:20	04/07/97 / 15:20	04/07/97 / 11:10
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
2,4-D		160 U	110 UJ	95 U	97 U	100 U	110 U
2,4,5-TP (Silvex)		41 U	28 UJ	24 U	24 U	26 U	27 U
2,4,5-T		41 U	28 UJ	24 U	24 U	26 U	27 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-detect, J = estimated, For RCL HERB UJ = estimated quantitation limit

TABLE 5

ON-BASE DELINEATION
HERBICIDE RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	D5004	D5007	D5009	D5013	D5030	L8001
	SAMPLE ID	D5004D1P1	D5007D1P1	D5009D1P1	D5013D1P1	D5030DPP1	L8001S1P1
	DATE / TIME	04/08/97 / 15:10	04/08/97 / 08:50	04/07/97 / 13:50	04/07/97 / 09:45	08/01/97 / 00:00	04/09/97 / 09:00
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
2,4-D		100 U	170 U	98 U	100 U	97 U	87 U
2,4,5-TP (Silvex)		25 U	41 U	24 U	25 U	24 U	22 U
2,4,5-T		25 U	41 U	24 U	25 U	24 U	22 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-det[illegible] = estimated, For RCL HERB [illegible] = estimated quantitation limit [illegible]

TABLE 5

ON-BASE DELINEATION
HERBICIDE RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	L8003	L8005	L8010	L8013	L8013	L8016
	SAMPLE ID	L8003S1P1	L8005S1P1	L8010S1P1	L8013S1P1	L8013S1D1	L8016S1P1
	DATE / TIME	04/10/97 / 10:40	04/09/97 / 10:15	04/09/97 / 16:30	04/25/97 / 10:05	04/25/97 / 10:05	04/24/97 / 15:10
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Primary	Duplicate 1	Primary
2,4-D		85 U	86 U	94 U	84 U	84 U	85 U
2,4,5-TP (Silvex)		21 U	22 U	23 U	21 U	21 U	21 U
2,4,5-T		21 U	22 U	23 U	21 U	21 U	21 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-detect, J = estimated, For RCL HERB UJ = estimated quantitation limit

TABLE 5

ON-BASE DELINEATION
HERBICIDE RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/23/98

CONSTITUENT (Units in ug/kg)	SITE	L8025	L8027
	SAMPLE ID	L8025S1P1	L8027S1P1
	DATE / TIME	04/24/97 / 15:50	04/25/97 / 14:35
	DEPTH (ft)	0.00	0.00
	RESULT TYPE	Primary	Primary
2,4-D		86 U	86 U
2,4,5-TP (Silvex)		22 U	21 U
2,4,5-T		52 J	21 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-det[illegible] = estimated, For RCL HERB [illegible] = estimated quantitation limit [illegible]

TABLE 6

OFF-BASE DELINEATION
DIOXIN/FURAN RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/24/98

CONSTITUENT (Units in ng/kg)	SITE	BB001	BB002	BB003	BB004	BB005	BB006
	SAMPLE ID	BB001D1P2	BB002D1P2	BB003D1P2	BB004D1P2	BB005D1P2	BB006D2P1
	DATE / TIME	05/16/97 / 12:48	05/16/97 / 13:26	05/16/97 / 14:06	05/16/97 / 15:25	05/16/97 / 15:39	10/15/97 / 11:00
	DEPTH (ft)	0.50	0.50	0.50	0.50	0.50	0.00
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
2,3,7,8-TCDD		0.3 U	0.68	1.3	0.3 U	3.6 U	1.4
1,2,3,7,8-PeCDD		0.4 U	0.7 U	1.7	0.4 U	5.6 U	2.8
1,2,3,4,7,8-HxCDD		0.75	2.2	5.6	1.1	5.2 U	10.2
1,2,3,6,7,8-HxCDD		2.6	5.4	20.4	6.9	36.2	76.1
1,2,3,7,8,9-HxCDD		6.8	8.8	22.9	4.1	22.4	31.6 J
1,2,3,4,6,7,8-HpCDD		98.7	290	807	225	1530	2390 J
1,2,3,4,6,7,8,9-OCDD		1570	2880	10350	2610	18990	1970 J
2,3,7,8-TCDF		0.3 U	(0.31)	1.6	0.3 U	3.2 U	4.7 U
1,2,3,7,8-PeCDF		0.3 U	0.5 U	0.7 U	0.3 U	3.8 U	4.3
2,3,4,7,8-PeCDF		0.3 U	0.5 U	0.7 U	0.3 U	3.6 U	4.6
1,2,3,4,7,8-HxCDF		1.0	1.6	11.0	5.1	34.5	30.8 J
1,2,3,6,7,8-HxCDF		0.36	0.72	4.5	2.4	18.7	14.6
2,3,4,6,7,8-HxCDF		0.91	1.5	7.0	3.4	21.1	25.8 J
1,2,3,7,8,9-HxCDF		0.4 U	0.6 U	0.9 U	0.4 U	4.8 U	2.1
1,2,3,4,6,7,8-HpCDF		10.6	22.5	126	70.5	442	737
1,2,3,4,7,8,9-HpCDF		0.96	1.9	12.9	5.7	17.9	47.9
1,2,3,4,6,7,8,9-OCDF		36.8	97.2	609	262	2160	2580 J
Total TCDD		18.2	16.8	37.9	3.2	22.2	42.2
Total PeCDD		28.5	13.4	15.2	1.7	47.1	23.8
Total HxCDD		142	151	239	53.4	178	548
Total HpCDD		228	1460	1870	481	3430	5000
Total TCDF		0.55	0.91	1.6	0.67	3.2 U	28.3
Total PeCDF		2.6	3.8	23.2	9.8	73.9	78.6
Total HxCDF		12.9	28.5	169	86.9	546	772
Total HpCDF		32.1	80.2	499	259	1690	3320
Total TEQ		3.95	8.85	29.9	8.18	54.3	60.7 J

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TABLE 6

OFF-BASE DELINEATION
DIOXIN/FURAN RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/24/98

CONSTITUENT (Units in ng/kg)	SITE	BB007	BB008	BB009	BB010	BC001	BC002
	SAMPLE ID	BB007D2P1	BB008D2P1	BB009D2P1	BB010D2P1	BC001D1P2	BC002D1P2
	DATE / TIME	10/15/97 / 11:10	10/15/97 / 11:15	10/15/97 / 11:25	10/15/97 / 11:35	04/29/97 / 09:31	04/29/97 / 10:46
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.50	0.50
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
2,3,7,8-TCDD		1.2	1.2	2	1.4	0.3 UJ	0.3 U
1,2,3,7,8-PeCDD		2.5	2.5	3.1	2.6	0.4 U	0.3 U
1,2,3,4,7,8-HxCDD		7.8	10.4	8.6	7.6	0.6 U	0.5 U
1,2,3,6,7,8-HxCDD		35.4	46.9	40.7	26.9	1.6 J	1.6
1,2,3,7,8,9-HxCDD		31.1	37.9 J	33 J	29.4 J	1.6	0.4 U
1,2,3,4,6,7,8-HpCDD		1200 J	1590	1420	947	49.9	26.7
1,2,3,4,6,7,8,9-OCDD		2000 J	1990 J	2000 J	1980 J	452	174
2,3,7,8-TCDF		3.3 U	4.8 U	4.5 U	2.9 U	0.3 UJ	0.3 U
1,2,3,7,8-PeCDF		2.6	3.5	2.5	2	0.3 U	0.2 U
2,3,4,7,8-PeCDF		3.9	6.1	4.1	3.6	0.3 U	0.35
1,2,3,4,7,8-HxCDF		23.3 J	29 J	23 J	18.9 J	2.5 J	1.2
1,2,3,6,7,8-HxCDF		9.7	12.3	9	7.5	0.69	0.3 U
2,3,4,6,7,8-HxCDF		5.8 U	7.7 J	7.6	4.7 U	1.3	0.4 U
1,2,3,7,8,9-HxCDF		1.4	1.5	1.4	0.73	0.5 U	0.5 U
1,2,3,4,6,7,8-HpCDF		318	385	296	218	10.8	4.7
1,2,3,4,7,8,9-HpCDF		24.7	27.6	26.1	14.3	0.97	0.6 U
1,2,3,4,6,7,8,9-OCDF		846 J	883	776 J	445 J	31.0	8.3
Total TCDD		35	45.5	50.9	54.9	0.3 U	0.3 U
Total PeCDD		34.3	41.7	35.4	34.9	2.5	0.3 U
Total HxCDD		364	645	547	416	10.8	3.7
Total HpCDD		2510	3820	3250	2280	103	45.9
Total TCDF		24	31.4	34.8	19.8	1.4	0.3 U
Total PeCDF		67.7	81.8	72.4	62.5	1.4	2.7
Total HxCDF		345	490	429	267	10.1	7.5
Total HpCDF		1170	1490	1180	734	23.2	14.4
Total TEQ		33.7 J	43.1 J	38.3 J	27.9 J	1.87 J	0.951

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TABLE 6

OFF-BASE DELINEATION
DIOXIN/FURAN RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/24/98

CONSTITUENT (Units in ng/kg)	SITE	BC003	BC004	BC005	BC006	BC007	C1001
	SAMPLE ID	BC003D1P1	BC004D1P1	BC005D1P1	BC006D2P1	BC007D2P1	C1001D1P2
	DATE / TIME	05/19/97 / 12:00	05/19/97 / 11:30	05/19/97 / 11:00	10/15/97 / 12:25	10/15/97 / 12:35	04/23/97 / 09:01
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.50
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
2,3,7,8-TCDD		0.8 U	0.60	9.6 U	1.4	1.5	0.4 U
1,2,3,7,8-PeCDD		2.3	2.1	16.5 U	4.4	3.7	1.9
1,2,3,4,7,8-HxCDD		4.2	4.9	13.0 U	10.5	7.9	2.9
1,2,3,6,7,8-HxCDD		14.4	14.3	11.9 U	27.7	20.8	6.0
1,2,3,7,8,9-HxCDD		11.5	17.1	11.5 U	40.6 J	32.6 J	6.0
1,2,3,4,6,7,8-HpCDD		440	402	86.0	808	584	98.2
1,2,3,4,6,7,8,9-OCDD		5740	4740	1880	1990 J	7260	749
2,3,7,8-TCDF		2.6	3.3	7.9 U	5.4 U	4.4 U	0.59
1,2,3,7,8-PeCDF		2.3	1.9	10.3 U	2.9	2.3	0.3 U
2,3,4,7,8-PeCDF		1.8	2.2	10.0 U	4.3	3.2	0.3 U
1,2,3,4,7,8-HxCDF		10.6	8.8	9.5 U	16.6 J	15 J	5.6
1,2,3,6,7,8-HxCDF		5.5	4.1	7.7 U	9	7	1.6
2,3,4,6,7,8-HxCDF		5.7	6.0	9.5 U	6.7 J	6 U	0.74
1,2,3,7,8,9-HxCDF		0.9 U	0.6 U	10.5 U	0.77	0.5 U	0.6 U
1,2,3,4,6,7,8-HpCDF		72.2	62.2	15.8	184	129	22.2
1,2,3,4,7,8,9-HpCDF		5.4	4.3	12.8 U	10.7	8.2	2.0
1,2,3,4,6,7,8,9-OCDF		482	281	25.5 U	352	258	51.6
Total TCDD		3.8	9.8	9.6 U	38	25.9	0.4 U
Total PeCDD		13.6	18.2	16.5 U	44.9	28.9	1.7
Total HxCDD		85.7	173	12.1 U	397	300	37.4
Total HpCDD		665	721	182	2050	1430	184
Total TCDF		20.7	21.9	7.9 U	45.7	32.6	3.3
Total PeCDF		43.1	46.0	10.1 U	89	67.2	7.4
Total HxCDF		105	105	9.2 U	219	183	30.8
Total HpCDF		209	189	15.8	502	366	22.2
Total TEQ		19.0	18.4	2.90	29.5 J	28.1 J	5.32

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TABLE 6

OFF-BASE DELINEATION
DIOXIN/FURAN RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/24/98

CONSTITUENT (Units in ng/kg)	SITE	C1001	C1002	C1003	C1005	C1006	TC001
	SAMPLE ID	C1001D1D2	C1002D1P2	C1003D1P2	C1005D1P2	C1006D1P2	TC001D1P2
	DATE / TIME	04/23/97 / 09:01	04/24/97 / 09:31	04/22/97 / 13:46	04/23/97 / 10:46	04/23/97 / 13:31	04/25/97 / 15:31
	DEPTH (ft)	0.50	0.50	0.50	0.50	0.50	0.50
	RESULT TYPE	Duplicate 1	Primary	Primary	Primary	Primary	Primary
2,3,7,8-TCDD		0.6 U	4.5 U	5.5	0.86	0.3 U	0.2 U
1,2,3,7,8-PeCDD		2.2	3.3 U	0.8 U	0.3 U	0.3 U	0.2 U
1,2,3,4,7,8-HxCDD		2.7	4.0 U	3.0	(0.46)	0.4 U	0.72
1,2,3,6,7,8-HxCDD		5.2	3.7 U	7.4	1.2	0.4 U	1.6
1,2,3,7,8,9-HxCDD		5.3	3.6 U	6.8	1.6	1.4	8.1
1,2,3,4,6,7,8-HpCDD		82.8	85.8 J	208	41.6	13.1	51.2
1,2,3,4,6,7,8,9-OCDD		668	1340 J	1860	413	151	632
2,3,7,8-TCDF		0.6 U	4.5 U	2.2	0.4 U	0.3 U	0.2 U
1,2,3,7,8-PeCDF		0.4 U	3.0 U	0.6 U	0.3 U	0.2 U	0.2 U
2,3,4,7,8-PeCDF		0.51	2.9 U	0.6 U	0.3 U	0.2 U	0.2 U
1,2,3,4,7,8-HxCDF		4.6	17.8	4.3	0.4 U	1.1	0.2 U
1,2,3,6,7,8-HxCDF		1.4	2.9 U	2.3	0.4 U	0.3 U	0.25
2,3,4,6,7,8-HxCDF		0.97	3.6 U	3.2	0.4 U	0.4 U	0.37 U
1,2,3,7,8,9-HxCDF		0.7 U	4.0 U	1.2 U	0.5 U	0.4 U	0.2 U
1,2,3,4,6,7,8-HpCDF		18.2	14.3	32.2	5.2	2.8	0.2 U
1,2,3,4,7,8,9-HpCDF		1.9	3.6 U	2.8	0.77	1.0	0.3 U
1,2,3,4,6,7,8,9-OCDF		56.5	49.7 J	83.2	18.8	7.0	0.3 U
Total TCDD		0.6 U	4.5 U	5.5	0.86	0.3 U	10.2
Total PeCDD		2.2	3.3 U	1.4	1.1	0.84	23.8
Total HxCDD		29.5	20.1	58.1	16.0	5.8	144
Total HpCDD		150	186	474	170	27.3	232
Total TCDF		2.6	4.5 U	11.0	0.97	0.3 U	1.3
Total PeCDF		4.4	5.7	12.4	1.9	7.0	0.2 U
Total HxCDF		27.5	27.5	46.0	7.1	5.9	0.62
Total HpCDF		20.2	46.7	93.3	5.2	8.0	0.3 U
Total TEQ		5.13	4.17 J	12.8	2.09	0.577	2.21

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TABLE 6

OFF-BASE DELINEATION
DIOXIN/FURAN RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/24/98

CONSTITUENT (Units in ng/kg)	SITE	TC002	TC004	TC005	TC006	TC006	TC007
	SAMPLE ID	TC002D1P2	TC004D1P1	TC005D1P1	TC006D1P1	TC006D1D1	TC007D1P1
	DATE / TIME	04/25/97 / 15:31	04/28/97 / 14:20	04/28/97 / 11:00	05/14/97 / 14:30	05/14/97 / 14:30	05/14/97 / 15:15
	DEPTH (ft)	0.50	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Primary	Duplicate 1	Primary
2,3,7,8-TCDD		0.3 U	0.73 R	0.3 U	0.9 U	1.9 U	0.4 U
1,2,3,7,8-PeCDD		0.2 U	2.1 R	0.4 U	1.3 U	2.7 U	0.5 U
1,2,3,4,7,8-HxCDD		0.3 U	4.4 R	0.66 R	1.5 U	2.9 U	0.63
1,2,3,6,7,8-HxCDD		0.2 U	7.9 R	0.87 R	1.4 U	2.7 U	2.1
1,2,3,7,8,9-HxCDD		2.3	39.0 R	2.4 R	3.4	5.3	12.8
1,2,3,4,6,7,8-HpCDD		12.4	208 R	26.0 R	29.6	42.2 J	121
1,2,3,4,6,7,8,9-OCDD		152	2080 R	947 R	407	546 J	3550
2,3,7,8-TCDF		0.2 U	0.4 U	0.2 U	0.7 U	1.6 U	0.4 U
1,2,3,7,8-PeCDF		0.2 U	0.4 U	0.3 U	0.9 U	2.0 U	0.4 U
2,3,4,7,8-PeCDF		0.2 U	0.4 U	0.3 U	0.8 U	1.9 U	0.4 U
1,2,3,4,7,8-HxCDF		0.2 U	0.6 U	0.33 R	1.1 U	2.2 U	0.59
1,2,3,6,7,8-HxCDF		0.2 U	1.2 R	0.2 U	0.9 U	1.8 U	0.4 U
2,3,4,6,7,8-HxCDF		0.37 U	0.77 R	0.50 R	1.1 U	2.2 U	0.72
1,2,3,7,8,9-HxCDF		0.2 U	0.7 U	0.4 U	1.2 U	2.4 U	0.5 U
1,2,3,4,6,7,8-HpCDF		0.50	0.8 U	0.83 R	2.6	3.3	1.3
1,2,3,4,7,8,9-HpCDF		0.3 U	1.1 U	0.6 U	1.6 U	3.3 U	0.7 U
1,2,3,4,6,7,8,9-OCDF		0.3 U	1.2 U	0.91 R	3.0 U	5.1 U	2.4
Total TCDD		1.2	177	8.6	12.3	15.6	7.5
Total PeCDD		3.0	479	4.1	8.0	12.6	6.6
Total HxCDD		11.9	2450	9.7	63.4	86.1	74.1
Total HpCDD		29.8	1710	64.3	92.3	126	242
Total TCDF		0.2 U	1.5	17.2	0.7 U	1.6 U	0.4 U
Total PeCDF		0.2 U	0.4 U	0.73	0.9 U	1.9 U	0.46
Total HxCDF		0.66	2.0	1.4	1.1 U	2.1 U	1.9
Total HpCDF		1.4	(0.80)	1.7	2.6	3.3	1.8
Total TEQ		0.511	11.3 R	1.69 R	1.07	1.53	6.46

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TABLE 6

OFF-BASE DELINEATION
DIOXIN/FURAN RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/24/98

CONSTITUENT (Units in ng/kg)	SITE	TC008	TC009	TC010	WL001	WL002	WL003
	SAMPLE ID	TC008D1P1	TC009D1P2	TC010D1P2	WL001D1P2	WL002D1P2	WL003D1P2
	DATE / TIME	05/14/97 / 15:30	05/16/97 / 09:36	05/16/97 / 09:59	05/16/97 / 14:01	05/16/97 / 14:21	05/16/97 / 14:41
	DEPTH (ft)	0.00	0.50	0.50	0.50	0.50	0.50
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
2,3,7,8-TCDD		0.8 U	1.0	0.3 U	11.7	66.8	54.9
1,2,3,7,8-PeCDD		1.1 U	0.7 U	0.4 U	0.8 U	3.7	2.2
1,2,3,4,7,8-HxCDD		1.4 U	(0.78)	0.5 U	1.4	9.0	4.0
1,2,3,6,7,8-HxCDD		1.2 U	2.3	0.4 U	3.6	25.8	10.7
1,2,3,7,8,9-HxCDD		3.8	7.6	1.2	4.1	24.6	9.9
1,2,3,4,6,7,8-HpCDD		65.2	101	11.9	110	772	284
1,2,3,4,6,7,8,9-OCDD		674	1590	290	1060	7210	2240
2,3,7,8-TCDF		0.6 U	0.50	0.3 U	4.7	29.9	26.7
1,2,3,7,8-PeCDF		0.8 U	0.5 U	0.3 U	0.6 U	2.3	0.80
2,3,4,7,8-PeCDF		0.7 U	0.5 U	0.3 U	0.6 U	1.9	1.0
1,2,3,4,7,8-HxCDF		0.9 U	2.0	0.3 U	2.2	10.4	4.7
1,2,3,6,7,8-HxCDF		0.7 U	1.2	0.3 U	1.6	10.6	4.5
2,3,4,6,7,8-HxCDF		0.9 U	1.5	0.45	2.5	11.2	5.2
1,2,3,7,8,9-HxCDF		1.0 U	0.7 U	0.4 U	0.7 U	1.1 U	(0.27)
1,2,3,4,6,7,8-HpCDF		6.7 U	13.5	0.42	32.1	137	58.7
1,2,3,4,7,8,9-HpCDF		1.4 U	1.0 U	0.6 U	1.8	11.6	4.2
1,2,3,4,6,7,8,9-OCDF		26.6 U	36.4	1.9	94.0	538	212
Total TCDD		87.2	8.7	0.82	13.3	69.1	62.3
Total PeCDD		48.3	10.1	0.81	1.8	21.5	13.3
Total HxCDD		89.9	66.8	9.7	32.2	207	85.2
Total HpCDD		258	233	28.5	218	1600	551
Total TCDF		1.4	1.2	0.3 U	5.9	56.0	55.9
Total PeCDF		1.2	2.5	0.3 U	15.8	74.4	48.8
Total HxCDF		8.2	19.4	0.45	37.8	208	93.3
Total HpCDF		20.1	25.1	1.5	93.3	447	59.3
Total TEQ		1.71	5.36	0.580	16.3	98.8	69.1

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TABLE 6

OFF-BASE DELINEATION
DIOXIN/FURAN RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/24/98

CONSTITUENT (Units in ng/kg)	SITE	WL004	WL005	WL006	WL007	WL008	WL009
	SAMPLE ID	WL004D1P2	WL005D1P1	WL006D1P1	WL007D1P1	WL008D1P1	WL009D1P1
	DATE / TIME	05/16/97 / 15:01	05/17/97 / 10:45	05/17/97 / 10:45	05/17/97 / 10:55	05/17/97 / 10:55	05/17/97 / 11:10
	DEPTH (ft)	0.50	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
2,3,7,8-TCDD		133	136	109	176	212	0.4 U
1,2,3,7,8-PeCDD		5.2	4.4	4.6	7.2	6.5	0.5 U
1,2,3,4,7,8-HxCDD		11.8	9.0	9.2	15.9	12.1	0.8 U
1,2,3,6,7,8-HxCDD		31.9	24.8	27.0	42.9	33.1	0.86
1,2,3,7,8,9-HxCDD		28.7	21.9	17.0	33.3	20.4	6.2
1,2,3,4,6,7,8-HpCDD		883	626	745	1170	809	45.3
1,2,3,4,6,7,8,9-OCDD		7610	5130	8610 J	10980 J	6840 J	932
2,3,7,8-TCDF		49.8	66.1	40.7	55.6	77.2	0.3 U
1,2,3,7,8-PeCDF		2.3	5.3	2.3	3.4	3.2	0.4 U
2,3,4,7,8-PeCDF		2.2	5.4	3.9	3.7	3.2	0.4 U
1,2,3,4,7,8-HxCDF		13.3	31.7	22.0	22.7	15.9	0.5 U
1,2,3,6,7,8-HxCDF		14.5	17.7	12.3	16.2	14.7	0.4 U
2,3,4,6,7,8-HxCDF		15.2	17.9	11.9	9.4	12.5	0.62 U
1,2,3,7,8,9-HxCDF		1.1	0.89	0.98	0.98	0.84	0.5 U
1,2,3,4,6,7,8-HpCDF		162	246	289	218	169	1.00
1,2,3,4,7,8,9-HpCDF		11.9	14.9	13.5	17.7	10.8	0.7 U
1,2,3,4,6,7,8,9-OCDF		623	801	1690 J	1220 J	1950 J	1.0 U
Total TCDD		150	153	125	193	236	3.6
Total PeCDD		39.9	7.8	19.6	27.8	22.3	4.7
Total HxCDD		258	167	142	243	158	30.1
Total HpCDD		1880	1030	1000	1700	937	86.6
Total TCDF		120	194	110	134	195	3.4
Total PeCDF		125	224	110	146	177	0.67
Total HxCDF		270	349	263	341	292	0.62
Total HpCDF		514	600	757	701	501	1.0
Total TEQ		172	175	148 J	228 J	254 J	2.10

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-detect, J = estimated, R = rejected For RCL DIOX UJ = estimated quantitation limit

TABLE 6

OFF-BASE DELINEATION
DIOXIN/FURAN RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/24/98

CONSTITUENT (Units in ng/kg)	SITE	WL010	WL010	WL011	WL012	WL013	WL014
	SAMPLE ID	WL010D1P1	WL010D1D1	WL011D2P1	WL012D2P1	WL013D2P1	WL014D2P1
	DATE / TIME	05/17/97 / 11:05	05/17/97 / 11:05	10/12/97 / 12:50	10/12/97 / 13:10	10/12/97 / 13:13	10/12/97 / 13:25
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Duplicate 1	Primary	Primary	Primary	Primary
2,3,7,8-TCDD		8.4	12.4	0.5 U	40	88.8	65.4
1,2,3,7,8-PeCDD		1.0 U	0.3 U	0.7 U	2.5	3.6	3.3
1,2,3,4,7,8-HxCDD		1.1	1.1	0.7 U	3.3	6	5.9
1,2,3,6,7,8-HxCDD		3.3	3.1	0.6 U	8.1	15	14.6
1,2,3,7,8,9-HxCDD		3.5	2.1	1.4 J	9 J	15.6 J	15.2 J
1,2,3,4,6,7,8-HpCDD		72.2	79.5	9.6	208	374	385
1,2,3,4,6,7,8,9-OCDD		581	751 J	147	1820 J	3080 J	3390
2,3,7,8-TCDF		3.3	4.9	0.4 U	4.9	9.4	7
1,2,3,7,8-PeCDF		0.7 U	0.2 U	0.5 U	1	1.2	0.9
2,3,4,7,8-PeCDF		0.7 U	0.2 U	0.5 U	1.1	1.8	2
1,2,3,4,7,8-HxCDF		1.7	2.3	0.5 U	3.5 J	5.3 J	4 J
1,2,3,6,7,8-HxCDF		0.6 U	0.97	0.4 U	2.2	4.1	3.1
2,3,4,6,7,8-HxCDF		1.8 U	1.4 U	0.5 U	2.9 J	5 J	3.5 J
1,2,3,7,8,9-HxCDF		0.8 U	0.3 U	0.6 U	0.7 U	0.5 U	0.8 U
1,2,3,4,6,7,8-HpCDF		14.1	12.9	1.6	67.5	115	105
1,2,3,4,7,8,9-HpCDF		1.0 U	0.6 U	0.7 U	3.9	6.4	6.2
1,2,3,4,6,7,8,9-OCDF		57.6	64.6 J	5.2	132 J	231 J	253
Total TCDD		8.4	14.5	0.5 U	47.8	103	77.1
Total PeCDD		1.6	2.2	0.7 U	7.6	17.7	17.8
Total HxCDD		20.9	20.8	4.2	75.6	132	131
Total HpCDD		146	154	18.8	420	746	782
Total TCDF		5.6	14.7	0.4 U	29.9	57	42
Total PeCDF		11.0	11.2	0.5 U	40.6	87	66.5
Total HxCDF		23.7	24.5	1.6	72.2	125	111
Total HpCDF		46.0	51.8	3.1	194	323	313
Total TEQ		11.2	15.6 J	0.404 J	50.0 J	106 J	82.0 J

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TABLE 6

OFF-BASE DELINEATION
DIOXIN/FURAN RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/24/98

CONSTITUENT (Units in ng/kg)	SITE	WL015	WL015	WL016	WL017	WL018	WL019
	SAMPLE ID	WL015D2P1	WL015D2D1	WL016D2P1	WL017D2P1	WL018D2P1	WL019D2P1
	DATE / TIME	10/12/97 / 13:30	10/12/97 / 13:30	10/12/97 / 14:03	10/12/97 / 14:10	10/12/97 / 14:18	10/12/97 / 14:30
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Duplicate 1	Primary	Primary	Primary	Primary
2,3,7,8-TCDD		55.1	51.9	41	71.8	75.3	30.1
1,2,3,7,8-PeCDD		2.8	2.5	2.6	3.9	4.3	1.5
1,2,3,4,7,8-HxCDD		4.8	4.6	4.7	7.8	7.7	2.4
1,2,3,6,7,8-HxCDD		11.8	11.9	10.7	17.6	17.9	5.6
1,2,3,7,8,9-HxCDD		13.2 J	13.2 J	11.2 J	18.8 J	20.9 J	7.3 J
1,2,3,4,6,7,8-HpCDD		315	302	285	477	480	150
1,2,3,4,6,7,8,9-OCDD		2700 J	2560	2440 J	3950 J	1990 J	1350
2,3,7,8-TCDF		7.2	6.9	8	10.2	9.7	3.3
1,2,3,7,8-PeCDF		0.99	1	1.4	1.5	1.3	0.63
2,3,4,7,8-PeCDF		1.8	1.3	1	1.8	1.6	0.8
1,2,3,4,7,8-HxCDF		6.7 J	5.3 J	3.9 J	6.8 J	7.5 J	1.9 J
1,2,3,6,7,8-HxCDF		3.4	3.4	3.2	5	4.5	1.5
2,3,4,6,7,8-HxCDF		4 J	4 J	3.9 J	5.5 J	5.2 J	2.5 J
1,2,3,7,8,9-HxCDF		1 U	0.2 U	0.6 U	0.6 U	0.47	0.3 U
1,2,3,4,6,7,8-HpCDF		99.5	89.1	79.6	142	133	45.4
1,2,3,4,7,8,9-HpCDF		5.7	4.8	4.4	7.8	8	2.4
1,2,3,4,6,7,8,9-OCDF		195 J	207	166 J	299 J	284 J	89.8
Total TCDD		66.6	64.3	48.9	77.9	81.7	42.2
Total PeCDD		12.4	13.5	10.6	15.5	17.8	10.1
Total HxCDD		112	109	94.3	158	162	59
Total HpCDD		637	605	570	948	939	312
Total TCDF		36.8	37.6	30.1	48.4	48.7	22.4
Total PeCDF		63	55.8	49.8	67.1	74.9	31
Total HxCDF		110	96.9	90.4	147	138	47
Total HpCDF		283	256	232	391	390	123
Total TEQ		69.7 J	65.5 J	53.7 J	92.4 J	94.2 J	37.1 J

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TABLE 6

OFF-BASE DELINEATION
DIOXIN/FURAN RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/24/98

CONSTITUENT (Units in ng/kg)	SITE	WL020	WL021	WM001	WM002	WM003	WM004
	SAMPLE ID	WL020D2P1	WL021D2P1	WM001D1P2	WM002D1P2	WM003D1P2	WM004D1P2
	DATE / TIME	10/12/97 / 15:20	10/12/97 / 15:33	04/23/97 / 15:31	04/24/97 / 11:01	04/23/97 / 14:31	04/24/97 / 14:31
	DEPTH (ft)	0.00	0.00	0.50	0.50	0.50	0.50
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
2,3,7,8-TCDD		379	174	5.3	6.4	0.6 U	0.8 U
1,2,3,7,8-PeCDD		8.3	7.1	0.7 U	1.9	0.5 U	0.8 U
1,2,3,4,7,8-HxCDD		11.1	11.1	1.2 U	2.8	0.8 U	1.0 U
1,2,3,6,7,8-HxCDD		25.8	25	7.0	7.6	0.7 U	0.9 U
1,2,3,7,8,9-HxCDD		25.1 J	26.9 J	6.3	7.2	3.3	0.9 U
1,2,3,4,6,7,8-HpCDD		598	623	201	212	29.4	13.0
1,2,3,4,6,7,8,9-OCDD		4770	4710	1740	1840	439	122
2,3,7,8-TCDF		107	39	1.0 U	1.9	0.6 U	0.8 U
1,2,3,7,8-PeCDF		3.4	1.9	0.6 U	0.70	0.4 U	0.7 U
2,3,4,7,8-PeCDF		3.8	2.3	0.6 U	0.85	0.4 U	0.7 U
1,2,3,4,7,8-HxCDF		14.8 J	11.1 J	7.0	5.3	0.7 U	0.9 U
1,2,3,6,7,8-HxCDF		10.4	6.5	2.1	2.5	0.6 U	0.7 U
2,3,4,6,7,8-HxCDF		6.5 J	5.4 J	3.6	2.2	0.7 U	0.9 U
1,2,3,7,8,9-HxCDF		0.89	0.6	1.0 U	0.7 U	0.8 U	1.0 U
1,2,3,4,6,7,8-HpCDF		181	170	44.7	42.3	2.4	3.1
1,2,3,4,7,8,9-HpCDF		11.7	10.6	3.5	3.6	0.9 U	1.0 U
1,2,3,4,6,7,8,9-OCDF		436	399	164	156	4.0	7.1
Total TCDD		414	192	5.3	8.0	4.3	0.8 U
Total PeCDD		46.6	33.2	0.7 U	6.9	10.6	0.8 U
Total HxCDD		225	209	44.1	63.7	88.8	3.5
Total HpCDD		1210	1200	478	445	128	29.1
Total TCDF		286	104	4.3	3.6	0.6 U	0.8 U
Total PeCDF		236	173	13.8	17.1	0.4 U	0.7 U
Total HxCDF		241	197	56.8	60.7	1.6	2.1
Total HpCDF		540	500	164	133	5.7	8.7
Total TEQ		418 J	204 J	12.3	15.3	1.09	0.290

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TABLE 6

OFF-BASE DELINEATION
DIOXIN/FURAN RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/24/98

CONSTITUENT (Units in ng/kg)	SITE	WM005	WM005
	SAMPLE ID	WM005D1P2	WM005D1D2
	DATE / TIME	04/24/97 / 15:16	04/24/97 / 15:16
	DEPTH (ft)	0.50	0.50
	RESULT TYPE	Primary	Duplicate 1
2,3,7,8-TCDD		2.2 U	0.4 U
1,2,3,7,8-PeCDD		2.1 U	0.4 U
1,2,3,4,7,8-HxCDD		2.5 U	0.5 U
1,2,3,6,7,8-HxCDD		2.3 U	0.5 U
1,2,3,7,8,9-HxCDD		4.5	3.9
1,2,3,4,6,7,8-HpCDD		49.0	34.2
1,2,3,4,6,7,8,9-OCDD		926 J	603 J
2,3,7,8-TCDF		2.0 U	0.4 U
1,2,3,7,8-PeCDF		1.7 U	0.3 U
2,3,4,7,8-PeCDF		1.7 U	0.3 U
1,2,3,4,7,8-HxCDF		2.0 U	0.5 U
1,2,3,6,7,8-HxCDF		1.6 U	0.4 U
2,3,4,6,7,8-HxCDF		2.0 U	0.5 U
1,2,3,7,8,9-HxCDF		2.2 U	0.5 U
1,2,3,4,6,7,8-HpCDF		2.3	1.7
1,2,3,4,7,8,9-HpCDF		2.3 U	0.5 U
1,2,3,4,6,7,8,9-OCDF		6.0 J	3.3 J
Total TCDD		4.9	3.0
Total PeCDD		2.1 U	1.1
Total HxCDD		8.0	19.7
Total HpCDD		101	70.0
Total TCDF		2.0 U	0.4 U
Total PeCDF		1.7 U	0.3 U
Total HxCDF		1.9 U	1.4
Total HpCDF		5.2	4.1
Total TEQ		1.90 J	1.36 J

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TABLE 7

OFF-BASE DELINEATION
VOC RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/24/98

CONSTITUENT (Units in ug/kg)	SITE	BB003	BC003	C1001	C1001	TC002	TC006
	SAMPLE ID	BB003D1P1	BC003D1P1	C1001D1P1	C1001D1D1	TC002D1P1	TC006D1P1
	DATE / TIME	05/16/97 / 14:05	05/19/97 / 12:00	04/23/97 / 09:00	04/23/97 / 09:00	04/25/97 / 15:30	05/14/97 / 14:30
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
Chloromethane		25 U	20 U	16 U	14 U	18 U	12 U
Bromomethane		25 U	20 U	16 U	14 U	18 U	12 U
Vinyl chloride		25 U	20 U	16 U	14 U	18 U	12 U
Chloroethane		25 U	20 U	16 U	14 U	18 U	12 U
Methylene chloride		25 U	20 U	16 U	14 U	18 U	12 U
Acetone		150	11 J	45 J	130 J	49 J	3.5 J
Carbon disulfide		25 U	20 U	16 U	14 U	18 U	12 U
1,1-Dichloroethene		25 U	20 U	16 U	14 U	18 U	12 U
1,1-Dichloroethane		25 U	20 U	16 U	14 U	18 U	12 U
1,2-Dichloroethene (total)		25 U	20 U	16 U	14 U	18 U	12 U
Chloroform		25 U	20 U	16 U	14 U	18 U	12 U
1,2-Dichloroethane		25 U	20 U	16 U	14 U	18 U	12 U
2-Butanone		34	20 U	9 J	14 J	18 U	12 U
1,1,1-Trichloroethane		25 U	20 U	16 U	14 U	18 U	12 U
Carbon tetrachloride		25 U	20 U	16 U	14 U	18 U	12 U
Bromodichloromethane		25 U	20 U	16 U	14 U	18 U	12 U
1,2-Dichloropropane		25 U	20 U	16 U	14 U	18 U	12 U
cis-1,3-Dichloropropene		25 U	20 U	16 U	14 U	18 U	12 U
Trichloroethene		25 U	20 U	16 U	14 U	18 U	12 U
Dibromochloromethane		25 U	20 U	16 U	14 U	18 U	12 U
1,1,2-Trichloroethane		25 U	20 U	16 U	14 U	18 U	12 U
Benzene		25 U	20 U	16 U	14 U	18 U	12 U
trans-1,3-Dichloropropene		25 U	20 U	16 U	14 U	18 U	12 U
Bromoform		25 U	20 U	16 U	14 U	18 U	12 U
4-Methyl-2-pentanone		25 U	20 U	16 U	14 U	18 U	12 U
2-Hexanone		25 U	20 U	16 U	14 U	18 U	12 U

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U = non-det[illegible] = estimated, For RCL VOA [illegible] = estimated quantitation limit [illegible]

TABLE 7

OFF-BASE DELINEATION
VOC RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/24/98

CONSTITUENT (Units in ug/kg)	SITE	BB003	BC003	C1001	C1001	TC002	TC006
	SAMPLE ID	BB003D1P1	BC003D1P1	C1001D1P1	C1001D1D1	TC002D1P1	TC006D1P1
	DATE / TIME	05/16/97 / 14:05	05/19/97 / 12:00	04/23/97 / 09:00	04/23/97 / 09:00	04/25/97 / 15:30	05/14/97 / 14:30
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
Tetrachloroethene		25 U	20 U	16 U	14 U	18 U	12 U
1,1,2,2-Tetrachloroethane		25 U	20 U	16 U	14 U	18 U	12 U
Toluene		25 U	20 U	16 U	14 U	18 U	12 U
Chlorobenzene		25 U	20 U	16 U	14 U	18 U	12 U
Ethylbenzene		25 U	20 U	16 U	14 U	18 U	12 U
Styrene		25 U	20 U	16 U	14 U	18 U	12 U
Xylenes (total)		25 U	20 U	16 U	14 U	18 U	12 U

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TABLE 7

OFF-BASE DELINEATION
VOC RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/24/98

CONSTITUENT (Units in ug/kg)	SITE	TC006	WL001	WM002
	SAMPLE ID	TC006D1D1	WL001D1P1	WM002D1P1
	DATE / TIME	05/14/97 / 14:30	05/16/97 / 14:00	04/24/97 / 11:00
	DEPTH (ft)	0.00	0.00	0.00
	RESULT TYPE	Duplicate 1	Primary	Primary
Chloromethane		12 U	13 U	19 U
Bromomethane		12 U	13 U	19 U
Vinyl chloride		12 U	13 U	19 U
Chloroethane		12 U	13 U	19 U
Methylene chloride		12 U	13 U	19 U
Acetone		3.4 J	13 U	290
Carbon disulfide		12 U	13 U	19 U
1,1-Dichloroethene		12 U	13 U	19 U
1,1-Dichloroethane		12 U	13 U	19 U
1,2-Dichloroethene (total)		12 U	13 U	19 U
Chloroform		12 U	13 U	19 U
1,2-Dichloroethane		12 U	13 U	19 U
2-Butanone		12 U	13 U	18 J
1,1,1-Trichloroethane		12 U	13 U	19 U
Carbon tetrachloride		12 U	13 U	19 U
Bromodichloromethane		12 U	13 U	19 U
1,2-Dichloropropane		12 U	13 U	19 U
cis-1,3-Dichloropropene		12 U	13 U	19 U
Trichloroethene		12 U	13 U	19 U
Dibromochloromethane		12 U	13 U	19 U
1,1,2-Trichloroethane		12 U	13 U	19 U
Benzene		12 U	13 U	19 U
trans-1,3-Dichloropropene		12 U	13 U	19 U
Bromoform		12 U	13 U	19 U
4-Methyl-2-pentanone		12 U	13 U	19 U
2-Hexanone		12 U	13 U	19 U

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TABLE 7

OFF-BASE DELINEATION
VOC RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/24/98

CONSTITUENT (Units in ug/kg)	SITE	TC006	WL001	WM002
	SAMPLE ID	TC006D1D1	WL001D1P1	WM002D1P1
	DATE / TIME	05/14/97 / 14:30	05/16/97 / 14:00	04/24/97 / 11:00
	DEPTH (ft)	0.00	0.00	0.00
	RESULT TYPE	Duplicate 1	Primary	Primary
Tetrachloroethene		12 U	13 U	19 U
1,1,2,2-Tetrachloroethane		12 U	13 U	19 U
Toluene		12 U	13 U	19 U
Chlorobenzene		12 U	13 U	19 U
Ethylbenzene		12 U	13 U	19 U
Styrene		12 U	13 U	19 U
Xylenes (total)		12 U	13 U	19 U

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TABLE 8

OFF-BASE DELINEATION
SVOC RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/24/98

CONSTITUENT (Units in ug/kg)	SITE	BB003	BC003	C1001	C1001	TC002	TC006
	SAMPLE ID	BB003D1P1	BC003D1P1	C1001D1P1	C1001D1D1	TC002D1P1	TC006D1P1
	DATE / TIME	05/16/97 / 14:05	05/19/97 / 12:00	04/23/97 / 09:00	04/23/97 / 09:00	04/25/97 / 15:30	05/14/97 / 14:30
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
Phenol		1600 U	670 U	520 U	920 U	600 U	410 U
bis(2-chloroethyl)ether		1600 U	670 U	520 U	920 U	600 U	410 U
2-Chlorophenol		1600 U	670 U	520 U	920 U	600 U	410 U
1,3-Dichlorobenzene		1600 U	670 U	520 U	920 U	600 U	410 U
1,4-Dichlorobenzene		1600 U	670 U	520 U	920 U	600 U	410 U
1,2-Dichlorobenzene		1600 U	670 U	520 U	920 U	600 U	410 U
2-Methylphenol		1600 U	670 U	520 U	920 U	600 U	410 U
2,2'-oxybis(1-Chloropropane)		1600 U	670 U	520 U	920 U	600 U	410 U
N-Nitrosodinpropylamine		1600 U	670 U	520 U	920 U	600 U	410 U
4-Methylphenol		1600 U	670 U	520 U	920 U	600 U	410 U
Hexachloroethane		1600 U	670 U	520 U	920 U	600 U	410 U
Nitrobenzene		1600 U	670 U	520 U	920 U	600 U	410 U
Isophorone		1600 U	670 U	520 U	920 U	600 U	410 U
2-Nitrophenol		1600 U	670 U	520 U	920 U	600 U	410 U
2,4-Dimethylphenol		1600 U	670 U	520 U	920 U	600 U	410 U
bis(2-chloroethoxy)methane		1600 U	670 U	520 U	920 U	600 U	410 U
2,4-Dichlorophenol		1600 U	670 U	520 U	920 U	600 U	410 U
1,2,4-Trichlorobenzene		1600 U	670 U	520 U	920 U	600 U	410 U
Naphthalene		1400 J	670 U	520 U	720 J	600 U	410 U
4-Chloroaniline		1600 U	670 U	520 U	920 U	600 U	410 U
Hexachlorobutadiene		1600 U	670 U	520 U	920 U	600 U	410 U
4-Chloro-3-Methylphenol		1600 U	670 U	520 U	920 U	600 U	410 U
2-Methylnaphthalene		1100 J	670 U	520 U	400 J	600 U	410 U
Hexachlorocyclopentadiene		1600 U	670 U	520 U	920 U	600 U	410 U
2,4,6-Trichlorophenol		1600 U	670 U	520 U	920 U	600 U	410 U
2,4,5-Trichlorophenol		4000 U	1600 U	1200 U	2200 U	1400 U	990 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-de[illegible] J = estimated, For RCL SVOA [illegible] = estimated quantitation limit [illegible]

TABLE 8

OFF-BASE DELINEATION
SVOC RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/24/98

CONSTITUENT (Units in ug/kg)	SITE	BB003	BC003	C1001	C1001	TC002	TC006
	SAMPLE ID	BB003D1P1	BC003D1P1	C1001D1P1	C1001D1D1	TC002D1P1	TC006D1P1
	DATE / TIME	05/16/97 / 14:05	05/19/97 / 12:00	04/23/97 / 09:00	04/23/97 / 09:00	04/25/97 / 15:30	05/14/97 / 14:30
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
2-Chloronaphthalene		1600 U	670 U	520 U	920 U	600 U	410 U
2-Nitroaniline		4000 U	1600 U	1200 U	2200 U	1400 U	990 U
Dimethylphthalate		1600 U	670 U	520 U	920 U	600 U	410 U
Acenaphthylene		1600 U	670 U	520 U	460 J	600 U	410 U
2,6-Dinitrotoluene		1600 U	670 U	520 U	920 U	600 U	410 U
3-Nitroaniline		4000 U	1600 U	1200 U	2200 U	1400 U	990 U
Acenaphthene		1900	670 U	520 U	290 J	600 U	410 U
2,4-Dinitrophenol		4000 U	1600 U	1200 U	2200 U	1400 U	990 U
4-Nitrophenol		4000 U	1600 U	1200 U	2200 U	1400 U	990 U
Dibenzofuran		2000	670 U	520 U	640 J	600 U	410 U
2,4-Dinitrotoluene		1600 U	670 U	520 U	920 U	600 U	410 U
Diethylphthalate		1600 U	670 U	520 U	920 U	600 U	410 U
4-Chlorophenyl-phenylether		1600 U	670 U	520 U	920 U	600 U	410 U
Fluorene		2500	670 U	520 U	700 J	600 U	410 U
4-Nitroaniline		4000 U	1600 U	1200 U	2200 U	1400 U	990 U
4,6-Dinitro-2-methylphenol		4000 U	1600 U	1200 U	2200 U	1400 U	990 U
N-Nitrosodiphenylamine (1)		1600 U	670 U	520 U	920 U	600 U	410 U
4-Bromophenyl-phenylether		1600 U	670 U	520 U	920 U	600 U	410 U
Hexachlorobenzene		1600 U	670 U	520 U	920 U	600 U	410 U
Pentachlorophenol		4000 U	1600 U	1200 U	2200 U	1400 U	990 U
Phenanthrene		8500	71 J	300 J	5700	600 U	410 U
Anthracene		910 J	670 U	57 J	780 J	600 U	410 U
Carbazole		1600 U	670 U	520 U	680 J	600 U	410 U
Di-n-Butylphthalate		1600 U	670 U	520 U	920 U	600 U	410 U
Fluoranthene		3200	190 J	760 J	6000 J	600 U	410 U
Pyrene		2000	170 J	600 J	3700 J	600 U	410 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-detect, J = estimated, For RCL SVOA UJ = estimated quantitation limit

TABLE 8

OFF-BASE DELINEATION
SVOC RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/24/98

CONSTITUENT (Units in ug/kg)	SITE	BB003	BC003	C1001	C1001	TC002	TC006
	SAMPLE ID	BB003D1P1	BC003D1P1	C1001D1P1	C1001D1D1	TC002D1P1	TC006D1P1
	DATE / TIME	05/16/97 / 14:05	05/19/97 / 12:00	04/23/97 / 09:00	04/23/97 / 09:00	04/25/97 / 15:30	05/14/97 / 14:30
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
Butylbenzylphthalate		1600 U	670 U	520 U	920 U	600 U	410 U
3,3'-Dichlorobenzidine		1600 U	670 U	520 U	920 U	600 U	410 U
Benzo(a)Anthracene		530 J	86 J	340 J	1700	600 U	410 U
Chrysene		460 J	120 J	380 J	2300	600 U	410 U
bis(2-ethylhexyl)Phthalate		430 J	340 J	57 J	920 U	600 U	410 U
Di-n-octylphthalate		1600 U	670 U	520 U	920 U	600 U	410 U
Benzo(b)fluoranthene		290 J	210 J	520 J	2700 J	600 U	410 U
Benzo(k)fluoranthene		1600 U	75 J	190 J	1200	600 U	410 U
Benzo(a)pyrene		170 J	90 J	250 J	1900	600 U	410 U
Indeno(1,2,3-cd)pyrene		1600 U	70 J	130 J	750 J	600 U	410 U
Dibenzo(a,h)anthracene		1600 U	670 U	520 U	190 J	600 U	410 U
Benzo(g,h,i)perylene		1600 U	670 U	100 J	610 J	600 U	410 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-det[illegible] = estimated, For RCL SVOA [illegible] = estimated quantitation limit [illegible]

TABLE 8

OFF-BASE DELINEATION
SVOC RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/24/98

CONSTITUENT (Units in ug/kg)	SITE	TC006	WL001	WM002
	SAMPLE ID	TC006D1D1	WL001D1P1	WM002D1P1
	DATE / TIME	05/14/97 / 14:30	05/16/97 / 14:00	04/24/97 / 11:00
	DEPTH (ft)	0.00	0.00	0.00
	RESULT TYPE	Duplicate 1	Primary	Primary
Phenol		410 U	420 U	620 U
bis(2-chloroethyl)ether		410 U	420 U	620 U
2-Chlorophenol		410 U	420 U	620 U
1,3-Dichlorobenzene		410 U	420 U	620 U
1,4-Dichlorobenzene		410 U	420 U	620 U
1,2-Dichlorobenzene		410 U	420 U	620 U
2-Methylphenol		410 U	420 U	620 U
2,2'-oxybis(1-Chloropropane)		410 U	420 U	620 U
N-Nitrosodinpropylamine		410 U	420 U	620 U
4-Methylphenol		410 U	420 U	620 U
Hexachloroethane		410 U	420 U	620 U
Nitrobenzene		410 U	420 U	620 U
Isophorone		410 U	420 U	620 U
2-Nitrophenol		410 U	420 U	620 U
2,4-Dimethylphenol		410 U	420 U	620 U
bis(2-chloroethoxy)methane		410 U	420 U	620 U
2,4-Dichlorophenol		410 U	420 U	620 U
1,2,4-Trichlorobenzene		410 U	420 U	620 U
Naphthalene		410 U	420 U	620 U
4-Chloroaniline		410 U	420 U	620 U
Hexachlorobutadiene		410 U	420 U	620 U
4-Chloro-3-Methylphenol		410 U	420 U	620 U
2-Methylnaphthalene		410 U	420 U	620 U
Hexachlorocyclopentadiene		410 U	420 U	620 U
2,4,6-Trichlorophenol		410 U	420 U	620 U
2,4,5-Trichlorophenol		1000 U	1000 U	1500 U

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TABLE 8

OFF-BASE DELINEATION
SVOC RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/24/98

CONSTITUENT (Units in ug/kg)	SITE	TC006	WL001	WM002
	SAMPLE ID	TC006D1D1	WL001D1P1	WM002D1P1
	DATE / TIME	05/14/97 / 14:30	05/16/97 / 14:00	04/24/97 / 11:00
	DEPTH (ft)	0.00	0.00	0.00
	RESULT TYPE	Duplicate 1	Primary	Primary
2-Chloronaphthalene		410 U	420 U	620 U
2-Nitroaniline		1000 U	1000 U	1500 U
Dimethylphthalate		410 U	420 U	620 U
Acenaphthylene		410 U	420 U	620 U
2,6-Dinitrotoluene		410 U	420 U	620 U
3-Nitroaniline		1000 U	1000 U	1500 U
Acenaphthene		410 U	420 U	620 U
2,4-Dinitrophenol		1000 U	1000 U	1500 U
4-Nitrophenol		1000 U	1000 U	1500 U
Dibenzofuran		410 U	420 U	620 U
2,4-Dinitrotoluene		410 U	420 U	620 U
Diethylphthalate		410 U	420 U	620 U
4-Chlorophenyl-phenylether		410 U	420 U	620 U
Fluorene		410 U	420 U	620 U
4-Nitroaniline		1000 U	1000 U	1500 U
4,6-Dinitro-2-methylphenol		1000 U	1000 U	1500 U
N-Nitrosodiphenylamine (1)		410 U	420 U	620 U
4-Bromophenyl-phenylether		410 U	420 U	620 U
Hexachlorobenzene		410 U	420 U	620 U
Pentachlorophenol		1000 U	1000 U	1500 U
Phenanthrene		410 U	420 U	270 J
Anthracene		410 U	420 U	620 U
Carbazole		410 U	420 U	620 U
Di-n-Butylphthalate		410 U	420 U	620 U
Fluoranthene		410 U	420 U	300 J
Pyrene		410 U	420 U	200 J

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U = non-det[illegible] = estimated, For RCL SVOA [illegible] = estimated quantitation limit [illegible]

TABLE 8

OFF-BASE DELINEATION
SVOC RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/24/98

CONSTITUENT (Units in ug/kg)	SITE	TC006	WL001	WM002
	SAMPLE ID	TC006D1D1	WL001D1P1	WM002D1P1
	DATE / TIME	05/14/97 / 14:30	05/16/97 / 14:00	04/24/97 / 11:00
	DEPTH (ft)	0.00	0.00	0.00
	RESULT TYPE	Duplicate 1	Primary	Primary
Butylbenzylphthalate		410 U	420 U	620 U
3,3'-Dichlorobenzidine		410 U	420 U	620 U
Benzo(a)Anthracene		410 U	420 U	130 J
Chrysene		410 U	420 U	150 J
bis(2-ethylhexyl)Phthalate		410 U	420 U	620 U
Di-n-octylphthalate		410 U	420 U	620 U
Benzo(b)fluoranthene		410 U	420 U	620 U
Benzo(k)fluoranthene		410 U	420 U	620 U
Benzo(a)pyrene		410 U	420 U	100 J
Indeno(1,2,3-cd)pyrene		410 U	420 U	620 U
Dibenzo(a,h)anthracene		410 U	420 U	620 U
Benzo(g,h,i)perylene		410 U	420 U	620 U

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U = non-detect, J = estimated, For RCL SVOA UJ = estimated quantitation limit

TABLE 9

OFF-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/24/98

CONSTITUENT (Units in ug/kg)	SITE	BB003	BC003	C1001	C1001	TC002	TC006
	SAMPLE ID	BB003D1P1	BC003D1P1	C1001D1P1	C1001D1D1	TC002D1P1	TC006D1P1
	DATE / TIME	05/16/97 / 14:05	05/19/97 / 12:00	04/23/97 / 09:00	04/23/97 / 09:00	04/25/97 / 15:30	05/14/97 / 14:30
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
alpha-BHC		4.2 U	3.3 U	2.6 U	2.3 UJ	3 U	2 U
beta-BHC		4.2 U	3.3 U	2.6 U	2.3 UJ	3 U	2 U
delta-BHC		4.2 U	3.3 U	2.6 U	2.3 UJ	3 U	2 U
gamma-BHC(Lindane)		4.2 U	3.3 U	2.6 U	2.3 UJ	3 U	2 U
Heptachlor		4.2 U	3.3 U	2.6 U	2.3 UJ	3 U	2 U
Aldrin		4.2 U	3.3 U	2.6 U	2.3 UJ	3 U	2 U
Heptachlor epoxide		4.2 U	3.3 U	2.6 U	2.3 UJ	3 U	2 U
Endosulfan I		4.2 U	3.3 U	2.6 U	2.3 UJ	3 U	2 U
Dieldrin		0.73 J	0.96 NJ	0.49 J	4.6 UJ	6 U	4.1 U
4,4'-DDE		8.3 U	1.5 J	0.6 J	4.6 UJ	6 U	4.1 U
Endrin		8.3 U	6.7 U	5.2 U	4.6 UJ	6 U	4.1 U
Endosulfan II		8.3 U	6.7 U	5.2 U	4.6 UJ	6 U	4.1 U
4,4'-DDD		8.3 U	5.3 J	0.88 J	4.6 UJ	6 U	4.1 U
Endosulfan sulfate		8.3 U	6.7 U	5.2 U	4.6 UJ	6 U	4.1 U
4,4'-DDT		8.3 U	6.7 U	5.2 U	4.6 UJ	6 U	4.1 U
Methoxychlor		42 UJ	33 UJ	26 U	23 UJ	30 U	20 UJ
Endrin ketone		8.3 U	6.7 U	5.2 U	0.8 NJ	6 U	4.1 U
Endrin aldehyde		8.3 U	6.7 U	5.2 U	4.6 UJ	6 U	4.1 U
alpha-Chlordane		0.2 NJ	2.9 J	2.6 U	2.3 UJ	3 U	2 U
gamma-Chlordane		4.2 U	3.6 J	0.21 J	0.34 NJ	3 U	2 U
Toxaphene		420 U	330 U	260 U	230 UJ	300 U	200 U
Aroclor-1016		83 U	67 U	52 U	46 UJ	60 U	41 U
Aroclor-1221		170 U	130 U	100 U	92 UJ	120 U	82 U
Aroclor-1232		83 U	67 U	52 U	46 UJ	60 U	41 U
Aroclor-1242		83 U	67 U	52 U	46 UJ	60 U	41 U
Aroclor-1248		83 U	67 U	52 U	46 UJ	60 U	41 U

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U = non-det[illegible] = estimated, NJ = presumptive evidence For RCL [illegible] = estimated quantitation limit [illegible]

TABLE 9

OFF-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/24/98

CONSTITUENT (Units in ug/kg)	SITE	BB003	BC003	C1001	C1001	TC002	TC006
	SAMPLE ID	BB003D1P1	BC003D1P1	C1001D1P1	C1001D1D1	TC002D1P1	TC006D1P1
	DATE / TIME	05/16/97 / 14:05	05/19/97 / 12:00	04/23/97 / 09:00	04/23/97 / 09:00	04/25/97 / 15:30	05/14/97 / 14:30
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
Aroclor-1254		83 U	67 U	52 U	46 UJ	60 U	41 U
Aroclor-1260		83 U	67 U	52 U	46 UJ	60 U	41 U

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U = non-detect, J = estimated, NJ = presumptive evidence For RCL UJ = estimated quantitation limit

TABLE 9

OFF-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/24/98

CONSTITUENT (Units in ug/kg)	SITE	TC006	WL001	WM002
	SAMPLE ID	TC006D1D1	WL001D1P1	WM002D1P1
	DATE / TIME	05/14/97 / 14:30	05/16/97 / 14:00	04/24/97 / 11:00
	DEPTH (ft)	0.00	0.00	0.00
	RESULT TYPE	Duplicate 1	Primary	Primary
alpha-BHC		2.1 U	2.1 U	3.1 U
beta-BHC		2.1 U	2.1 U	3.1 U
delta-BHC		2.1 U	2.1 U	3.1 U
gamma-BHC(Lindane)		2.1 U	2.1 U	3.1 U
Heptachlor		2.1 U	2.1 U	3.1 U
Aldrin		2.1 U	2.1 U	3.1 U
Heptachlor epoxide		2.1 U	2.1 U	3.1 U
Endosulfan I		2.1 U	2.1 U	3.1 U
Dieldrin		4.2 U	0.3 NJ	6.3 U
4,4'-DDE		4.2 U	1.4 J	1.1 J
Endrin		4.2 U	4.2 U	6.3 U
Endosulfan II		4.2 U	4.2 U	6.3 U
4,4'-DDD		4.2 U	5.2	2.3 J
Endosulfan sulfate		4.2 U	0.78 J	6.3 U
4,4'-DDT		4.2 U	4.2 U	6.3 U
Methoxychlor		21 UJ	21 UJ	31 U
Endrin ketone		4.2 U	4.2 U	6.3 U
Endrin aldehyde		4.2 U	4.2 U	6.3 U
alpha-Chlordane		2.1 U	3.5	1.4 J
gamma-Chlordane		2.1 U	3 J	1.3 J
Toxaphene		210 U	210 U	310 U
Aroclor-1016		42 U	42 U	63 U
Aroclor-1221		84 U	84 U	120 U
Aroclor-1232		42 U	42 U	63 U
Aroclor-1242		42 U	42 U	63 U
Aroclor-1248		42 U	42 U	63 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-det[illegible] = estimated, NJ = presumptive evidence For RCL [illegible] = estimated quantitation limit

TABLE 9

OFF-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/24/98

CONSTITUENT (Units in ug/kg)	SITE	TC006	WL001	WM002
	SAMPLE ID	TC006D1D1	WL001D1P1	WM002D1P1
	DATE / TIME	05/14/97 / 14:30	05/16/97 / 14:00	04/24/97 / 11:00
	DEPTH (ft)	0.00	0.00	0.00
	RESULT TYPE	Duplicate 1	Primary	Primary
Aroclor-1254		42 U	42 U	63 U
Aroclor-1260		42 U	42 U	63 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-detect, J = estimated, NJ = presumptive evidence For RCL UJ = estimated quantitation limit

TABLE 10

OFF-BASE DELINEATION
HERBICIDE RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/24/98

CONSTITUENT (Units in ug/kg)	SITE	BB003	BC003	C1001	C1001	TC002	TC006
	SAMPLE ID	BB003D1P1	BC003D1P1	C1001D1P1	C1001D1D1	TC002D1P1	TC006D1P1
	DATE / TIME	05/16/97 / 14:05	05/19/97 / 12:00	04/23/97 / 09:00	04/23/97 / 09:00	04/25/97 / 15:30	05/14/97 / 14:30
	DEPTH (ft)	0.00	0.00	0.00	0.00	0.00	0.00
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
2,4-D		200 U	160 U	130 U	110 U	150 U	99 U
2,4,5-TP (Silvex)		50 U	41 U	31 U	28 U	37 U	25 U
2,4,5-T		50 U	41 U	31 U	28 U	37 U	25 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-de[illegible] J = estimated, [illegible] = estimated quantitation limit For RCL HERB [illegible]

TABLE 10

OFF-BASE DELINEATION
HERBICIDE RESULTS
NCBC GULPORT
(soil/sediment)

Date: 07/24/98

CONSTITUENT (Units in ug/kg)	SITE	TC006	WL001	WM002
	SAMPLE ID	TC006D1D1	WL001D1P1	WM002D1P1
	DATE / TIME	05/14/97 / 14:30	05/16/97 / 14:00	04/24/97 / 11:00
	DEPTH (ft)	0.00	0.00	0.00
	RESULT TYPE	Duplicate 1	Primary	Primary
2,4-D		100 U	100 U	150 U
2,4,5-TP (Silvex)		25 U	25 U	38 U
2,4,5-T		25 U	25 U	38 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-detect, J = estimated, UJ = estimated quantitation limit For RCL HERB

TABLE 11

ON-BASE DELINEATION
DIOXIN/FURAN RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in pg/L)	SITE	D1001	D1003	D1003	D1005	D1008	D1010
	SAMPLE ID	D1001W1P3	D1003W1P1	D1003W1D1	D1005W1P2	D1008W1P1	D1010W1P1
	DATE	06/26/97	04/10/97	04/10/97	04/10/97	04/09/97	04/09/97
	RESULT TYPE	Primary	Primary	Duplicate 1	Primary	Primary	Primary
2,3,7,8-TCDD		6.6	3.0 U	3.8 U	26.3 U	1.8 U	1.9 U
1,2,3,7,8-PeCDD		3.1 U	4.3 U	5.7 U	16.2 U	2.8 U	2.7 U
1,2,3,4,7,8-HxCDD		4.9 U	4.6 U	5.7 U	15.9 U	3.3 U	3.3 U
1,2,3,6,7,8-HxCDD		4.1 U	3.6 U	4.5 U	12.4 U	3.0 U	3.0 U
1,2,3,7,8,9-HxCDD		4.3 U	3.9 U	5.0 U	13.6 U	2.9 U	2.9 U
1,2,3,4,6,7,8-HpCDD		6.8	5.0 U	6.7 U	14.3 U	6.8	5.3
1,2,3,4,6,7,8,9-OCDD		43.6	8.7 U	12.4 U	88.5 U	46.9	32.2
2,3,7,8-TCDF		3.2 U	2.1 U	2.9 U	17.6 U	1.6 U	1.7 U
1,2,3,7,8-PeCDF		2.4 U	2.7 U	3.6 U	13.2 U	2.0 U	1.9 U
2,3,4,7,8-PeCDF		2.6 U	2.6 U	3.6 U	13.0 U	1.9 U	1.9 U
1,2,3,4,7,8-HxCDF		3.7 U	2.6 U	3.4 U	12.1 U	2.7 U	2.4 U
1,2,3,6,7,8-HxCDF		3.0 U	2.0 U	2.6 U	9.1 U	2.1 U	1.9 U
2,3,4,6,7,8-HxCDF		4.8 U	2.6 U	4.1 R	12.1 U	3.7	3.2
1,2,3,7,8,9-HxCDF		4.5 U	2.9 U	3.8 U	13.6 U	2.9 U	2.6 U
1,2,3,4,6,7,8-HpCDF		3.7 U	3.0 U	4.1 U	12.2 U	2.4 U	2.2 U
1,2,3,4,7,8,9-HpCDF		5.2 U	4.3 U	5.8 U	16.5 U	3.8 U	3.4 U
1,2,3,4,6,7,8,9-OCDF		6.4 U	6.4 U	9.1 U	23.4	4.6 U	4.5 U
Total TCDD		6.6	3.0 U	3.8 U	26.3 U	1.8 U	1.9 U
Total PeCDD		3.1 U	4.3 U	5.7 U	16.2 U	2.8 U	2.7 U
Total HxCDD		4.4 U	4.0 U	5.0 U	13.8 U	3.1 U	3.0 U
Total HpCDD		14.4	5.0 U	6.7 U	20.7	6.8	15.1
Total TCDF		3.2 U	2.1 U	2.9 U	17.6 U	1.6 U	1.7 U
Total PeCDF		2.5 U	2.7 U	3.6 U	13.1 U	2.0 U	1.9 U
Total HxCDF		4.8	2.5 U	4.1	11.5 U	3.7	3.2
Total HpCDF		4.3 U	3.5 U	4.8 U	14.0 U	2.9 U	2.7 U
Total TEQ		6.71	0	0.410	0.023	0.485	0.405

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

U=non-det[illegible] =estimated For RCL DIOX

TABLE 11

ON-BASE DELINEATION
DIOXIN/FURAN RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in pg/L)	SITE	D1013	D2003	D2006	D2006	D3003	D3005
	SAMPLE ID	D1013W1P1	D2003W1P2	D2006W1P2	D2006W1D2	D3003W1P2	D3005W1P2
	DATE	04/09/97	04/04/97	04/04/97	04/04/97	04/07/97	04/07/97
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
2,3,7,8-TCDD		1.7 U	8.7 U	7.8	5.6 U	15.6 U	11.6 U
1,2,3,7,8-PeCDD		2.4 U	21.1	18.8	5.8 U	12.5 U	10.1 U
1,2,3,4,7,8-HxCDD		2.9 U	7.5 U	13.1	5.7 U	13.9 U	11.3 U
1,2,3,6,7,8-HxCDD		2.7 U	20.8	13.3	5.2 U	12.7 U	10.4 U
1,2,3,7,8,9-HxCDD		2.6 U	20.5	13.4	5.1 U	12.3 U	10.0 U
1,2,3,4,6,7,8-HpCDD		4.1	114	16.6	6.1 U	12.3 U	286
1,2,3,4,6,7,8,9-OCDD		25.6	700	41.2	29.5	187 J	2000 J
2,3,7,8-TCDF		1.5 U	7.2 U	8.7	4.8 U	14.5 U	11.6 U
1,2,3,7,8-PeCDF		1.7 U	23.8	16.7	4.6 U	10.1 U	7.8 U
2,3,4,7,8-PeCDF		1.7 U	22.4	13.6	4.4 U	9.8 U	7.5 U
1,2,3,4,7,8-HxCDF		2.1 U	29.4	13.9	4.1 U	11.6 U	10.6
1,2,3,6,7,8-HxCDF		1.7 U	18.6	14.3	3.3 U	9.3 U	7.2 U
2,3,4,6,7,8-HxCDF		3.5	26.7	15.3	8.3	11.5 U	8.9 U
1,2,3,7,8,9-HxCDF		2.3 U	32.9	20.5	4.5 U	12.8 U	9.8 U
1,2,3,4,6,7,8-HpCDF		1.9 U	27.8	11.1	3.6 U	8.0 U	46.9
1,2,3,4,7,8,9-HpCDF		3.0 U	30.7	16.7	5.6 U	12.5 U	10.3 U
1,2,3,4,6,7,8,9-OCDF		3.7 U	86.8	43.7	17.0	10.7 U	218 J
Total TCDD		1.7 U	8.7 U	7.8	5.6 U	15.6 U	14.2
Total PeCDD		2.4 U	21.1	18.8	5.8 U	12.5 U	10.1 U
Total HxCDD		2.7 U	41.3	26.5	5.3 U	13.0 U	53.9
Total HpCDD		8.3	201	16.6	6.1 U	25.1	592
Total TCDF		1.5 U	7.2 U	8.7	4.8 U	14.5 U	11.6 U
Total PeCDF		1.7 U	46.2	30.4	4.5 U	9.9 U	7.6 U
Total HxCDF		3.5	100	64.0	8.3	11.2 U	48.6
Total HpCDF		2.4 U	77.7	16.7	4.4 U	9.8 U	146
Total TEQ		0.417	40.3	36.6	0.876	0.187 J	6.61 J

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TABLE 11

ON-BASE DELINEATION
DIOXIN/FURAN RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in pg/L)	SITE	D3007	D3007	D5004	D5007	D5009	D5013
	SAMPLE ID	D3007W1P3	D3007W1D3	D5004W1P2	D5007W1P2	D5009W1P3	D5013W1P1
	DATE	06/24/97	06/24/97	04/08/97	04/08/97	06/24/97	04/07/97
	RESULT TYPE	Primary	Duplicate 1	Primary	Primary	Primary	Primary
2,3,7,8-TCDD		1.9 U	4.3	7.6 U	6.1 U	(3.2)	4.5 U
1,2,3,7,8-PeCDD		2.1 U	3.9	5.5 U	5.1 U	4.0 U	7.3 U
1,2,3,4,7,8-HxCDD		2.9 U	7.4	8.3 U	7.7 U	6.8 U	7.0 U
1,2,3,6,7,8-HxCDD		2.7 U	10.2	7.6 U	7.0 U	6.2 U	5.5 U
1,2,3,7,8,9-HxCDD		2.6 U	12.3	7.3 U	6.8 U	6.0 U	6.1 U
1,2,3,4,6,7,8-HpCDD		39.9	163	51.6	89.4	17.3	35.9
1,2,3,4,6,7,8,9-OCDD		291	992	408	563	219	279
2,3,7,8-TCDF		1.9 U	2.1 U	7.7 U	6.0 U	3.8 U	3.9
1,2,3,7,8-PeCDF		1.6 U	1.9 U	4.8 U	4.5 U	3.1 U	4.7 U
2,3,4,7,8-PeCDF		1.5 U	1.8 U	4.6 U	4.4 U	3.0 U	4.6 U
1,2,3,4,7,8-HxCDF		2.6 U	4.4	7.6 U	10.3	5.4 U	8.8
1,2,3,6,7,8-HxCDF		2.1 U	3.2	6.1 U	5.3 U	4.3 U	3.3 U
2,3,4,6,7,8-HxCDF		4.1 U	7.3 U	7.5 U	6.6 U	5.3 U	7.4
1,2,3,7,8,9-HxCDF		2.8 U	3.5 U	8.3 U	7.3 U	5.9 U	4.9 U
1,2,3,4,6,7,8-HpCDF		9.6	30.0	6.6 U	14.2	6.0	7.9
1,2,3,4,7,8,9-HpCDF		3.4 U	5.5	10.3 U	9.2 U	6.8 U	6.7 U
1,2,3,4,6,7,8,9-OCDF		23.1	57.4	11.4 U	40.3	(7.3)	22.7
Total TCDD		1.9 U	4.3	7.6 U	6.1 U	(3.2)	4.5 U
Total PeCDD		2.1 U	3.6	5.5 U	5.1 U	4.0 U	7.3 U
Total HxCDD		6.0	22.8	7.7 U	19.9	6.3 U	8.0
Total HpCDD		59.6	316	76.7	168	27.0	69.4
Total TCDF		1.9 U	2.1 U	7.7 U	6.0 U	3.8 U	3.6
Total PeCDF		1.6 U	4.6	4.7 U	4.4 U	3.1 U	16.0
Total HxCDF		3.1	5.5	7.3 U	24.8	(3.6)	23.1
Total HpCDF		19.4	69.8	14.8	14.2	12.1	7.9
Total TEQ		0.809	13.0	0.924	2.67	3.66	2.75

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TABLE 11

ON-BASE DELINEATION
DIOXIN/FURAN RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in pg/L)	SITE	GPT-04-04	GPT-04-04	GPT-04-05	GPT-04-06	GPT-04-07	GPT-05-04
	SAMPLE ID	GPT44G1P1	GPT44G1D1	GPT45G1P1	GPT46G1P2	GPT47G1P2	GPT54G1P1
	DATE	05/19/97	05/19/97	05/19/97	05/20/97	05/20/97	05/20/97
	RESULT TYPE	Primary	Duplicate 1	Primary	Primary	Primary	Primary
2,3,7,8-TCDD		3.0 U	2.6 U	3.3 U	6.9 U	7.9 U	4.0
1,2,3,7,8-PeCDD		(1.6)	2.5 U	4.8 U	8.9 U	7.6 U	7.4
1,2,3,4,7,8-HxCDD		(2.0)	5.3 U	4.8 U	11.1 U	7.2 U	17.8
1,2,3,6,7,8-HxCDD		(2.3)	3.9 U	3.5 U	17.4	6.5 U	19.1
1,2,3,7,8,9-HxCDD		6.1	11.1	3.9 U	75.2	20.3	84.2
1,2,3,4,6,7,8-HpCDD		33.5	57.5	20.9	653	135	765
1,2,3,4,6,7,8,9-OCDD		461	768	282	10090	1680	12460
2,3,7,8-TCDF		5.3 U	6.0 U	2.7 U	6.4 U	7.3 U	8.4 U
1,2,3,7,8-PeCDF		(2.3)	2.1 U	3.3 U	6.2 U	6.2 U	2.4
2,3,4,7,8-PeCDF		2.3 U	2.0 U	3.2 U	6.0 U	6.0 U	3.1 U
1,2,3,4,7,8-HxCDF		3.3 U	3.1 U	3.7 U	9.0 U	6.6 U	3.7 U
1,2,3,6,7,8-HxCDF		2.2 U	2.1 U	2.5 U	7.2 U	5.3 U	3.4 U
2,3,4,6,7,8-HxCDF		4.6 U	3.9 U	4.4 U	9.0 U	6.5 U	6.0 U
1,2,3,7,8,9-HxCDF		3.3 U	3.1 U	3.7 U	9.9 U	7.2 U	2.7
1,2,3,4,6,7,8-HpCDF		(2.6)	3.8 U	13.9	42.1	11.2	7.5
1,2,3,4,7,8,9-HpCDF		(2.0)	(2.7)	4.6 U	11.7 U	7.4 U	2.9
1,2,3,4,6,7,8,9-OCDF		(5.0)	9.3 U	19.6	98.7	9.1 U	12.7
Total TCDD		22.8	52.1	3.3 U	184	7.9 U	259
Total PeCDD		35.0	62.6	12.6	205	7.6 U	458
Total HxCDD		217	477	82.9	1740	220	2620
Total HpCDD		193	359	81.4	2420	379	3090
Total TCDF		9.5	10.3	2.7 U	19.9	7.3 U	16.8
Total PeCDF		2.3	2.1 U	3.3 U	6.1 U	6.1 U	3.1
Total HxCDF		6.0	3.9	4.4	40.0	6.3 U	19.1
Total HpCDF		7.1	5.8	22.7	117	11.2	9.4
Total TEQ		2.80	2.48	0.650	26.4	5.17	40.4

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() = Less than Reporting Limit

U = non-detect, J = estimated For RCL DIOX

TABLE 11

ON-BASE DELINEATION
DIOXIN/FURAN RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in pg/L)	SITE	GPT-05-05	GPT-05-06	L4001	L4001	L4002
	SAMPLE ID	GPT55G1P1	GPT56G1P2	L4001P1P2	L4001P1D2	L4002P1P2
	DATE	05/20/97	05/20/97	04/28/97	04/28/97	04/28/97
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary
2,3,7,8-TCDD		1.7 U	25.2 U	7.3 U	14.1	3.9 U
1,2,3,7,8-PeCDD		4.1	28.0 U	7.9 U	13.0	11.9
1,2,3,4,7,8-HxCDD		15.1	27.4 U	7.5 U	18.7	16.3
1,2,3,6,7,8-HxCDD		17.1	25.0 U	5.8 U	48.5	37.3
1,2,3,7,8,9-HxCDD		104	110	6.3 U	55.7	39.9
1,2,3,4,6,7,8-HpCDD		852	1200	47.5	1670	835
1,2,3,4,6,7,8,9-OCDD		14780	19710	369	13000	6360
2,3,7,8-TCDF		5.2 U	23.6 U	6.0 U	5.1 U	3.4 U
1,2,3,7,8-PeCDF		1.7 U	21.3 U	5.6 U	5.1 U	6.4
2,3,4,7,8-PeCDF		1.6 U	20.6 U	5.6 U	10.5	6.4
1,2,3,4,7,8-HxCDF		1.7 U	23.6 U	5.4 U	70.9	52.1
1,2,3,6,7,8-HxCDF		2.4 U	18.9 U	4.0 U	15.1	10.3
2,3,4,6,7,8-HxCDF		4.1 U	23.4 U	4.7 U	3.5 U	14.7
1,2,3,7,8,9-HxCDF		1.7 U	26.0 U	5.5 U	4.1 U	13.9
1,2,3,4,6,7,8-HpCDF		11.7	18.5 U	5.4 U	498	163
1,2,3,4,7,8,9-HpCDF		1.9 U	28.9 U	6.5 U	38.1	14.7
1,2,3,4,6,7,8,9-OCDF		37.4	43.7 U	36.5	1170	305
Total TCDD		246	169	7.3 U	29.9	3.9 U
Total PeCDD		402	501	7.9 U	35.9	43.2
Total HxCDD		3470	3060	6.4 U	509	283
Total HpCDD		4200	6410	107	3270	1790
Total TCDF		5.2	23.6 U	6.0 U	44.5	22.0
Total PeCDF		1.6 U	21.0 U	5.6 U	115	54.6
Total HxCDF		12.2	22.7 U	4.8 U	480	168
Total HpCDF		31.8	22.6 U	5.9 U	1450	485
Total TEQ		39.1	42.7	0.880	83.0	44.7

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U = non-dete[illegible] = estimated For RCL DIOX

TABLE 12

ON-BASE DELINEATION
VOC RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	D1001	D1003	D1005	D1008	D1010	D1013
	SAMPLE ID	D1001W1P1	D1003W1P1	D1005W1P1	D1008W1P1	D1010W1P1	D1013W1P1
	DATE	04/10/97	04/10/97	04/10/97	04/09/97	04/09/97	04/09/97
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Chloromethane		10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane		10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride		10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride		10 U	10 U	10 U	10 U	10 U	10 U
Acetone		10 U	10 U	10 U	10 U	10 U	10 U
Carbon disulfide		10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene		10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane		10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethene (total)		10 U	10 U	10 U	10 U	10 U	10 U
Chloroform		10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane		10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone		10 U	10 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Carbon tetrachloride		10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane		10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloropropane		10 U	10 U	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene		10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene		10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane		10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Benzene		10 U	10 U	10 U	10 U	10 U	10 U
trans-1,3-Dichloropropene		10 U	10 U	10 U	10 U	10 U	10 U
Bromoform		10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone		10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone		10 U	10 U	10 U	10 U	10 U	10 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-detect, J = estimated For RCL VOA UJ = quantitation limit estimated

TABLE 12

ON-BASE DELINEATION
VOC RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	D1001	D1003	D1005	D1008	D1010	D1013
	SAMPLE ID	D1001W1P1	D1003W1P1	D1005W1P1	D1008W1P1	D1010W1P1	D1013W1P1
	DATE	04/10/97	04/10/97	04/10/97	04/09/97	04/09/97	04/09/97
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Tetrachloroethene		10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Toluene		10 U	10 U	10 U	10 U	10 U	10 U
Chlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene		10 U	10 U	10 U	10 U	10 U	10 U
Styrene		10 U	10 U	10 U	10 U	10 U	10 U
Xylenes (total)		10 U	10 U	10 U	10 U	10 U	10 U

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U = non-det[illegible] = estimated For RCL VOA [illegible] = quantitation limit estimated [illegible]

TABLE 12

ON-BASE DELINEATION
VOC RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	D2003	D2006	D2006	D3003	D3005	D5004
	SAMPLE ID	D2003W1P1	D2006W1P1	D2006W1D1	D3003W1P1	D3005W1P1	D5004W1P1
	DATE	04/05/97	04/05/97	04/05/97	04/07/97	04/07/97	04/08/97
	RESULT TYPE	Primary	Primary	Duplicate 1	Primary	Primary	Primary
Chloromethane		10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane		10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride		10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride		10 U	10 U	10 U	10 U	10 U	10 U
Acetone		10 U	10 U	10 U	10 U	10 U	10 U
Carbon disulfide		10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene		10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane		10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethene (total)		10 U	10 U	10 U	10 U	10 U	10 U
Chloroform		10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane		10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone		10 U	10 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Carbon tetrachloride		10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane		10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloropropane		10 U	10 U	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene		10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene		10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane		10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Benzene		10 U	10 U	10 U	10 U	10 U	10 U
trans-1,3-Dichloropropene		10 U	10 U	10 U	10 U	10 U	10 U
Bromoform		10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone		10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone		10 U	10 U	10 U	10 U	10 U	10 U

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U = non-detect, J = estimated For RCL VOA UJ = quantitation limit estimated

TABLE 12

ON-BASE DELINEATION
VOC RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	D2003	D2006	D2006	D3003	D3005	D5004
	SAMPLE ID	D2003W1P1	D2006W1P1	D2006W1D1	D3003W1P1	D3005W1P1	D5004W1P1
	DATE	04/05/97	04/05/97	04/05/97	04/07/97	04/07/97	04/08/97
	RESULT TYPE	Primary	Primary	Duplicate 1	Primary	Primary	Primary
Tetrachloroethene		10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Toluene		10 U	10 U	10 U	10 U	10 U	10 U
Chlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene		10 U	10 U	10 U	10 U	10 U	10 U
Styrene		10 U	10 U	10 U	10 U	10 U	10 U
Xylenes (total)		10 U	10 U	10 U	10 U	10 U	10 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-dete[illegible] = estimated For RCL VOA [illegible] quantitation limit estimated

TABLE 12

ON-BASE DELINEATION
VOC RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	D5007	D5009	D5013	GPT-04-04	GPT-04-04	GPT-04-05
	SAMPLE ID	D5007W1P1	D5009W1P1	D5013W1P1	GPT44G1P1	GPT44G1D1	GPT45G1P1
	DATE	04/08/97	04/07/97	04/07/97	05/19/97	05/19/97	05/19/97
	RESULT TYPE	Primary	Primary	Primary	Primary	Duplicate 1	Primary
Chloromethane		10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane		10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride		10 U	10 U	10 U	10 U	10 U	37
Chloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride		10 U	10 U	10 U	10 U	10 U	10 U
Acetone		10 U	10 U	10 U	10 U	10 U	10 U
Carbon disulfide		10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene		10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane		10 U	2 J	10 U	10 U	10 U	10 U
1,2-Dichloroethene (total)		10 U	10 U	10 U	10 U	10 U	180
Chloroform		10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane		10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone		10 U	10 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Carbon tetrachloride		10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane		10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloropropane		10 U	10 U	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene		10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene		10 U	10 U	10 U	10 U	10 U	4.7 J
Dibromochloromethane		10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Benzene		10 U	10 U	10 U	10 U	10 U	10 U
trans-1,3-Dichloropropene		10 U	10 U	10 U	10 U	10 U	10 U
Bromoform		10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone		10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone		10 U	10 U	10 U	10 U	10 U	10 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-detect, J = estimated For RCL VOA UJ = quantitation limit estimated

TABLE 12

ON-BASE DELINEATION
VOC RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	D5007	D5009	D5013	GPT-04-04	GPT-04-04	GPT-04-05
	SAMPLE ID	D5007W1P1	D5009W1P1	D5013W1P1	GPT44G1P1	GPT44G1D1	GPT45G1P1
	DATE	04/08/97	04/07/97	04/07/97	05/19/97	05/19/97	05/19/97
	RESULT TYPE	Primary	Primary	Primary	Primary	Duplicate 1	Primary
Tetrachloroethene		10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Toluene		10 U	10 U	10 U	10 U	10 U	10 U
Chlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene		10 U	10 U	10 U	10 U	10 U	10 U
Styrene		10 U	10 U	10 U	10 U	10 U	10 U
Xylenes (total)		10 U	10 U	10 U	10 U	10 U	10 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-det[illegible] = estimated For RCL VOA [illegible] = quantitation limit estimated [illegible]

TABLE 12

ON-BASE DELINEATION
VOC RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	GPT-04-05	GPT-04-06	GPT-04-07	GPT-05-04	GPT-05-05	GPT-05-06
	SAMPLE ID	GPT45G1P3	GPT46G1P1	GPT47G1P1	GPT54G1P1	GPT55G1P1	GPT56G1P1
	DATE	09/19/97	05/20/97	05/20/97	05/20/97	05/20/97	05/20/97
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Chloromethane		20 U	10 U	10 U	10 U	10 U	10 U
Bromomethane		20 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride		52	10 U	10 U	10 U	10 U	10 U
Chloroethane		20 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride		10 U	10 U	10 U	10 U	10 U	10 U
Acetone		110	10 U	10 U	10 U	10 U	10 U
Carbon disulfide		10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene		10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane		10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethene (total)		230	10 U	10 U	10 U	10 U	10 U
Chloroform		10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane		10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone		100 U	10 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Carbon tetrachloride		10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane		10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloropropane		10 U	10 U	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene		10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene		5.7 J	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane		10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Benzene		10 U	10 U	10 U	10 U	10 U	10 U
trans-1,3-Dichloropropene		10 U	10 U	10 U	10 U	10 U	10 U
Bromoform		10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone		100 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone		100 U	10 U	10 U	10 U	10 U	10 U

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U = non-detect, J = estimated For RCL VOA UJ = quantitation limit estimated

TABLE 12

ON-BASE DELINEATION
VOC RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	GPT-04-05	GPT-04-06	GPT-04-07	GPT-05-04	GPT-05-05	GPT-05-06
	SAMPLE ID	GPT45G1P3	GPT46G1P1	GPT47G1P1	GPT54G1P1	GPT55G1P1	GPT56G1P1
	DATE	09/19/97	05/20/97	05/20/97	05/20/97	05/20/97	05/20/97
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Tetrachloroethene		10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Toluene		10 U	10 U	10 U	10 U	10 U	10 U
Chlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene		10 U	10 U	10 U	10 U	10 U	10 U
Styrene		10 U	10 U	10 U	10 U	10 U	10 U
Xylenes (total)		10 U	10 U	10 U	10 U	10 U	10 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-det[illegible] = estimated For RCL VOA [illegible] = quantitation limit estimated [illegible]

TABLE 12

ON-BASE DELINEATION
VOC RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	GPT-GC-01	GPT-GC-02	L4001	L4001	L4002
	SAMPLE ID	L4001W1P3	L4002W1P3	L4001P1P1	L4001P1D1	L4002P1P1
	DATE	09/19/97	09/19/97	04/28/97	04/28/97	04/28/97
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary
Chloromethane		2 U	3.5	10 U	10 U	10 U
Bromomethane		2 U	2.5 U	10 U	10 U	10 U
Vinyl chloride		2 U	0.19 J	10 U	10 U	10 U
Chloroethane		2 U	2.5 U	10 U	10 U	10 U
Methylene chloride		1 U	0.52 J	10 U	10 U	10 U
Acetone		10 U	38	10 U	10 U	10 U
Carbon disulfide		1 U	0.3 J	10 U	10 U	10 U
1,1-Dichloroethene		1 U	1.2 U	10 U	10 U	10 U
1,1-Dichloroethane		1 U	1.2 U	10 U	10 U	10 U
1,2-Dichloroethene (total)		1 U	1.2 U	10 U	10 U	10 U
Chloroform		1 U	5.3	10 U	10 U	10 U
1,2-Dichloroethane		1 U	1.2 U	10 U	10 U	10 U
2-Butanone		10 U	12 U	10 U	10 U	10 U
1,1,1-Trichloroethane		1 U	1.2 U	10 U	10 U	10 U
Carbon tetrachloride		1 U	4.2	10 U	10 U	10 U
Bromodichloromethane		1 U	1.2 U	10 U	10 U	10 U
1,2-Dichloropropane		1 U	1.2 U	10 U	10 U	10 U
cis-1,3-Dichloropropene		1 U	1.2 U	10 U	10 U	10 U
Trichloroethene		1 U	1.2 U	10 U	10 U	10 U
Dibromochloromethane		1 U	1.2 U	10 U	10 U	10 U
1,1,2-Trichloroethane		1 U	1.2 U	10 U	10 U	10 U
Benzene		1 U	1.2 U	10 U	10 U	10 U
trans-1,3-Dichloropropene		1 U	1.2 U	10 U	10 U	10 U
Bromoform		1 U	1.2 U	10 U	10 U	10 U
4-Methyl-2-pentanone		10 U	12 U	10 U	10 U	10 U
2-Hexanone		10 U	12 U	10 U	10 U	10 U

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U = non-detect, J = estimated For RCL VOA UJ = quantitation limit estimated

TABLE 12

ON-BASE DELINEATION
VOC RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	GPT-GC-01	GPT-GC-02	L4001	L4001	L4002
	SAMPLE ID	L4001W1P3	L4002W1P3	L4001P1P1	L4001P1D1	L4002P1P1
	DATE	09/19/97	09/19/97	04/28/97	04/28/97	04/28/97
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary
Tetrachloroethene		1 U	1.2 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane		1 U	1.2 U	10 U	10 U	10 U
Toluene		1 U	1.2 U	10 U	10 U	10 U
Chlorobenzene		1 U	1.2 U	10 U	10 U	10 U
Ethylbenzene		1 U	1.2 U	10 U	10 U	10 U
Styrene		1 U	1.2 U	10 U	10 U	10 U
Xylenes (total)		1 U	1.2 U	10 U	10 U	10 U

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U = non-det[illegible] = estimated For RCL VOA [illegible] = quantitation limit estimated

TABLE 13

ON-BASE DELINEATION
SVOC RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	D1001	D1003	D1005	D1008	D1010	D1013
	SAMPLE ID	D1001W1P1	D1003W1P1	D1005W1P1	D1008W1P1	D1010W1P1	D1013W1P1
	DATE	04/10/97	04/10/97	04/10/97	04/09/97	04/09/97	04/09/97
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Phenol		10 U	10 U	10 U	10 U	10 U	10 U
bis(2-chloroethyl)ether		10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol		10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U
2,2'-oxybis(1-Chloropropane)		10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodinpropylamine		10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene		10 U	10 U	10 U	10 U	10 U	10 U
Isophorone		10 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol		10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol		10 U	10 U	10 U	10 U	10 U	10 U
bis(2-chloroethoxy)methane		10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline		10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene		10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene		10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene		10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol		25 U	25 U	25 U	25 U	25 U	25 U

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TABLE 13

ON-BASE DELINEATION
SVOC RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	D1001	D1003	D1005	D1008	D1010	D1013
	SAMPLE ID	D1001W1P1	D1003W1P1	D1005W1P1	D1008W1P1	D1010W1P1	D1013W1P1
	DATE	04/10/97	04/10/97	04/10/97	04/09/97	04/09/97	04/09/97
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
2-Chloronaphthalene		10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline		25 U	25 U	25 U	25 U	25 U	25 U
Dimethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline		25 U	25 U	25 U	25 U	25 U	25 U
Acenaphthene		10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol		25 U	25 U	25 U	25 U	25 U	25 U
4-Nitrophenol		25 U	25 U	25 U	25 U	25 U	25 U
Dibenzofuran		10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether		10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline		25 U	25 U	25 U	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol		25 U	25 U	25 U	25 U	25 U	25 U
N-Nitrosodiphenylamine (1)		10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether		10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol		25 U	25 U	25 U	25 U	25 U	25 U
Phenanthrene		10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		10 U	10 U	10 U	10 U	10 U	10 U
Carbazole		10 U	10 U	10 U	10 U	10 U	10 U
Di-n-Butylphthalate		10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		10 U	10 U	10 U	10 U	10 U	10 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-det[illegible] = estimated For RCL SVOA [illegible] = quantitation limit estimated [illegible]

TABLE 13

ON-BASE DELINEATION
SVOC RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	D1001	D1003	D1005	D1008	D1010	D1013
	SAMPLE ID	D1001W1P1	D1003W1P1	D1005W1P1	D1008W1P1	D1010W1P1	D1013W1P1
	DATE	04/10/97	04/10/97	04/10/97	04/09/97	04/09/97	04/09/97
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Butylbenzylphthalate		10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine		10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)Anthracene		10 U	10 U	10 U	10 U	10 U	10 U
Chrysene		10 U	10 U	10 U	10 U	10 U	10 U
bis(2-ethylhexyl)Phthalate		10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate		10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene		10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene		10 U	10 U	10 U	10 U	10 U	10 U

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TABLE 13

ON-BASE DELINEATION
SVOC RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	D2003	D2006	D2006	D3003	D3005	D5004
	SAMPLE ID	D2003W1P1	D2006W1P1	D2006W1D1	D3003W1P1	D3005W1P1	D5004W1P1
	DATE	04/05/97	04/05/97	04/05/97	04/07/97	04/07/97	04/08/97
	RESULT TYPE	Primary	Primary	Duplicate 1	Primary	Primary	Primary
Phenol		10 U	10 U	10 U	10 U	10 U	10 U
bis(2-chloroethyl)ether		10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol		10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U
2,2'-oxybis(1-Chloropropane)		10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodinpropylamine		10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene		10 U	10 U	10 U	10 U	10 U	10 U
Isophorone		10 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol		10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol		10 U	10 U	10 U	10 U	10 U	10 U
bis(2-chloroethoxy)methane		10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline		10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene		10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene		10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene		10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol		25 U	25 U	25 U	25 U	25 U	25 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-det = estimated For RCL SVOA = quantitation limit estimated

TABLE 13

ON-BASE DELINEATION
SVOC RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	D2003	D2006	D2006	D3003	D3005	D5004
	SAMPLE ID	D2003W1P1	D2006W1P1	D2006W1D1	D3003W1P1	D3005W1P1	D5004W1P1
	DATE	04/05/97	04/05/97	04/05/97	04/07/97	04/07/97	04/08/97
	RESULT TYPE	Primary	Primary	Duplicate 1	Primary	Primary	Primary
2-Chloronaphthalene		10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline		25 U	25 U	25 U	25 U	25 U	25 U
Dimethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline		25 U	25 U	25 U	25 U	25 U	25 U
Acenaphthene		10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol		25 U	25 U	25 U	25 U	25 U	25 U
4-Nitrophenol		25 U	25 U	25 U	25 U	25 U	25 U
Dibenzofuran		10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether		10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline		25 U	25 U	25 U	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol		25 U	25 U	25 U	25 U	25 U	25 U
N-Nitrosodiphenylamine (1)		10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether		10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol		25 U	25 U	25 U	25 U	25 U	25 U
Phenanthrene		10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		10 U	10 U	10 U	10 U	10 U	10 U
Carbazole		10 U	10 U	10 U	10 U	10 U	10 U
Di-n-Butylphthalate		10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		10 U	10 U	10 U	10 U	10 U	10 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-detect, J = estimated For RCL SVOA UJ = quantitation limit estimated

TABLE 13

ON-BASE DELINEATION
SVOC RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	D2003	D2006	D2006	D3003	D3005	D5004
	SAMPLE ID	D2003W1P1	D2006W1P1	D2006W1D1	D3003W1P1	D3005W1P1	D5004W1P1
	DATE	04/05/97	04/05/97	04/05/97	04/07/97	04/07/97	04/08/97
	RESULT TYPE	Primary	Primary	Duplicate 1	Primary	Primary	Primary
Butylbenzylphthalate		10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine		10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)Anthracene		10 U	10 U	10 U	10 U	10 U	10 U
Chrysene		10 U	10 U	10 U	10 U	10 U	10 U
bis(2-ethylhexyl)Phthalate		10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate		10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene		10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene		10 U	10 U	10 U	10 U	10 U	10 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-dete[illegible] = estimated For RCL SVOA [illegible] = quantitation limit estimated [illegible]

TABLE 13

ON-BASE DELINEATION
SVOC RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	D5007	D5009	D5013	GPT-04-04	GPT-04-04	GPT-04-05
	SAMPLE ID	D5007W1P1	D5009W1P1	D5013W1P1	GPT44G1P1	GPT44G1D1	GPT45G1P1
	DATE	04/08/97	04/07/97	04/07/97	05/19/97	05/19/97	05/19/97
	RESULT TYPE	Primary	Primary	Primary	Primary	Duplicate 1	Primary
Phenol		10 U	10 U	10 U	10 U	10 U	10 U
bis(2-chloroethyl)ether		10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol		10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U
2,2'-oxybis(1-Chloropropane)		10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodinpropylamine		10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene		10 U	10 U	10 U	10 U	10 U	10 U
Isophorone		10 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol		10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol		10 U	10 U	10 U	10 U	10 U	10 U
bis(2-chloroethoxy)methane		10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline		10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene		10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene		10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene		10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol		25 U	25 U	25 U	25 U	25 U	25 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-detect, J = estimated For RCL SVOA

UJ = quantitation limit estimated

TABLE 13

ON-BASE DELINEATION
SVOC RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	D5007	D5009	D5013	GPT-04-04	GPT-04-04	GPT-04-05
	SAMPLE ID	D5007W1P1	D5009W1P1	D5013W1P1	GPT44G1P1	GPT44G1D1	GPT45G1P1
	DATE	04/08/97	04/07/97	04/07/97	05/19/97	05/19/97	05/19/97
	RESULT TYPE	Primary	Primary	Primary	Primary	Duplicate 1	Primary
2-Chloronaphthalene		10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline		25 U	25 U	25 U	25 U	25 U	25 U
Dimethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline		25 U	25 U	25 U	25 U	25 U	25 U
Acenaphthene		10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol		25 U	25 U	25 U	25 U	25 U	25 U
4-Nitrophenol		25 U	25 U	25 U	25 UJ	25 UJ	25 UJ
Dibenzofuran		10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether		10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline		25 U	25 U	25 U	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol		25 U	25 U	25 U	25 U	25 U	25 U
N-Nitrosodiphenylamine (1)		10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether		10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol		25 U	25 U	25 U	25 U	25 U	25 U
Phenanthrene		10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		10 U	10 U	10 U	10 U	10 U	10 U
Carbazole		10 U	10 U	10 U	10 U	10 U	10 U
Di-n-Butylphthalate		10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		10 U	10 U	10 U	10 U	10 U	10 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-det[illegible] = estimated For RCL SVOA [illegible] = quantitation limit estimated [illegible]

TABLE 13

ON-BASE DELINEATION
SVOC RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	D5007	D5009	D5013	GPT-04-04	GPT-04-04	GPT-04-05
	SAMPLE ID	D5007W1P1	D5009W1P1	D5013W1P1	GPT44Q1P1	GPT44Q1D1	GPT45Q1P1
	DATE	04/08/97	04/07/97	04/07/97	05/19/97	05/19/97	05/19/97
	RESULT TYPE	Primary	Primary	Primary	Primary	Duplicate 1	Primary
Butylbenzylphthalate		10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine		10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)Anthracene		10 U	10 U	10 U	10 U	10 U	10 U
Chrysene		10 U	10 U	10 U	10 U	10 U	10 U
bis(2-ethylhexyl)Phthalate		10 U	10 U	10 U	10 U	2 J	3 J
Di-n-octylphthalate		10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene		10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene		10 U	10 U	10 U	10 U	10 U	10 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-detect, J = estimated For RCL SVOA UJ = quantitation limit estimated

TABLE 13

ON-BASE DELINEATION
SVOC RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	GPT-04-05	GPT-04-06	GPT-04-07	GPT-05-04	GPT-05-05	GPT-05-06
	SAMPLE ID	GPT45G1P3	GPT46G1P1	GPT47G1P1	GPT54G1P1	GPT55G1P1	GPT56G1P1
	DATE	09/19/97	05/20/97	05/20/97	05/20/97	05/20/97	05/20/97
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Phenol		10 U	10 U	10 U	10 U	10 U	10 U
bis(2-chloroethyl)ether		10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol		10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U
2,2'-oxybis(1-Chloropropane)		10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodinpropylamine		10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene		10 U	10 U	10 U	10 U	10 U	10 U
Isophorone		10 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol		10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol		10 U	10 U	10 U	10 U	10 U	10 U
bis(2-chloroethoxy)methane		10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline		10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene		10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene		10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene		50 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol		10 U	25 U	25 U	25 U	25 U	25 U

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

U = non-det[illegible] = estimated For RCL SVOA [illegible] = quantitation limit estimated

TABLE 13

ON-BASE DELINEATION
SVOC RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	GPT-04-05	GPT-04-06	GPT-04-07	GPT-05-04	GPT-05-05	GPT-05-06
	SAMPLE ID	GPT45G1P3	GPT46G1P1	GPT47G1P1	GPT54G1P1	GPT55G1P1	GPT56G1P1
	DATE	09/19/97	05/20/97	05/20/97	05/20/97	05/20/97	05/20/97
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
2-Chloronaphthalene		10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline		50 U	25 U	25 U	25 U	25 U	25 U
Dimethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline		50 U	25 U	25 U	25 U	25 U	25 U
Acenaphthene		10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol		50 U	25 U	25 U	25 U	25 U	25 U
4-Nitrophenol		50 U	25 UJ	25 UJ	25 UJ	25 UJ	25 UJ
Dibenzofuran		10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether		10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline		50 U	25 U	25 U	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol		50 U	25 U	25 U	25 U	25 U	25 U
N-Nitrosodiphenylamine (1)		10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether		10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol		50 U	25 U	25 U	25 U	25 U	25 U
Phenanthrene		10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		10 U	10 U	10 U	10 U	10 U	10 U
Carbazole		10 U	10 U	10 U	10 U	10 U	10 U
Di-n-Butylphthalate		10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		10 U	10 U	10 U	10 U	10 U	10 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-detect, J = estimated For RCL SVOA UJ = quantitation limit estimated

TABLE 13

ON-BASE DELINEATION
SVOC RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	GPT-04-05	GPT-04-06	GPT-04-07	GPT-05-04	GPT-05-05	GPT-05-06
	SAMPLE ID	GPT45G1P3	GPT46G1P1	GPT47G1P1	GPT54G1P1	GPT55G1P1	GPT56G1P1
	DATE	09/19/97	05/20/97	05/20/97	05/20/97	05/20/97	05/20/97
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Butylbenzylphthalate		10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine		50 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)Anthracene		10 U	10 U	10 U	10 U	10 U	10 U
Chrysene		10 U	10 U	10 U	10 U	10 U	10 U
bis(2-ethylhexyl)Phthalate		10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate		10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene		10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene		10 U	10 U	10 U	10 U	10 U	10 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-det[illegible] = estimated For RCL SVOA [illegible] = quantitation limit estimated [illegible]

TABLE 13

ON-BASE DELINEATION
SVOC RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	GPT-GC-01	GPT-GC-02	L4001	L4001	L4002
	SAMPLE ID	L4001W1P3	L4002W1P3	L4001P1P1	L4001P1D1	L4002P1P1
	DATE	09/19/97	09/19/97	04/28/97	04/28/97	04/28/97
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary
Phenol		10 U	10 U	10 U	10 U	10 U
bis(2-chloroethyl)ether		10 U	10 U	10 U	10 U	10 U
2-Chlorophenol		10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U
2-Methylphenol		10 U	10 U	10 U	10 U	10 U
2,2'-oxybis(1-Chloropropane)		10 U	10 U	10 U	10 U	10 U
N-Nitrosodinpropylamine		10 U	10 U	10 U	10 U	10 U
4-Methylphenol		10 U	10 U	10 U	10 U	10 U
Hexachloroethane		10 U	10 U	10 U	10 U	10 U
Nitrobenzene		10 U	10 U	10 U	10 U	10 U
Isophorone		10 U	10 U	10 U	10 U	10 U
2-Nitrophenol		10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol		10 U	10 U	10 U	10 U	10 U
bis(2-chloroethoxy)methane		10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol		10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene		10 U	10 U	10 U	10 U	10 U
Naphthalene		10 U	10 U	10 U	10 U	10 U
4-Chloroaniline		10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene		10 U	10 U	10 U	10 U	10 U
4-Chloro-3-Methylphenol		10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene		10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene		50 U	50 U	10 U	10 U	10 U
2,4,6-Trichlorophenol		10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol		10 U	10 U	25 U	25 U	25 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-detect, J = estimated For RCL SVOA UJ = quantitation limit estimated

TABLE 13

ON-BASE DELINEATION
SVOC RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	GPT-GC-01	GPT-GC-02	L4001	L4001	L4002
	SAMPLE ID	L4001W1P3	L4002W1P3	L4001P1P1	L4001P1D1	L4002P1P1
	DATE	09/19/97	09/19/97	04/28/97	04/28/97	04/28/97
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary
2-Chloronaphthalene		10 U	10 U	10 U	10 U	10 U
2-Nitroaniline		50 U	50 U	25 U	25 U	25 U
Dimethylphthalate		10 U	10 U	10 U	10 U	10 U
Acenaphthylene		10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U
3-Nitroaniline		50 U	50 U	25 U	25 U	25 U
Acenaphthene		10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol		50 U	50 U	25 U	25 U	25 U
4-Nitrophenol		50 U	50 U	25 U	25 U	25 U
Dibenzofuran		10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U
Diethylphthalate		10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether		10 U	10 U	10 U	10 U	10 U
Fluorene		10 U	10 U	10 U	10 U	10 U
4-Nitroaniline		50 U	50 U	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol		50 U	50 U	25 U	25 U	25 U
N-Nitrosodiphenylamine (1)		10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether		10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene		10 U	10 U	10 U	10 U	10 U
Pentachlorophenol		50 U	50 U	25 U	25 U	25 U
Phenanthrene		10 U	10 U	10 U	10 U	10 U
Anthracene		10 U	10 U	10 U	10 U	10 U
Carbazole		10 U	10 U	10 U	10 U	10 U
Di-n-Butylphthalate		10 U	10 U	10 U	10 U	10 U
Fluoranthene		10 U	10 U	10 U	10 U	10 U
Pyrene		10 U	10 U	10 U	10 U	10 U

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

U = non-det[illegible] = estimated For RCL SVOA [illegible] = quantitation limit estimated [illegible]

TABLE 13

ON-BASE DELINEATION
SVOC RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	GPT-GC-01	GPT-GC-02	L4001	L4001	L4002
	SAMPLE ID	L4001W1P3	L4002W1P3	L4001P1P1	L4001P1D1	L4002P1P1
	DATE	09/19/97	09/19/97	04/28/97	04/28/97	04/28/97
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary
Butylbenzylphthalate		10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine		50 U	50 U	10 U	10 U	10 U
Benzo(a)Anthracene		10 U	10 U	10 U	10 U	10 U
Chrysene		10 U	10 U	10 U	10 U	10 U
bis(2-ethylhexyl)Phthalate		10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate		10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene		10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene		10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene		10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene		10 U	10 U	10 U	10 U	10 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-detect, J = estimated For RCL SVOA UJ = quantitation limit estimated

TABLE 14

ON-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	D1001	D1003	D1005	D1008	D1010	D1013
	SAMPLE ID	D1001W1P1	D1003W1P1	D1005W1P1	D1008W1P1	D1010W1P1	D1013W1P1
	DATE	04/10/97	04/10/97	04/10/97	04/09/97	04/09/97	04/09/97
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
alpha-BHC		0.05 UJ	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ
beta-BHC		0.05 UJ	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ
delta-BHC		0.05 UJ	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ
gamma-BHC(Lindane)		0.05 UJ	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ
Heptachlor		0.05 UJ	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ
Aldrin		0.05 UJ	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ
Heptachlor epoxide		0.05 UJ	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ
Endosulfan I		0.05 UJ	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ
Dieldrin		0.1 UJ	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDE		0.1 UJ	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ
Endrin		0.1 UJ	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ
Endosulfan II		0.1 UJ	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDD		0.1 UJ	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ
Endosulfan sulfate		0.1 UJ	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDT		0.1 UJ	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ
Methoxychlor		0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 UJ
Endrin ketone		0.1 UJ	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ
Endrin aldehyde		0.1 UJ	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ
alpha-Chlordane		0.05 UJ	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ
gamma-Chlordane		0.05 UJ	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ
Toxaphene		5 UJ	5 U	5 U	5 UJ	5 UJ	5 UJ
Aroclor-1016		1 UJ	1 U	1 U	1 UJ	1 UJ	1 UJ
Aroclor-1221		2 UJ	2 U	2 U	2 UJ	2 UJ	2 UJ
Aroclor-1232		1 UJ	1 U	1 U	1 UJ	1 UJ	1 UJ
Aroclor-1242		1 UJ	1 U	1 U	1 UJ	1 UJ	1 UJ
Aroclor-1248		1 UJ	1 U	1 U	1 UJ	1 UJ	1 UJ

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-de[illegible] J = estimated, NJ = presumptive evidence [illegible] = quantitation limit estimated

TABLE 14

ON-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	D1001	D1003	D1005	D1008	D1010	D1013
	SAMPLE ID	D1001W1P1	D1003W1P1	D1005W1P1	D1008W1P1	D1010W1P1	D1013W1P1
	DATE	04/10/97	04/10/97	04/10/97	04/09/97	04/09/97	04/09/97
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Aroclor-1254		1 UJ	1 U	1 U	1 UJ	1 UJ	1 UJ
Aroclor-1260		1 UJ	1 U	1 U	1 UJ	1 UJ	1 UJ

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-detect, J = estimated, NJ = presumptive evidence UJ = quantitation limit estimated

TABLE 14

ON-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	D2003	D2006	D2006	D3003	D3005	D5004
	SAMPLE ID	D2003W1P1	D2006W1P1	D2006W1D1	D3003W1P1	D3005W1P1	D5004W1P1
	DATE	04/05/97	04/05/97	04/05/97	04/07/97	04/07/97	04/08/97
	RESULT TYPE	Primary	Primary	Duplicate 1	Primary	Primary	Primary
alpha-BHC		0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ
beta-BHC		0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ
delta-BHC		0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ
gamma-BHC(Lindane)		0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ
Heptachlor		0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ
Aldrin		0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ
Heptachlor epoxide		0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ
Endosulfan I		0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ
Dieldrin		0.1 UJ	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ
4,4'-DDE		0.1 UJ	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ
Endrin		0.1 UJ	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ
Endosulfan II		0.1 UJ	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ
4,4'-DDD		0.1 UJ	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ
Endosulfan sulfate		0.1 UJ	0.0051 NJ	0.1 UJ	0.1 U	0.1 U	0.1 UJ
4,4'-DDT		0.1 UJ	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ
Methoxychlor		0.5 UJ	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ
Endrin ketone		0.1 UJ	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ
Endrin aldehyde		0.1 UJ	0.1 U	0.027 J	0.1 U	0.1 U	0.1 UJ
alpha-Chlordane		0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ
gamma-Chlordane		0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ
Toxaphene		5 UJ	5 U	5 UJ	5 U	5 U	5 UJ
Aroclor-1016		1 UJ	1 U	1 UJ	1 U	1 U	1 UJ
Aroclor-1221		2 UJ	2 U	2 UJ	2 U	2 U	2 UJ
Aroclor-1232		1 UJ	1 U	1 UJ	1 U	1 U	1 UJ
Aroclor-1242		1 UJ	1 U	1 UJ	1 U	1 U	1 UJ
Aroclor-1248		1 UJ	1 U	1 UJ	1 U	1 U	1 UJ

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-det[illegible] = estimated, NJ = presumptive evidence [illegible] = quantitation limit estimated

TABLE 14

ON-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	D2003	D2006	D2006	D3003	D3005	D5004
	SAMPLE ID	D2003W1P1	D2006W1P1	D2006W1D1	D3003W1P1	D3005W1P1	D5004W1P1
	DATE	04/05/97	04/05/97	04/05/97	04/07/97	04/07/97	04/08/97
	RESULT TYPE	Primary	Primary	Duplicate 1	Primary	Primary	Primary
Aroclor-1254		1 UJ	1 U	1 UJ	1 U	1 U	1 UJ
Aroclor-1260		1 UJ	1 U	1 UJ	1 U	1 U	1 UJ

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TABLE 14

ON-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	D5007	D5009	D5013	GPT-04-04	GPT-04-04	GPT-04-05
	SAMPLE ID	D5007W1P1	D5009W1P1	D5013W1P1	GPT44G1P1	GPT44G1D1	GPT45G1P1
	DATE	04/08/97	04/07/97	04/07/97	05/19/97	05/19/97	05/19/97
	RESULT TYPE	Primary	Primary	Primary	Primary	Duplicate 1	Primary
alpha-BHC		0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
beta-BHC		0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
delta-BHC		0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
gamma-BHC(Lindane)		0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
Heptachlor		0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
Aldrin		0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
Heptachlor epoxide		0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
Endosulfan I		0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
Dieldrin		0.1 UJ	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDE		0.1 UJ	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
Endrin		0.1 UJ	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
Endosulfan II		0.1 UJ	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDD		0.1 UJ	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
Endosulfan sulfate		0.1 UJ	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDT		0.1 UJ	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
Methoxychlor		0.5 UJ	0.5 U	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
Endrin ketone		0.1 UJ	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
Endrin aldehyde		0.1 UJ	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
alpha-Chlordane		0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
gamma-Chlordane		0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
Toxaphene		5 UJ	5 U	5 UJ	5 UJ	5 UJ	5 UJ
Aroclor-1016		1 UJ	1 U	1 UJ	1 UJ	1 UJ	1 UJ
Aroclor-1221		2 UJ	2 U	2 UJ	2 UJ	2 UJ	2 UJ
Aroclor-1232		1 UJ	1 U	1 UJ	1 UJ	1 UJ	1 UJ
Aroclor-1242		1 UJ	1 U	1 UJ	1 UJ	1 UJ	1 UJ
Aroclor-1248		1 UJ	1 U	1 UJ	1 UJ	1 UJ	1 UJ

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TABLE 14

ON-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	D5007	D5009	D5013	GPT-04-04	GPT-04-04	GPT-04-05
	SAMPLE ID	D5007W1P1	D5009W1P1	D5013W1P1	GPT44G1P1	GPT44G1D1	GPT45G1P1
	DATE	04/08/97	04/07/97	04/07/97	05/19/97	05/19/97	05/19/97
	RESULT TYPE	Primary	Primary	Primary	Primary	Duplicate 1	Primary
Aroclor-1254		1 UJ	1 U	1 UJ	1 UJ	1 UJ	1 UJ
Aroclor-1260		1 UJ	1 U	1 UJ	1 UJ	1 UJ	1 UJ

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U = non-detect, J = estimated, NJ = presumptive evidence UJ = quantitation limit estimated

TABLE 14

ON-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	GPT-04-05	GPT-04-06	GPT-04-07	GPT-05-04	GPT-05-05	GPT-05-06
	SAMPLE ID	GPT45G1P3	GPT46G1P1	GPT47G1P1	GPT54G1P1	GPT55G1P1	GPT56G1P1
	DATE	09/19/97	05/20/97	05/20/97	05/20/97	05/20/97	05/20/97
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
alpha-BHC		0.025 U	0.05 UJ	0.05 UJ	0.0027 NJ	0.05 UJ	0.05 UJ
beta-BHC		0.025 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
delta-BHC		0.025 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
gamma-BHC(Lindane)		0.025 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
Heptachlor		0.025 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
Aldrin		0.025 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
Heptachlor epoxide		0.025 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
Endosulfan I		0.025 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
Dieldrin		0.05 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDE		0.05 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
Endrin		0.05 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
Endosulfan II		0.05 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDD		0.05 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
Endosulfan sulfate		0.05 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDT		0.05 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
Methoxychlor		0.25 U	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
Endrin ketone		0.05 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
Endrin aldehyde		0.05 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
alpha-Chlordane		0.025 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
gamma-Chlordane		0.025 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
Toxaphene		1.2 U	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
Aroclor-1016		0.25 U	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
Aroclor-1221		0.25 U	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
Aroclor-1232		0.25 U	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
Aroclor-1242		0.25 U	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
Aroclor-1248		0.25 U	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-dete[illegible] = estimated, NJ = presumptive evidence [illegible] = quantitation limit estimated

TABLE 14

ON-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	GPT-04-05	GPT-04-06	GPT-04-07	GPT-05-04	GPT-05-05	GPT-05-06
	SAMPLE ID	GPT45G1P3	GPT46G1P1	GPT47G1P1	GPT54G1P1	GPT55G1P1	GPT56G1P1
	DATE	09/19/97	05/20/97	05/20/97	05/20/97	05/20/97	05/20/97
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Aroclor-1254		0.5 U	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
Aroclor-1260		0.5 U	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ

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U = non-detect, J = estimated, NJ = presumptive evidence UJ = quantitation limit estimated

TABLE 14

ON-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	GPT-GC-01	GPT-GC-02	L4001	L4001	L4002
	SAMPLE ID	L4001W1P3	L4002W1P3	L4001P1P1	L4001P1D1	L4002P1P1
	DATE	09/19/97	09/19/97	04/28/97	04/28/97	04/28/97
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary
alpha-BHC		0.025 U	0.025 U	0.05 UJ	<0.05 R	0.05 UJ
beta-BHC		0.025 U	0.025 U	0.05 UJ	<0.05 R	0.05 UJ
delta-BHC		0.025 U	0.025 U	0.05 UJ	<0.05 R	0.05 UJ
gamma-BHC(Lindane)		0.025 U	0.025 U	0.05 UJ	<0.05 R	0.05 UJ
Heptachlor		0.025 U	0.025 U	0.05 UJ	<0.05 R	0.05 UJ
Aldrin		0.025 U	0.025 U	0.05 UJ	<0.05 R	0.05 UJ
Heptachlor epoxide		0.025 U	0.025 U	0.05 UJ	<0.05 R	0.05 UJ
Endosulfan I		0.025 U	0.025 U	0.05 UJ	<0.05 R	0.05 UJ
Dieldrin		0.05 U	0.05 U	0.015 J	0.01 J	0.1 UJ
4,4'-DDE		0.05 U	0.05 U	0.1 UJ	<0.1 R	0.1 UJ
Endrin		0.05 U	0.05 U	0.1 UJ	<0.1 R	0.1 UJ
Endosulfan II		0.05 U	0.05 U	0.1 UJ	<0.1 R	0.1 UJ
4,4'-DDD		0.05 U	0.05 U	0.1 UJ	<0.1 R	0.1 UJ
Endosulfan sulfate		0.05 U	0.05 U	0.1 UJ	<0.1 R	0.1 UJ
4,4'-DDT		0.05 U	0.05 U	0.1 UJ	<0.1 R	0.1 UJ
Methoxychlor		0.25 U	0.25 U	0.5 UJ	<0.5 R	0.5 UJ
Endrin ketone		0.05 U	0.05 U	0.1 UJ	<0.1 R	0.1 UJ
Endrin aldehyde		0.05 U	0.05 U	0.1 UJ	<0.1 R	0.1 UJ
alpha-Chlordane		0.025 U	0.025 U	0.05 UJ	<0.05 R	0.05 UJ
gamma-Chlordane		0.025 U	0.025 U	0.05 UJ	<0.05 R	0.05 UJ
Toxaphene		1.2 U	1.2 U	5 UJ	<5 R	5 UJ
Aroclor-1016		0.25 U	0.25 U	1 UJ	<1 R	1 UJ
Aroclor-1221		0.25 U	0.25 U	2 UJ	<2 R	2 UJ
Aroclor-1232		0.25 U	0.25 U	1 UJ	<1 R	1 UJ
Aroclor-1242		0.25 U	0.25 U	1 UJ	<1 R	1 UJ
Aroclor-1248		0.25 U	0.25 U	1 UJ	<1 R	1 UJ

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-det[illegible] = estimated, NJ = presumptive evidence [illegible] = quantitation limit estimated

TABLE 14

ON-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT	(Units in ug/L)	SITE	GPT-GC-01	GPT-GC-02	L4001	L4001	L4002
		SAMPLE ID	L4001W1P3	L4002W1P3	L4001P1P1	L4001P1D1	L4002P1P1
		DATE	09/19/97	09/19/97	04/28/97	04/28/97	04/28/97
		RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary
Aroclor-1254			0.5 U	0.5 U	1 UJ	<1 R	1 UJ
Aroclor-1260			0.5 U	0.5 U	1 UJ	<1 R	1 UJ

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-detect, J = estimated, NJ = presumptive evidence UJ = quantitation limit estimated

TABLE 15

ON-BASE DELINEATION
HERBICIDE RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	D1001	D1003	D1005	D1008	D1010	D1013
	SAMPLE ID	D1001W1P1	D1003W1P1	D1005W1P1	D1008W1P1	D1010W1P1	D1013W1P1
	DATE	04/10/97	04/10/97	04/10/97	04/09/97	04/09/97	04/09/97
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
2,4-D		4 U	4 U	4 U	4 U	4 U	4 U
2,4,5-TP (Silvex)		1 U	1 U	1 U	1 U	1 U	1 U
2,4,5-T		1 U	1 U	1 U	1 U	1 U	1 U

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

U = non-det[illegible] = estimated, [illegible] = quantitation limit estimated For RCL HERB

TABLE 15

ON-BASE DELINEATION
HERBICIDE RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	D2003	D2006	D2006	D3003	D3005	D5004
	SAMPLE ID	D2003W1P1	D2006W1P1	D2006W1D1	D3003W1P1	D3005W1P1	D5004W1P1
	DATE	04/05/97	04/05/97	04/05/97	04/07/97	04/07/97	04/08/97
	RESULT TYPE	Primary	Primary	Duplicate 1	Primary	Primary	Primary
2,4-D		4 U	4 U	4 U	4 U	4 U	4 U
2,4,5-TP (Silvex)		1 U	1 U	1 U	1 U	1 U	1 U
2,4,5-T		1 U	1 U	1 U	1 U	1 U	1 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-detect, J = estimated, UJ = quantitation limit estimated For RCL HERB

TABLE 15

ON-BASE DELINEATION
HERBICIDE RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	D5007	D5009	D5013	GPT-04-04	GPT-04-04	GPT-04-05
	SAMPLE ID	D5007W1P1	D5009W1P1	D5013W1P1	GPT44G1P1	GPT44G1D1	GPT45G1P1
	DATE	04/08/97	04/07/97	04/07/97	05/19/97	05/19/97	05/19/97
	RESULT TYPE	Primary	Primary	Primary	Primary	Duplicate 1	Primary
2,4-D		4 U	4 U	4 U	4 U	4 U	4 U
2,4,5-TP (Silvex)		1 U	1 U	1 U	1 U	1 U	1 U
2,4,5-T		1 U	1 U	1 U	1 U	1 U	1 U

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- =Not analyzed

U = non-det[illegible] = estimated, [illegible] = quantitation limit estimated For RCL HERB

TABLE 15

ON-BASE DELINEATION
HERBICIDE RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	GPT-04-06	GPT-04-07	GPT-05-04	GPT-05-05	GPT-05-06	L4001
	SAMPLE ID	GPT46G1P1	GPT47G1P1	GPT54G1P1	GPT55G1P1	GPT56G1P1	L4001P1P1
	DATE	05/20/97	05/20/97	05/20/97	05/20/97	05/20/97	04/28/97
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
2,4-D		4 U	4 U	4 U	4 U	4 U	4 UJ
2,4,5-TP (Silvex)		1 U	1 U	1 U	1 U	1 U	1 U
2,4,5-T		1 U	1 U	1 U	1 U	1 U	1 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-detect, J = estimated, UJ = quantitation limit estimated For RCL HERB

TABLE 15

ON-BASE DELINEATION
HERBICIDE RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	L4001	L4002
	SAMPLE ID	L4001P1D1	L4002P1P1
	DATE	04/28/97	04/28/97
	RESULT TYPE	Duplicate 1	Primary
2,4-D		4 UJ	4 UJ
2,4,5-TP (Silvex)		1 U	1 U
2,4,5-T		1 U	1 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-dete[illegible] = estimated, [illegible] = quantitation limit estimated For RCL HERB

TABLE 16

OFF-BASE DELINEATION
DIOXIN/FURAN RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in pg/L)	SITE	BB003	BC003	C1001	C1001	TC002	TC006
	SAMPLE ID	BB003W1P2	BC003W1P1	C1001W1P1	C1001W1D1	TC002W1P2	TC006W1P1
	DATE	05/16/97	05/19/97	04/23/97	04/23/97	04/25/97	05/14/97
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
2,3,7,8-TCDD		4.8 U	1.5 U	(4.1)	3.9 U	5.3 U	5.8 U
1,2,3,7,8-PeCDD		5.6 U	1.7 U	22.1	(4.6)	4.5 U	7.2 U
1,2,3,4,7,8-HxCDD		6.1 U	2.1 U	16.6	4.8	6.6 U	7.2 U
1,2,3,6,7,8-HxCDD		4.3 U	1.5 U	22.1	6.4	5.6 U	5.2 U
1,2,3,7,8,9-HxCDD		4.7 U	1.7 U	29.6	8.9	5.7 U	5.6 U
1,2,3,4,6,7,8-HpCDD		23.5	7.7	297	74.2	11.5	6.8 U
1,2,3,4,6,7,8,9-OCDD		266	74.6 U	2100	506	174	85.6
2,3,7,8-TCDF		3.7 U	1.2 U	6.7	2.6 U	5.1 U	4.3 U
1,2,3,7,8-PeCDF		4.5 U	1.3 U	11.8	3.7 U	3.5 U	5.0 U
2,3,4,7,8-PeCDF		4.3 U	1.2 U	8.6	3.7 U	3.7 U	4.8 U
1,2,3,4,7,8-HxCDF		3.9 U	1.5 U	18.0	5.6	5.1 U	5.2 U
1,2,3,6,7,8-HxCDF		2.8 U	1.0 U	12.9	3.3	4.2 U	3.7 U
2,3,4,6,7,8-HxCDF		5.5	3.0 U	19.2	3.3 U	5.4 U	5.0 U
1,2,3,7,8,9-HxCDF		4.0 U	1.5 U	7.3	4.4	6.2 U	5.3 U
1,2,3,4,6,7,8-HpCDF		10.5	3.0	78.5	19.9	5.5 U	4.8 U
1,2,3,4,7,8,9-HpCDF		4.4 U	1.8 U	(9.1)	(3.0)	7.6 U	6.0 U
1,2,3,4,6,7,8,9-OCDF		22.8	5.5	130	34.2	9.5 U	6.5 U
Total TCDD		4.8 U	1.5 U	(4.1)	3.9 U	5.3 U	5.8 U
Total PeCDD		5.6 U	1.7 U	22.1	(4.6)	4.5 U	7.2 U
Total HxCDD		4.9 U	1.7 U	101	31.3	5.9 U	5.9 U
Total HpCDD		51.5	16.2	574	132	11.5	6.8 U
Total TCDF		3.7 U	1.2 U	10.1	2.6 U	5.1 U	4.3 U
Total PeCDF		4.4 U	1.3 U	29.8	3.7 U	3.6 U	4.9 U
Total HxCDF		5.5	3.0	124	24.9	5.1 U	4.7 U
Total HpCDF		26.1	5.8	199	49.1	6.3 U	5.4 U
Total TEQ		1.18	0.112	39.4	7.15	0.289	0.086

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

( ) = Less than Reporting Limit

U = non-detect, For RCL DIOX

TABLE 16

OFF-BASE DELINEATION
DIOXIN/FURAN RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in pg/L)	SITE	TC006	WM002
	SAMPLE ID	TC006W1D1	WM002W1P2
	DATE	05/14/97	04/24/97
	RESULT TYPE	Duplicate 1	Primary
2,3,7,8-TCDD		2.2 U	4.8 U
1,2,3,7,8-PeCDD		2.4 U	5.1 U
1,2,3,4,7,8-HxCDD		2.6 U	6.8 U
1,2,3,6,7,8-HxCDD		1.9 U	6.2 U
1,2,3,7,8,9-HxCDD		2.0 U	6.0 U
1,2,3,4,6,7,8-HpCDD		8.2	6.2 U
1,2,3,4,6,7,8,9-OCDD		80.2	29.3 U
2,3,7,8-TCDF		1.7 U	4.8 U
1,2,3,7,8-PeCDF		1.8 U	4.5 U
2,3,4,7,8-PeCDF		1.8 U	4.3 U
1,2,3,4,7,8-HxCDF		1.8 U	5.4 U
1,2,3,6,7,8-HxCDF		1.3 U	4.3 U
2,3,4,6,7,8-HxCDF		3.7	5.4 U
1,2,3,7,8,9-HxCDF		1.9 U	5.9 U
1,2,3,4,6,7,8-HpCDF		1.7 U	3.9 U
1,2,3,4,7,8,9-HpCDF		2.2 U	6.0 U
1,2,3,4,6,7,8,9-OCDF		2.3 U	7.0 U
Total TCDD		2.2 U	4.8 U
Total PeCDD		2.4 U	5.1 U
Total HxCDD		2.1 U	6.3 U
Total HpCDD		16.1	6.2 U
Total TCDF		1.7 U	4.8 U
Total PeCDF		1.8 U	4.4 U
Total HxCDF		3.7	5.2 U
Total HpCDF		1.9 U	4.7 U
Total TEQ		0.532	0

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-dete[illegible] For RCL DIOX

TABLE 17

OFF-BASE DELINEATION
VOC RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	BB003	BC003	C1001	C1001	TC002	TC006
	SAMPLE ID	BB003W1P1	BC003W1P1	C1001W1P1	C1001W1D1	TC002W1P1	TC006W1P1
	DATE	05/16/97	05/19/97	04/23/97	04/23/97	04/25/97	05/14/97
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
Chloromethane		10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane		10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride		10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride		10 U	10 U	10 U	10 U	10 U	10 U
Acetone		10 U	10 U	10 U	10 U	10 U	10 U
Carbon disulfide		10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene		10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane		10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethene (total)		10 U	10 U	10 U	10 U	10 U	10 U
Chloroform		10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane		10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone		10 U	10 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Carbon tetrachloride		10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane		10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloropropane		10 U	10 U	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene		10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene		10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane		10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Benzene		10 U	10 U	10 U	10 U	10 U	10 U
trans-1,3-Dichloropropene		10 U	10 U	10 U	10 U	10 U	10 U
Bromoform		10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone		10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone		10 U	10 U	10 U	10 U	10 U	10 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-detect, J = estimated For RCL VOA UJ = estimated quantitation limit

TABLE 17

OFF-BASE DELINEATION
VOC RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	BB003	BC003	C1001	C1001	TC002	TC006
	SAMPLE ID	BB003W1P1	BC003W1P1	C1001W1P1	C1001W1D1	TC002W1P1	TC006W1P1
	DATE	05/16/97	05/19/97	04/23/97	04/23/97	04/25/97	05/14/97
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
Tetrachloroethene		10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Toluene		10 U	10 U	10 U	10 U	10 U	10 U
Chlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene		10 U	10 U	10 U	10 U	10 U	10 U
Styrene		10 U	10 U	10 U	10 U	10 U	10 U
Xylenes (total)		10 U	10 U	10 U	10 U	10 U	10 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-dete[illegible] = estimated For RCL VOA [illegible] = estimated quantitation limit

TABLE 17

OFF-BASE DELINEATION
VOC RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	TC006	WM002
	SAMPLE ID	TC006W1D1	WM002W1P1
	DATE	05/14/97	04/24/97
	RESULT TYPE	Duplicate 1	Primary
Chloromethane		10 U	10 U
Bromomethane		10 U	10 U
Vinyl chloride		10 U	10 U
Chloroethane		10 U	10 U
Methylene chloride		10 U	10 U
Acetone		10 U	10 U
Carbon disulfide		10 U	10 U
1,1-Dichloroethene		10 U	10 U
1,1-Dichloroethane		10 U	10 U
1,2-Dichloroethene (total)		10 U	10 U
Chloroform		10 U	10 U
1,2-Dichloroethane		10 U	10 U
2-Butanone		10 U	10 U
1,1,1-Trichloroethane		10 U	10 U
Carbon tetrachloride		10 U	10 U
Bromodichloromethane		10 U	10 U
1,2-Dichloropropane		10 U	10 U
cis-1,3-Dichloropropene		10 U	10 U
Trichloroethene		10 U	10 U
Dibromochloromethane		10 U	10 U
1,1,2-Trichloroethane		10 U	10 U
Benzene		10 U	10 U
trans-1,3-Dichloropropene		10 U	10 U
Bromoform		10 U	10 U
4-Methyl-2-pentanone		10 U	10 U
2-Hexanone		10 U	10 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-detect, J = estimated For RCL VOA UJ = estimated quantitation limit

TABLE 17

OFF-BASE DELINEATION
VOC RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	TC006	WM002
	SAMPLE ID	TC006W1D1	WM002W1P1
	DATE	05/14/97	04/24/97
	RESULT TYPE	Duplicate 1	Primary
Tetrachloroethene		10 U	10 U
1,1,2,2-Tetrachloroethane		10 U	10 U
Toluene		10 U	10 U
Chlorobenzene		10 U	10 U
Ethylbenzene		10 U	10 U
Styrene		10 U	10 U
Xylenes (total)		10 U	10 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-det[illegible] = estimated For RCL VOA [illegible] = estimated quantitation limit [illegible]

TABLE 18

OFF-BASE DELINEATION
SVOC RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	BB003	BC003	C1001	C1001	TC002	TC006
	SAMPLE ID	BB003W1P1	BC003W1P1	C1001W1P1	C1001W1D1	TC002W1P1	TC006W1P1
	DATE	05/16/97	05/19/97	04/23/97	04/23/97	04/25/97	05/14/97
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
Phenol		10 U	10 U	10 U	10 U	10 U	10 U
bis(2-chloroethyl)ether		10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol		10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U
2,2'-oxybis(1-Chloropropane)		10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodinpropylamine		10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene		10 U	10 U	10 U	10 U	10 U	10 U
Isophorone		10 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol		10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol		10 U	10 U	10 U	10 U	10 U	10 U
bis(2-chloroethoxy)methane		10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline		10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene		10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene		10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene		10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol		25 U	25 U	25 U	25 U	25 U	25 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-detect, J = estimated For RCL SVOA UJ = estimated quantitation limit

TABLE 18

OFF-BASE DELINEATION
SVOC RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	BB003	BC003	C1001	C1001	TC002	TC006
	SAMPLE ID	BB003W1P1	BC003W1P1	C1001W1P1	C1001W1D1	TC002W1P1	TC006W1P1
	DATE	05/16/97	05/19/97	04/23/97	04/23/97	04/25/97	05/14/97
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
2-Chloronaphthalene		10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline		25 U	25 U	25 U	25 U	25 U	25 U
Dimethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline		25 U	25 U	25 U	25 U	25 U	25 U
Acenaphthene		10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol		25 U	25 U	25 U	25 U	25 U	25 U
4-Nitrophenol		25 UJ	25 UJ	25 U	25 U	25 U	25 UJ
Dibenzofuran		10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether		10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline		25 U	25 U	25 U	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol		25 U	25 U	25 U	25 U	25 U	25 U
N-Nitrosodiphenylamine (1)		10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether		10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol		25 U	25 U	25 U	25 U	25 U	25 U
Phenanthrene		10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		10 U	10 U	10 U	10 U	10 U	10 U
Carbazole		10 U	10 U	10 U	10 U	10 U	10 U
Di-n-Butylphthalate		10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		10 U	10 U	10 U	10 U	10 U	10 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-det[illegible] = estimated For RCL SVOA [illegible] = estimated quantitation limit [illegible]

TABLE 18

OFF-BASE DELINEATION
SVOC RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	BB003	BC003	C1001	C1001	TC002	TC006
	SAMPLE ID	BB003W1P1	BC003W1P1	C1001W1P1	C1001W1D1	TC002W1P1	TC006W1P1
	DATE	05/16/97	05/19/97	04/23/97	04/23/97	04/25/97	05/14/97
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
Butylbenzylphthalate		10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine		10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)Anthracene		10 U	10 U	10 U	10 U	10 U	10 U
Chrysene		10 U	10 U	10 U	10 U	10 U	10 U
bis(2-ethylhexyl)Phthalate		10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate		10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene		10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene		10 U	10 U	10 U	10 U	10 U	10 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-detect, J = estimated For RCL SVOA UJ = estimated quantitation limit

TABLE 18

OFF-BASE DELINEATION
SVOC RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	TC006	WM002
	SAMPLE ID	TC006W1D1	WM002W1P1
	DATE	05/14/97	04/24/97
	RESULT TYPE	Duplicate 1	Primary
Phenol		10 U	10 U
bis(2-chloroethyl)ether		10 U	10 U
2-Chlorophenol		10 U	10 U
1,3-Dichlorobenzene		10 U	10 U
1,4-Dichlorobenzene		10 U	10 U
1,2-Dichlorobenzene		10 U	10 U
2-Methylphenol		10 U	10 U
2,2'-oxybis(1-Chloropropane)		10 U	10 U
N-Nitrosodinpropylamine		10 U	10 U
4-Methylphenol		10 U	10 U
Hexachloroethane		10 U	10 U
Nitrobenzene		10 U	10 U
Isophorone		10 U	10 U
2-Nitrophenol		10 U	10 U
2,4-Dimethylphenol		10 U	10 U
bis(2-chloroethoxy)methane		10 U	10 U
2,4-Dichlorophenol		10 U	10 U
1,2,4-Trichlorobenzene		10 U	10 U
Naphthalene		10 U	10 U
4-Chloroaniline		10 U	10 U
Hexachlorobutadiene		10 U	10 U
4-Chloro-3-Methylphenol		10 U	10 U
2-Methylnaphthalene		10 U	10 U
Hexachlorocyclopentadiene		10 U	10 U
2,4,6-Trichlorophenol		10 U	10 U
2,4,5-Trichlorophenol		25 U	25 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-dete[illegible] = estimated For RCL SVOA [illegible] = estimated quantitation limit [illegible]

TABLE 18

OFF-BASE DELINEATION
SVOC RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	TC006	WM002
	SAMPLE ID	TC006W1D1	WM002W1P1
	DATE	05/14/97	04/24/97
	RESULT TYPE	Duplicate 1	Primary
2-Chloronaphthalene		10 U	10 U
2-Nitroaniline		25 U	25 U
Dimethylphthalate		10 U	10 U
Acenaphthylene		10 U	10 U
2,6-Dinitrotoluene		10 U	10 U
3-Nitroaniline		25 U	25 U
Acenaphthene		10 U	10 U
2,4-Dinitrophenol		25 U	25 U
4-Nitrophenol		25 UJ	25 U
Dibenzofuran		10 U	10 U
2,4-Dinitrotoluene		10 U	10 U
Diethylphthalate		10 U	10 U
4-Chlorophenyl-phenylether		10 U	10 U
Fluorene		10 U	10 U
4-Nitroaniline		25 U	25 U
4,6-Dinitro-2-methylphenol		25 U	25 U
N-Nitrosodiphenylamine (1)		10 U	10 U
4-Bromophenyl-phenylether		10 U	10 U
Hexachlorobenzene		10 U	10 U
Pentachlorophenol		25 U	25 U
Phenanthrene		10 U	10 U
Anthracene		10 U	10 U
Carbazole		10 U	10 U
Di-n-Butylphthalate		10 U	10 U
Fluoranthene		10 U	10 U
Pyrene		10 U	10 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-detect, J = estimated For RCL SVOA UJ = estimated quantitation limit

TABLE 18

OFF-BASE DELINEATION
SVOC RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	TC006	WM002
	SAMPLE ID	TC006W1D1	WM002W1P1
	DATE	05/14/97	04/24/97
	RESULT TYPE	Duplicate 1	Primary
Butylbenzylphthalate		10 U	10 U
3,3'-Dichlorobenzidine		10 U	10 U
Benzo(a)Anthracene		10 U	10 U
Chrysene		10 U	10 U
bis(2-ethylhexyl)Phthalate		10 U	10 U
Di-n-octylphthalate		10 U	10 U
Benzo(b)fluoranthene		10 U	10 U
Benzo(k)fluoranthene		10 U	10 U
Benzo(a)pyrene		10 U	10 U
Indeno(1,2,3-cd)pyrene		10 U	10 U
Dibenzo(a,h)anthracene		10 U	10 U
Benzo(g,h,i)perylene		10 U	10 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-dete[illegible] = estimated For RCL SVOA [illegible] = estimated quantitation limit

TABLE 19

OFF-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	BB003	BC003	C1001	C1001	TC002	TC006
	SAMPLE ID	BB003W1P1	BC003W1P1	C1001W1P1	C1001W1D1	TC002W1P1	TC006W1P1
	DATE	05/16/97	05/19/97	04/23/97	04/23/97	04/25/97	05/14/97
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
alpha-BHC		0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U
beta-BHC		0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U
delta-BHC		0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U
gamma-BHC(Lindane)		0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U
Heptachlor		0.05 U	0.05 UJ	0.05 UJ	0.026 J	0.05 UJ	0.05 U
Aldrin		0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U
Heptachlor epoxide		0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U
Endosulfan I		0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U
Dieldrin		0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U
4,4'-DDE		0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U
Endrin		0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U
Endosulfan II		0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U
4,4'-DDD		0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U
Endosulfan sulfate		0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U
4,4'-DDT		0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U
Methoxychlor		0.5 U	0.5 UJ	0.5 UJ	0.031 NJ	0.5 UJ	0.5 U
Endrin ketone		0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U
Endrin aldehyde		0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U
alpha-Chlordane		0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U
gamma-Chlordane		0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U
Toxaphene		5 U	5 UJ	5 UJ	5 UJ	5 UJ	5 U
Aroclor-1016		1 U	1 UJ	1 UJ	1 UJ	1 UJ	1 U
Aroclor-1221		2 U	2 UJ	2 UJ	2 UJ	2 UJ	2 U
Aroclor-1232		1 U	1 UJ	1 UJ	1 UJ	1 UJ	1 U
Aroclor-1242		1 U	1 UJ	1 UJ	1 UJ	1 UJ	1 U
Aroclor-1248		1 U	1 UJ	1 UJ	1 UJ	1 UJ	1 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-detect, J = estimated, NJ = presumptive evidence UJ = estimated quantitation limit

TABLE 19

OFF-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	BB003	BC003	C1001	C1001	TC002	TC006
	SAMPLE ID	BB003W1P1	BC003W1P1	C1001W1P1	C1001W1D1	TC002W1P1	TC006W1P1
	DATE	05/16/97	05/19/97	04/23/97	04/23/97	04/25/97	05/14/97
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
Aroclor-1254		1 U	1 UJ	1 UJ	1 UJ	1 UJ	1 U
Aroclor-1260		1 U	1 UJ	1 UJ	1 UJ	1 UJ	1 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-dete[illegible] = estimated, NJ = presumptive evidence [illegible] = estimated quantitation limit

TABLE 19

OFF-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	TC006	WM002
	SAMPLE ID	TC006W1D1	WM002W1P1
	DATE	05/14/97	04/24/97
	RESULT TYPE	Duplicate 1	Primary
alpha-BHC		0.05 U	0.05 UJ
beta-BHC		0.05 U	0.05 UJ
delta-BHC		0.05 U	0.05 UJ
gamma-BHC(Lindane)		0.05 U	0.05 UJ
Heptachlor		0.05 U	0.05 UJ
Aldrin		0.05 U	0.05 UJ
Heptachlor epoxide		0.05 U	0.05 UJ
Endosulfan I		0.05 U	0.05 UJ
Dieldrin		0.1 U	0.1 UJ
4,4'-DDE		0.1 U	0.1 UJ
Endrin		0.1 U	0.1 UJ
Endosulfan II		0.1 U	0.1 UJ
4,4'-DDD		0.1 U	0.1 UJ
Endosulfan sulfate		0.1 U	0.1 UJ
4,4'-DDT		0.1 U	0.1 UJ
Methoxychlor		0.5 U	0.5 UJ
Endrin ketone		0.1 U	0.1 UJ
Endrin aldehyde		0.1 U	0.1 UJ
alpha-Chlordane		0.05 U	0.05 UJ
gamma-Chlordane		0.05 U	0.05 UJ
Toxaphene		5 U	5 UJ
Aroclor-1016		1 U	1 UJ
Aroclor-1221		2 U	2 UJ
Aroclor-1232		1 U	1 UJ
Aroclor-1242		1 U	1 UJ
Aroclor-1248		1 U	1 UJ

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-detect, J = estimated, NJ = presumptive evidence UJ = estimated quantitation limit

TABLE 19

OFF-BASE DELINEATION
PESTICIDE/PCB RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	TC006	WM002
	SAMPLE ID	TC006W1D1	WM002W1P1
	DATE	05/14/97	04/24/97
	RESULT TYPE	Duplicate 1	Primary
Aroclor-1254		1 U	1 UJ
Aroclor-1260		1 U	1 UJ

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-dete[illegible] = estimated, NJ = presumptive evidence [illegible] = estimated quantitation limit

TABLE 20

OFF-BASE DELINEATION
HERBICIDE RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	BB003	BC003	C1001	C1001	TC002	TC006
	SAMPLE ID	BB003W1P1	BC003W1P1	C1001W1P1	C1001W1D1	TC002W1P1	TC006W1P1
	DATE	05/16/97	05/19/97	04/23/97	04/23/97	04/25/97	05/14/97
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
2,4-D		4 U	4 U	4 UJ	4 UJ	4 UJ	4 U
2,4,5-TP (Silvex)		1 U	1 U	1 UJ	1 U	1 U	1 U
2,4,5-T		1 U	1 U	1 UJ	1 U	1 U	1 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-detect, J = estimated, UJ = estimated quantitation limit For RCL HERB

TABLE 20

OFF-BASE DELINEATION
HERBICIDE RESULTS
NCBC GULFPORT
(water)

Date: 07/24/98

CONSTITUENT (Units in ug/L)	SITE	TC006	WM002
	SAMPLE ID	TC006W1D1	WM002W1P1
	DATE	05/14/97	04/24/97
	RESULT TYPE	Duplicate 1	Primary
2,4-D		4 U	4 UJ
2,4,5-TP (Silvex)		1 U	1 U
2,4,5-T		1 U	1 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

U = non-detected J = estimated, = estimated quantitation limit For RCL HERB

APPENDIX C-1

APPENDIX C-1

PARCC REPORT FOR PHASE I

PRECISION, ACCURACY, REPRESENTATIVENESS, COMPARABILITY, AND COMPLETENESS FOR NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

NAVAL CONSTRUCTION BATTALION CENTER GULFPORT, MISSISSIPPI

draft

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Calibration Criteria Summary

NCBC Gulfport Onsite and Offsite Delineation

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NCBC Gulfport Onsite and Offsite Delineation

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NCBC Gulfport Onsite and Offsite Delineation

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draft

1.0 INTRODUCTION

Prior to evaluating the data for precision, accuracy, representativeness, comparability, and completeness (PARCC) criteria the laboratory reviewed the data package and the data also were independently reviewed and validated using the Naval Energy and Environmental and Support Activity (NEESA) guidance document 20.2-047B (1988) entitled, *Sampling and Chemical Analysis Quality Assurance Requirements for the Navy Installation Program*. Before the laboratory released the chemical analytical results, both the sample and laboratory QC data were carefully reviewed in order to verify sample identity, instrument calibration, detection limits, dilution factors, numerical computations, accuracy of transcriptions, and chemical interpretations. Additionally, the QC data were reduced and spike recoveries were included in control charts, and the resulting data were reviewed to ascertain whether they were within the laboratory defined limits for accuracy and precision. The data were compiled into NEESA Level D data packages and any nonconforming data were discussed in the data package cover letter and case narrative.

The Level D data packages were then reviewed and validated by Heartland Environmental Services, Inc., Missouri (Heartland). Data validation is the technical review of a data package using criteria established in the data quality objectives, the quality assurance project plan and guidance documents prepared by the United States Environmental Protection Agency (USEPA) for the validation of organic and inorganic analytical data (USEPA 1990a and 1990b) as specified by NEESA document 20.2-047B. The data review and validation process is independent of the laboratory's checks because it is impossible to repeat the review conducted by the laboratory.

Many of the samples analyzed for the dioxin/furan fraction required re-analysis because the laboratory did not follow the analytical sequence requirements set forth in the method. The method requires the analysis of mass resolution checks at the beginning and end of each twelve (12) hour period in which samples are analyzed (SW-846 Method 8290, Sections 8.3.2.1, 8.3.2.2, 8.3.2.2.1, 8.3.2.2.2, 8.3.2.3, and 8.3.2.4). In the analytical sequences surrounding the analysis of the majority of the samples, these mass resolution checks were not analyzed at the proper intervals. Therefore, all positive results reported in samples which were associated with the non compliant mass resolution checks required rejection, R. This action resulted in the rejection of one hundred and sixty seven (167) quality control sample data points, one thousand, four hundred and ninety five (1495) field soil sample data points and one hundred and forty five (145) field water sample data points in the original analysis of the samples. For this reason, the laboratory was requested to re-analyzed these samples under acceptable analytical sequences. The majority of these samples were re-analyzed outside of the analytical holding time recommended by the method. The data provided in the RE analysis was deemed acceptable with low bias (due to the holding time non-compliance) based on the relative stability of the dioxin/furan compounds in a variety of matricies (SW-846 Method 8290, Section 6.4, page 10). The Holding Time non-compliances are discussed more fully in the Representativeness section of this report, Section 4. There were seventeen (17) field soil samples, four (4) field water samples, and four (4) field QC samples that were not re-analyzed for mass calibration deficiencies. The laboratory was unable to re-analyze these samples because there was not enough sample extract. Therefore, results for these twenty-five (25) samples were reported from the original analysis. In some cases, samples that did not require re-analysis were re-analyzed by the laboratory. Results for these samples were reported from the original analysis.

For the purpose of this PARCC document, discussion will be limited to those sample results reported for the field study which were a) reported from original analysis under acceptable analytical sequence, b) reported from the RE analysis, or c) reported from the original analysis under unacceptable sequence because they were not re-analyzed as requested. These sample results will be referred to in this document as the "reported samples" or "reported results". When the original analysis results and the re-analysis results are both presented in a PARCC table, the reported sample is specifically noted in the narrative text.

Samples that did not meet the acceptance limit criteria were qualified with a flag; single letter abbreviations that indicate a problem with the data. Data qualifiers used by the validators when amending the data include the following.

U — Undetected. The analyte was not detected above the contract required quantitation limit (CRQL). The "U" designator also is used to qualify laboratory contaminants. The "U" designator is applied to an environmental sample when the laboratory contaminant is detected in an environmental sample at a concentration less than 5 times (10 X for common contaminants) the value of the concentration detected in any corresponding field QC blank, method blank or preparation blanks.

J — Estimated. The analyte was present, but the reported value may not be accurate or precise. The "J" designator is used to qualify an analyte that was present at a concentration between the CRQL and method detection limit (MDL) or the data "failed" some of the analytical validation criteria but did not require rejections of the data. When combined with the U designator, the quantitation limit is estimated.

R — Rejected. Data was rejected by the data validator during comparison of the NEESA Level D data package with the analytical functional guideline criteria. The "R" designator indicates a significant variance in acceptable laboratory performance. Either re-analysis or re-sampling and analysis would be necessary to determine the presence or absence of the target analyte(s).

Once the data were reviewed and validated according to the guidance presented in NEESA document 20.2-047B, the data were evaluated by Heartland using the PARCCs criteria included in the Data Quality Objectives (DQOs) of the Work Plan for Naval Construction Battalion Center (NCBC) Gulfport, Mississippi. The following sections present a brief description of PARCCs criteria.

Precision. Precision is a measure of the agreement or repeatability of a set of replicate results obtained from duplicate laboratory analyses of samples collected from the same location/depth interval. Precision was calculated from laboratory analytical data and cannot be measured directly. Precision is expressed as the Relative Percent Difference (RPD) between analytical values for two samples divided by the average of their analytical values. Precision is calculated using the expression:

$$RPD = (D1-D2) / (\tfrac{1}{2}(D1+D2)) \times 100$$

D1 and D2 are the reported values for the duplicate sample pair. Precision was evaluated using field duplicate samples and laboratory split samples (for example, MS/MSD samples).

Precision for environmental samples and their duplicates was assessed using a maximum RPD of 20 Percent for water matrix and 35 Percent for the soil matrix. Precision for MS/MSD/MD samples was assessed by using the target compound/analyte specific RPD criteria for the spiked compounds and the sample duplicates.

Accuracy. Accuracy is a measure of the agreement between an experimental determination and the true value of the parameter being measured. Accuracy can be calculated from the analytical data and was not measured directly. Accuracy is used to identify the bias in a given measurement system (i.e. laboratory conditions, sample matrix, and sampling conditions). Accuracy is assessed by reviewing the Percent Recovery (%R) between the true value of the spike compound/analyte and the actual analytical value. Accuracy is calculated using the equation:

$$\%R = ((A-B)/C) \times 100$$

A = Measured concentration of the spiked compound/analyte.
B = Measured concentration of the spiked compound/analyte in the unspiked sample.
C = True concentration of the spiked compound/analyte.

For the organic analyses, each of the samples was spiked with surrogate compounds and/or internal standard compounds; and for inorganic analyses, each chosen matrix spike and matrix duplicate pair was spiked with a known reference material before digestion. Each of these approaches provides a measure of the matrix effects on the analytical accuracy.

Representativeness. Representativeness is a qualitative measure of the degree to which sample data accurately and precisely represent a characteristic environmental condition. Representativeness is a subjective parameter and is used to evaluate the efficacy of the sampling plan design. Representativeness was evaluated using the field and laboratory QC blank sample results. QC blank samples are equipment rinseate blanks, field blanks, trip blanks, laboratory method blanks for organic and inorganic analysis. Positive detection of target analytes in the QC blank samples identify contaminants that possibly were introduced to the associated environmental sample during sample collection, transport or laboratory analysis.

Representativeness was also evaluated using the defined extraction and analytical holding time requirements set forth in the analytical methodology.

Comparability. Comparability is qualitative measure designed to express the confidence with which one data set may be compared to another. Factors that affect comparability are: sample collection and handling techniques, sample matrix type, and analytical method. Comparability is limited by the other PARCC parameters because only when precision and accuracy are known can data sets be compared with confidence.

Comparability for the dioxin/furan fraction was also discussed in terms of two (2) data sets. For those samples which were re-analyzed due to methodology non-compliances two (2) sets of analytical results are available for comparison.

Completeness. Completeness is defined as the percentage of measurements that are judged to be valid compared to the total number of measurements made. Valid usable data are values that were not qualified as rejected (R qualifier) during data validation. A goal of 95 percent usable data was established in the Work Plan for NCBC, Gulfport, Mississippi. Completeness equals the total number of analytes for each matrix minus the total number of rejected analytes divided by the total number of analytes multiplied by 100.

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2.0 PRECISION

The following section describes the evaluation of precision for volatile organic compounds, semivolatile organic compounds, pesticides and polychlorinated biphenyls (PCBs), herbicides, and dioxin/furans. Duplicate samples are evaluated for precision only when contaminants are detected in both the environmental sample and the sample's duplicate. A ND in the RPD column of the spreadsheet indicates that a RPD calculation was not required because one result was a non-detect and the other result was less than the compound/analyte CRQL/CRDL. Environmental samples and their respective duplicates may not exhibit positive results for all compounds found at or near the contract required quantitation limit (CRQL) or detection limit (CRDL) because of low levels of contamination found at a site. Duplicates with Relative Percent Differences (RPDs) within control limits indicate adequate sampling practices and/or good analytical precision. Duplicates with RPDs outside the control limits may result from inappropriate sampling procedures, matrix interferences, or non-homogeneity of the sample matrix. In addition, poor precision can be attributed to deviation(s) from the analytical methodology or to poor reproducibility of target compound/analyte concentrations at or near the required quantitation or detection limits (CRQLs or CRDLs).

For the dioxin/furan fraction, results may be reported as estimated maximum possible concentrations (EMPCs). A result is reported as an EMPC if any of the qualitative identification criteria is not met. Generally, when a result must be reported as an EMPC it is due to the matrix of the sample. Results reported as EMPCs can impact the field duplicate precision measurement because the result is report as the maximum *possible* concentration (estimated).

The acceptance criteria for evaluating precision of field duplicates analytical results is a RPD of 20 for the water matrix and 35 for the soil matrix.

The percent of duplicate samples collected for the analytical parameters and sample matrices was greater than ten percent (10%) for the water and soil matrices as specified in the Work Plan for NCBC Gulfport, Mississippi. The following Sections summarize the evaluation of analytical precision for the water and soil matrices for the following analytical groups:

- volatile compounds (VOCs);
- semivolatile compounds (SVOCs);
- pesticides, PCBs,;
- herbicides; and
- dioxin/furans.

Duplicate precision was assessed using both environmental sample and associated duplicates and matrix spike (MS)/matrix spike duplicates (MSDs).

Tabulation of the results of assessing duplicate precision and duplicate frequency are presented in Tables 2-1 through 2-5 for the water matrix. Tabulation of the results of assessing duplicate precision and duplicate frequency are presented in Tables 2-6 through 2-10 for the soil matrix. The results of the evaluation of precision for MS/MSD samples is provided in Tables 2-11 through 2-15 for the water matrix. The results of the evaluation of precision for MS/MSD samples is provided in Tables 2-16 through 2-20 for the soil matrix.

In addition, to assess whether instrument calibration for the analytical methods resulted in non-compliant duplicate precision, tables were made of initial and continuing calibration outliers which resulted in data qualification for each sample delivery group (SDG) and are included in Appendix A. There were no calibration outliers which affected the reported results for the dioxin/furan fraction. Therefore, a table was not prepared for this fraction.

As noted in the Introduction section of this report, for the Dioxin/Furan fraction, the discussion of Precision will be limited to those sample results reported for the field study which were a) reported from original analysis under

TABLE 2 - 1
GC/MS VOLATILE ORGANIC COMPOUNDS
WATER SAMPLE AND DUPLICATE PRECISION
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	SAMPLE ID	MATRIX	NO. ASSC. SAMPLES	COMPOUND	SAMPLE CONC.	DUP CONC	MAX RPD	RPD
DI102	C1001W1P1	WATER	7	NO COMPOUNDS DETECTED				
	L4001P1P1	WATER		NO COMPOUNDS DETECTED				
D1D1	D2006W1P1	WATER	7	NO COMPOUNDS DETECTED				
GULFW6	TC006W1P1	WATER	12	NO COMPOUNDS DETECTED				
	GPT44G1P1	WATER		NO COMPOUNDS DETECTED				
	TOTAL SAMPLES		26					

% OF DUPLICATES COLLECTED	RPD IN	RPD OUT	% WITHIN RPD LIMIT
19.2%	5	0	100.0%

TABLE 2 - 2
GC/MS SEMIVOLATILE ORGANIC COMPOUNDS
WATER SAMPLE AND DUPLICATE PRECISION
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	SAMPLE ID	MATRIX	NO. ASSC. SAMPLES	COMPOUND	SAMPLE CONC.	DUP CONC	MAX RPD	RPD
DI102	C1001W1P1	WATER	7	NO COMPOUNDS DETECTED				
	L4001P1P1	WATER		NO COMPOUNDS DETECTED				
D1D1	D2006W1P1	WATER	7	NO COMPOUNDS DETECTED				
GULFW6	TC006W1P1	WATER	12	NO COMPOUNDS DETECTED				
	GPT44G1P1	WATER		BIS(2-ETHYLHEXYL)PHTHALATE	0	2	20%	ND
	TOTAL SAMPLES		26					

% OF DUPLICATES COLLECTED	RPD IN	RPD OUT	% WITHIN RPD LIMIT
19.2%	5	0	100.0%

TABLE 2 - 3
PESTICIDE/PCB
WATER SAMPLE AND DUPLICATE PRECISION
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	SAMPLE ID	MATRIX	NO. ASSC. SAMPLES	COMPOUND	SAMPLE CONC.	DUP CONC	MAX RPD	RPD
DI102	C1001W1P1	WATER	7	HEPTACHLOR	0	0.026	20%	ND
				METHOXYCHLOR	0	0.031	20%	ND
	L4001P1P1	WATER		DIELDRIN	0.015	0.010	20%	40%
D1D1	D2006W1P1	WATER	7	ENDOSULFAN SULFATE	0.0051	0	20%	ND
				ENDRIN ALDEHYDE	0	0.27	20%	ND
GULFW6	TC006W1P1	WATER	12	NO COMPOUNDS DETECTED				
	GPT44G1P1	WATER		NO COMPOUNDS DETECTED				
	TOTAL SAMPLES		26					

% OF DUPLICATES COLLECTED	RPD IN	RPD OUT	% WITHIN RPD LIMIT
19.2%	6	1	85.7%

TABLE 2 - 4
HERBICIDES
WATER SAMPLE AND DUPLICATE PRECISION
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	SAMPLE ID	MATRIX	NO. ASSC. SAMPLES	COMPOUND	SAMPLE CONC.	DUP CONC	MAX RPD	RPD
DI102	C1001W1P1	WATER	7	NO COMPOUNDS DETECTED				
	L4001P1P1	WATER		NO COMPOUNDS DETECTED				
D1D1	D2006W1P1	WATER	7	NO COMPOUNDS DETECTED				
GULFW6	TC006W1P1	WATER	12	NO COMPOUNDS DETECTED				
	GPT44G1P1	WATER		NO COMPOUNDS DETECTED				
	TOTAL SAMPLES		26					

% OF DUPLICATES COLLECTED	RPD IN	RPD OUT	% WITHIN RPD LIMIT
19.2%	5	0	100.0%

TABLE 2 - 5
DIOXIN/FURANS
WATER SAMPLE AND DUPLICATE PRECISION
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	SAMPLE ID	MATRIX	NO. ASSC. SAMPLES	COMPOUND	SAMPLE CONC.	DUP CONC	MAX RPD	RPD
41776A,ARL,B	TC006W1P1	WATER	3	1,2,3,4,6,7,8,-HpCDD	0	8.2	20%	ND
				1,2,3,4,6,7,8,9-OCDD	85.6	80.2	20%	7%
				2,3,4,6,7,8-HxCDF	0	3.7	20%	ND
41844A,AR2,B	GPT44G1P1		5	1,2,3,7,8-PeCDD	1.6	0	20%	ND
				1,2,3,4,7,8-HxCDD	2	0	20%	ND
				1,2,3,6,7,8-HxCDD	2.3	0	20%	ND
				1,2,3,7,8,9,-HxCDD	6.1	11.1	20%	58%
				1,2,3,4,6,7,8,-HpCDD	33.5	57.5	20%	53%
				1,2,3,4,6,7,8,9-OCDD	461	768	20%	50%
				1,2,3,7,8,-PeCDF	2.3	0	20%	ND
				1,2,3,4,6,7,8-HpCDF	2.6	0	20%	ND
				1,2,3,4,7,8,9-HpCDF	2	2.7	20%	30%
				1,2,3,4,6,7,8,9-OCDF	5	0	20%	ND
42239	D3007W1P3		5	2,3,7,8-TCDD	0	4.3	20%	ND
				1,2,3,7,8-PeCDD	0	3.9	20%	ND
				1,2,3,4,7,8-HxCDD	0	7.4	20%	ND
				1,2,3,6,7,8-HxCDD	0	10.2	20%	ND
				1,2,3,7,8,9,-HxCDD	0	12.3	20%	ND
				1,2,3,4,6,7,8,-HpCDD	39.9	163	20%	121%
				1,2,3,4,6,7,8,9-OCDD	291	992	20%	109%
				1,2,3,4,7,8,-HxCDF	0	4.4	20%	ND
				1,2,3,6,7,8-HxCDF	0	3.2	20%	ND
				1,2,3,4,6,7,8-HpCDF	9.6	30	20%	103%
				1,2,3,4,7,8,9-HpCDF	0	5.5	20%	ND
				1,2,3,4,6,7,8,9-OCDF	23.1	57.4	20%	85%
	TOTAL SAMPLES		13					

TABLE 2 - 5
DIOXIN/FURANS
WATER SAMPLE AND DUPLICATE PRECISION
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

RESULTS WERE NOT REJECTED
RF

SDG	SAMPLE ID	MATRIX	NO. ASSC. SAMPLES	COMPOUND	SAMPLE CONC.	DUP CONC	MAX RPD	RPD
41530A,B,C,D	C1001W1P1	WATER	2	ALL POS. ~~RESULTS REJECTED~~				
41363ARL,B,C,D	D1003W1P1		5	~~ALL POS. RESULTS REJECTED~~				
41291A,ARL,&B	D2006W1P1		3	ALL POS. ~~RESULTS REJECTED~~				
41291A,ARL,&BRE	D2006W1P1			2,3,7,8-TCDD	7.8	0	20%	ND
				1,2,3,7,8-PeCDD	18.8	0	20%	ND
				1,2,3,4,7,8-HxCDD	13.1	0	20%	ND
				1,2,3,6,7,8-HxCDD	13.3	0	20%	ND
				1,2,3,7,8,9,-HxCDD	13.4	0	20%	ND
				1,2,3,4,6,7,8,-HpCDD	16.6	0	20%	ND
				1,2,3,4,6,7,8,9-OCDD	41.2	29.5	20%	33%
				2,3,7,8,-TCDF	8.7	0	20%	ND
				1,2,3,7,8,-PeCDF	16.7	0	20%	ND
				2,3,4,7,8,-PeCDF	13.6	0	20%	ND
				1,2,3,4,7,8,-HxCDF	13.9	0	20%	ND
				1,2,3,6,7,8-HxCDF	14.3	0	20%	ND
				2,3,4,6,7,8-HxCDF	15.3	8.3	20%	59%
				1,2,3,7,8,9-HxCDF	20.5	0	20%	ND
				1,2,3,4,6,7,8-HpCDF	11.1	0	20%	ND
				1,2,3,4,7,8,9-HpCDF	16.7	0	20%	ND
				1,2,3,4,6,7,8,9-OCDF	43.7	17	20%	88%
	TOTAL SAMPLES		10					

TABLE 2 - 5
DIOXIN/FURANS
WATER SAMPLE AND DUPLICATE PRECISION
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	SAMPLE ID	MATRIX	NO. ASSC. SAMPLES	COMPOUND	SAMPLE CONC.	DUP CONC	MAX RPD	RPD
41584A&B	L4001P1P1	WATER	3	ALL POS. RESULTS REJECTED				
41584A&BRE	L4001P1P1			2,3,7,8-TCDD	0	14.1	20%	ND
				1,2,3,7,8-PeCDD	0	13	20%	ND
				1,2,3,4,7,8-HxCDD	0	18.7	20%	ND
				1,2,3,6,7,8-HxCDD	0	48.5	20%	ND
				1,2,3,7,8,9,-HxCDD	0	55.7	20%	ND
				1,2,3,4,6,7,8,-HpCDD	47.5	1670	20%	189%
				1,2,3,4,6,7,8,9-OCDD	369	13000	20%	189%
				2,3,4,7,8,-PeCDF	0	10.5	20%	ND
				1,2,3,4,7,8,-HxCDF	0	70.9	20%	ND
				1,2,3,6,7,8-HxCDF	0	15.1	20%	ND
				1,2,3,4,6,7,8-HpCDF	0	498	20%	ND
				1,2,3,4,7,8,9-HpCDF	0	38.1	20%	ND
				1,2,3,4,6,7,8,9-OCDF	36.5	1170	20%	188%
	TOTAL SAMPLES		3					

% OF DUPLICATES COLLECTED	RPD IN	RPD OUT	% WITHIN RPD LIMIT
26.9%	45	14	76.3%

TABLE 2 - 6
GC/MS VOLATILE ORGANIC COMPOUNDS
SOIL SAMPLE AND DUPLICATE PRECISION
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	SAMPLE ID	MATRIX	NO. ASSC. SAMPLES	COMPOUND	SAMPLE CONC.	DUP CONC	MAX RPD	RPD
D1D1	D2006D1P1	SOIL	7	NO COMPOUNDS DETECTED				
EE01	L8013S1P1	SOIL	10	NO COMPOUNDS DETECTED				
	C1001D1P1	SOIL		ACETONE	45	130	35%	97%
				2-BUTANONE	9	14	35%	43%
GULFS7	TC006D1P1	SOIL	5	ACETONE	3	3	35%	0%
	TOTAL SAMPLES		22					

% OF DUPLICATES COLLECTED	RPD IN	RPD OUT	% WITHIN RPD LIMIT
18.2%	3	2	60.0%

TABLE 2 - 7
GC/MS SEMIVOLATILE ORGANIC COMPOUNDS
SOIL SAMPLE AND DUPLICATE PRECISION
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	SAMPLE ID	MATRIX	NO. ASSC. SAMPLES	COMPOUND	SAMPLE CONC.	DUP CONC	MAX RPD	RPD
D1D1	D2006D1P1	SOIL	7	FLUORANTHENE	48	0	35%	ND
				PYRENE	41	0	35%	ND
				BENZO(B)FLUORANTHENE	0	93	35%	ND
EE01	L8013S1P1	SOIL	10	NO COMPOUNDS DETECTED				
	C1001D1P1	SOIL		NAPHTHALENE	0	720	35%	ND
				2-METHYLNAPHTHALENE	0	400	35%	ND
				ACENAPHTHYLENE	0	460	35%	ND
				ACENAPHTHENE	0	290	35%	ND
				PHENANTHRENE	300	5700	35%	180%
				ANTHRACENE	57	780	35%	173%
				CARBOZOLE	0	680	35%	ND
				FLUORANTHENE	760	6000	35%	155%
				PYRENE	600	3700	35%	144%
				BENZO(A)ANTHRACENE	340	1700	35%	133%
				CHRYSENE	380	2300	35%	143%
				BIS(2-ETHYLHEXYL)PHTHALATE	57	0	35%	ND
				BENZO(B)FLUORANTHENE	520	2700	35%	135%
				BENZO(K)FLUORANTHENE	190	1200	35%	145%
				BENZO(A)PYRENE	250	1900	35%	153%
				INDENO(1,2,3-CD)PYRENE	130	750	35%	141%
				DIBENZO(A,H)ANTHRACENE	0	190	35%	ND
				BENZO(G,H,I)PERYLENE	100	610	35%	144%
				DIBENZOFURAN	0	640	35%	ND
				FLUORENE	0	700	35%	ND
GULFS7	TC006D1P1	SOIL	5	NO COMPOUNDS DETECTED				
	TOTAL SAMPLES		22					

% OF DUPLICATES COLLECTED	RPD IN	RPD OUT	% WITHIN RPD LIMIT
18.2%	14	11	56.0%

TABLE 2 - 8
PESTICIDE/PCB
SOIL SAMPLE AND DUPLICATE PRECISION
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	SAMPLE ID	MATRIX	NO. ASSC. SAMPLES	COMPOUND	SAMPLE CONC.	DUP CONC	MAX RPD	RPD
D1D1	D2006D1P1	SOIL	7	DIELDRIN	26	32	35%	21%
				4,4'-DDE	0.24	0.73	35%	101%
				4,4'-DDD	20	27	35%	30%
				4,4'-DDT	0	0.58	35%	ND
				ALPHA-CHLORDANE	0	0.35	35%	ND
EE01	L8013S1P1	SOIL	10	4,4'-DDT	1.2	1.9	35%	45%
	C1001D1P1	SOIL		ENDRIN KETONE	0	0.8	35%	ND
				DIELDRIN	0.49	0	35%	ND
				4,4'-DDD	0.88	0	35%	ND
				GAMMA-CHLORDANE	0.21	0.34	35%	47%
GULFS7	TC006D1P1	SOIL	5	NO COMPOUNDS DETECTED				
	TOTAL SAMPLES		**22**					

% OF DUPLICATES COLLECTED	RPD IN	RPD OUT	% WITHIN RPD LIMIT
18.2%	8	3	72.7%

TABLE 2 - 9
HERBICIDES
SOIL SAMPLE AND DUPLICATE PRECISION
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	SAMPLE ID	MATRIX	NO. ASSC. SAMPLES	COMPOUND	SAMPLE CONC.	DUP CONC	MAX RPD	RPD
D1D1	D2006D1P1	SOIL	7	NO COMPOUNDS DETECTED				
EE01	L8013S1P1	SOIL	10	NO COMPOUNDS DETECTED				
	C1001D1P1	SOIL		NO COMPOUNDS DETECTED				
GULFS7	TC006D1P1	SOIL	5	NO COMPOUNDS DETECTED				
	TOTAL SAMPLES		22					

% OF DUPLICATES COLLECTED	RPD IN	RPD OUT	% WITHIN RPD LIMIT
18.2%	4	0	100.0%

TABLE 2 - 10
DIOXIN/FURANS
SOIL SAMPLE AND DUPLICATE PRECISION
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	SAMPLE ID	MATRIX	NO. ASSC. SAMPLES	COMPOUND	SAMPLE CONC.	DUP CONC	MAX RPD	RPD
42263	D1001D1P3	SOIL	14	2,3,7,8-TCDD	58	54.7	35%	6%
				1,2,3,7,8-PeCDD	2.5	2.9	35%	15%
				1,2,3,4,7,8-HxCDD	4.8	4	35%	18%
				1,2,3,6,7,8-HxCDD	10.4	9.1	35%	13%
				1,2,3,7,8,9,-HxCDD	11.1	8.1	35%	31%
				1,2,3,4,6,7,8,-HpCDD	319	292	35%	9%
				1,2,3,4,6,7,8,9-OCDD	3190	2680	35%	17%
				2,3,7,8,-TCDF	4.1	3.6	35%	13%
				1,2,3,7,8,-PeCDF	0.97	0	35%	ND
				2,3,4,7,8,-PeCDF	0.85	0	35%	ND
				1,2,3,4,7,8,-HxCDF	3.7	4.3	35%	15%
				1,2,3,6,7,8-HxCDF	2.5	2.5	35%	0%
				2,3,4,6,7,8-HxCDF	5.1	4.7	35%	8%
				1,2,3,4,6,7,8-HpCDF	47.5	47.3	35%	0%
				1,2,3,4,7,8,9-HpCDF	2.6	2.7	35%	4%
				1,2,3,4,6,7,8,9-OCDF	165	158	35%	4%
41776A,ARL,B	TC006D1P1		4	1,2,3,6,7,8-HxCDD	0	1	35%	ND
				1,2,3,7,8,9,-HxCDD	3.4	3.8	35%	11%
				1,2,3,4,6,7,8,-HpCDD	29.6	37.5	35%	24%
				1,2,3,4,6,7,8,9-OCDD	407	561	35%	32%
				1,2,3,4,6,7,8-HpCDF	2.6	1.3	35%	67%
				1,2,3,4,6,7,8,9-OCDF	0	3.9	35%	ND
	TOTAL SAMPLES		18					

TABLE 2 - 10
DIOXIN/FURANS
SOIL SAMPLE AND DUPLICATE PRECISION
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	SAMPLE ID	MATRIX	NO. ASSC. SAMPLES	COMPOUND	SAMPLE CONC.	DUP CONC	MAX RPD	RPD
41844 A,AR2,B	WL010D1P1	SOIL	10	2,3,7,8-TCDD	8.4	12.4	35%	38%
				1,2,3,4,7,8-HxCDD	1.1	1.1	35%	0%
				1,2,3,6,7,8-HxCDD	3.3	3.1	35%	6%
				1,2,3,7,8,9,-HxCDD	3.5	2.1	35%	50%
				1,2,3,4,6,7,8,-HpCDD	72.2	79.5	35%	10%
				1,2,3,4,6,7,8,9-OCDD	581	751	35%	26%
				2,3,7,8,-TCDF	3.3	4.9	35%	39%
				1,2,3,4,7,8,-HxCDF	1.7	2.3	35%	30%
				1,2,3,6,7,8-HxCDF	0	0.97	35%	ND
				1,2,3,4,6,7,8-HpCDF	14.1	12.9	35%	9%
				1,2,3,4,6,7,8,9-OCDF	57.6	64.6	35%	11%
42239	D2001D1P3		10	2,3,7,8-TCDD	3830	3910	35%	2%
				1,2,3,7,8-PeCDD	18.9	18.6	35%	2%
				1,2,3,4,7,8-HxCDD	25	25.8	35%	3%
				1,2,3,6,7,8-HxCDD	54.7	59.7	35%	9%
				1,2,3,7,8,9,-HxCDD	51.3	54	35%	5%
				1,2,3,4,6,7,8,-HpCDD	1690	1790	35%	6%
				1,2,3,4,6,7,8,9-OCDD	15140	16020	35%	6%
				2,3,7,8,-TCDF	136	144	35%	6%
				1,2,3,7,8,-PeCDF	6	5.6	35%	7%
				2,3,4,7,8,-PeCDF	5	5.6	35%	11%
				1,2,3,4,7,8,-HxCDF	20.6	21.1	35%	2%
				1,2,3,6,7,8-HxCDF	13.8	17.1	35%	21%
				2,3,4,6,7,8-HxCDF	29.6	17.7	35%	50%
				1,2,3,4,6,7,8-HpCDF	315	336	35%	6%
				1,2,3,4,7,8,9-HpCDF	13.4	16.2	35%	19%
				1,2,3,4,6,7,8,9-OCDF	1100	1060	35%	4%
	TOTAL SAMPLES		20					

TABLE 2 - 10
DIOXIN/FURANS
SOIL SAMPLE AND DUPLICATE PRECISION
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

~~NOT REJECTED~~ SAMPLES WERE RE-ANALYZED

SDG	SAMPLE ID	MATRIX	NO. ASSC. SAMPLES	COMPOUND	SAMPLE CONC.	DUP CONC	MAX RPD	RPD
41516 A,B,C,D	D1015D1P1	SOIL	17	~~ALL POS. RESULTS REJECTED~~				
	D3007D1P1			~~ALL POS. RESULTS REJECTED~~				
	L8031S1P1			~~ALL POS. RESULTS REJECTED~~				
41516 A,B,C,DRE	D1015D1P1			2,3,7,8-TCDD	95.6	80.3	35%	17%
				1,2,3,7,8-PeCDD	3.9	3.2	35%	20%
				1,2,3,4,7,8-HxCDD	6.3	4.7	35%	29%
				1,2,3,6,7,8-HxCDD	16.8	14.1	35%	17%
				1,2,3,7,8,9,-HxCDD	16.7	14.2	35%	16%
				1,2,3,4,6,7,8,-HpCDD	424	369	35%	14%
				1,2,3,4,6,7,8,9-OCDD	3240	2700	35%	18%
				2,3,7,8,-TCDF	15.6	13	35%	18%
				1,2,3,4,7,8,-HxCDF	7.5	5.7	35%	27%
				1,2,3,6,7,8-HxCDF	4.9	4	35%	20%
				2,3,4,6,7,8-HxCDF	5.6	4.3	35%	26%
				1,2,3,4,6,7,8-HpCDF	78.9	64.3	35%	20%
				1,2,3,4,7,8,9-HpCDF	6.7	4.9	35%	31%
				1,2,3,4,6,7,8,9-OCDF	170	141	35%	19%
	TOTAL SAMPLES		17					

TABLE 2 - 10
DIOXIN/FURANS
SOIL SAMPLE AND DUPLICATE PRECISION
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	SAMPLE ID	MATRIX	NO. ASSC. SAMPLES	COMPOUND	SAMPLE CONC.	DUP CONC	MAX RPD	RPD
41516 A,B,C,DRE CONTINUED	D3007D1P1	SOIL		1,2,3,7,8-PeCDD	0	2.6	35%	ND
				1,2,3,4,7,8-HxCDD	0	4.5	35%	ND
				1,2,3,6,7,8-HxCDD	0	8.5	35%	ND
				1,2,3,7,8,9,-HxCDD	0	9.4	35%	ND
				1,2,3,4,6,7,8,-HpCDD	68	146	35%	73%
				1,2,3,4,6,7,8,9-OCDD	623	1040	35%	50%
				1,2,3,4,7,8,-HxCDF	0	2.9	35%	ND
				1,2,3,6,7,8-HxCDF	0	1.9	35%	ND
				2,3,4,6,7,8-HxCDF	0	3.4	35%	ND
				1,2,3,4,6,7,8-HpCDF	12.7	27	35%	72%
				1,2,3,4,7,8,9-HpCDF	0	1.8	35%	ND
				1,2,3,4,6,7,8,9-OCDF	41.7	65.7	35%	45%
	L8031S1P1			2,3,7,8-TCDD	3.6	4.2	35%	15%
				1,2,3,7,8-PeCDD	5.1	6.6	35%	26%
				1,2,3,4,7,8-HxCDD	14.1	16	35%	13%
				1,2,3,6,7,8-HxCDD	28.2	31.7	35%	12%
				1,2,3,7,8,9,-HxCDD	31.8	36.2	35%	13%
				1,2,3,4,6,7,8,-HpCDD	977	1070	35%	9%
				1,2,3,4,6,7,8,9-OCDD	7710	7830	35%	2%
				2,3,7,8,-TCDF	2	2.2	35%	10%
				1,2,3,7,8,-PeCDF	1.6	1.9	35%	17%
				2,3,4,7,8,-PeCDF	2.2	2.6	35%	17%
				1,2,3,4,7,8,-HxCDF	27.8	17.5	35%	45%
				1,2,3,6,7,8-HxCDF	11.9	13.2	35%	10%
				2,3,4,6,7,8-HxCDF	15.3	17.3	35%	12%
				1,2,3,7,8,9-HxCDF	0	0.38	35%	ND
				1,2,3,4,6,7,8-HpCDF	214	242	35%	12%
				1,2,3,4,7,8,9-HpCDF	13.9	15.3	35%	10%
				1,2,3,4,6,7,8,9-OCDF	400	471	35%	16%
				1,2,3,4,6,7,8,9-OCDF	400	471	35%	16%
	TOTAL SAMPLES		0					

TABLE 2 - 10
DIOXIN/FURANS
SOIL SAMPLE AND DUPLICATE PRECISION
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	SAMPLE ID	MATRIX	NO. ASSC. SAMPLES	COMPOUND	SAMPLE CONC.	DUP CONC	MAX RPD	RPD
41574A,B,C	L8013S1P1	SOIL	8	ALL POS. RESULTS REJECTED				
41574A,B,CRE	L8013S1P1			2,3,7,8-TCDD	0	1.7	35%	ND
				1,2,3,6,7,8-HxCDD	0	0.59	35%	ND
				1,2,3,7,8,9,-HxCDD	0	0.38	35%	ND
				1,2,3,4,6,7,8,-HpCDD	12.2	13.7	35%	12%
				1,2,3,4,6,7,8,9-OCDD	345	335	35%	3%
				2,3,7,8,-TCDF	0	0.71	35%	ND
				2,3,4,7,8,-PeCDF	0	0.46	35%	ND
				1,2,3,4,7,8,-HxCDF	0	2.8	35%	ND
				1,2,3,6,7,8-HxCDF	0	0.71	35%	ND
				2,3,4,6,7,8-HxCDF	0	2.6	35%	ND
				1,2,3,4,6,7,8-HpCDF	8.6	11	35%	24%
				1,2,3,4,6,7,8,9-OCDF	0	9.5	35%	ND
	TOTAL SAMPLES		8					

TABLE 2 - 10
DIOXIN/FURANS
SOIL SAMPLE AND DUPLICATE PRECISION
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	SAMPLE ID	MATRIX	NO. ASSC. SAMPLES	COMPOUND	SAMPLE CONC.	DUP CONC	MAX RPD	RPD
41530A,B,C,D	C1001D1P1	SOIL	19	ALL POS. RESULTS REJECTED				
	L8020S1P1			ALL POS. RESULTS REJECTED				
41530A,B,C,DRE	C1001D1P1			1,2,3,7,8-PeCDD	1.9	2.2	35%	15%
				1,2,3,4,7,8-HxCDD	2.9	2.7	35%	7%
				1,2,3,6,7,8-HxCDD	6	5.2	35%	14%
				1,2,3,7,8,9,-HxCDD	6	5.3	35%	12%
				1,2,3,4,6,7,8,-HpCDD	98.2	82.8	35%	17%
				1,2,3,4,6,7,8,9-OCDD	749	668	35%	11%
				2,3,7,8,-TCDF	0.59	0	35%	ND
				2,3,4,7,8,-PeCDF	0	0.51	35%	ND
				1,2,3,4,7,8,-HxCDF	5.6	4.6	35%	20%
				1,2,3,6,7,8-HxCDF	1.6	1.4	35%	13%
				2,3,4,6,7,8-HxCDF	0.74	0.97	35%	27%
				1,2,3,4,6,7,8-HpCDF	22.22	18.2	35%	20%
				1,2,3,4,7,8,9-HpCDF	2	1.9	35%	5%
				1,2,3,4,6,7,8,9-OCDF	51.6	56.5	35%	9%
	L8020S1P1			2,3,7,8-TCDD	0.88	0.56	35%	44%
				1,2,3,4,6,7,8,-HpCDD	7	6.8	35%	3%
				1,2,3,4,6,7,8,9-OCDD	311	282	35%	10%
				1,2,3,4,7,8,-HxCDF	0.8	0	35%	ND
				2,3,4,6,7,8-HxCDF	0.93	0	35%	ND
				1,2,3,4,6,7,8-HpCDF	3.3	2.8	35%	16%
				1,2,3,4,6,7,8,9-OCDF	2.1	2.2	35%	5%
	TOTAL SAMPLES		19					

TABLE 2 - 10
DIOXIN/FURANS
SOIL SAMPLE AND DUPLICATE PRECISION
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	SAMPLE ID	MATRIX	NO. ASSC. SAMPLES	COMPOUND	SAMPLE CONC.	DUP CONC	MAX RPD	RPD
41363ARL,B,C,D	L8004S1P1	SOIL	15	ALL POS. RESULTS REJECTED				
	D1003D1P1			2,3,7,8-TCDD	118	150	35%	24%
				1,2,3,7,8-PeCDD	1.9	3.2	35%	51%
				1,2,3,4,7,8-HxCDD	0.92	1.1	35%	18%
				1,2,3,6,7,8-HxCDD	1.9	2.6	35%	31%
				1,2,3,7,8,9,-HxCDD	2.5	3.3	35%	28%
				1,2,3,4,6,7,8,-HpCDD	41	46.6	35%	13%
				1,2,3,4,6,7,8,9-OCDD	612	674	35%	10%
				2,3,7,8,-TCDF	17.5	22.5	35%	25%
				1,2,3,7,8-PeCDF	0	0.66	35%	ND
				2,3,4,7,8-PeCDF	0	0.76	35%	ND
				1,2,3,4,6,7,8-HpCDF	11.1	12.9	35%	15%
				1,2,3,4,7,8,9-HpCDF	0.86	0.75	35%	14%
				1,2,3,4,6,7,8,9-OCDF	27.4	28.9	35%	5%
	TOTAL SAMPLES		15					

TABLE 2 - 10
DIOXIN/FURANS
SOIL SAMPLE AND DUPLICATE PRECISION
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	SAMPLE ID	MATRIX	NO. ASSC. SAMPLES	COMPOUND	SAMPLE CONC.	DUP CONC	MAX RPD	RPD
41291A,ARL,&B	D2006D1P1	SOIL	9	1,2,3,4,6,7,8,-HpCDD	21.9	#	35%	ND
				1,2,3,4,6,7,8,9-OCDD	225	#	35%	ND
				1,2,3,4,6,7,8-HpCDF	3.8	#	35%	ND
				1,2,3,4,6,7,8,9-OCDF	19	#	35%	ND
41291A,ARL,&BRE	D2006D1P1			1,2,3,6,7,8-HxCDD	0	0.54	35%	ND
				1,2,3,7,8,9,-HxCDD	0	1	35%	ND
				1,2,3,4,6,7,8,-HpCDD	19.8	19.8	35%	0%
				1,2,3,4,6,7,8,9-OCDD	213	207	35%	3%
				1,2,3,4,7,8,-HxCDF	0	0.59	35%	ND
				1,2,3,6,7,8-HxCDF	0	0.25	35%	ND
				2,3,4,6,7,8-HxCDF	0	0.64	35%	ND
				1,2,3,4,6,7,8-HpCDF	6.1	5.3	35%	14%
				1,2,3,4,6,7,8,9-OCDF	15.8	13.7	35%	14%
	TOTAL SAMPLES		9					

- ALL POSITIVE RESULTS WERE REJECTED

TABLE 2 - 10
DIOXIN/FURANS
SOIL SAMPLE AND DUPLICATE PRECISION
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	SAMPLE ID	MATRIX	NO. ASSC. SAMPLES	COMPOUND	SAMPLE CONC.	DUP CONC	MAX RPD	RPD
41300A,B,C,D	D5011D1P1	SOIL	20	ALL POS. RESULTS REJECTED				
	D3002D1P1			ALL POS. RESULTS REJECTED				
41300A,B,C,DRE	D5011D1P1			2,3,7,8-TCDD	3.5	0	35%	ND
				1,2,3,4,7,8-HxCDD	3.2	0	35%	ND
				1,2,3,6,7,8-HxCDD	10.4	0	35%	ND
				1,2,3,7,8,9,-HxCDD	11.5	0	35%	ND
				1,2,3,4,6,7,8,-HpCDD	316	457	35%	36%
				1,2,3,4,6,7,8,9-OCDD	3530	4800	35%	30%
				2,3,7,8,-TCDF	2.2	0	35%	ND
				1,2,3,4,7,8,-HxCDF	25.3	34.7	35%	31%
				1,2,3,6,7,8-HxCDF	3.6	0	35%	ND
				2,3,4,6,7,8-HxCDF	3.8	0	35%	ND
				1,2,3,4,6,7,8-HpCDF	42.7	0	35%	ND
				1,2,3,4,7,8,9-HpCDF	4.5	0	35%	ND
				1,2,3,4,6,7,8,9-OCDF	151	617	35%	121%
	D3002D1P1			1,2,3,7,8,9,-HxCDD	0	2.4	35%	ND
				1,2,3,4,6,7,8,-HpCDD	144	148	35%	3%
				1,2,3,4,6,7,8,9-OCDD	1450	1440	35%	1%
				1,2,3,4,6,7,8-HpCDF	23.2	18.6	35%	22%
				1,2,3,4,6,7,8,9-OCDF	183	202	35%	10%
	TOTAL SAMPLES		20					

TABLE 2 - 10
DIOXIN/FURANS
SOIL SAMPLE AND DUPLICATE PRECISION
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	SAMPLE ID	MATRIX	NO. ASSC. SAMPLES	COMPOUND	SAMPLE CONC.	DUP CONC	MAX RPD	RPD
41565ARL,B,C	WM005D1P1	SOIL	12	ALL POS. RESULTS REJECTED				
41565ARL,B,CRE	WM005D1P1			1,2,3,7,8,9,-HxCDD	4.5	3.9	35%	14%
				1,2,3,4,6,7,8,-HpCDD	49	34.2	35%	36%
				1,2,3,4,6,7,8,9-OCDD	926	603	35%	42%
				1,2,3,4,6,7,8-HpCDF	2.3	1.7	35%	30%
				1,2,3,4,6,7,8,9-OCDF	6	3.3	35%	58%
41327A,B,C	D6002D1P1		20	ALL POS. RESULTS REJECTED				
41327A,B,CRE	D6002D1P1			1,2,3,6,7,8-HxCDD	0.63	0	35%	ND
				1,2,3,7,8,9,-HxCDD	1	0	35%	ND
				1,2,3,4,6,7,8,-HpCDD	13.1	13.4	35%	2%
				1,2,3,4,6,7,8,9-OCDD	471	642	35%	31%
				1,2,3,4,7,8,-HxCDF	2.1	0	35%	ND
				2,3,4,6,7,8-HxCDF	0.61	0	35%	ND
				1,2,3,4,6,7,8-HpCDF	1.8	1.3	35%	32%
				1,2,3,4,7,8,9-HpCDF	0.54	0	35%	ND
				1,2,3,4,6,7,8,9-OCDF	3.4	3.9	35%	14%
	TOTAL SAMPLES		32					

% OF DUPLICATES COLLECTED	RPD IN	RPD OUT	% WITHIN RPD LIMIT
10.8%	178	17	91.3%

TABLE 2 - 11
VOLATILE ORGANICS COMPOUNDS
WATER SAMPLE MATRIX SPIKE/MATRIX SPIKE DUPLICATES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

MS = MATRIX SPIKE *SAMPLE D2006W1P1*		SDG D1D1		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
VOA COMPOUNDS	UNITS			
1,1-DICHLOROETHENE	µg/L	98	104	6
BENZENE	µg/L	96	106	10
TRICHLOROETHENE	µg/L	88	96	9
TOLUENE	µg/L	100	108	8
CHLOROBENZENE	µg/L	94	104	10

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

D1D1: D2003W1P1, D2006W1D1, QATB101, D2006W1P1, D5013W1P1, D5009W1P1, QATB102, D3005W1P1, D3003W1P1, QADI101, QARI101

MS = MATRIX SPIKE *SAMPLE C1001W1P1*		SDG DI102		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
VOA COMPOUNDS	UNITS			
1,1-DICHLOROETHENE	µg/L	92	98	6
BENZENE	µg/L	84	92	9
TRICHLOROETHENE	µg/L	80	84	5
TOLUENE	µg/L	90	98	8
CHLOROBENZENE	µg/L	92	98	6

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

DI102: QADI102, QARI103, QATB105, C1001W1P1, C1001W1D1, QATB106, WM002W1P1, QATB107, TC002W1P1, QARI104, QATB108, L4001P1D1, L4002P1P1, L4001P1P1, QATB109, QARI105, QATB110

COMPOUND	ADVISORY LIMITS	RPD
	%R WATER	WATER
1,1-DICHLOROETHENE	61%-145%	14
BENZENE	76%-127%	11
TRICHLOROETHENE	71%-120%	14
TOLUENE	76%-125%	13
CHLOROBENZENE	75%-130%	13

TABLE 2 - 11
VOLATILE ORGANICS COMPOUNDS
WATER SAMPLE MATRIX SPIKE/MATRIX SPIKE DUPLICATES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

MS = MATRIX SPIKE *SAMPLE L4001P1P1*		SDG DI102		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
VOA COMPOUNDS	**UNITS**			
1,1-DICHLOROETHENE	µg/L	90	102	12
BENZENE	µg/L	98	108	10
TRICHLOROETHENE	µg/L	92	96	4
TOLUENE	µg/L	102	108	6
CHLOROBENZENE	µg/L	102	108	6

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

DI102: QADI102, QARI103, QATB105, C1001W1P1, C1001W1D1, QATB106, WM002W1P1, QATB107, TC002W1P1, QARI104, QATB108, L4001P1D1, L4002P1P1, L4001P1P1, QATB109, QARI105, QATB110

MS = MATRIX SPIKE *SAMPLE TC006W1P1*		SDG GULFW6		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
VOA COMPOUNDS	**UNITS**			
1,1-DICHLOROETHENE	µg/L	96	102	6
BENZENE	µg/L	92	100	8
TRICHLOROETHENE	µg/L	86	98	13
TOLUENE	µg/L	92	100	8
CHLOROBENZENE	µg/L	88	98	11

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

GULFW6: QADI103, TC006W1P1, TC006W1D1, QARI108, QATB111, QATB112, BB003W1P1, GPT45G1P1, GPT44G1P1, GPT44G1D1, QATB113, QARI109, BC003W1P1, GPT54G1P1, GPT55G1P1, GPT56G1P1, GPT47G1P1, GPT46G1P1, QATB114, QARI110, QARI111

COMPOUND	ADVISORY LIMITS	RPD
	%R WATER	WATER
1,1-DICHLOROETHENE	61%-145%	14
BENZENE	76%-127%	11
TRICHLOROETHENE	71%-120%	14
TOLUENE	76%-125%	13
CHLOROBENZENE	75%-130%	13

TABLE 2 - 11
VOLATILE ORGANICS COMPOUNDS
WATER SAMPLE MATRIX SPIKE/MATRIX SPIKE DUPLICATES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

MS = MATRIX SPIKE *SAMPLE GPT44G1P1*		SDG GULFW6		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
VOA COMPOUNDS	UNITS			
1,1-DICHLOROETHENE	µg/L	94	104	10
BENZENE	µg/L	98	108	10
TRICHLOROETHENE	µg/L	90	102	12
TOLUENE	µg/L	100	112	11
CHLOROBENZENE	µg/L	98	108	10

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

GULFW6: QADI103, TC006W1P1, TC006W1D1, QARI108, QATB111, QATB112, BB003W1P1, GPT45G1P1, GPT44G1P1, GPT44G1D1, QATB113, QARI109, BC003W1P1, GPT54G1P1, GPT55G1P1, GPT56G1P1, GPT47G1P1, GPT46G1P1, QATB114, QARI110, QARI111

COMPOUND	ADVISORY LIMITS		RPD
	%R WATER		WATER
1,1-DICHLOROETHENE	61%-145%		14
BENZENE	76%-127%		11
TRICHLOROETHENE	71%-120%		14
TOLUENE	76%-125%		13
CHLOROBENZENE	75%-130%		13

TABLE 2 - 12
SEMIVOLATILE ORGANICS COMPOUNDS
WATER SAMPLE MATRIX SPIKE/MATRIX SPIKE DUPLICATES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

MS = MATRIX SPIKE *SAMPLE D2006W1P1*		SDG D1D1		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
SVOA COMPOUNDS	UNITS			
PHENOL	µg/L	67	68	1
2-CHLOROPHENOL	µg/L	73	72	1
1,4-DICHLOROBENZENE	µg/L	70	68	3
N-NITROSO-DI-N-PROPYLAMINE	µg/L	66	62	6
1,2,4-TRICHLOROBENZENE	µg/L	76	80	5
4-CHLORO-3-METHYLPHENOL	µg/L	91	87	4
ACENAPHTHENE	µg/L	82	76	8
4-NITROPHENOL	µg/L	100*	84*	17
2,4-DINITROTOLUENE	µg/L	96	84	13
PENTACHLOROPHENOL	µg/L	80	80	0
PYRENE	µg/L	106	88	18

* DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

D1D1: D2003W1P1, D2006W1D1, D2006W1P1, D5013W1P1, D5009W1P1, D3005W1P1, D3003W1P1, QADI101, QARI101

MS = MATRIX SPIKE *SAMPLE C1001W1P1*		SDG DI102		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
SVOA COMPOUNDS	UNITS			
PHENOL	µg/L	68	67	1
2-CHLOROPHENOL	µg/L	73	67	8
1,4-DICHLOROBENZENE	µg/L	76	70	8
N-NITROSO-DI-N-PROPYLAMINE	µg/L	68	62	9
1,2,4-TRICHLOROBENZENE	µg/L	76	70	8
4-CHLORO-3-METHYLPHENOL	µg/L	87	85	2
ACENAPHTHENE	µg/L	78	74	5
4-NITROPHENOL	µg/L	67	56	18
2,4-DINITROTOLUENE	µg/L	84	78	7
PENTACHLOROPHENOL	µg/L	100	91	9
PYRENE	µg/L	74	68	8

* DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

DI102: QADI102, QARI103, C1001W1P1, C1001W1D1, WM002W1P1, TC002W1P1, QARI104, L4001P1D1, L4002P1P1, L4001P1P1, QARI105

COMPOUND	ADVISORY LIMITS	RPD
	% R WATER	WATER
PHENOL	12%-110%	42
2-CHLOROPHENOL	27%-123%	40
1,4-DICHLOROBENZENE	36%-97%	28
N-NITROSO-DI-N-PROP.(1)	41%-116%	38
1,2,4-TRICHLOROBENZENE	39%-98%	28
4-CHLORO-3-METHYLPHENOL	23%-97%	42
ACENAPHTHENE	46%-118%	31
4-NITROPHENOL	10%-80%	50
2,4-DINITROTOLUENE	24%-96%	38
PENTACHLOROPHENOL	9%-103%	50
PYRENE	26%-127%	31

TABLE 2 - 12
SEMIVOLATILE ORGANICS COMPOUNDS
WATER SAMPLE MATRIX SPIKE/MATRIX SPIKE DUPLICATES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

MS = MATRIX SPIKE *SAMPLE L4001P1P1*		SDG DI102		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
SVOA COMPOUNDS	**UNITS**			
PHENOL	µg/L	68	64	6
2-CHLOROPHENOL	µg/L	67	71	6
1,4-DICHLOROBENZENE	µg/L	70	72	3
N-NITROSO-DI-N-PROPYLAMINE	µg/L	62	68	9
1,2,4-TRICHLOROBENZENE	µg/L	76	80	5
4-CHLORO-3-METHYLPHENOL	µg/L	87	103*	17
ACENAPHTHENE	µg/L	82	84	2
4-NITROPHENOL	µg/L	71	72	1
2,4-DINITROTOLUENE	µg/L	72	96	28
PENTACHLOROPHENOL	µg/L	95	104*	9
PYRENE	µg/L	92	100	8

* DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

DI102: QADI102, QARI103, C1001W1P1, C1001W1D1, WM002W1P1, TC002W1P1, QARI104, L4001P1D1, L4002P1P1, L4001P1P1, QARI105

MS = MATRIX SPIKE *SAMPLE GPT44G1P1*		SDG GULFW6		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
SVOA COMPOUNDS	**UNITS**			
PHENOL	µg/L	61	63	3
2-CHLOROPHENOL	µg/L	72	73	1
1,4-DICHLOROBENZENE	µg/L	72	72	0
N-NITROSO-DI-N-PROPYLAMINE	µg/L	68	70	3
1,2,4-TRICHLOROBENZENE	µg/L	66	68	3
4-CHLORO-3-METHYLPHENOL	µg/L	97	100*	3
ACENAPHTHENE	µg/L	80	84	5
4-NITROPHENOL	µg/L	45	39	14
2,4-DINITROTOLUENE	µg/L	72	60	18
PENTACHLOROPHENOL	µg/L	80	87	8
PYRENE	µg/L	72	70	3

* DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

GULFW6: QADI103, TC006W1P1, TC006W1D1, QARI108, BB003W1P1, GPT45G1P1, GPT44G1P1, GPT44G1D1, QARI109, BC003W1P1, GPT54G1P1, GPT55G1P1, GPT56G1P1, GPT47G1P1, GPT46G1P1, QARI110, QARI111

COMPOUND	ADVISORY LIMITS	RPD
	% R WATER	WATER
PHENOL	12%-110%	42
2-CHLOROPHENOL	27%-123%	40
1,4-DICHLOROBENZENE	36%-97%	28
N-NITROSO-DI-N-PROP.(1)	41%-116%	38
1,2,4-TRICHLOROBENZENE	39%-98%	28
4-CHLORO-3-METHYLPHENOL	23%-97%	42
ACENAPHTHENE	46%-118%	31
4-NITROPHENOL	10%-80%	50
2,4-DINITROTOLUENE	24%-96%	38
PENTACHLOROPHENOL	9%-103%	50
PYRENE	26%-127%	31

TABLE 2 - 12
SEMIVOLATILE ORGANICS COMPOUNDS
WATER SAMPLE MATRIX SPIKE/MATRIX SPIKE DUPLICATES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

MS = MATRIX SPIKE *SAMPLE TC006W1P1*		SDG GULFW6		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
SVOA COMPOUNDS	**UNITS**			
PHENOL	µg/L	67	64	4
2-CHLOROPHENOL	µg/L	76	72	5
1,4-DICHLOROBENZENE	µg/L	70	68	3
N-NITROSO-DI-N-PROPYLAMINE	µg/L	62	60	3
1,2,4-TRICHLOROBENZENE	µg/L	64	64	0
4-CHLORO-3-METHYLPHENOL	µg/L	92	83	10
ACENAPHTHENE	µg/L	80	78	2
4-NITROPHENOL	µg/L	88*	84*	5
2,4-DINITROTOLUENE	µg/L	80	84	5
PENTACHLOROPHENOL	µg/L	80	81	1
PYRENE	µg/L	88	100	13

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

GULFW6: QADI103, TC006W1P1, TC006W1D1, QARI108, BB003W1P1, GPT45G1P1, GPT44G1P1, GPT44G1D1, QARI109, BC003W1P1, GPT54G1P1, GPT55G1P1, GPT56G1P1, GPT47G1P1, GPT46G1P1, QARI110, QARI111

COMPOUND	ADVISORY LIMITS	RPD
	% R WATER	WATER
PHENOL	12%-110%	42
2-CHLOROPHENOL	27%-123%	40
1,4-DICHLOROBENZENE	36%-97%	28
N-NITROSO-DI-N-PROP.(1)	41%-116%	38
1,2,4-TRICHLOROBENZENE	39%-98%	28
4-CHLORO-3-METHYLPHENOL	23%-97%	42
ACENAPHTHENE	46%-118%	31
4-NITROPHENOL	10%-80%	50
2,4-DINITROTOLUENE	24%-96%	38
PENTACHLOROPHENOL	9%-103%	50
PYRENE	26%-127%	31

TABLE 2 - 13
PESTICIDES/PCBS
WATER SAMPLE MATRIX SPIKE/MATRIX SPIKE DUPLICATES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

MS = MATRIX SPIKE *SAMPLE D2006W1P1*		SDG D1D1		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
PEST COMPOUNDS	UNITS			
GAMMA-BHC (LINDANE)	µg/L	80	84	5
HEPTACHLOR	µg/L	84	88	5
ALDRIN	µg/L	84	88	5
DIELDRIN	µg/L	82	88	7
ENDRIN	µg/L	90	96	6
4,4'-DDT	µg/L	90	95	5

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG AND ASSOCIATED SAMPLES

D1D1: D2003W1P1, D2006W1D1, D2006W1P1, D5013W1P1, D5009W1P1, D3005W1P1, D3003W1P1, QADI101, QARI101

MS = MATRIX SPIKE *SAMPLE C1001W1P1*		SDG DI102		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
PEST COMPOUNDS	UNITS			
GAMMA-BHC (LINDANE)	µg/L	78	104	15
HEPTACHLOR	µg/L	62	116	20
ALDRIN	µg/L	70	88	22
DIELDRIN	µg/L	76	94	18
ENDRIN	µg/L	79	110	21
4,4'-DDT	µg/L	75	83	27

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG AND ASSOCIATED SAMPLES

DI102: QADI102, QARI103, C1001W1P1, C1001W1D1, WM002W1P1, TC002W1P1, QARI104, L4001P1D1, L4002P1P1, L4001P1P1, QARI105

COMPOUND	ADVISORY LIMITS	RPD
	% R WATER	WATER
GAMMA-BHC (LINDANE)	56%-123%	15
HEPTACHLOR	40%-131%	20
ALDRIN	40%-120%	22
DIELDRIN	52%-126%	18
ENDRIN	56%-121%	21
4,4'-DDT	38%-127%	27

TABLE 2 - 13
PESTICIDES/PCBS
WATER SAMPLE MATRIX SPIKE/MATRIX SPIKE DUPLICATES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

MS = MATRIX SPIKE *SAMPLE L4001P1P1*		SDG DI102		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
PEST COMPOUNDS	UNITS			
GAMMA-BHC (LINDANE)	µg/L	64	60	6
HEPTACHLOR	µg/L	54	56	4
ALDRIN	µg/L	54	64	17
DIELDRIN	µg/L	62	62	0
ENDRIN	µg/L	67	68	1
4,4'-DDT	µg/L	46	58	23

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG AND ASSOCIATED SAMPLES

DI102: QADI102, QARI103, C1001W1P1, C1001W1D1, WM002W1P1, TC002W1P1, QARI104, L4001P1D1, L4002P1P1, L4001P1P1, QARI105

MS = MATRIX SPIKE *SAMPLE GPT44G1P1*		SDG GULFW6		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
PEST COMPOUNDS	UNITS			
GAMMA-BHC (LINDANE)	µg/L	50*	38*	27*
HEPTACHLOR	µg/L	44	36*	20
ALDRIN	µg/L	48	36*	28*
DIELDRIN	µg/L	51*	39*	27*
ENDRIN	µg/L	55*	42*	27*
4,4'-DDT	µg/L	50	39	25

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG AND ASSOCIATED SAMPLES

GULFW6: QADI103, TC006W1P1, TC006W1D1, QARI108, BB003W1P1, GPT45G1P1, GPT44G1P1, GPT44G1D1, QARI109, BC003W1P1, GPT54G1P1, GPT55G1P1, GPT56G1P1, GPT47G1P1, GPT46G1P1, QARI110, QARI111

COMPOUND	ADVISORY LIMITS	RPD
	% R WATER	WATER
GAMMA-BHC (LINDANE)	56%-123%	15
HEPTACHLOR	40%-131%	20
ALDRIN	40%-120%	22
DIELDRIN	52%-126%	18
ENDRIN	56%-121%	21
4,4'-DDT	38%-127%	27

TABLE 2 - 13
PESTICIDES/PCBS
WATER SAMPLE MATRIX SPIKE/MATRIX SPIKE DUPLICATES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

MS = MATRIX SPIKE *SAMPLE TC006W1P1*		SDG GULFW6		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
PEST COMPOUNDS	UNITS			
GAMMA-BHC (LINDANE)	µg/L	90	96	6
HEPTACHLOR	µg/L	78	82	5
ALDRIN	µg/L	84	86	2
DIELDRIN	µg/L	86	88	2
ENDRIN	µg/L	93	95	2
4,4'-DDT	µg/L	89	84	6

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG AND ASSOCIATED SAMPLES

GULFW6: QADI103, TC006W1P1, TC006W1D1, QARI108, BB003W1P1, GPT45G1P1, GPT44G1P1, GPT44G1D1, QARI109, BC003W1P1, GPT54G1P1, GPT55G1P1, GPT56G1P1, GPT47G1P1, GPT46G1P1, QARI110, QARI111

COMPOUND	ADVISORY LIMITS		RPD
	% R WATER		WATER
GAMMA-BHC (LINDANE)	56%-123%		15
HEPTACHLOR	40%-131%		20
ALDRIN	40%-120%		22
DIELDRIN	52%-126%		18
ENDRIN	56%-121%		21
4,4'-DDT	38%-127%		27

TABLE 2 - 14
HERBICIDES
WATER SAMPLE MATRIX SPIKE/MATRIX SPIKE DUPLICATES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

MS = MATRIX SPIKE *SAMPLE D2006W1P1*		SDG D1D1		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
HERB COMPOUNDS	UNITS			
2,4-D	µg/L	82	89	7
2,4,5-TP (SILVEX)	µg/L	85	87	3
2,4,5-T	µg/L	82	86	5

* DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS

CORRESPONDING SDG AND ASSOCIATED SAMPLES

D1D1: D2003W1P1, D2006W1D1, D2006W1P1, D5013W1P1, D5009W1P1, D3005W1P1, D3003W1P1, QADI101, QARI101

MS = MATRIX SPIKE *SAMPLE C1001W1P1*		SDG DI102		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
HERB COMPOUNDS	UNITS			
2,4-D	µg/L	77	84	9
2,4,5-TP (SILVEX)	µg/L	76	73	3
2,4,5-T	µg/L	75	70	7

* DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS

CORRESPONDING SDG AND ASSOCIATED SAMPLES

DI102: QADI102, QARI103, C1001W1P1, C1001W1D1, WM002W1P1, TC002W1P1, QARI104, L4001P1D1, L4002P1P1, L4001P1P1, QARI105

MS = MATRIX SPIKE *SAMPLE L4001P1P1*		SDG DI102		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
HERB COMPOUNDS	UNITS			
2,4-D	µg/L	88	92	5
2,4,5-TP (SILVEX)	µg/L	80	79	1
2,4,5-T	µg/L	72	73	1

* DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS

CORRESPONDING SDG AND ASSOCIATED SAMPLES

DI102: QADI102, QARI103, C1001W1P1, C1001W1D1, WM002W1P1, TC002W1P1, QARI104, L4001P1D1, L4002P1P1, L4001P1P1, QARI105

COMPOUND	ADVISORY LIMITS	RPD
	% R WATER	WATER
2,4-D	30%-130%	50
2,4,5-TP (SILVEX)	30%-130%	50
2,4,5-T	30%-130%	50

TABLE 2 - 14
HERBICIDES
WATER SAMPLE MATRIX SPIKE/MATRIX SPIKE DUPLICATES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

MS = MATRIX SPIKE *SAMPLE QARI105*		SDG DI102		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
HERB COMPOUNDS	UNITS			
2,4-D	µg/L	76	83	9
2,4,5-TP (SILVEX)	µg/L	72	76	5
2,4,5-T	µg/L	67	70	5

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG AND ASSOCIATED SAMPLES

DI102: QADI102, QARI103, C1001W1P1, C1001W1D1, WM002W1P1, TC002W1P1, QARI104, L4001P1D1, L4002P1P1, L4001P1P1, QARI105

MS = MATRIX SPIKE *SAMPLE TC006W1P1*		SDG GULFW6		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
HERB COMPOUNDS	UNITS			
2,4-D	µg/L	96	94	2
2,4,5-TP (SILVEX)	µg/L	119	120	2
2,4,5-T	µg/L	94	97	3

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG AND ASSOCIATED SAMPLES

GULFW6: QADI103, TC006W1P1, TC006W1D1, QARI108, BB003W1P1, GPT45G1P1, GPT44G1P1, GPT44G1D1, QARI109, BC003W1P1, GPT54G1P1, GPT55G1P1, GPT56G1P1, GPT47G1P1, GPT46G1P1, QARI110, QARI111

MS = MATRIX SPIKE *SAMPLE GPT44G1P1*		SDG GULFW6		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
HERB COMPOUNDS	UNITS			
2,4-D	µg/L	48	43	10
2,4,5-TP (SILVEX)	µg/L	53	51	3
2,4,5-T	µg/L	61	59	3

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG AND ASSOCIATED SAMPLES

GULFW6: QADI103, TC006W1P1, TC006W1D1, QARI108, BB003W1P1, GPT45G1P1, GPT44G1P1, GPT44G1D1, QARI109, BC003W1P1, GPT54G1P1, GPT55G1P1, GPT56G1P1, GPT47G1P1, GPT46G1P1, QARI110, QARI111

COMPOUND	ADVISORY LIMITS	RPD
	% R WATER	WATER
2,4-D	30%-130%	50
2,4,5-TP (SILVEX)	30%-130%	50
2,4,5-T	30%-130%	50

TABLE 2 - 15
DIOXIN/FURANS
WATER SAMPLE MATRIX SPIKE/MATRIX SPIKE DUPLICATES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

MS = MATRIX SPIKE *SAMPLE D2006W1D1*		SDG 41291 A, AR1, & B		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
D/F COMPOUNDS	UNITS			
2, 3, 7, 8 -TCDD	ppq	97.4	85.9	12.5
1, 2, 3, 7, 8-PECDD	ppq	89.7	83.5	7.16
1, 2, 3, 4, 7, 8-HXCDD	ppq	86.8	80	8.15
1, 2, 3, 6, 7, 8-HXCDD	ppq	89.4	89.4	0
1, 2, 3, 7, 8, 9-HXCDD	ppq	78.4	78.1	0.38
1, 2, 3, 4, 6, 7, 8-HPCDD	ppq	94	86.5	8.31
OCDD	ppq	102	91.4	11
2, 3, 7, 8-TCDF	ppq	91.7	79.9	13.8
1, 2, 3, 7, 8-PECDF	ppq	95	81	15.9
2, 3, 4, 7, 8-PECDF	ppq	78.3	75	4.31
1, 2, 3, 4, 7, 8-HXCDF	ppq	98.8	71.5	7.67
1, 2, 3, 6, 7, 8-HXCDF	ppq	90.2	83.4	7.83
2, 3, 4, 6, 7, 8-HXCDF	ppq	72.7	83.3	13.6
1, 2, 3, 7, 8, 9-HXCDF	ppq	98.5	103	4.47
1, 2, 3, 4, 6, 7, 8-HPCDF	ppq	97.6	86.9	11.6
1, 2, 3, 4, 7, 8, 9-HPCDF	ppq	92	86.1	6.63
OCDF	ppq	352*	178*	65.7*

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

41291 A, AR1, & B: D2006W1D1, D2003W1P1, D2006W1P1

MS = MATRIX SPIKE *SAMPLE D2006W1D1*		SDG 41291 A, AR1, & B RE		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
D/F COMPOUNDS	UNITS			
2, 3, 7, 8 -TCDD	ppq	82.5	81.7	0.97
1, 2, 3, 7, 8-PECDD	ppq	90.1	79.4	12.6
1, 2, 3, 4, 7, 8-HXCDD	ppq	85.9	77.6	10.2
1, 2, 3, 6, 7, 8-HXCDD	ppq	100	91.5	8.88
1, 2, 3, 7, 8, 9-HXCDD	ppq	84.7	80.6	4.96
1, 2, 3, 4, 6, 7, 8-HPCDD	ppq	105	95.3	9.69
OCDD	ppq	108	96.2	11.6
2, 3, 7, 8-TCDF	ppq	98.9	88.6	11
1, 2, 3, 7, 8-PECDF	ppq	94.7	83.1	13
2, 3, 4, 7, 8-PECDF	ppq	86.4	78.5	9.58
1, 2, 3, 4, 7, 8-HXCDF	ppq	88.9	81.7	8.44
1, 2, 3, 6, 7, 8-HXCDF	ppq	103	93.3	9.88
2, 3, 4, 6, 7, 8-HXCDF	ppq	72.4	76.7	5.77
1, 2, 3, 7, 8, 9-HXCDF	ppq	98.8	92.9	6.16
1, 2, 3, 4, 6, 7, 8-HPCDF	ppq	80.3	72	10.9
1, 2, 3, 4, 7, 8, 9-HPCDF	ppq	117	106	9.87
OCDF	ppq	367*	182*	67.4*

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

41291 A, AR1, & B RE: D2006W1D1, D2003W1P1, D2006W1P1

COMPOUND	ADVISORY LIMITS		RPD
	%R WATER		WATER
ALL COMPOUNDS	70%-130%		20

TABLE 2 - 15
DIOXIN/FURANS
WATER SAMPLE MATRIX SPIKE/MATRIX SPIKE DUPLICATES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

MS = MATRIX SPIKE *SAMPLE C1001W1P1*		SDG 41530 A, B, C, D		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
D/F COMPOUNDS	**UNITS**			
2, 3, 7, 8 -TCDD	ppq	75.1	81	7.56
1, 2, 3, 7, 8-PECDD	ppq	88.8	86.6	2.51
1, 2, 3, 4, 7, 8-HXCDD	ppq	91.9	95	3.32
1, 2, 3, 6, 7, 8-HXCDD	ppq	83.3	87.9	5.37
1, 2, 3, 7, 8, 9-HXCDD	ppq	86.2	96.1	10.9
1, 2, 3, 4, 6, 7, 8-HPCDD	ppq	76.4	86.2	12.1
OCDD	ppq	48*	102	72*
2, 3, 7, 8-TCDF	ppq	88.6	91	2.67
1, 2, 3, 7, 8-PECDF	ppq	94	93.4	0.64
2, 3, 4, 7, 8-PECDF	ppq	91.3	93.2	2.06
1, 2, 3, 4, 7, 8-HXCDF	ppq	90	89	1.12
1, 2, 3, 6, 7, 8-HXCDF	ppq	85.2	85.4	0.23
2, 3, 4, 6, 7, 8-HXCDF	ppq	94	98.5	4.68
1, 2, 3, 7, 8, 9-HXCDF	ppq	93.7	101	7.5
1, 2, 3, 4, 6, 7, 8-HPCDF	ppq	85.5	87	1.74
1, 2, 3, 4, 7, 8, 9-HPCDF	ppq	88.9	91.2	2.55
OCDF	ppq	81	84.8	4.58

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

41530 A, B, C, D: D2003W1P1, D2006W1D1, QATB101, D2006W1P1, D5013W1P1, D5009W1P1, QATB102, D3005W1P1, D3003W1P1, QADI101, QARI101

MS = MATRIX SPIKE *SAMPLE D3007W1D3*		SDG 42239		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
D/F COMPOUNDS	**UNITS**			
2, 3, 7, 8 -TCDD	ppq	81.4	85.5	4.91
1, 2, 3, 7, 8-PECDD	ppq	82.7	86.8	4.84
1, 2, 3, 4, 7, 8-HXCDD	ppq	85.3	91.4	6.9
1, 2, 3, 6, 7, 8-HXCDD	ppq	89.2	96.3	7.65
1, 2, 3, 7, 8, 9-HXCDD	ppq	91.5	94.2	2.91
1, 2, 3, 4, 6, 7, 8-HPCDD	ppq	75.9	81.2	6.75
OCDD	ppq	77	68.9*	11.1
2, 3, 7, 8-TCDF	ppq	86.8	84.9	2.21
1, 2, 3, 7, 8-PECDF	ppq	82.4	85.7	3.93
2, 3, 4, 7, 8-PECDF	ppq	87.7	87.7	0
1, 2, 3, 4, 7, 8-HXCDF	ppq	85.3	90.6	6.03
1, 2, 3, 6, 7, 8-HXCDF	ppq	92.5	95.6	3.3
2, 3, 4, 6, 7, 8-HXCDF	ppq	93.4	99.9	6.73
1, 2, 3, 7, 8, 9-HXCDF	ppq	96.5	114	16.6
1, 2, 3, 4, 6, 7, 8-HPCDF	ppq	90.3	92.3	2.19
1, 2, 3, 4, 7, 8, 9-HPCDF	ppq	86.5	95.9	10.3
OCDF	ppq	90	92.3	2.52

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

42239: D3007W1P3, D3007W1D3, D5009W1P3, QARI112, QADI104

COMPOUND	ADVISORY LIMITS	RPD
	%R WATER	WATER
ALL COMPOUNDS	70%-130%	20

TABLE 2 - 15
DIOXIN/FURANS
WATER SAMPLE MATRIX SPIKE/MATRIX SPIKE DUPLICATES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

MS = MATRIX SPIKE *SAMPLE GPT44G1D1*		SDG 41844 A, AR2, B		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
D/F COMPOUNDS	**UNITS**			
2, 3, 7, 8 -TCDD	ppq	78.7	98.5	22.3*
1, 2, 3, 7, 8-PECDD	ppq	91	92.9	2.07
1, 2, 3, 4, 7, 8-HXCDD	ppq	91.9	106	14.2
1, 2, 3, 6, 7, 8-HXCDD	ppq	93.4	99.7	6.53
1, 2, 3, 7, 8, 9-HXCDD	ppq	87	104	17.8
1, 2, 3, 4, 6, 7, 8-HPCDD	ppq	89.6	100	11
OCDD	ppq	102	97.4	4.61
2, 3, 7, 8-TCDF	ppq	86.5	108	22.1*
1, 2, 3, 7, 8-PECDF	ppq	85.5	94.3	9.79
2, 3, 4, 7, 8-PECDF	ppq	91.9	92.8	0.97
1, 2, 3, 4, 7, 8-HXCDF	ppq	104	114	9.17
1, 2, 3, 6, 7, 8-HXCDF	ppq	93.5	102	8.7
2, 3, 4, 6, 7, 8-HXCDF	ppq	89.3	104	15.2
1, 2, 3, 7, 8, 9-HXCDF	ppq	100	107	6.76
1, 2, 3, 4, 6, 7, 8-HPCDF	ppq	97.2	108	10.5
1, 2, 3, 4, 7, 8, 9-HPCDF	ppq	93.3	103	9.88
OCDF	ppq	94	93	1.07

* DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

41844 A, AR2, B: GPT44G1P1, GPT44G1D1, GPT45G1P1, QARI109, BC003W1P1

MS = MATRIX SPIKE *SAMPLE TC006W1D1*		SDG 41776 A, AR1, B		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
D/F COMPOUNDS	**UNITS**			
2, 3, 7, 8 -TCDD	ppq	94	94.7	0.74
1, 2, 3, 7, 8-PECDD	ppq	89.3	93.6	4.7
1, 2, 3, 4, 7, 8-HXCDD	ppq	101	105	3.88
1, 2, 3, 6, 7, 8-HXCDD	ppq	93.8	93.2	0.64
1, 2, 3, 7, 8, 9-HXCDD	ppq	95.8	102	6.27
1, 2, 3, 4, 6, 7, 8-HPCDD	ppq	93.4	96.8	3.58
OCDD	ppq	100	104	3.92
2, 3, 7, 8-TCDF	ppq	91.3	94.5	3.44
1, 2, 3, 7, 8-PECDF	ppq	96	100	4.08
2, 3, 4, 7, 8-PECDF	ppq	87	89.7	3.06
1, 2, 3, 4, 7, 8-HXCDF	ppq	105	95.8	9.16
1, 2, 3, 6, 7, 8-HXCDF	ppq	97.1	101	3.94
2, 3, 4, 6, 7, 8-HXCDF	ppq	104	94	10.1
1, 2, 3, 7, 8, 9-HXCDF	ppq	109	102	6.64
1, 2, 3, 4, 6, 7, 8-HPCDF	ppq	89.5	90.4	1
1, 2, 3, 4, 7, 8, 9-HPCDF	ppq	88.8	109	20.4*
OCDF	ppq	99.1	107	7.67

* DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

41776 A, AR1, B: QADI103, TC006W1P1, TC006W1D1, QARI108

COMPOUND	ADVISORY LIMITS	RPD
	%R WATER	WATER
ALL COMPOUNDS	70%-130%	20

TABLE 2 - 15
DIOXIN/FURANS
WATER SAMPLE MATRIX SPIKE/MATRIX SPIKE DUPLICATES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

MS = MATRIX SPIKE *SAMPLE L4001P1P1*		SDG 41584 A & B		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
D/F COMPOUNDS	**UNITS**			
2, 3, 7, 8 -TCDD	ppq	81.25	80.75	0.62
1, 2, 3, 7, 8-PECDD	ppq	73	76.5	4.68
1, 2, 3, 4, 7, 8-HXCDD	ppq	91	94	3.24
1, 2, 3, 6, 7, 8-HXCDD	ppq	83.5	87.5	4.68
1, 2, 3, 7, 8, 9-HXCDD	ppq	84.5	95	11.7
1, 2, 3, 4, 6, 7, 8-HPCDD	ppq	110.91	103.91	6.52
OCDD	ppq	162.03*	142.28*	12.98
2, 3, 7, 8-TCDF	ppq	80.25	82.25	2.46
1, 2, 3, 7, 8-PECDF	ppq	84	91	8
2, 3, 4, 7, 8-PECDF	ppq	74	82.5	10.86
1, 2, 3, 4, 7, 8-HXCDF	ppq	91.5	92.5	1.09
1, 2, 3, 6, 7, 8-HXCDF	ppq	87.5	89.5	2.26
2, 3, 4, 6, 7, 8-HXCDF	ppq	95.5	104	8.52
1, 2, 3, 7, 8, 9-HXCDF	ppq	102	107.5	5.25
1, 2, 3, 4, 6, 7, 8-HPCDF	ppq	98.05	99.55	1.52
1, 2, 3, 4, 7, 8, 9-HPCDF	ppq	110.5	107	3.22
OCDF	ppq	88.8	84.3	5.2

* DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

41584 A & B: L4001P1P1, L4001P1D1, L400ZP1P1

MS = MATRIX SPIKE *SAMPLE L4001P1P1*		SDG 41584 A & B RE		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
D/F COMPOUNDS	**UNITS**			
2, 3, 7, 8 -TCDD	ppq	87.75	89	1.41
1, 2, 3, 7, 8-PECDD	ppq	96	93	3.17
1, 2, 3, 4, 7, 8-HXCDD	ppq	92.5	94	1.61
1, 2, 3, 6, 7, 8-HXCDD	ppq	97.5	95.5	2.07
1, 2, 3, 7, 8, 9-HXCDD	ppq	86	93.5	8.36
1, 2, 3, 4, 6, 7, 8-HPCDD	ppq	119.12	111.13	6.95
OCDD	ppq	175.53*	156.03*	11.76
2, 3, 7, 8-TCDF	ppq	97.75	93.5	4.44
1, 2, 3, 7, 8-PECDF	ppq	99.5	95.5	4.1
2, 3, 4, 7, 8-PECDF	ppq	89	90	1.12
1, 2, 3, 4, 7, 8-HXCDF	ppq	96	92.5	3.71
1, 2, 3, 6, 7, 8-HXCDF	ppq	95.5	97	1.56
2, 3, 4, 6, 7, 8-HXCDF	ppq	96	105.5	9.43
1, 2, 3, 7, 8, 9-HXCDF	ppq	90.5	104.5	14.36
1, 2, 3, 4, 6, 7, 8-HPCDF	ppq	109.5	110.5	0.91
1, 2, 3, 4, 7, 8, 9-HPCDF	ppq	106.5	110	3.23
OCDF	ppq	119.09	105.34	12.25

* DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

41584 A & B RE: L4001P1P1, L4001P1D1, L400ZP1P1

COMPOUND	ADVISORY LIMITS		RPD
	%R WATER		WATER
ALL COMPOUNDS	70%-130%		20

TABLE 2 - 16
VOLATILE ORGANICS COMPOUNDS
SOIL SAMPLE MATRIX SPIKE/MATRIX SPIKE DUPLICATES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

MS = MATRIX SPIKE *SAMPLE D2006D1P1*		SDG D1D1		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
VOA COMPOUNDS	**UNITS**			
1,1-DICHLOROETHENE	µg/Kg	107	95	12
BENZENE	µg/Kg	105	103	2
TRICHLOROETHENE	µg/Kg	97	90	7
TOLUENE	µg/Kg	102	10	2
CHLOROBENZENE	µg/Kg	100	97	3

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

D1D1: D2003D1P1, D2006D1P1, D2006D1D1, D5013D1P1, D5009D1P1, D3005D1P1, D3003D1P1

MS = MATRIX SPIKE *SAMPLE C1001D1P1*		SDG EE01		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
VOA COMPOUNDS	**UNITS**			
1,1-DICHLOROETHENE	µg/Kg	90	99	10
BENZENE	µg/Kg	97	101	4
TRICHLOROETHENE	µg/Kg	81	86	6
TOLUENE	µg/Kg	101	109	8
CHLOROBENZENE	µg/Kg	99	102	3

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

EE01: C1001D1P1, D10015D1P1, C1001D1D1, D1015D1P1RE, L8016S1P1, L8025S1P1, TC002D1P1, L8013S1P1, L8013S1D1, L8027S1P1, WM002D1P1

COMPOUND	ADVISORY LIMITS	RPD
	%R SOIL	SOIL
1,1-DICHLOROETHENE	59%-172%	22
BENZENE	66%-142%	21
TRICHLOROETHENE	62%-137%	24
TOLUENE	59%-139%	21
CHLOROBENZENE	60%-133%	21

TABLE 2 - 16
VOLATILE ORGANICS COMPOUNDS
SOIL SAMPLE MATRIX SPIKE/MATRIX SPIKE DUPLICATES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

MS = MATRIX SPIKE *SAMPLE L8013S1P1*		SDG EE01		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
VOA COMPOUNDS	UNITS			
1,1-DICHLOROETHENE	µg/Kg	100	106	6
BENZENE	µg/Kg	102	83	4
TRICHLOROETHENE	µg/Kg	79	106	5
TOLUENE	µg/Kg	102	108	6
CHLOROBENZENE	µg/Kg	98	102	4

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

EE01: C1001D1P1, D10015D1P1, C1001D1D1, D1015D1P1RE, L8016S1P1, L8025S1P1, TC002D1P1, L8013S1P1, L8013S1D1, L8027S1P1, WM002D1P1

MS = MATRIX SPIKE *SAMPLE TC006D1P1*		SDG GULFS7		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
VOA COMPOUNDS	UNITS			
1,1-DICHLOROETHENE	µg/Kg	111	116	4
BENZENE	µg/Kg	103	108	5
TRICHLOROETHENE	µg/Kg	87	90	3
TOLUENE	µg/Kg	98	105	7
CHLOROBENZENE	µg/Kg	97	102	5

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

GULFS7: TC006D1P1, TC006D1D1, WL001D1P1, BB003D1P1 BC003D1P1

COMPOUND	ADVISORY LIMITS	RPD
	%R SOIL	SOIL
1,1-DICHLOROETHENE	59%-172%	22
BENZENE	66%-142%	21
TRICHLOROETHENE	62%-137%	24
TOLUENE	59%-139%	21
CHLOROBENZENE	60%-133%	21

TABLE 2 - 17
SEMIVOLATILE ORGANICS COMPOUNDS
SOIL SAMPLE MATRIX SPIKE/MATRIX SPIKE DUPLICATES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

MS = MATRIX SPIKE *SAMPLE D2006D1P1*		SDG D1D1		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
SVOA COMPOUNDS	UNITS			
PHENOL	µg/Kg	55	79	36*
2-CHLOROPHENOL	µg/Kg	52	83	46
1,4-DICHLOROBENZENE	µg/Kg	45	80	56*
N-NITROSO-DI-N-PROPYLAMINE	µg/Kg	46	75	48*
1,2,4-TRICHLOROBENZENE	µg/Kg	48	80	50*
4-CHLORO-3-METHYLPHENOL	µg/Kg	76	103	30
ACENAPHTHENE	µg/Kg	65	85	27*
4-NITROPHENOL	µg/Kg	52	69	28
2,4-DINITROTOLUENE	µg/Kg	70	80	13
PENTACHLOROPHENOL	µg/Kg	62	79	24
PYRENE	µg/Kg	83	98	16

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

D1D1: D2003D1P1, D2006D1P1, D2006D1D1, D5013D1P1, D5009D1P1, D3005D1P1, D3003D1P1

MS = MATRIX SPIKE *SAMPLE C1001D1P1*		SDG EE01		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
SVOA COMPOUNDS	UNITS			
PHENOL	µg/Kg	49	62	23
2-CHLOROPHENOL	µg/Kg	49	62	23
1,4-DICHLOROBENZENE	µg/Kg	38	50	27
N-NITROSO-DI-N-PROPYLAMINE	µg/Kg	46	62	30
1,2,4-TRICHLOROBENZENE	µg/Kg	42	58	32*
4-CHLORO-3-METHYLPHENOL	µg/Kg	77	87	12
ACENAPHTHENE	µg/Kg	69	85	21*
4-NITROPHENOL	µg/Kg	33	51	43
2,4-DINITROTOLUENE	µg/Kg	69	81	16
PENTACHLOROPHENOL	µg/Kg	54	62	14
PYRENE	µg/Kg	81	208*	88*

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

EE01: C1001D1P1, D10015D1P1, C1001D1D1, L8016S1P1, L8025S1P1, TC002D1P1, L8013S1P1, L8013S1D1, L8027S1P1, WM002D1P1

COMPOUND	ADVISORY LIMITS	RPD
	% R SOIL	SOIL
PHENOL	26%-90%	35
2-CHLOROPHENOL	25%-102%	50
1,4-DICHLOROBENZENE	28%-104%	27
N-NITROSO-DI-N-PROP.(1)	41%-126%	38
1,2,4-TRICHLOROBENZENE	38%-107%	23
4-CHLORO-3-METHYLPHENOL	26%-103%	33
ACENAPHTHENE	31%-137%	19
4-NITROPHENOL	11%-114%	50
2,4-DINITROTOLUENE	28%-89%	47
PENTACHLOROPHENOL	17%-109%	47
PYRENE	35%-142%	36

TABLE 2 - 17
SEMIVOLATILE ORGANICS COMPOUNDS
SOIL SAMPLE MATRIX SPIKE/MATRIX SPIKE DUPLICATES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

MS = MATRIX SPIKE *SAMPLE L8013S1P1*		SDG EE01		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
SVOA COMPOUNDS	**UNITS**			
PHENOL	µg/Kg	38	32	17
2-CHLOROPHENOL	µg/Kg	38	30	24
1,4-DICHLOROBENZENE	µg/Kg	22*	15*	38*
N-NITROSO-DI-N-PROPYLAMINE	µg/Kg	38*	39*	2.6
1,2,4-TRICHLOROBENZENE	µg/Kg	37*	27*	31*
4-CHLORO-3-METHYLPHENOL	µg/Kg	38	38	0
ACENAPHTHENE	µg/Kg	53	47	12
4-NITROPHENOL	µg/Kg	7*	9*	25
2,4-DINITROTOLUENE	µg/Kg	47	48	2
PENTACHLOROPHENOL	µg/Kg	0*	0*	NC
PYRENE	µg/Kg	56	51	9

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

EE01: C1001D1P1, D10015D1P1, C1001D1D1, L8016S1P1, L8025S1P1, TC002D1P1, L8013S1P1, L8013S1D1, L8027S1P1, WM002D1P1

MS = MATRIX SPIKE *SAMPLE TC006D1P1*		SDG GULFS7		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
SVOA COMPOUNDS	**UNITS**			
PHENOL	µg/Kg	42	45	7
2-CHLOROPHENOL	µg/Kg	39	42	7
1,4-DICHLOROBENZENE	µg/Kg	37	40	8
N-NITROSO-DI-N-PROPYLAMINE	µg/Kg	32*	42	27
1,2,4-TRICHLOROBENZENE	µg/Kg	40	41	2
4-CHLORO-3-METHYLPHENOL	µg/Kg	48	58	19
ACENAPHTHENE	µg/Kg	42	48	13
4-NITROPHENOL	µg/Kg	64	55	15
2,4-DINITROTOLUENE	µg/Kg	42	52	21
PENTACHLOROPHENOL	µg/Kg	42	28	40
PYRENE	µg/Kg	57	67	16

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

GULFS7: TC006D1P1, TC006D1D1, WL001D1P1, BB003D1P1 BC003D1P1

COMPOUND	ADVISORY LIMITS	RPD
	% R SOIL	SOIL
PHENOL	26%-90%	35
2-CHLOROPHENOL	25%-102%	50
1,4-DICHLOROBENZENE	28%-104%	27
N-NITROSO-DI-N-PROP.(1)	41%-126%	38
1,2,4-TRICHLOROBENZENE	38%-107%	23
4-CHLORO-3-METHYLPHENOL	26%-103%	33
ACENAPHTHENE	31%-137%	19
4-NITROPHENOL	11%-114%	50
2,4-DINITROTOLUENE	28%-89%	47
PENTACHLOROPHENOL	17%-109%	47
PYRENE	35%-142%	36

TABLE 2 - 18
PESTICIDES/PCBS
SOIL SAMPLE MATRIX SPIKE/MATRIX SPIKE DUPLICATES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

MS = MATRIX SPIKE *SAMPLE D2006D1P1*		SDG D1D1		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
PEST COMPOUNDS	UNITS			
GAMMA-BHC (LINDANE)	µg/Kg	80	80	0
HEPTACHLOR	µg/Kg	80	80	0
ALDRIN	µg/Kg	90	90	0
DIELDRIN	µg/Kg	77	72	7
ENDRIN	µg/Kg	82	82	0
4,4'-DDT	µg/Kg	85	85	0

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG AND ASSOCIATED SAMPLES

D1D1: D2003D1P1, D2006D1P1, D2006D1D1, D5013D1P1, D5009D1P1, D3005D1P1, D3003D1P1

MS = MATRIX SPIKE *SAMPLE C1001D1P1*		SDG EE01		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
PEST COMPOUNDS	UNITS			
GAMMA-BHC (LINDANE)	µg/Kg	100	100	0
HEPTACHLOR	µg/Kg	92	100	8
ALDRIN	µg/Kg	104	108	4
DIELDRIN	µg/Kg	93	101	8
ENDRIN	µg/Kg	102	110	8
4,4'-DDT	µg/Kg	102	108	6

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG AND ASSOCIATED SAMPLES

EE01: C1001D1P1, D10015D1P1, C1001D1D1, L8016S1P1, L8025S1P1, TC002D1P1, L8013S1P1, L8013S1D1, L8027S1P1, WM002D1P1

COMPOUND	ADVISORY LIMITS	RPD
	% R SOIL	SOIL
GAMMA-BHC (LINDANE)	46%-127%	50
HEPTACHLOR	35%-130%	31
ALDRIN	34%-132%	43
DIELDRIN	31%-134%	38
ENDRIN	42%-139%	45
4,4'-DDT	23%-134%	50

TABLE 2 - 18
PESTICIDES/PCBS
SOIL SAMPLE MATRIX SPIKE/MATRIX SPIKE DUPLICATES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

MS = MATRIX SPIKE *SAMPLE L8013S1P1*		SDG EE01		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
PEST COMPOUNDS	UNITS			
GAMMA-BHC (LINDANE)	µg/Kg	83	89	7
HEPTACHLOR	µg/Kg	83	83	0
ALDRIN	µg/Kg	94	94	0
DIELDRIN	µg/Kg	91	88	3
ENDRIN	µg/Kg	97	94	3
4,4'-DDT	µg/Kg	94	88	6

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG AND ASSOCIATED SAMPLES

EE01: C1001D1P1, D10015D1P1, C1001D1D1, L8016S1P1, L8025S1P1, TC002D1P1, L8013S1P1, L8013S1D1, L8027S1P1, WM002D1P1

MS = MATRIX SPIKE *SAMPLE TC006D1P1*		SDG GULFS7		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
PEST COMPOUNDS	UNITS			
GAMMA-BHC (LINDANE)	µg/Kg	80	80	0
HEPTACHLOR	µg/Kg	90	90	0
ALDRIN	µg/Kg	80	80	0
DIELDRIN	µg/Kg	88	88	0
ENDRIN	µg/Kg	93	93	0
4,4'-DDT	µg/Kg	93	95	2

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG AND ASSOCIATED SAMPLES

GULFS7: TC006D1P1, TC006D1D1, WL001D1P1, BB003D1P1 BC003D1P1

COMPOUND	ADVISORY LIMITS	RPD
	% R SOIL	SOIL
GAMMA-BHC (LINDANE)	46%-127%	50
HEPTACHLOR	35%-130%	31
ALDRIN	34%-132%	43
DIELDRIN	31%-134%	38
ENDRIN	42%-139%	45
4,4'-DDT	23%-134%	50

TABLE 2 - 19
HERBICIDES
SOIL SAMPLE MATRIX SPIKE/MATRIX SPIKE DUPLICATES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

MS = MATRIX SPIKE *SAMPLE D2006D1P1*		SDG D1D1		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
HERB COMPOUNDS	UNITS			
2,4-D	µg/Kg	71	95	29
2,4,5-TP (SILVEX)	µg/Kg	61	67	10
2,4,5-T	µg/Kg	62	63	1

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG AND ASSOCIATED SAMPLES

D1D1: D2003D1P1, D2006D1P1, D2006D1D1, D5013D1P1, D5009D1P1, D3005D1P1, D3003D1P1

MS = MATRIX SPIKE *SAMPLE C1001D1P1*		SDG EE01		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
HERB COMPOUNDS	UNITS			
2,4-D	µg/Kg	100	95	5
2,4,5-TP (SILVEX)	µg/Kg	70	64	10
2,4,5-T	µg/Kg	74	66	12

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG AND ASSOCIATED SAMPLES

EE01: C1001D1P1, D10015D1P1, C1001D1D1, L8016S1P1, L8025S1P1, TC002D1P1, L8013S1P1, L8013S1D1, L8027S1P1, WM002D1P1

MS = MATRIX SPIKE *SAMPLE L8013S1P1*		SDG EE01		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
HERB COMPOUNDS	UNITS			
2,4-D	µg/Kg	72	73	1
2,4,5-TP (SILVEX)	µg/Kg	69	67	4
2,4,5-T	µg/Kg	61	60	1

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG AND ASSOCIATED SAMPLES

EE01: C1001D1P1, D10015D1P1, C1001D1D1, L8016S1P1, L8025S1P1, TC002D1P1, L8013S1P1, L8013S1D1, L8027S1P1, WM002D1P1

COMPOUND	ADVISORY LIMITS	RPD
	% R SOIL	SOIL
2,4-D	30%-130%	50
2,4,5-TP (SILVEX)	30%-130%	50
2,4,5-T	30%-130%	50

TABLE 2 - 19
HERBICIDES
SOIL SAMPLE MATRIX SPIKE/MATRIX SPIKE DUPLICATES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

MS = MATRIX SPIKE *SAMPLE TC006D1P1*		SDG GULFS7		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
HERB COMPOUNDS	UNITS			
2,4-D	µg/Kg	69	57	19
2,4,5-TP (SILVEX)	µg/Kg	66	59	11
2,4,5-T	µg/Kg	74	65	13

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG AND ASSOCIATED SAMPLES

GULFS7: TC006D1P1, TC006D1D1, WL001D1P1, BB003D1P1
BC003D1P1

COMPOUND	ADVISORY LIMITS	RPD
	% R SOIL	SOIL
2,4-D	30%-130%	50
2,4,5-TP (SILVEX)	30%-130%	50
2,4,5-T	30%-130%	50

TABLE 2 - 20
DIOXIN/FURANS
SOIL SAMPLE MATRIX SPIKE/MATRIX SPIKE DUPLICATES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

MS = MATRIX SPIKE *SAMPLE D2006D1D1*		SDG 41291 A, AR1, & B		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
D/F COMPOUNDS	**UNITS**			
2, 3, 7, 8 -TCDD	ppt	91	87.8	3.58
1, 2, 3, 7, 8-PECDD	ppt	86.9	86.6	0.35
1, 2, 3, 4, 7, 8-HXCDD	ppt	96.1	81.2	16.8
1, 2, 3, 6, 7, 8-HXCDD	ppt	88.6	98.1	10.2
1, 2, 3, 7, 8, 9-HXCDD	ppt	94.5	89.6	5.32
1, 2, 3, 4, 6, 7, 8-HPCDD	ppt	93.9	104	10.2
OCDD	ppt	91.1	115	23.2*
2, 3, 7, 8-TCDF	ppt	90.7	100	9.75
1, 2, 3, 7, 8-PECDF	ppt	93.6	93.7	0.11
2, 3, 4, 7, 8-PECDF	ppt	76.9	79.1	2.82
1, 2, 3, 4, 7, 8-HXCDF	ppt	102	93	9.23
1, 2, 3, 6, 7, 8-HXCDF	ppt	97	102	5.03
2, 3, 4, 6, 7, 8-HXCDF	ppt	97.6	91.5	6.45
1, 2, 3, 7, 8, 9-HXCDF	ppt	96	99.1	3.18
1, 2, 3, 4, 6, 7, 8-HPCDF	ppt	104	82.6	22.9*
1, 2, 3, 4, 7, 8, 9-HPCDF	ppt	89.5	99.9	11
OCDF	ppt	105	132*	22.8*

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

41291 A, AR1, & B: D2006D1D1, D2007D1P1, D2005D1P1, D2004D1P1, D2001D1P1, D2002D1P1, D2008D1P1, D2003D1P1, D2006D1P1

MS = MATRIX SPIKE *SAMPLE D2006D1D1*		SDG 41291 A, AR1, & B RE		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
D/F COMPOUNDS	**UNITS**			
2, 3, 7, 8 -TCDD	ppt	85.5	88.5	3.45
1, 2, 3, 7, 8-PECDD	ppt	87.1	86.5	0.69
1, 2, 3, 4, 7, 8-HXCDD	ppt	83	82	1.21
1, 2, 3, 6, 7, 8-HXCDD	ppt	93.8	95.9	2.21
1, 2, 3, 7, 8, 9-HXCDD	ppt	89.9	86.6	3.74
1, 2, 3, 4, 6, 7, 8-HPCDD	ppt	98.7	105	6.19
OCDD	ppt	100	113	12.2
2, 3, 7, 8-TCDF	ppt	94.5	94.1	0.42
1, 2, 3, 7, 8-PECDF	ppt	93	94.2	1.28
2, 3, 4, 7, 8-PECDF	ppt	78.6	79.3	0.89
1, 2, 3, 4, 7, 8-HXCDF	ppt	92.1	89.5	2.86
1, 2, 3, 6, 7, 8-HXCDF	ppt	102	101	0.99
2, 3, 4, 6, 7, 8-HXCDF	ppt	93.1	90.9	2.39
1, 2, 3, 7, 8, 9-HXCDF	ppt	101	99.5	1.5
1, 2, 3, 4, 6, 7, 8-HPCDF	ppt	83.4	84.9	1.78
1, 2, 3, 4, 7, 8, 9-HPCDF	ppt	105	106	0.95
OCDF	ppt	120	135*	11.8

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

41291 A, AR1, & B RE: D2006D1D1, D2007D1P1, D2005D1P1, D2004D1P1, D2001D1P1, D2002D1P1, D2008D1P1, D2003D1P1, D2006D1P1

COMPOUND	ADVISORY LIMITS	RPD
	%R SOIL	SOIL
ALL COMPOUNDS	70%-130%	20

TABLE 2 - 20
DIOXIN/FURANS
SOIL SAMPLE MATRIX SPIKE/MATRIX SPIKE DUPLICATES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

MS = MATRIX SPIKE *SAMPLE L8013S1D1*		SDG 41574 A, B, C		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
D/F COMPOUNDS	**UNITS**			
2, 3, 7, 8 -TCDD	ppt	79	90.9	14
1, 2, 3, 7, 8-PECDD	ppt	85.7	91.3	6.33
1, 2, 3, 4, 7, 8-HXCDD	ppt	92.2	90.9	1.42
1, 2, 3, 6, 7, 8-HXCDD	ppt	82.1	86.6	5.33
1, 2, 3, 7, 8, 9-HXCDD	ppt	82.8	86.1	3.91
1, 2, 3, 4, 6, 7, 8-HPCDD	ppt	84.4	88.3	4.52
OCDD	ppt	86.3	116	29.4*
2, 3, 7, 8-TCDF	ppt	85.4	86	0.7
1, 2, 3, 7, 8-PECDF	ppt	93	94.2	1.28
2, 3, 4, 7, 8-PECDF	ppt	83.9	89.8	6.79
1, 2, 3, 4, 7, 8-HXCDF	ppt	86.9	91.1	4.72
1, 2, 3, 6, 7, 8-HXCDF	ppt	84.8	85.8	1.17
2, 3, 4, 6, 7, 8-HXCDF	ppt	86.9	87.3	0.46
1, 2, 3, 7, 8, 9-HXCDF	ppt	92.1	91.7	0.44
1, 2, 3, 4, 6, 7, 8-HPCDF	ppt	92.1	91.2	0.98
1, 2, 3, 4, 7, 8, 9-HPCDF	ppt	93	108	14.9
OCDF	ppt	92.5	97.8	5.57

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

41574 A, B, C: L8013S1D1, TC001D1P1, TC002D1P1, L8013S1P1, L8027S1P1, L8030S1P1, L8029S1P1, L8033S1P1

MS = MATRIX SPIKE *SAMPLE L8013S1P1*		SDG 41574 A, B, C RE		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
D/F COMPOUNDS	**UNITS**			
2, 3, 7, 8 -TCDD	ppt	88.7	94	5.8
1, 2, 3, 7, 8-PECDD	ppt	78.6	82.9	5.33
1, 2, 3, 4, 7, 8-HXCDD	ppt	90.4	92.9	2.73
1, 2, 3, 6, 7, 8-HXCDD	ppt	89.3	89.8	0.56
1, 2, 3, 7, 8, 9-HXCDD	ppt	85.2	78.9	7.68
1, 2, 3, 4, 6, 7, 8-HPCDD	ppt	95.2	97.3	2.18
OCDD	ppt	89.1	119	28.7*
2, 3, 7, 8-TCDF	ppt	89.4	89.5	0.11
1, 2, 3, 7, 8-PECDF	ppt	85	87.2	2.56
2, 3, 4, 7, 8-PECDF	ppt	76.8	79.6	3.58
1, 2, 3, 4, 7, 8-HXCDF	ppt	92.9	101	8.35
1, 2, 3, 6, 7, 8-HXCDF	ppt	91.7	95.8	4.37
2, 3, 4, 6, 7, 8-HXCDF	ppt	88.8	90.6	2.01
1, 2, 3, 7, 8, 9-HXCDF	ppt	91	94	3.24
1, 2, 3, 4, 6, 7, 8-HPCDF	ppt	95.5	95.1	0.42
1, 2, 3, 4, 7, 8, 9-HPCDF	ppt	95.4	109	13.3
OCDF	ppt	93	101	8.25

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

41574 A, B, C RE: L8013S1D1, TC001D1P1, TC002D1P1, L8013S1P1, L8027S1P1, L8030S1P1, L8029S1P1, L8033S1P1

COMPOUND	ADVISORY LIMITS		RPD
	%R SOIL		SOIL
ALL COMPOUNDS	70%-130%		20

TABLE 2 - 20
DIOXIN/FURANS
SOIL SAMPLE MATRIX SPIKE/MATRIX SPIKE DUPLICATES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

MS = MATRIX SPIKE *SAMPLE D1015D1D1*		SDG 41516 A, B, C, D		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
D/F COMPOUNDS	UNITS			
2, 3, 7, 8 -TCDD	ppt	143*	61.5*	79.7*
1, 2, 3, 7, 8-PECDD	ppt	94.4	86.4	8.85
1, 2, 3, 4, 7, 8-HXCDD	ppt	99.8	90.5	9.77
1, 2, 3, 6, 7, 8-HXCDD	ppt	89.8	85.9	4.44
1, 2, 3, 7, 8, 9-HXCDD	ppt	102	90.5	11.9
1, 2, 3, 4, 6, 7, 8-HPCDD	ppt	123	93.9	26.8*
OCDD	ppt	270*	171*	44.9*
2, 3, 7, 8-TCDF	ppt	95.8	98.6	2.88
1, 2, 3, 7, 8-PECDF	ppt	97.6	97.9	0.31
2, 3, 4, 7, 8-PECDF	ppt	92.3	92.1	0.22
1, 2, 3, 4, 7, 8-HXCDF	ppt	100	93.9	6.29
1, 2, 3, 6, 7, 8-HXCDF	ppt	93.6	86.9	7.42
2, 3, 4, 6, 7, 8-HXCDF	ppt	108	95.6	12.2
1, 2, 3, 7, 8, 9-HXCDF	ppt	108	93	14.9
1, 2, 3, 4, 6, 7, 8-HPCDF	ppt	102	89.7	12.8
1, 2, 3, 4, 7, 8, 9-HPCDF	ppt	101	88.6	13.1
OCDF	ppt	96.3	93.5	2.95

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

41516 A, B, C, D: D1015D1D1, D1016D1P1, D1015D1P1, D3007D1P1, D3007D1D1, EE13DD1P1, EE13UD1P1, EE07DD1P1, EE07UD1P1, EE04DD1P1, EE04UD1P1, C1003D1P1, EE04DD1P1, L8031S1D1, L8019S1P1, L8028S1P1, L8031S1P1

MS = MATRIX SPIKE *SAMPLE D1015D1D1*		SDG 41516 A, B, C, D RE		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
D/F COMPOUNDS	UNITS			
2, 3, 7, 8 -TCDD	ppt	134*	105	24.3*
1, 2, 3, 7, 8-PECDD	ppt	92.2	86.6	6.26
1, 2, 3, 4, 7, 8-HXCDD	ppt	90.5	84.9	6.39
1, 2, 3, 6, 7, 8-HXCDD	ppt	105	99.5	5.38
1, 2, 3, 7, 8, 9-HXCDD	ppt	100	89.6	11
1, 2, 3, 4, 6, 7, 8-HPCDD	ppt	138*	111	21.7*
OCDD	ppt	300*	190*	44.9*
2, 3, 7, 8-TCDF	ppt	94.7	86.9	8.59
1, 2, 3, 7, 8-PECDF	ppt	92.5	89.7	3.07
2, 3, 4, 7, 8-PECDF	ppt	83.4	79.4	4.91
1, 2, 3, 4, 7, 8-HXCDF	ppt	101	96.6	4.45
1, 2, 3, 6, 7, 8-HXCDF	ppt	103	99.3	3.66
2, 3, 4, 6, 7, 8-HXCDF	ppt	111	97.9	12.5
1, 2, 3, 7, 8, 9-HXCDF	ppt	114	105	8.22
1, 2, 3, 4, 6, 7, 8-HPCDF	ppt	94.5	82	14.2
1, 2, 3, 4, 7, 8, 9-HPCDF	ppt	118	104	12.6
OCDF	ppt	117	105	10.8

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

41516 A, B, C, D RE: D1015D1D1, D1016D1P1, D1015D1P1, D3007D1P1, D3007D1D1, EE13DD1P1, EE13UD1P1, EE07DD1P1, EE07UD1P1, EE04DD1P1, EE04UD1P1, C1003D1P1, EE04DD1P1, L8031S1D1, L8019S1P1, L8028S1P1, L8031S1P1

COMPOUND	ADVISORY LIMITS		RPD
	%R SOIL		SOIL
ALL COMPOUNDS	70%-130%		20

TABLE 2 - 20
DIOXIN/FURANS
SOIL SAMPLE MATRIX SPIKE/MATRIX SPIKE DUPLICATES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

MS = MATRIX SPIKE *SAMPLE C1001D1P1*		SDG 41530 A, B, C, D		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
D/F COMPOUNDS	UNITS			
2, 3, 7, 8 -TCDD	ppt	80.7	83.5	3.41
1, 2, 3, 7, 8-PECDD	ppt	96.8	92.3	4.76
1, 2, 3, 4, 7, 8-HXCDD	ppt	90.9	82.6	9.57
1, 2, 3, 6, 7, 8-HXCDD	ppt	84.6	79	6.85
1, 2, 3, 7, 8, 9-HXCDD	ppt	91.3	87	4.82
1, 2, 3, 4, 6, 7, 8-HPCDD	ppt	82.1	105	24.5*
OCDD	ppt	66.6*	188*	95.4*
2, 3, 7, 8-TCDF	ppt	88.7	74.8	17
1, 2, 3, 7, 8-PECDF	ppt	104	93.6	10.5
2, 3, 4, 7, 8-PECDF	ppt	89.2	85.1	4.7
1, 2, 3, 4, 7, 8-HXCDF	ppt	90.8	88.4	2.68
1, 2, 3, 6, 7, 8-HXCDF	ppt	86.9	82.2	5.56
2, 3, 4, 6, 7, 8-HXCDF	ppt	95.8	91.2	4.92
1, 2, 3, 7, 8, 9-HXCDF	ppt	93.2	95.6	2.54
1, 2, 3, 4, 6, 7, 8-HPCDF	ppt	95	90.4	4.96
1, 2, 3, 4, 7, 8, 9-HPCDF	ppt	94.2	93.1	1.17
OCDF	ppt	90.9	92.4	1.64

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

41530 A, B, C, D: C1001D1P1, C1001D1D1, C1005D1P1, C1006D1P1, WM003D1P1, EE05DD1P1, EE05UD1P1, EEN2DD1P1, EEN2UD1P1, EEN1DD1P1, EEN1UD1P1, L8008S1P1, L8020S1P1, L8020S1D1, L8007S1P1, L8026S1P1, L8032S1P1, L8017S1P1, WM001D1P1

MS = MATRIX SPIKE *SAMPLE L8020S1P1*		SDG 41530 A, B, C, D		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
D/F COMPOUNDS	UNITS			
2, 3, 7, 8 -TCDD	ppt	83.9	83.8	0.12
1, 2, 3, 7, 8-PECDD	ppt	82.2	80.4	2.21
1, 2, 3, 4, 7, 8-HXCDD	ppt	93.7	100	6.5
1, 2, 3, 6, 7, 8-HXCDD	ppt	88.1	88.4	0.34
1, 2, 3, 7, 8, 9-HXCDD	ppt	92.1	88.3	4.21
1, 2, 3, 4, 6, 7, 8-HPCDD	ppt	91.1	91.2	0.11
OCDD	ppt	72.8	82.9	13
2, 3, 7, 8-TCDF	ppt	83.2	82.6	0.72
1, 2, 3, 7, 8-PECDF	ppt	94.6	93.7	0.96
2, 3, 4, 7, 8-PECDF	ppt	84.1	84.1	0
1, 2, 3, 4, 7, 8-HXCDF	ppt	90.7	92.9	2.4
1, 2, 3, 6, 7, 8-HXCDF	ppt	91.9	92.4	0.54
2, 3, 4, 6, 7, 8-HXCDF	ppt	98.1	99.2	1.12
1, 2, 3, 7, 8, 9-HXCDF	ppt	110	105	4.65
1, 2, 3, 4, 6, 7, 8-HPCDF	ppt	103	106	2.87
1, 2, 3, 4, 7, 8, 9-HPCDF	ppt	124	116	6.67
OCDF	ppt	85.3	92.1	7.67

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

41530 A, B, C, D: C1001D1P1, C1001D1D1, C1005D1P1, C1006D1P1, WM003D1P1, EE05DD1P1, EE05UD1P1, EEN2DD1P1, EEN2UD1P1, EEN1DD1P1, EEN1UD1P1, L8008S1P1, L8020S1P1, L8020S1D1, L8007S1P1, L8026S1P1, L8032S1P1, L8017S1P1, WM001D1P1

COMPOUND	ADVISORY LIMITS		RPD
	%R SOIL		SOIL
ALL COMPOUNDS	70%-130%		20

TABLE 2 - 20
DIOXIN/FURANS
SOIL SAMPLE MATRIX SPIKE/MATRIX SPIKE DUPLICATES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

MS = MATRIX SPIKE *SAMPLE C1001D1P1*		SDG 41530 A, B, C, D RE		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
D/F COMPOUNDS	UNITS			
2, 3, 7, 8 -TCDD	ppt	81.4	75.2	7.92
1, 2, 3, 7, 8-PECDD	ppt	83	75.9	8.94
1, 2, 3, 4, 7, 8-HXCDD	ppt	75.6	73	3.5
1, 2, 3, 6, 7, 8-HXCDD	ppt	92	83.6	9.57
1, 2, 3, 7, 8, 9-HXCDD	ppt	78.7	74.1	6.02
1, 2, 3, 4, 6, 7, 8-HPCDD	ppt	82.2	107	26.2*
OCDD	ppt	77.7	189*	83.5*
2, 3, 7, 8-TCDF	ppt	88.9	83.1	6.74
1, 2, 3, 7, 8-PECDF	ppt	85.3	77.4	9.71
2, 3, 4, 7, 8-PECDF	ppt	73.9	64.8*	13.1
1, 2, 3, 4, 7, 8-HXCDF	ppt	90.5	87.3	3.6
1, 2, 3, 6, 7, 8-HXCDF	ppt	95	89.6	5.85
2, 3, 4, 6, 7, 8-HXCDF	ppt	91.4	85.8	6.32
1, 2, 3, 7, 8, 9-HXCDF	ppt	96.5	95.4	1.15
1, 2, 3, 4, 6, 7, 8-HPCDF	ppt	76.1	77	1.18
1, 2, 3, 4, 7, 8, 9-HPCDF	ppt	96.2	93.3	3.06
OCDF	ppt	99	99.8	0.8

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

41530 A, B, C, D RE: C1001D1P1, C1001D1D1, C1005D1P1, C1006D1P1, WM003D1P1, EE05DD1P1, EE05UD1P1, EEN2DD1P1, EEN2UD1P1, EEN1DD1P1, EEN1UD1P1, L8008S1P1, L8020S1P1, L8020S1D1, L8007S1P1, L8026S1P1, L8032S1P1, L8017S1P1, WM001D1P1

MS = MATRIX SPIKE *SAMPLE L8020S1P1*		SDG 41530 A, B, C, D RE		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
D/F COMPOUNDS	UNITS			
2, 3, 7, 8 -TCDD	ppt	93.5	91.3	2.38
1, 2, 3, 7, 8-PECDD	ppt	83.9	82	2 29
1, 2, 3, 4, 7, 8-HXCDD	ppt	94.2	91.2	3.24
1, 2, 3, 6, 7, 8-HXCDD	ppt	91.9	91.7	0.22
1, 2, 3, 7, 8, 9-HXCDD	ppt	92.6	89.3	3.63
1, 2, 3, 4, 6, 7, 8-HPCDD	ppt	96.2	95.2	1.04
OCDD	ppt	72.7	80.6	10.3
2, 3, 7, 8-TCDF	ppt	92.7	90.1	2.84
1, 2, 3, 7, 8-PECDF	ppt	91.6	90.6	1.1
2, 3, 4, 7, 8-PECDF	ppt	79.8	79.2	0.75
1, 2, 3, 4, 7, 8-HXCDF	ppt	93.8	81.5	2.48
1, 2, 3, 6, 7, 8-HXCDF	ppt	92.2	92.8	0.65
2, 3, 4, 6, 7, 8-HXCDF	ppt	79.7	77.9	2.28
1, 2, 3, 7, 8, 9-HXCDF	ppt	90.2	84	7.12
1, 2, 3, 4, 6, 7, 8-HPCDF	ppt	102	103	0.98
1, 2, 3, 4, 7, 8, 9-HPCDF	ppt	108	102	5.71
OCDF	ppt	101	93.5	7.71

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

41530 A, B, C, D RE: C1001D1P1, C1001D1D1, C1005D1P1, C1006D1P1, WM003D1P1, EE05DD1P1, EE05UD1P1, EEN2DD1P1, EEN2UD1P1, EEN1DD1P1, EEN1UD1P1, L8008S1P1, L8020S1P1, L8020S1D1, L8007S1P1, L8026S1P1, L8032S1P1, L8017S1P1, WM001D1P1

COMPOUND	ADVISORY LIMITS		RPD
	%R SOIL		SOIL
ALL COMPOUNDS	70%-130%		20

TABLE 2 - 20
DIOXIN/FURANS
SOIL SAMPLE MATRIX SPIKE/MATRIX SPIKE DUPLICATES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

MS = MATRIX SPIKE *SAMPLE D1003D1D1*		SDG 41363 AR1, B, C, D		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
D/F COMPOUNDS	UNITS			
2, 3, 7, 8 -TCDD	ppt	-16.9*	-92.4*	138*
1, 2, 3, 7, 8-PECDD	ppt	82.7	87.1	5.18
1, 2, 3, 4, 7, 8-HXCDD	ppt	83.7	93.5	11.1
1, 2, 3, 6, 7, 8-HXCDD	ppt	84.5	88.8	4.96
1, 2, 3, 7, 8, 9-HXCDD	ppt	89	92.5	3.86
1, 2, 3, 4, 6, 7, 8-HPCDD	ppt	81.8	81.7	0.12
OCDD	ppt	74.3	45.7*	47.7*
2, 3, 7, 8-TCDF	ppt	73.4	63.1*	15.1
1, 2, 3, 7, 8-PECDF	ppt	85.1	90.5	6.15
2, 3, 4, 7, 8-PECDF	ppt	77.4	83.4	7.46
1, 2, 3, 4, 7, 8-HXCDF	ppt	89.2	92.8	3.96
1, 2, 3, 6, 7, 8-HXCDF	ppt	84.7	88.7	4.61
2, 3, 4, 6, 7, 8-HXCDF	ppt	87.5	92.3	5.34
1, 2, 3, 7, 8, 9-HXCDF	ppt	89.7	93.8	4.47
1, 2, 3, 4, 6, 7, 8-HPCDF	ppt	84.2	82.9	1.56
1, 2, 3, 4, 7, 8, 9-HPCDF	ppt	88	92.5	4.99
OCDF	ppt	86.9	97.2	11.2

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

41363 AR1, B, C, D: D1005S1P1, D1001S1P1, D1003S1P1, L8004S1P1, L8004S1D1, L8003S1P1, L8009S1P1, L8014S1P1, D1007D1P1, D1005D1P1, D1004D1P1, D1001D1P1, D1003D1P1, D1003D1D1, D1002D1P1

MS = MATRIX SPIKE *SAMPLE D6002D1P1*		SDG 41327 A, B, C		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
D/F COMPOUNDS	UNITS			
2, 3, 7, 8 -TCDD	ppt	77.5	78.4	1.15
1, 2, 3, 7, 8-PECDD	ppt	78.8	79.5	0.88
1, 2, 3, 4, 7, 8-HXCDD	ppt	80.6	79.5	1.37
1, 2, 3, 6, 7, 8-HXCDD	ppt	91	91.5	0.55
1, 2, 3, 7, 8, 9-HXCDD	ppt	81.8	81.4	0.49
1, 2, 3, 4, 6, 7, 8-HPCDD	ppt	93.2	92.8	0.43
OCDD	ppt	118	84.3	33.3*
2, 3, 7, 8-TCDF	ppt	92.6	90	2.85
1, 2, 3, 7, 8-PECDF	ppt	85.9	89.2	3.77
2, 3, 4, 7, 8-PECDF	ppt	75.5	79.1	4.66
1, 2, 3, 4, 7, 8-HXCDF	ppt	91	89.3	1.89
1, 2, 3, 6, 7, 8-HXCDF	ppt	94.2	94.9	0.74
2, 3, 4, 6, 7, 8-HXCDF	ppt	96.6	94.6	2.09
1, 2, 3, 7, 8, 9-HXCDF	ppt	97.8	94.2	3.75
1, 2, 3, 4, 6, 7, 8-HPCDF	ppt	73.6	76.6	3.99
1, 2, 3, 4, 7, 8, 9-HPCDF	ppt	96.7	92.1	4.87
OCDF	ppt	100	94.9	5.23

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

41327 A, B, C: D5001D1P1, D5002D1P1, D2009D1P1, D5004S1P1, D5007S1P1, D5013S1P1, D5016D1P1, D5017D1P1, D6003D1P1, D6005D1P1, D6006D1P1, D6004D1P1, D6005D1P1, D5003D1P1, D5004D1P1, D5006D1P1, D5007D1P1, D5001D1P1, D6002D1P1, D6002D1D1

COMPOUND	ADVISORY LIMITS	RPD
	%R SOIL	SOIL
ALL COMPOUNDS	70%-130%	20

TABLE 2 - 20
DIOXIN/FURANS
SOIL SAMPLE MATRIX SPIKE/MATRIX SPIKE DUPLICATES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

MS = MATRIX SPIKE *SAMPLE D6002D1P1*		SDG 41327 A, B, C RE		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
D/F COMPOUNDS	UNITS			
2, 3, 7, 8 -TCDD	ppt	83.6	78.6	6.17
1, 2, 3, 7, 8-PECDD	ppt	75.6	76.5	1.18
1, 2, 3, 4, 7, 8-HXCDD	ppt	71.4	75.6	5.71
1, 2, 3, 6, 7, 8-HXCDD	ppt	89.5	93.2	4.05
1, 2, 3, 7, 8, 9-HXCDD	ppt	80.2	83.5	4.03
1, 2, 3, 4, 6, 7, 8-HPCDD	ppt	92.2	89.8	2.64
OCDD	ppt	120	89.8	28.8
2, 3, 7, 8-TCDF	ppt	86.6	86.2	0.46
1, 2, 3, 7, 8-PECDF	ppt	82.4	84.8	2.87
2, 3, 4, 7, 8-PECDF	ppt	78.8	78.6	0.25
1, 2, 3, 4, 7, 8-HXCDF	ppt	83.2	87.3	4.81
1, 2, 3, 6, 7, 8-HXCDF	ppt	92.4	92.1	0.33
2, 3, 4, 6, 7, 8-HXCDF	ppt	92.1	91.2	0.98
1, 2, 3, 7, 8, 9-HXCDF	ppt	94.7	94.8	0.11
1, 2, 3, 4, 6, 7, 8-HPCDF	ppt	72	74.2	3.01
1, 2, 3, 4, 7, 8, 9-HPCDF	ppt	83.4	85.6	2.6
OCDF	ppt	87	85.5	1.74

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

41327 A, B, C RE: D2009D1P1, D5004S1P1, D5007S1P1, D5016D1P1, D5017D1P1, D6003D1P1, D6006D1P1, D6004D1P1, D6005D1P1, D5003D1P1, D5004D1P1, D5006D1P1, D6001D1P1, D6002D1P1, D6002D1D1

MS = MATRIX SPIKE *SAMPLE D3007D1P3*		SDG 42239		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
D/F COMPOUNDS	UNITS			
2, 3, 7, 8 -TCDD	ppt	90.7	86	5.32
1, 2, 3, 7, 8-PECDD	ppt	85.1	85.6	0.59
1, 2, 3, 4, 7, 8-HXCDD	ppt	87.8	81.6	7.32
1, 2, 3, 6, 7, 8-HXCDD	ppt	95.5	95.7	0.21
1, 2, 3, 7, 8, 9-HXCDD	ppt	93.5	91.6	2.05
1, 2, 3, 4, 6, 7, 8-HPCDD	ppt	80.3	96.1	17.9
OCDD	ppt	27*	96.4	112*
2, 3, 7, 8-TCDF	ppt	96.2	90.1	6.55
1, 2, 3, 7, 8-PECDF	ppt	97.1	91.6	5.83
2, 3, 4, 7, 8-PECDF	ppt	77.2	67.3*	13.7
1, 2, 3, 4, 7, 8-HXCDF	ppt	94.4	86.4	8.85
1, 2, 3, 6, 7, 8-HXCDF	ppt	99.3	95.1	4.32
2, 3, 4, 6, 7, 8-HXCDF	ppt	92.7	87.8	5.43
1, 2, 3, 7, 8, 9-HXCDF	ppt	90.9	85.2	6.47
1, 2, 3, 4, 6, 7, 8-HPCDF	ppt	81.4	82.8	1.71
1, 2, 3, 4, 7, 8, 9-HPCDF	ppt	72.9	76.9	5.34
OCDF	ppt	88.4	74.9	16.5

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

42239: D2001D1P3, D2001D1D3, D3007D1P3, D5001D1P3, D5002D1P3, D5007D1P3, D5009D1P3, D5011D1P3, D5012D1P3, D5015D1P3

COMPOUND	ADVISORY LIMITS		RPD
	%R SOIL		SOIL
ALL COMPOUNDS	70%-130%		20

TABLE 2 - 20
DIOXIN/FURANS
SOIL SAMPLE MATRIX SPIKE/MATRIX SPIKE DUPLICATES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

MS = MATRIX SPIKE *SAMPLE WL010D1D1*		SDG 41844 A, AR2, B		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
D/F COMPOUNDS	UNITS			
2, 3, 7, 8 -TCDD	ppt	95.2	95.7	0.52
1, 2, 3, 7, 8-PECDD	ppt	102	101	0.99
1, 2, 3, 4, 7, 8-HXCDD	ppt	102	99.5	2.48
1, 2, 3, 6, 7, 8-HXCDD	ppt	111	109	1.82
1, 2, 3, 7, 8, 9-HXCDD	ppt	87.4	91.7	4.8
1, 2, 3, 4, 6, 7, 8-HPCDD	ppt	100	113	12.2
OCDD	ppt	58.9*	72.3	20.4*
2, 3, 7, 8-TCDF	ppt	115	112	2.64
1, 2, 3, 7, 8-PECDF	ppt	106	101	4.83
2, 3, 4, 7, 8-PECDF	ppt	114	108	5.41
1, 2, 3, 4, 7, 8-HXCDF	ppt	114	107	6.33
1, 2, 3, 6, 7, 8-HXCDF	ppt	117	112	4.37
2, 3, 4, 6, 7, 8-HXCDF	ppt	96	98.9	2.98
1, 2, 3, 7, 8, 9-HXCDF	ppt	111	112	0.9
1, 2, 3, 4, 6, 7, 8-HPCDF	ppt	92.6	86.8	6.47
1, 2, 3, 4, 7, 8, 9-HPCDF	ppt	124	110	12
OCDF	ppt	140*	129	8.18

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

41844 A, AR2, B: WL005D1P1, WL006D1P1, WL007D1P1, WL008D1P1, WL009D1P1, WL010D1P1, WL010D1D1, BC005D1P1, BC004D1P1, BC003D1P1

MS = MATRIX SPIKE *SAMPLE D1007D1P3*		SDG 42263		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
D/F COMPOUNDS	UNITS			
2, 3, 7, 8 -TCDD	ppt	117	78.7	39.1*
1, 2, 3, 7, 8-PECDD	ppt	83.3	84.2	1.07
1, 2, 3, 4, 7, 8-HXCDD	ppt	81.5	85.6	4.91
1, 2, 3, 6, 7, 8-HXCDD	ppt	94.9	99.8	5.03
1, 2, 3, 7, 8, 9-HXCDD	ppt	85.1	89.9	5.49
1, 2, 3, 4, 6, 7, 8-HPCDD	ppt	95	94.4	0.63
OCDD	ppt	110	90.7	19.2
2, 3, 7, 8-TCDF	ppt	99.1	91.1	8.41
1, 2, 3, 7, 8-PECDF	ppt	86.5	92.3	6.49
2, 3, 4, 7, 8-PECDF	ppt	73.7	80.1	8.32
1, 2, 3, 4, 7, 8-HXCDF	ppt	89	93.6	5.04
1, 2, 3, 6, 7, 8-HXCDF	ppt	94.5	99	4.65
2, 3, 4, 6, 7, 8-HXCDF	ppt	86.9	93.4	7.21
1, 2, 3, 7, 8, 9-HXCDF	ppt	82.2	85.1	3.47
1, 2, 3, 4, 6, 7, 8-HPCDF	ppt	72	76.2	5.67
1, 2, 3, 4, 7, 8, 9-HPCDF	ppt	73.7	75.6	2.55
OCDF	ppt	112	108	3.64

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

42263: WL002D1P3, EE04DD1P3, D6005D1P3, D4002D1P3, D3006D1P3, D2008D1P3, D2005D1P3, D2003D1P3, D1014D1P3, D1010D1P3, D1007D1P3, D1003D1P3, D1001D1P3, D1001D1D3

COMPOUND	ADVISORY LIMITS		RPD
	%R SOIL		SOIL
ALL COMPOUNDS	70%-130%		20

TABLE 2 - 20
DIOXIN/FURANS
SOIL SAMPLE MATRIX SPIKE/MATRIX SPIKE DUPLICATES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

MS = MATRIX SPIKE *SAMPLE TC006D1D1*		SDG 41776 A, AR1, B		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
D/F COMPOUNDS	UNITS			
2, 3, 7, 8 -TCDD	ppt	94.9	90.2	5.08
1, 2, 3, 7, 8-PECDD	ppt	89.3	87.7	1.81
1, 2, 3, 4, 7, 8-HXCDD	ppt	129	89.6	36*
1, 2, 3, 6, 7, 8-HXCDD	ppt	128	104	20.7*
1, 2, 3, 7, 8, 9-HXCDD	ppt	150*	96.5	43.4*
1, 2, 3, 4, 6, 7, 8-HPCDD	ppt	106	98.2	7.64
OCDD	ppt	95.3	69.6*	31.2*
2, 3, 7, 8-TCDF	ppt	104	95.6	8.42
1, 2, 3, 7, 8-PECDF	ppt	100	92.8	7.47
2, 3, 4, 7, 8-PECDF	ppt	80.6	78.7	2.39
1, 2, 3, 4, 7, 8-HXCDF	ppt	111	110	0.9
1, 2, 3, 6, 7, 8-HXCDF	ppt	119	114	4.29
2, 3, 4, 6, 7, 8-HXCDF	ppt	114	114	0
1, 2, 3, 7, 8, 9-HXCDF	ppt	120	117	2.53
1, 2, 3, 4, 6, 7, 8-HPCDF	ppt	96.3	88.5	8.44
1, 2, 3, 4, 7, 8, 9-HPCDF	ppt	112	110	1.8
OCDF	ppt	124	126	1.6

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

41776 A, AR1, B: TC006D1P1, TC006D1D1, TC007D1P1, TC008D1P1

COMPOUND	ADVISORY LIMITS		RPD
	%R SOIL		SOIL
ALL COMPOUNDS	70%-130%		20

acceptable analytical sequence, b) reported from the RE analysis, or c) reported from the original analysis under unacceptable sequence because they were not re-analyzed as requested. When the original analysis results and the re-analysis results are both presented in a PARCC table, the reported sample is specifically noted in the narrative text.

2.1 Water Matrix

No target compounds requiring RPD calculation were detected in either the water samples or associated duplicates for the volatile fraction, the semivolatile fraction, or the herbicide fraction (Tables 2-1, 2-2 & 2-4). Therefore, no precision assessment based on field duplicate pairs was conducted for those parameters.

The pesticides/PCB analysis of the field duplicate pair of sample L4001P1P1 exhibited a non-compliant RPD for the reported compound dieldrin (Table 2-3). The non-compliant compound was detected in the both the original sample and the field duplicate at concentrations below the CRQL. The non-compliance for dieldrin can be attributed to the low concentrations detected in the sample. Assessment of the calibration data indicates that criteria was met for the non-compliant compound (Appendix A, Table A-3).

The dioxin/furan analysis of the field duplicate pair of sample TC006W1P1 from SDG 41776A, AR1,B exhibited acceptable precision for the one (1) target compound requiring RPD calculation (Table 2-5).

The dioxin/furan analysis of the field duplicate pair of sample GPT44G1P1 from SDG 41844A,AR2,B exhibited non-compliant RPDs for the four (4) compounds requiring RPD calculation (Table 2-5). The non-compliant congeners are 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, 1,2,3,4,6,7,8,9-OCDD, and 1,2,3,4,7,8,9-HpCDF. The compounds were reported at concentrations higher in the field duplicate than in the field sample. The non-compliance for these congeners may be attributed to field and/or laboratory inconsistencies.

The dioxin/furan analysis of the field duplicate pair of sample D3007W1P1 from SDG 42239 exhibited non-compliant RPDs for the four (4) compounds requiring RPD calculation (Table 2-5, page 2-6). The non-compliant congeners are 1,2,3,4,6,7,8-HpCDD, 1,2,3,4,6,7,8,9-OCDD, 1,2,3,4,6,7,8-HpCDF, and 1,2,3,4,6,7,8,9-OCDF. The compounds were reported at concentrations significantly higher in the field duplicate than in the field sample. The non-compliance for these congeners may be attributed to field sampling inconsistencies.

All positive results reported in the dioxin/furan analysis of the field duplicate pairs of samples C1001W1P1, D1003W1P1, D2006W1P1, and L4001P1P1 were rejected, R, due to the laboratory's lack of compliance to the method calibration sequence requirements. Therefore, no precision assessment was made based on these field duplicate pairs. This non-compliance is discussed in detail in the Comparability and the Completeness Sections of this narrative. Precision assessments for the re-analysis results of the field duplicate pairs are made in the following narrative for those pairs that were re-analyzed by the laboratory. The field duplicate pairs of samples C1001W1P1 and D1003W1P1 were not re-analyzed (Table 2-5, page 2-7).

The field duplicate pair of sample D2006W1P1 was re-analyzed. The RE of this field duplicate pair exhibited non-compliant RPDs for the three (3) compounds requiring RPD calculation (Table 2-5, page 2-7). The non-compliant congeners are 1,2,3,4,6,7,8,9-OCDD, 2,3,4,6,7,8-HxCDF, and 1,2,3,4,6,7,8,9-OCDF. The results for the congeners 1,2,3,4,6,7,8,9-OCDD in the field duplicate and for 2,3,4,6,7,8-HxCDF and 1,2,3,4,6,7,8,9-OCDF were reported as estimated maximum possible concentrations (EMPCs). The non-compliance for the congeners 1,2,3,4,6,7,8,9-OCDD, 2,3,4,6,7,8-HxCDF, and 1,2,3,4,6,7,8,9-OCDF may be attributed to the field sampling inconsistencies.

The field duplicate pair of sample L4001P1P1 was re-analyzed. The RE of this field duplicate pair exhibited non-compliant RPDs for the three (3) compounds requiring RPD calculation (Table 2-5, page 2-8). The non-compliant congeners are 1,2,3,4,6,7,8-HpCDD, 1,2,3,4,6,7,8,9-OCDD, and 1,2,3,4,6,7,8,9-OCDF. The compounds were reported at concentrations significantly higher in the field duplicate than in the field duplicate.

The non-compliance for the congeners 1,2,3,4,6,7,8-HpCDD, 1,2,3,4,6,7,8,9-OCDD, and 1,2,3,4,6,7,8,9-OCDF may be attributed to field sampling inconsistencies.

The evaluation of precision of the water matrix for the MS/MSD samples is provided in Tables 2-11 through 2-15. All MS/MSD sample pairs analyzed for volatiles, semivolatiles, and herbicides exhibited acceptable RPDs between spike compounds (Tables 2-11, 2-12, and 2-14). For the dioxin/furan fraction, only MS/MSD pairs associated with field samples which are analyzed with compliant mass calibrations were discussed in this narrative.

The pesticides/PCBs analysis of the MS/MSD pair of sample GPT44G1P1 from SDG GULFW6 exhibited non-compliant RPDs for the compounds lindane, aldrin, dieldrin, and endrin (Table 2-13. page 2-30). The recoveries were consistently lower in the MSD than in the MS, which could indicate spiking or extraction inconsistency. However, based on the assessment of additional QC criteria, the analytical data did not require qualification.

The dioxin/furan analysis of the MS/MSD pair of sample D2006W1D1 from SDG 41291A,AR1&BRE exhibited a non-compliant RPD for the compound OCDF (Table 2-15. page 2-34). The recoveries were consistently lower in the MSD than in the MS, which could indicate spiking or extraction inconsistency. However, based on the assessment of additional QC criteria, the analytical data did not require qualification.

The dioxin/furan analysis of the MS/MSD pair of sample C1001W1P1 from SDG 41530A,B,C&D exhibited a non-compliant RPD for the compound OCDD (Table 2-15. page 2-35). The recoveries were consistently lower in the MS than in the MSD, which could indicate spiking or extraction inconsistency. However, based on the assessment of additional QC criteria, the analytical data did not require qualification.

The dioxin/furan analysis of the MS/MSD pair of sample GPT44G1D1 from SDG 41844A,AR2&B exhibited non-compliant RPDs for the congeners 2,3,7,8-TCDD and 2,3,7,8-TCDF (Table 2-15. page 2-36). The recoveries were consistently lower in the MSD than in the MS, which could indicate spiking or extraction inconsistency. However, based on the assessment of additional QC criteria, the analytical data did not require qualification.

The dioxin/furan analysis of the MS/MSD pair of sample TC006W1D1 from SDG 41776A,AR1&B exhibited a non-compliant RPD for the congener 1,2,3,4,7,8,9-HpCDF (Table 2-15. page 2-36). The recoveries were consistently lower in the MS than in the MSD, which could indicate spiking or extraction inconsistency. However, based on the assessment of additional QC criteria, the analytical data did not require qualification.

Based on assessment of duplicate precision evaluation criteria, the water matrix analytical data was acceptable for each SDG for the volatile, semivolatile, pesticide/PCB, herbicide and dioxin/furan analytical fractions. None of the analytical data required qualification because of precision non-compliances.

2.2 Soil Matrix

No target compounds requiring RPD calculation were detected in either the soil samples or associated duplicates for the herbicide fraction (Table 2-9). Therefore, no precision assessment based on field duplicate pairs was conducted for that parameters.

The volatile analysis of the field duplicate pairs of samples D2006D1P1 and L8013S1P1 did not exhibit compounds requiring RPD calculation (Table 2-6, page 2-9). The volatile analysis of the field duplicate pair of samples TC006D1P1 exhibited acceptable precision for the target compound acetone (Table 2-6, page 2-9).

The volatile analysis of the field duplicate pair of samples C1001D1P1 exhibited non-compliant precision for the target compounds acetone and 2-butanone (Table 2-6, page 2-9). The compounds acetone and 2-butanone were not reported in method blanks associated with the field duplicate pair. However, both compounds are common

laboratory contaminants and their presence in the laboratory as contaminants could impact duplicate precision results. Further, the both acetone and 2-butanone were outside the continuing calibration %D QC requirement (25%) in the associated continuing calibration standard (Appendix A, Table A-1, SDG EE01, CCAL1). This may have impacted the duplicate precision by causing random bias in the reported results. Therefore, the non-compliance for acetone and 2-butanone could be attributed to the potential for laboratory contamination as well as calibration deficiencies.

The semivolatile analysis of the field duplicate pairs of samples D2006D1P1, L8013S1P1, and TC006D1P1 did not exhibit compounds requiring RPD calculation (Table 2-7, page 2-10).

The semivolatile analysis of the field duplicate pair of sample C1001D1P1 exhibited non-compliant precision for the eleven (11) compounds requiring RPD calculation (Table 2-7, page 2-10). The non-compliant compounds were phenanthrene, anthracene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, and benzo(g,h,i)perylene. The compounds phenanthrene, anthracene, benzo(a)anthracene, chrysene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, and benzo(g,h,i)perylene were detected at concentrations below the CRQLs in the field sample, but above the CRQLs (<5X CRQL) in the field duplicate. Therefore, the non-compliance for phenanthrene, anthracene, benzo(a)anthracene, chrysene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, and benzo(g,h,i)perylene may be attributed to the low concentrations detected in the field sample. Three (3) compounds; fluoranthene, pyrene, and benzo(b)fluoranthene, were detected at concentrations above the CRQL in both the field sample and field duplicate. The RPDs for these compounds were 155% for fluoranthene, 144% for pyrene, and 135% for benzo(b)fluoranthene. There was some disparity between the moisture levels in the two (2) samples, with 36% moisture in the field sample and 28% moisture in the field duplicate. This indicates the potential for field sampling inconsistencies. Further, the field sample was analyzed undiluted, but the field duplicate was analyzed at a 1:2 dilution. Dilution of the extract can introduce the potential for inaccuracy in the sample measurements. The non-compliance for the compounds fluoranthene, pyrene, and benzo(b)fluoranthene may be attributed to field sampling and laboratory inconsistencies. The reported positive results for the three (3) compounds were appropriately qualified as estimated, J, due to the non-compliant precision RPDs. Assessment of the calibration data indicates that criteria was met for the non-compliant compounds (Appendix A, Table A-2).

The pesticide/PCB analysis of the field duplicate pair of sample TC006D1P1 did not exhibit positive results for target compounds (Table 2-8, Page 2-11).

The pesticide/PCB analysis of the field duplicate pair of sample L4001P1P1 exhibited a non-compliant RPD for one (1) of the four (4) compounds reported (Table 2-8, page 2-11). The non-compliant compound, 4,4'-DDE was detected in the both the original sample and the field duplicate at concentrations below the CRQL. The non-compliance for 4,4'-DDE can be attributed to the low concentrations detected in the sample. Assessment of the calibration data indicates that criteria was met for the non-compliant compound (Appendix A, Table A-3).

The pesticide/PCB analysis of the field duplicate pair of sample L8013S1P1 exhibited a non-compliant RPD for the only compound reported (Table 2-8, page 2-11). The non-compliant compound, 4,4'-DDT, was detected in the both the original sample and the field duplicate at concentrations below the CRQL. The non-compliance for 4,4'-DDT can be attributed to the low concentrations detected in the sample. Assessment of the calibration data indicates that criteria was met for the non-compliant compound (Appendix A, Table A-3).

The pesticide/PCB analysis of the field duplicate pair of sample C1001D1P1 exhibited a non-compliant RPD for one (1) of the four (4) compounds reported (Table 2-8, page 2-11). The non-compliant compound, gamma-chlordane, was detected in the both the original sample and the field duplicate at concentrations below the CRQL. The non-compliance for 4,4'-DDE can be attributed to the low concentrations detected in the sample. Assessment of the calibration data indicates that criteria was met for the non-compliant compound (Appendix A, Table A-3).

All positive results reported in the dioxin/furan analysis of the field duplicate pairs of samples D1015D1P1, D3007D1P1, L8031S1P1 (Table 2-10, page 2-15), L8013S1P1 (Table 2-10, page 2-17), C1001D1P1, L8020S1P1 (Table 2-10, page 2-18), L8004S1P1 (Table 2-10, page 2-19), D5011D1P1, D3002D1P1 (Table 2-10, page 2-21), WM005D1P1 and D6002D1P1 were rejected, R, due to the laboratory's lack of compliance to the method calibration sequence requirements. All positive results in the field duplicate of the field duplicate pair of sample D2006D1P1 were rejected, R, due to the laboratory's lack of compliance to the method calibration sequence requirements. Therefore, no precision assessment was made based on these field duplicate pairs. This non-compliance is discussed in detail in the Comparability and Completeness Sections of this narrative. Precision assessments for the re-analysis results of the field duplicate pairs are made in the following narrative for those pairs that were re-analyzed by the laboratory. The dioxin/furan analysis of the field duplicate pair of sample L8004S1P1 was not re-analyzed (Table 2-10, page 2-19, SDG 41363ARL,B,C,D).

The dioxin/furan analysis of the field duplicate pair of sample TC006D1P1 from SDG 41776A, AR1,B exhibited a non-compliant RPD for the one (1) of the four (4) target congeners requiring RPD calculation (Table 2-10, page 2-13). The non-compliant congener, 1,2,3,4,6,7,8,9-HpCDF, was reported as an EMPC in the field sample. The non-compliance for the congener 1,2,3,4,6,7,8,9-HpCDF may be attributed to the matrix.

The dioxin/furan analysis of the field duplicate pair of sample WL010D1P1 from SDG 41844A, AR2,B exhibited non-compliant RPDs for three (3) of the ten (10) target congeners requiring RPD calculation (Table 2-10, page 2-14). The non-compliant congeners were 2,3,7,8-TCDD, 1,2,3,7,8,9-HxCDD and 2,3,7,8-TCDF. The non-compliance for these congeners was slight, at 38% for 2,3,7,8-TCDD, 50% for 1,2,3,7,8,9-HxCDD, and 39% for 2,3,7,8-TCDF. There was some disparity in the moisture levels in the two (2) samples. The %moisture for the field sample was 66.5% and for the field duplicate was 64.3%. This could indicate minor field sampling inconsistencies. The non-compliance for the congeners 2,3,7,8-TCDD, 1,2,3,7,8,9-HxCDD and 2,3,7,8-TCDF may be attributed to field and/or laboratory inconsistencies.

The dioxin/furan analysis of the field duplicate pair of sample D2001D1P1 from SDG 42239 exhibited a non-compliant RPD for the one (1) of the sixteen (16) target congeners requiring RPD calculation (Table 2-10, page 2-14). The non-compliant congener was 2,3,4,6,7,8-HxCDF. The non-compliance for the congener may be attributed to field and/or laboratory inconsistencies.

The dioxin/furan analysis of the field duplicate pair of sample D1015D1P1 was re-analyzed (Table 2-10, page 2-15, SDG 41516A,B,C,DRE). The analysis exhibited acceptable RPDs for the fourteen (14) congeners reported.

The dioxin/furan analysis of the field duplicate pair of sample D3007D1P1 was re-analyzed (Table 2-10, page 2-16, SDG 41516A,B,C,DRE). The four (4) reported congeners requiring RPD calculation exhibited non-compliant RPDs. The non-compliant congeners were 1,2,3,4,6,7,8-HpCDD, 1,2,3,4,6,7,8,9-OCDD, 1,2,3,4,6,7,8-HpCDF, and 1,2,3,4,6,7,8,9-OCDF. A large disparity in the reported moisture levels in this field duplicate pair was noted. The field sample exhibited a moisture level of 16.1%. The field duplicate exhibited a moisture level of 33.2%. Therefore, the non-compliance for the congeners 1,2,3,4,6,7,8-HpCDD, 1,2,3,4,6,7,8,9-OCDD, 1,2,3,4,6,7,8-HpCDF, and 1,2,3,4,6,7,8,9-OCDF can be attributed to field sampling inconsistencies.

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The dioxin/furan analysis of the field duplicate pair of sample L8013S1P1 was re-analyzed (Table 2-10, page 2-16, SDG 41516A,B,C,DRE). One (1) of the seventeen (17) reported congeners requiring RPD calculation exhibited a non-compliant RPD. The non-compliant congener , 1,2,3,4,7,8-HxCDF, was reported as an EMPC in both the field sample and the field duplicate. The non-compliance for the congener 1,2,3,4,7,8-HxCDF may be attributed to the sample matrix.

The dioxin/furan analysis of the field duplicate pair of sample L8013S1P1 was re-analyzed (Table 2-10, page 2-17, SDG 41574A,B,CRE). The analysis exhibited acceptable RPDs for the three (3) congeners requiring RPD calculation.

The dioxin/furan analysis of the field duplicate pair of sample C1001D1P1 was re-analyzed (Table 2-10, page 2-18, SDG 41530A,B,C,DRE). The analysis exhibited acceptable RPDs for the twelve (12) congeners requiring RPD calculation.

The dioxin/furan analysis of the field duplicate pair of sample L8020S1P1 was re-analyzed (Table 2-10, page 2-16, SDG 41530A,B,C,DRE). One (1) of the five (5) reported congeners requiring RPD calculation exhibited a non-compliant RPD. The non-compliant congener, 2,3,7,8-TCDD, was reported as an EMPC in the field duplicate. The non-compliance for the congener 2,3,7,8-TCDD may be attributed to the sample matrix.

The dioxin/furan analysis of the field duplicate pair of sample D1003D1P1 from SDG 41363ARL,B,C,D exhibited a non-compliant RPD for one (1) of the eleven (11) target congeners requiring RPD calculation (Table 2-10, page 2-19). The non-compliant congener was 1,2,3,7,8-PeCDD. The congener was reported as an EMPC in both the field sample and the field duplicate. The non-compliance for the congener 1,2,3,7,8-PeCDD may be attributed to the sample matrix.

The precision assessment for the dioxin/furan analyses of the original analysis of the field duplicate pair of sample D5011D1P1 was not performed because the original sample was rejected due to the methodology non-compliances. The field duplicate results were not rejected. Although the field sample did not require re-analysis, both the field sample and field duplicate were reanalyzed by the laboratory. The dioxin/furan analysis of the field duplicate pair of sample D2006D1P1 in the re-analysis (Table 2-10, page 2-20, SDG 41291A,ARL&BRE) exhibited acceptable RPDs for the four (4) reported congeners requiring RPD calculation. A comparison of the field sample from the original analysis and the field duplicate from the RE analysis also exhibited acceptable precision results for the same four (4) congeners (Table 2-10, page 2-20, SDG 41291A,AR&B for the field sample and SDG 41291A,ARL&BRE for the field duplicate).

The dioxin/furan analysis of the field duplicate pair of sample D5011D1P1 from SDG 41300A,B,DRE exhibited a non-compliant RPD for two (2) of the four (4) target congeners requiring RPD calculation (Table 2-10, page 2-21). The non-compliant congeners were 1,2,3,4,6,7,8-HpCDD and 1,2,3,4,6,7,8,9-OCDF. The non-compliance for the congener 1,2,3,4,6,7,8-HpCDD was slight (36% RPD). The congener 1,2,3,4,6,7,8,9-OCDF exhibited a 121% RPD. The associated internal standard $^{13}C_{12}$-1,2,3,4,6,7,8,9-OCDD was recovered above the QC limit in the field duplicate sample (Table 3-2A, page 3-40). The reported result for the congener in the field duplicate was higher that the result in the field sample. The result was appropriately qualified as estimated, J, and should be considered potentially biased high. Non-compliant internal standard results are generally an indicator of matrix interferences. Therefore, the non-compliance for the congener 1,2,3,4,6,7,8,9-OCDF may be attributed to sample matrix.

The dioxin/furan analysis of the field duplicate pair of sample D3002D1P1 was re-analyzed (Table 2-10, page 2-21, SDG 41300A,B,C,DRE). The analysis exhibited acceptable RPDs for the four (4) congeners requiring RPD calculation.

The dioxin/furan analysis of the field duplicate pair of sample WM005D1P1 from SDG 41565ARL,B,CRE exhibited non-compliant RPDs for three (3) of the five (5) target congeners requiring RPD calculation (Table 2-10, page 2-22). The non-compliant congeners were 1,2,3,4,6,7,8-HpCDD, 1,2,3,4,6,7,8,9-OCDD, and 1,2,3,4,6,7,8,9-OCDF. The non-compliance for the congener 1,2,3,4,6,7,8-HpCDD was slight (36% RPD). The internal standard associated with the other two (2) non-compliant congeners was recovered above the QC limit in both the field sample and the field duplicate (Table 3-2A, page 3-48). The results for the congeners 1,2,3,4,6,7,8,9-OCDD and 1,2,3,4,6,7,8,9-OCDF were appropriately qualified as estimated, J, and should be considered potentially biased high. Non-compliant internal standard results are generally an indicator of matrix interferences. Further, the congener 1,2,3,4,6,7,8,9-OCDF was reported as an EMPC in both the field sample and field duplicate. Therefore, the non-compliance for the congeners 1,2,3,4,6,7,8,9-OCDD and 1,2,3,4,6,7,8,9-OCDF may be attributed to sample matrix.

The dioxin/furan analysis of the field duplicate pair of sample D6002D1P1 was re-analyzed (Table 2-10, page 2-22, SDG 41327A,B,CRE). The analysis exhibited acceptable RPDs for the four (4) congeners requiring RPD calculation.

Soil RF 4/16/98

The evaluation of precision of the ~~water~~ matrix for the MS/MSD samples is provided in Tables 2-16 through 2-20. All MS/MSD sample pairs analyzed for volatiles, pesticide/PCBs, and herbicides exhibited acceptable RPDs between spike compounds (Tables 2-16, 2-18, and 2-19).

The semivolatile analysis of the MS/MSD pair of sample D2006D1P1 from SDG D1D1 exhibited non-compliant RPDs for the compounds phenol, 1,4-dichlorobenzene, n-nitroso-di-n-propylamine, 1,2,4-trichlorobenzene, and acenaphthene (Table 2-17. page 2-40). The recoveries were consistently lower in the MS than in the MSD, which could indicate spiking or extraction inconsistency. However, based on the assessment of additional QC criteria, the analytical data did not require qualification.

The semivolatile analysis of the MS/MSD pair of sample C1001D1P1 from SDG EE01 exhibited non-compliant RPDs for the compounds 1,2,4-trichlorobenzene, acenaphthene, and pyrene (Table 2-17. page 2-40). The recoveries were consistently lower in the MS than in the MSD, which could indicate spiking or extraction inconsistency. However, based on the assessment of additional QC criteria, the analytical data did not require qualification.

The semivolatile analysis of the MS/MSD pair of sample L8013S1P1 from SDG EE01exhibited non-compliant RPDs for the compounds 1,4-dichlorobenzene and 1,2,4-trichlorobenzene (Table 2-17. page 2-41). However, based on the assessment of additional QC criteria, the analytical data did not require qualification.

The dioxin/furan analysis of the MS/MSD pair of sample D2006D1D1 from SDG 41291A,AR1&BRE exhibited non-compliant RPDs for the compounds OCDF and OCDD and the congener 1,2,3,4,6,7,8-HpCDF (Table 2-20, page 2-46). However, based on the assessment of additional QC criteria, the analytical data did not require qualification.

The dioxin/furan analysis of the MS/MSD pair of sample L8013S1P1 from SDG 41574A,B,CRE exhibited a non-compliant RPD for the compound OCDD (Table 2-20, page 2-47). The recoveries were consistently lower in the MS than in the MSD, which could indicate spiking or extraction inconsistency. However, based on the assessment of additional QC criteria, the analytical data did not require qualification.

The dioxin/furan analysis of the MS/MSD pair of sample D1015D1D1 from SDG 41516A,B,C,DRE exhibited non-compliant RPDs for the compound OCDD (Table 2-20, page 2-48). The recoveries were consistently lower in the MS than in the MSD, which could indicate spiking or extraction inconsistency. However, based on the assessment of additional QC criteria, the analytical data did not require qualification.

The dioxin/furan analysis of the MS/MSD pair of sample C1001D1P1 from SDG 41530A,B,C,DRE exhibited non-compliant RPDs for the compound OCDD and the congener 1,2,3,4,6,7,8-HpCDD (Table 2-20, page 2-50). However, based on the assessment of additional QC criteria, the analytical data did not require qualification.

The dioxin/furan analysis of the MS/MSD pair of sample D1003D1D1 from SDG 41363A,B,C,D was not reanalyzed although the positive results in the original analysis of the unspiked sample were rejected. The MS/MSD pair from the original analysis exhibited non-complaint RPDs for the compound OCDD and the congener 2,3,7,8-TCDD. However. based on the assessment of additional QC criteria, the analytical data did not require qualifications based on the non-compliant RPDs.

The dioxin/furan analysis of the MS/MSD pair of sample D3007D1P3 from SDG 42239 exhibited a non-compliant RPD for the compound OCDD (Table 2-20, page 2-52). However, based on the assessment of additional QC criteria, the analytical data did not require qualification.

The dioxin/furan analysis of the MS/MSD pair of sample WL010D1D1 from SDG 41844A,AR2,B exhibited a non-compliant RPD for the compound OCDD (Table 2-20, page 2-53). However, based on the assessment of additional QC criteria, the analytical data did not require qualification.

The dioxin/furan analysis of the MS/MSD pair of sample D1007D1P3 from SDG 42263 exhibited a non-compliant RPD for the congener 2,3,7,8-TCDD (Table 2-20, page 2-53). However, based on the assessment of additional QC criteria, the analytical data did not require qualification.

The dioxin/furan analysis of the MS/MSD pair of sample TC006D1D1 from SDG 41776A,AR1,B exhibited non-compliant RPDs for the compound OCDD and the congeners 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, and 1,2,3,7,8,9-HxCDD (Table 2-20, page 2-54). The recoveries were consistently lower in the MSD than in the MS, which could indicate spiking or extraction inconsistency. However, based on the assessment of additional QC criteria, the analytical data did not require qualification.

Based on assessment of duplicate precision evaluation criteria, the soil matrix analytical data was acceptable for each SDG for the volatile, pesticide/PCB, herbicide and dioxin/furan analytical fractions. None of the analytical data required qualification because of precision non-compliances.

The soil matrix analytical data was acceptable for each SDG for the semivolatile analytical fraction, with the noted potential for bias in the field sample C1001D1P1 and field duplicate C1001D1D1, for the three (3) target compounds reported above the CRQL.

draft

3.0 ACCURACY

The assessment of accuracy is evaluated by comparison of the percent recovery (%R) computed from the known concentration of compound/analyte spikes and their recovered concentration versus the analytical method acceptance criteria. Spike recoveries provide an indication of bias, where the reported data may either overestimate or underestimate the actual concentration of detected compounds and/or the detection limits. Recoveries outside acceptable criteria may be caused by factors such as matrix interference, poor analytical precision, or instrument calibration.

The following Sections summarize the evaluation of analytical accuracy for the water and soil matrices for the following analytical groups:

- volatile compounds (VOCs);
- semivolatile compounds (SVOCs);
- pesticides, PCBs,;
- herbicides; and
- dioxin/furans.

Accuracy was assessed using MS and MSD samples for each matrix, as well as surrogate compound recoveries for those analytical fraction which utilize them. Accuracy for the dioxin/furan fraction was assessed using the recovery of internal standards. The results of the evaluation of accuracy for the MS/MSD samples is provided in Tables 2-11 through 2-15 for water matrix and in Tables 2-16 through 2-20 for the soil samples. The results of the evaluation of accuracy for the surrogates in the samples are provided in Table 3-1 through 3-4 for the water matrix and in Tables 3-5 through 3-8 for the soil matrix. The results of the evaluation of accuracy for the internal standards (dioxin/furan fraction only) in the samples are provided in Table 3-1A for the water matrix and in Table 3-2A for the soil matrix.

As noted in the Introduction section of this report, for the Dioxin/Furan fraction, the discussion of Precision will be limited to those sample results reported for the field study which were a) reported from original analysis under acceptable analytical sequence, b) reported from the RE analysis, or c) reported from the original analysis under unacceptable sequence because they were not re-analyzed as requested. When the original analysis results and the re-analysis results are both presented in a PARCC table, the reported sample is specifically noted in the narrative text.

3.1 Water Matrix

All MS/MSD sample pairs analyzed for volatiles and herbicides exhibited acceptable recoveries of spike compounds (Tables 2-11 and 2-14).

The MS/MSD pair analyzed for the semivolatile fraction of sample C1001W1P1 from SDG DI102 (Table 2-12, page 2-26) exhibited acceptable recoveries for all spiked compounds.

The MS/MSD of sample D2006W1P1 from SDG D1D1 analyzed for semivolatile fraction exhibited non-compliant recoveries above the QC limits for 4-nitrophenol in the MS and MSD (Table 2-12, page 2-26). The non-compliances were slight. Based on the assessment of additional QC criteria the analytical data did not require qualification.

The MS/MSD of sample L4001P1P1 from SDG DI102 analyzed for semivolatile fraction exhibited non-compliant recoveries above the QC limits for 4-chloro-3-methylphenol and pentachlorophenol in the MSD (Table 2-12, page 2-27). The non-compliances were slight. Based on the assessment of additional QC criteria the analytical data did not require qualification.

TABLE 3-1
SURROGATE % RECOVERIES
VOLATILE WATER SAMPLES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	SAMPLE ID	SMC1	SMC2	SMC3	TOTAL OUT
D1D1	D2003W1P1	103	94	102	0
	D2006W1D1	105	96	102	0
	QATB101	103	94	101	0
	D2006W1P1	105	96	104	0
	D2006W1P1MS	106	95	103	0
	D2006W1P1MSD	107	96	106	0
	D5013W1P1	107	93	103	0
	D5009W1P1	107	94	100	0
	QATB102	107	96	105	0
	D3005W1P1	108	95	104	0
	D3003W1P1	108	95	107	0
	QADI101	106	94	100	0
	QARI101	108	95	108	0
2009	D5007W1P1	105	97	108	0
	D5004W1P1	106	96	103	0
	D1013W1P1	106	96	108	0
	D1010W1P1	108	91	102	0
	D1008W1P1	109	96	105	0
	QATB103	106	96	108	0
1001	D1005W1P1	109	95	101	0
	D1001W1P1	108	96	106	0
	D1003W1P1	93	96	97	0
	QARI102	97	98	94	0
	QATB104	98	96	95	0
DI102	QADI102	102	100	98	0
	QARI103	101	95	97	0
	QATB105	104	98	97	0
	C1001W1P1	103	97	97	0
	C1001W1P1MS	101	96	95	0
	C1001W1P1MSD	103	96	97	0
	C1001W1D1	104	97	100	0
	QATB106	104	96	97	0
	WM002W1P1	106	92	94	0
	QATB107	105	93	94	0
	TC002W1P1	102	91	94	0
	QAR1104	105	91	93	0
	QARTB108	108	91	95	0
	L4001P1D1	104	92	94	0
	L4002P1P1	102	93	95	0
	L4001P1P1	103	92	97	0
	L4001P1P1MS	103	93	92	0
	L4001P1P1MSD	101	93	97	0
	QATB109	101	93	98	0
	QARI105	104	95	94	0
	QATB110	103	94	98	0

SMC1 = TOLUENE - D8 QC LIMITS 88% - 110%
SMC2 = BROMOFLUOROBENZENE QC LIMITS 86% - 115%
SMC3 = 1,2 - DICHLOROETHANE - D4 QC LIMITS 76% - 114%

D - INDICATES SURROGATE DILUTED OUT
* - INDICATES VALUE OUTSIDE QC LIMITS

TABLE 3-1
SURROGATE % RECOVERIES
VOLATILE WATER SAMPLES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	SAMPLE ID	SMC1	SMC2	SMC3	TOTAL OUT
GULFW6	QADI103	102	100	95	0
	TC006W1D1	103	98	91	0
	QATB111	102	97	95	0
	QATB112	103	97	90	0
	TC006W1P1	100	96	97	0
	TC006W1P1MS	102	96	92	0
	TC006W1P1MSD	102	98	93	0
	BB003W1P1	103	98	96	0
	GPT44G1D1	103	95	88	0
	QATB113	101	96	96	0
	GPT45G1P1	99	96	88	0
	QARI108	107	97	90	0
	GPT44G1P1	104	99	105	0
	GPT44G1P1MS	106	100	105	0
	GPT44G1P1MSD	106	99	100	0
	QARI109	108	99	103	0
	BC003W1P1	108	102	104	0
	GPT54G1P1	106	101	96	0
	GPT55G1P1	107	99	107	0
	GPT56G1P1	105	99	99	0
	GPT47G1P1	108	101	99	0
	GPT46G1P1	108	100	99	0
	QARI110	108	100	98	0
	QARI111	105	99	94	0
	QATB114	108	100	101	0

SMC1 = TOLUENE - D8 QC LIMITS 88% - 110%
SMC2 = BROMOFLUOROBENZENE QC LIMITS 86% - 115%
SMC3 = 1,2 - DICHLOROETHANE - D4 QC LIMITS 76% - 114%

D - INDICATES SURROGATE DILUTED OUT
* - INDICATES VALUE OUTSIDE QC LIMITS

# SAMPLES	% REC IN	%REC OUT	% TOTAL IN
70	210	0	100.0%

TABLE 3 - 2
SURROGATE % RECOVERIES
SEMIVOLATILE WATER SAMPLES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	SAMPLE ID	S1	S2	S3	S4	S5	S6	S7	S8	TOTAL OUT
D1D1	D2006W1D1	72	72	84	73	71	101	71	74	0
	D2006W1P1	78	78	84	79	75	107	72	76	0
	D2006W1P1MS	80	82	92	81	79	104	76	74	0
	2006W1P1MS	80	78	78	80	77	93	73	76	0
	D5013W1P1	78	78	32*	72	75	103	75	78	1
	D5009W1P1	86	78	44	80	81	104	79	80	0
	QADI101	72	74	88	65	64	67	61	64	0
	QARI101	80	74	94	80	75	79	73	76	0
	D2003W1P1	76	76	52	77	76	97	76	76	0
	D3003W1P1	84	84	92	85	85	103	81	84	0
	D3005W1P1	76	84	84	75	77	99	75	86	0
2009	D5007W1P1	76	70	48	71	68	89	75	70	0
	D1013W1P1	78	78	76	80	71	96	77	76	0
	D1010W1P1	74	74	76	67	67	91	72	72	0
	D1008W1P1	74	64	80	71	68	81	68	68	0
	D5004W1P1	68	64	32*	60	64	85	65	64	1
1001	D1005W1P1	74	76	86	77	67	92	71	66	0
	D1001W1P1	68	68	46	69	60	84	68	68	0
	D1003W1P1	72	70	78	72	64	84	69	68	0
	QARI102	78	78	98	79	69	84	73	72	0
DI102	QADI102	74	74	90	80	72	89	77	78	0
	QARI103	74	80	92	77	71	92	79	80	0
	C1001W1P1	66	72	60	65	57	88	68	68	0
	C1001W1P1MS	80	82	60	83	76	96	83	84	0
	1001W1P1MS	72	74	58	77	69	91	77	78	0
	C1001W1D1	72	78	72	75	69	100	75	82	0
	WM002W1P1	78	80	94	71	61	97	71	74	0
	TC002W1P1	76	78	68	76	68	99	75	76	0
	QAR1104	72	72	110	72	61	88	72	76	0
	L4001P1D1	74	78	74	67	60	100	71	76	0
	L4002P1P1	76	76	78	65	61	97	71	76	0
	L4001P1P1	74	78	70	69	63	104	71	80	0
	L4001P1P1MS	78	84	70	80	68	99	76	76	0
	L4001P1P1MSD	80	88	86	83	73	108	77	80	0
	QARI105	72	72	92	72	68	73	73	78	0

S1 = NITROBENZENE-D5	QC LIMITS 35% - 114%	
S2 = 2-FLUOROBIPHENYL	QC LIMITS 43% - 116%	
S3 = TERPHENYL-D14	QC LIMITS 33% - 141%	
S4 = PHENOL-D5	QC LIMITS 10% - 110%	
S5 = 2-FLUOROPHENOL	QC LIMITS 21% - 110%	
S6 = 2,4,6-TRIBROMOPHENOL	QC LIMITS 10% - 123%	
S7 = 2-CHLOROPHENOL-D4	QC LIMITS 33% - 110%	ADVISORY
S8 = 1,2-DICHLOROBENZENE-D4	QC LIMITS 16% - 110%	ADVISORY

D - INDICATES SURROGATE DILUTED OUT
* - INDICATES VALUE OUTSIDE QC LIMITS
NA - INDICATES SURROGATE SPIKE NOT REQUIRED FOR METHOD UTILIZED.

TABLE 3 - 2
SURROGATE % RECOVERIES
SEMIVOLATILE WATER SAMPLES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	SAMPLE ID	S1	S2	S3	S4	S5	S6	S7	S8	TOTAL OUT
GULFW6	QADI103	82	86	106	95	84	83	92	86	0
	TC006W1D1	88	88	96	100	83	99	91	82	0
	TC006W1P1	78	74	90	88	76	83	80	76	0
	TC006W1P1MS	74	76	72	89	75	76	83	80	0
	C006W1P1MS	76	80	84	89	80	87	84	76	0
	BB003W1P1	98	88	88	93	85	85	89	80	0
	GPT44G1D1	88	80	56	61	69	73	64	70	0
	GPT45G1P1	82	88	46	92	87	67	88	82	0
	QARI108	86	84	114	104	84	95	96	90	0
	GPT44G1P1	86	88	36	76	81	72	79	80	0
	GPT44G1P1MS	78	84	40	73	80	69	79	74	0
	GPT44G1P1MSD	84	90	38	75	76	64	75	74	0
	QARI109	108	82	94	76	84	76	80	78	0
	BC003W1P1	100	78	80	69	85	83	76	80	0
	GPT54G1P1	68	72	36	88	75	77	81	76	0
	GPT55G1P1	76	80	40	81	71	88	77	76	0
	GPT56G1P1	94	78	16*	104	93	79	97	92	1
	GPT47G1P1	78	84	40	100	81	81	93	86	0
	GPT46G1P1	78	76	34	92	76	73	84	80	0
	QARI110	86	80	98	95	79	75	87	80	0
	QARI111	92	86	90	84	77	67	83	72	0

S1 = NITROBENZENE-D5	QC LIMITS 35% - 114%	
S2 = 2-FLUOROBIPHENYL	QC LIMITS 43% - 116%	
S3 = TERPHENYL-D14	QC LIMITS 33% - 141%	
S4 = PHENOL-D5	QC LIMITS 10% - 110%	
S5 = 2-FLUOROPHENOL	QC LIMITS 21% - 110%	
S6 = 2,4,6-TRIBROMOPHENOL	QC LIMITS 10% - 123%	
S7 = 2-CHLOROPHENOL-D4	QC LIMITS 33% - 110%	ADVISORY
S8 = 1,2-DICHLOROBENZENE-D4	QC LIMITS 16% - 110%	ADVISORY

D - INDICATES SURROGATE DILUTED OUT
* - INDICATES VALUE OUTSIDE QC LIMITS
NA - INDICATES SURROGATE SPIKE NOT REQUIRED FOR METHOD UTILIZED.

# SAMPLES	% REC IN	%REC OUT	% TOTAL IN
56	445	3	99.3%

TABLE 3 - 3
SURROGATE % RECOVERIES
PESTICIDE/PCB WATER SAMPLES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	SAMPLE ID	TCX1	TCX2	DCB1	DCB2	TOTAL OUT
D1D1	D2006W1D1	39*	79	86	74	1
	D2006W1P1	94	84	89	80	0
	D2006W1P1MS	48*	79	78	70	1
	D2006W1P1MSD	57*	83	89	80	1
	D5013W1P1	43*	88	80	72	1
	D5009W1P1	65	114	68	62	0
	QADI101	48*	79	88	80	1
	QARI101	61	144	97	86	0
	D2003W1P1	83	76	39*	33*	2
	D3003W1P1	71	121	98	85	0
	D3005W1P1	111	130	102	91	0
2009	D5007W1P1	110	65	38*	40*	2
	D1013W1P1	75	41*	56*	61	2
	D1010W1P1	64	37*	43*	45*	3
	D1008W1P1	74	51*	66	70	1
	D5004W1P1	53*	32*	50*	54*	4
1001	D1005W1P1	66	74	81	78	0
	D1001W1P1	61	69	58*	56*	2
	D1003W1P1	66	75	65	62	0
	QARI102	80	89	88	85	0
DI102	QADI102	36*	99	92	83	1
	QARI103	97	85	101	91	0
	C1001W1P1	34*	84	85	76	1
	C1001W1P1MS	72	70	75	65	0
	C1001W1P1MSD	50*	234*	60	57*	3
	C1001W1D1	20*	116	56*	45*	3
	WM002W1P1	60	32*	62	71	1
	TC002W1P1	73	86	42*	47*	2
	QAR1104	69	75	59*	67	1
	L4001P1D1	5*	60	34*	30*	3
	L4002P1P1	23*	76	45*	39*	3
	L4001P1P1	17*	64	23*	28*	3
	L4001P1P1MS	22*	71	27*	28*	3
	L4001P1P1MSD	16*	66	31*	31*	3
	QARI105	86	90	88	87	0

TCX = TETRACHLORO-M-XYLENE QC LIMITS 60% - 150%
DCB = DECACHLOROBIPHENYL QC LIMITS 60% - 150%

D - INDICATES SURROGATE DILUTED OUT
* - INDICATES VALUE OUTSIDE QC LIMITS

TCX1 - COLUMN 1
TCX2 - COLUMN 2
DCB 1 - COLUMN 1
DCB 2 - COLUMN 2

TABLE 3 - 3
SURROGATE % RECOVERIES
PESTICIDE/PCB WATER SAMPLES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	SAMPLE ID	TCX1	TCX2	DCB1	DCB2	TOTAL OUT
GULFW6	QADI103	78	90	36*	36*	2
	TC006W1D1	75	85	74	75	0
	TC006W1P1	81	91	72	72	0
	TC006W1P1MS	73	80	72	73	0
	TC006W1P1MSD	74	88	63	64	0
	BB003W1P1	60	68	70	73	0
	GPT44G1D1	49*	57*	39*	41*	4
	GPT45G1P1	70	75	39*	37*	2
	QARI108	80	88	56*	57*	2
	GPT44G1P1	54*	61	36*	37*	3
	GPT44G1P1MS	43*	51*	23*	22*	4
	GPT44G1P1MSD	37*	42*	20*	20*	4
	QARI109	56*	63	39*	39*	3
	BC003W1P1	50*	54*	69	70	2
	GPT54G1P1	57*	57*	17*	17*	4
	GPT55G1P1	55*	64	14*	14*	3
	GPT56G1P1	58*	71	14*	13*	3
	GPT47G1P1	59*	78	19*	18*	3
	GPT46G1P1	35*	41*	11*	11*	4
	QARI110	53*	59*	52*	55*	4
	QARI111	54*	63	36*	37*	3

TCX = TETRACHLORO-M-XYLENE QC LIMITS 60% - 150%
DCB = DECACHLOROBIPHENYL QC LIMITS 60% - 150%

D - INDICATES SURROGATE DILUTED OUT
* - INDICATES VALUE OUTSIDE QC LIMITS

TCX1 - COLUMN 1
TCX2 - COLUMN 2
DCB 1 - COLUMN 1
DCB 2 - COLUMN 2

# SAMPLES	% REC IN	%REC OUT	% TOTAL IN
56	126	98	56.3%

TABLE 3 - 4
SURROGATE % RECOVERIES
HERBICIDE WATER SAMPLES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	SAMPLE ID	SRG01	TOTAL OUT
D1D1	D2006W1D1	61	0
	D2006W1P1	59	0
	D2006W1P1MS	59	0
	D2006W1P1MSD	58	0
	D5013W1P1	79	0
	D5009W1P1	86	0
	QADI101	89	0
	QARI101	96	0
	D2003W1P1	65	0
	D3003W1P1	88	0
	D3005W1P1	91	0
2009	D5007W1P1	85	0
	D1013W1P1	52	0
	D1010W1P1	38	0
	D1008W1P1	38	0
	D5004W1P1	53	0
1001	D1005W1P1	38	0
	D1001W1P1	41	0
	D1003W1P1	40	0
	QARI102	39	0
DI102	QADI102	69	0
	QARI103	62	0
	C1001W1P1	53	0
	C1001W1P1MS	56	0
	C1001W1P1MSD	61	0
	C1001W1D1	63	0
	WM002W1P1	62	0
	TC002W1P1	66	0
	QAR1104	61	0
	L4001P1D1	60	0
	L4002P1P1	58	0
	L4001P1P1	59	0
	L4001P1P1MS	59	0
	L4001P1P1MSD	66	0
	QARI105	64	0

SRG01 = 2,4-DICHLOROPHENYLACETIC ACID QC LIMITS 30% - 130%

D - INDICATES SURROGATE DILUTED OUT
* - INDICATES VALUE OUTSIDE QC LIMITS

TABLE 3 - 4
SURROGATE % RECOVERIES
HERBICIDE WATER SAMPLES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	SAMPLE ID	SRG01	TOTAL OUT
GULFW6	QADI103	82	0
	TC006W1D1	62	0
	TC006W1P1	46	0
	TC006W1P1MS	134*	1
	TC006W1P1MSD	120	0
	BB003W1P1	55	0
	GPT44G1D1	57	0
	GPT45G1P1	41	0
	QARI108	51	0
	GPT44G1P1	52	0
	GPT44G1P1MS	48	0
	GPT44G1P1MSD	47	0
	QARI109	64	0
	BC003W1P1	52	0
	GPT54G1P1	31	0
	GPT55G1P1	33	0
	GPT56G1P1	38	0
	GPT47G1P1	50	0
	GPT46G1P1	76	0
	QARI110	63	0
	QARI111	64	0

SRG01 = 2,4-DICHLOROPHENYLACETIC ACID QC LIMITS 30% - 130%

D - INDICATES SURROGATE DILUTED OUT
* - INDICATES VALUE OUTSIDE QC LIMITS

# SAMPLES	% REC IN	%REC OUT	% TOTAL IN
56	55	.1	98.2%

TABLE 3-5
SURROGATE % RECOVERIES
VOLATILE SOIL SAMPLES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	SAMPLE ID	SMC1	SMC2	SMC3	TOTAL OUT
D1D1	D2003D1P1	105	91	93	0
	D2006D1P1	100	97	98	0
	D2006D1D1	99	99	97	0
	D5013D1P1	104	94	97	0
	D5009D1P1	101	98	95	0
	D3005D1P1	103	97	96	0
	D3003D1P1	102	95	98	0
	D2006D1P1MS	105	98	103	0
	D2006D1P1MSD	106	99	106	0
2009	D5004D1P1	101	100	99	0
	D1008D1P1	106	88	96	0
	L8001S1P1	102	100	98	0
	L8005S1P1	105	93	95	0
	L8010S1P1	100	101	97	0
	D5007D1P1	112	90	104	0
	D1013D1P1	112	93	109	0
	D1010D1P1	117	88	107	0
1001	D1005D1P1	107	102	108	0
	D1003D1P1	11	95	102	0
	L8003S1P1	106	100	108	0
	D1001D1P1	111	93	109	0
EE01	C1001D1P1	102	96	95	0
	D1015D1P1	118	76	92	0
	C1001D1P1MS	105	91	93	0
	C1001D1P1MSD	108	87	95	0
	C1001D1D1	110	83	91	0
	D1015D1P1RE	118	77	95	0
	L8016S1P1	106	93	93	0
	L8025S1P1	104	88	94	0
	TC002D1P1	110	88	94	0
	L8013S1P1	102	94	95	0
	L8013S1P1MS	103	92	98	0
	L8013S1P1MSD	107	91	100	0
	L8013S1D1	100	96	101	0
	L8027S1P1	103	98	100	0
	WM002D1P1	108	93	94	0
GULFS7	TC006D1P1	101	94	94	0
	TC006D1D1	102	94	94	0
	TC006D1P1MS	102	96	96	0
	TC006D1P1MSD	103	95	97	0
	WL001D1P1	98	95	96	0
	BC003D1P1	104	86	96	0
	BB003D1P1	108	86	95	0
	BC003D1P1RE	108	84	95	0

SMC1 = TOLUENE - D8 QC LIMITS 84% - 138%
SMC2 = BROMOFLUOROBENZENE QC LIMITS 59% - 113%
SMC3 = 1,2 - DICHLOROETHANE - D4 QC LIMITS 70% - 121%

D - INDICATES SURROGATE DILUTED OUT
* - INDICATES VALUE OUTSIDE QC LIMITS

# SAMPLES	% REC IN	%REC OUT	% TOTAL IN
44	132	0	100.0%

TABLE 3 - 6
SURROGATE % RECOVERIES
SEMIVOLATILE SOIL SAMPLES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	SAMPLE ID	S1	S2	S3	S4	S5	S6	S7	S8	TOTAL OUT
D1D1	D2003D1P1	48	52	61	54	48	54	48	48	0
	D2006D1P1	45	50	80	47	40	70	43	45	0
	D2006D1D1	50	55	70	47	47	60	47	47	0
	D5013D1P1	57	62	67	62	56	62	56	57	0
	D5009D1P1	42	46	65	43	40	60	40	42	0
	D3005D1P1	69	75	75	76	64	60	68	69	0
	D3003D1P1	64	77	68	70	64	64	64	64	0
	D2006D1P1MS	48	55	75	59	52	72	52	48	0
	D2006D1P1MSD	80	85	85	96	86	83	86	80	0
2009	D5004D1P1	40	42	52	48	42	45	42	46	0
	D1008D1P1	42	52	64	54	46	59	43	48	0
	L8001S1P1	42	45	61	52	44	52	44	39	0
	L8005S1P1	38	42	72	41	41	56	41	43	0
	L8010S1P1	39	44	89	52	48	63	44	53	0
	D5007D1P1	35	50	74	42	38	46	40	41	0
	D1013D1P1	52	65	83	62	56	53	59	61	0
	D1010D1P1	41	53	78	52	48	54	50	53	0
1001	D1005D1P1	44	44	71	50	44	53	44	48	0
	D1001D1P1	34	48	66	46	37	70	42	38	0
	D1003D1P1	48	52	70	54	43	63	48	52	0
	L8003S1P1	43	47	50	50	42	42	46	47	0
EE01	C1001D1P1	46	58	65	64	46	62	51	50	0
	D1015D1P1	62	70	76	74	59	65	63	59	0
	C1001D1P1MS	42	58	69	62	44	72	49	46	0
	C1001D1P1MSD	58	73	92	79	56	67	64	62	0
	C1001D1D1	56	74	74	68	51	74	60	61	0
	L8016S1P1	24	44	53	46	28	38	37	20	0
	L8025S1P1	46	56	67	59	44	30	56	48	0
	TC002D1P1	57	60	77	64	53	80	60	57	0
	L8013S1P1	36	39	43	38	26	18*	34	34	1
	L8013S1P1MS	40	53	49	46	27	36	38	29	0
	L8013S1P1MSD	25	43	46	38	24*	36	32	22	1
	L8013S1D1	36	42	53	42	27	27	36	32	0
	L8027S1P1	44	46	67	52	37	52	44	46	0
	WM002D1P1	39	48	58	49	34	60	42	39	0
GULFS7	TC006D1P1	52	57	71	58	58	64	58	52	0
	TC006D1D1	47	48	67	45	42	58	45	44	0
	TC006D1P1MS	40	42	57	45	42	48	42	40	0
	TC006D1P1MSD	46	44	62	48	45	55	45	42	0
	WL001D1P1	39	44	52	44	41	38	41	40	0
	BC003D1P1	41	44	56	49	43	41	43	38	0
	BB003D1P1	40	38	48	48	44	35	42	40	0

S1 = NITROBENZENE-D5 QC LIMITS 23% - 120%
S2 = 2-FLUOROBIPHENYL QC LIMITS 30% - 115%
S3 = TERPHENYL-D14 QC LIMITS 18% - 137%
S4 = PHENOL-D5 QC LIMITS 24% - 113%
S5 = 2-FLUOROPHENOL QC LIMITS 25% - 121%
S6 = 2,4,6-TRIBROMOPHENOL QC LIMITS 19% - 122%
S7 = 2-CHLOROPHENOL-D4 QC LIMITS 20% - 130% ADVISORY
S8 = 1,2-DICHLOROBENZENE-D4 QC LIMITS 20% - 130% ADVISORY

D - INDICATES SURROGATE DILUTED OUT
* - INDICATES VALUE OUTSIDE QC LIMITS
NA - INDICATES SURROGATE SPIKE NOT REQUIRED FOR METHOD UTILIZED.

# SAMPLES	% REC IN	%REC OUT	% TOTAL IN
42	334	2	99.4%

TABLE 3 - 7
SURROGATE % RECOVERIES
PESTICIDE/PCB SOIL SAMPLES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	SAMPLE ID	TCX1	TCX2	DCB1	DCB2	TOTAL OUT
D1D1	D2003D1P1	55*	83	76	81	1
	D2006D1P1	57*	84	83	91	1
	D2006D1D1	125	131	120	117	0
	D5013D1P1	119	111	119	115	0
	D5009D1P1	47*	75	84	72	1
	D3005D1P1	60	79	86	87	0
	D3005D1P1DL	109	102	104	121	0
	D3003D1P1	81	124	115	115	0
	D2006D1P1MS	52*	82	80	78	1
	D2006D1P1MSD	86	79	78	72	0
2009	D5004D1P1	79	48*	67	86	1
	D1008D1P1	67	63	67	71	0
	L8001S1P1	76	45*	70	83	1
	L8005S1P1DL	76	43D	85	90	0
	L8005S1P1	79	45*	79	73	1
	L8010S1P1	74	78	90	78	0
	D5007D1P1	62	37*	73	70	1
	D1013D1P1	105	104	117	110	0
	D1010D1P1	57*	37*	63	66	2
1001	D1005D1P1	76	89	94	96	0
	D1001D1P1	70	84	71	78	0
	L8003S1P1	81	96	100	100	0
	D1003D1P1	75	91	91	92	0
EE01	C1001D1P1	89	54*	85	78	1
	D1015D1P1	84	51*	83	85	1
	C1001D1P1MS	102	50*	85	84	1
	C1001D1P1MSD	105	42*	101	80	1
	C1001D1D1	86	83	87	79	0
	L8016S1P1	100	54*	83	85	1
	L8025S1P1	84	52D	79	86	0
	TC002D1P1	80	41*	87	88	1
	L8013S1P1	98	54*	91	94	1
	L8013S1P1MS	80	83	83	86	0
	L8013S1P1MSD	85	49*	81	85	1
	L8013S1D1	76	82	73	76	0
	L8027S1P1	69	78	78	90	0
	WM002D1P1	66	66	61	62	0
GULFS7	TC006D1P1	76	86	93	104	0
	TC006D1D1	70	83	89	89	0
	TC006D1P1MS	73	81	91	115	0
	TC006D1P1MSD	74	80	96	116	0
	WL001D1P1	74	87	99	95	0
	BC003D1P1	77	91	96	88	0
	BB003D1P1	77	74	88	83	0

TCX = TETRACHLORO-M-XYLENE QC LIMITS 60% - 150%
DCB = DECACHLOROBIPHENYL QC LIMITS 60% - 150%

D - INDICATES SURROGATE DILUTED OUT
* - INDICATES VALUE OUTSIDE QC LIMITS

TCX1 - COLUMN 1
TCX2 - COLUMN 2
DCB 1 - COLUMN 1
DCB 2 - COLUMN 2

# SAMPLES	% REC IN	%REC OUT	% TOTAL IN
44	158	18	89.8%

TABLE 3 - 8
SURROGATE % RECOVERIES
HERBICIDE SOIL SAMPLES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	SAMPLE ID	SRG01	TOTAL OUT
D1D1	D2003D1P1	3.9*	1
	D2003D1P1 RE-1	75	0
	D2006D1P1	59	0
	D2006D1D1	53	0
	D5013D1P1	57	0
	D5009D1P1	62	0
	D3005D1P1	56	0
	D3003D1P1	56	0
	D2006D1P1MS	55	0
	D2006D1P1MSD	55	0
2009	D5004D1P1	55	0
	D1008D1P1	52	0
	L8001S1P1	58	0
	L8005S1P1	56	0
	L8010S1P1	54	0
	D5007D1P1	54	0
	D1013D1P1	64	0
	D1010D1P1	56	0
1001	D1005D1P1	67	0
	D1001D1P1	57	0
	D1003D1P1	55	0
	L8003S1P1	54	0
EE01	C1001D1P1	81	0
	D1015D1P1	55	0
	C1001D1P1MS	77	0
	C1001D1P1MSD	78	0
	C1001D1D1	75	0
	L8016S1P1	46	0
	L8025S1P1	173*	1
	TC002D1P1	70	0
	L8013S1P1	71	0
	L8013S1P1MS	71	0
	L8013S1P1MSD	69	0
	L8013S1D1	64	0
	L8027S1P1	47	0
	WM002D1P1	60	0
GULFS7	TC006D1P1	52	0
	TC006D1D1	53	0
	TC006D1P1MS	53	0
	TC006D1P1MSD	45	0
	WL001D1P1	49	0
	BC003D1P1	48	0
	BB003D1P1	36	0

SRG01 = 2,4-DICHLOROPHENYLACETIC ACID QC LIMITS 30% - 130%

D - INDICATES SURROGATE DILUTED OUT
* - INDICATES VALUE OUTSIDE QC LIMITS

# SAMPLES	% REC IN	%REC OUT	% TOTAL IN
43	41	2	95.3%

TABLE 3 - 1A
WATER SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41864					SDG 41864 RE			SDG 41584 A&B
	GPT55G1P1	GPT56G1P1	GPT47G1P1	GPT46G1P1	GPT54G1P1	GPT56G1P1	GPT47G1P1	GPT46G1P1	L4001P1P1
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	67.5	63.7	73	85.1	66.1	58.9	66	69.7	64.1
13C12-2, 3, 7, 8-TCDD	66	62.8	63.6	73.5	60.2	60.1	66.5	71	67.2
13C12-1, 2, 3, 7, 8,-PECDF	69.6	52.6	56.9	66	62.3	68.6	81.9	76.5	74.6
13C12-1, 2, 3, 7, 8-PECDD	81.5	51.9	67.6	65.6	68.8	77.1	98.2	78.8	83.1
13C12-1, 2, 3, 6, 7, 8-HXCDF	49.6	64.6	67.7	78.9	47	56.5	65.7	71.4	61.1
13C12-1, 2, 3, 6, 7, 8-HXCDD	64.2	91.4	71.6	102	78.2	74	91.6	88.5	76.3
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	61.9	60.7	73.5	69.2	56.6	65.1	82.6	77.6	81.4
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	72.7	68.8	98.9	77.8	86.5	68	94.1	91.3	99.1
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	61	58.9	85.4	62.4	76.3	56.3	87.1	78.7	109
TOTAL OUT	0	0	0	0	0	0	0	0	0

COMPOUND	QC LIMITS
	%R WATER
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 1A
WATER SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41584 A & B (CONTINUED)				SDG 41584 RE				
	L4001P1D1	L400ZP1P1	L4001P1MS	L4001P1MD	L400ZP1P1	L4001P1P1	L4001P1D1	L4001P1MS	L4001P1MD
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	75.4	64.8	88.7	61.8	75.7	65.3	77.3	97.4	74.4
13C12-2, 3, 7, 8-TCDD	76	66.4	101	73	71.2	61.8	84.5	97.8	71.8
13C12-1, 2, 3, 7, 8,-PECDF	59.9	63.8	111	82.5	85.7	82.6	92.5	119	87.3
13C12-1, 2, 3, 7, 8-PECDD	71.1	64.8	143*	109	93.2	88.7	103	124	94.6
13C12-1, 2, 3, 6, 7, 8-HXCDF	73.2	73.7	84.7	63.7	68.6	83.2	101	110	79.5
13C12-1, 2, 3, 6, 7, 8-HXCDD	86.7	79.8	109	79.1	73.3	84	93.8	114	84.5
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	96.7	49.9	934	81	51.7	83.4	92.1	96.9	80
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	113	55.2	114	101	61.1	88.3	97.9	99	88.6
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	130	35.6	126	122	39.9	73.4	80.5	76.2	88.3
TOTAL OUT	0	0	1	0	0	0	0	0	0

COMPOUND	QC LIMITS
	%R WATER
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 1A
WATER SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41776 A, AR1, B						SDG 42263		41844A,AR2,B
	QADI103	TC006W1P1	TC006W1D1	QARI108	TC006W1MS	TC006W1MD	QARI113	D1001W1P3	GPT44G1P1
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	72.9	73.1	74.8	78.5	87.8	69.1	68.7	52.8	58.3
13C12-2, 3, 7, 8-TCDD	70.5	69.5	72.9	76.4	82.4	66.5	71.9	55	63.2
13C12-1, 2, 3, 7, 8,-PECDF	84.2	81.8	90.3	87.4	92.7	82.4	93.7	82.1	81.2
13C12-1, 2, 3, 7, 8-PECDD	89	86	102	103	108	94	111	96.2	98.1
13C12-1, 2, 3, 6, 7, 8-HXCDF	65	69.6	73.4	76.2	78.8	75.4	69.2	63.9	62.5
13C12-1, 2, 3, 6, 7, 8-HXCDD	74.5	85.6	87.5	89	92.9	76.9	78.6	73.3	72.8
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	64	78	80.7	89.6	114	81.4	65.5	78.7	69.1
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	78.4	93.8	97.9	121	124	90.1	88.1	96.2	73.9
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	78.8	101	105	112	130	104	71.4	96	66.8
TOTAL OUT	0	0	0	0	0	0	0	0	0

COMPOUND	QC LIMITS
	%R WATER
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 1A
WATER SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41844 A, AR2, B (CONTINUED)						SDG 42239		
	GPT44G1D1	GPT45G1P1	QARI109	BC003W1P1	WL010D1MS	WL010D1MD	D3007W1P3	D3007W1D3	D5009W1P3
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	53.6	60.1	44.3	53.3	65.6	83	52.4	51.2	55.8
13C12-2, 3, 7, 8-TCDD	56.9	66.1	47.5	55.6	57.3	67.5	55.5	50.4	59.8
13C12-1, 2, 3, 7, 8,-PECDF	73	67.7	50.9	67.1	49.3	65.4	65.4	59.1	71.7
13C12-1, 2, 3, 7, 8-PECDD	93	72.2	59.9	78.1	54.8	69.9	73.1	65.6	83.6
13C12-1, 2, 3, 6, 7, 8-HXCDF	64.1	63.2	44.6	55.2	55.1	72.1	56	55	65.5
13C12-1, 2, 3, 6, 7, 8-HXCDD	63.4	82.5	53.5	66.3	65.6	85.9	74.7	68.6	79.1
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	57.5	68.8	48.4	60.2	37.9	63.8	59.2	59	73.7
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	65.8	76.3	60.3	66.1	46.8	71.7	65.7	71.8	85.3
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	40.7	60.9	52	52.2	22.7*	40.6	46.1	52.5	62.5
TOTAL OUT	0	0	0	0	1	0	0	0	0

COMPOUND	QC LIMITS
	%R WATER
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 1A
WATER SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 42239 (CONTINUED)				SDG 41574 A, B, C		SDG 41574 A, B, C RE		SDG 41606
	QARI112	QAD1104	D3007W1M3	D3007W1S3	TC002W1P1	QAR1104	TC002W1P1	QAR1104	QARI105
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	53.7	53.8	69.8	73.9	57.1	57.8	54.4	59.3	58.8
13C12-2, 3, 7, 8-TCDD	57.4	59.3	73.4	77	58.2	59.9	58.8	61.3	53.5
13C12-1, 2, 3, 7, 8,-PECDF	73.3	65.8	94.8	106	73.7	[illegible].5	91.6	94.9	57.5
13C12-1, 2, 3, 7, 8-PECDD	81.5	75.4	113	121	67.1	72.6	106	119	62.2
13C12-1, 2, 3, 6, 7, 8-HXCDF	60.1	59.6	68.6	76.3	63.5	69.7	63.3	67.4	75.1
13C12-1, 2, 3, 6, 7, 8-HXCDD	73.5	76.4	73.5	84.6	69.5	75.8	74.3	76.6	78.9
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	69	64.2	73.8	84.6	73.4	83.1	73.4	78	60.5
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	80.1	78.3	88.5	102	85.8	92.3	85.9	92.8	68.2
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	56.8	54	60.2	85.9	101	115	88.9	90.4	46.8
TOTAL OUT	0	0	0	0	0	0	0	0	0

COMPOUND	QC LIMITS
	%R WATER
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 1A
WATER SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41606 RE	SDG 41327 A, B, C		SDG 41327 A, B, C RE		SDG 41300 A, B, C, D			
	QARI105	D5004W1P1	D5007W1P1	D5004W1P1	D5007W1P1	D5013W1P1	D3005W1P1	D5009W1P1	D3003W1P1
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	63.9	70.2	68	69	67.1	66.6	73.3	78.6	74.6
13C12-2, 3, 7, 8-TCDD	65.6	67.9	69.7	76.2	72.4	64.1	67.1	78.1	68.3
13C12-1, 2, 3, 7, 8,-PECDF	97.8	64	71.3	116	94.5	67.1	64.7	77.6	65.3
13C12-1, 2, 3, 7, 8-PECDD	111	59.7	72.5	149*	123	68.6	63.1	79	68.3
13C12-1, 2, 3, 6, 7, 8-HXCDF	62.9	81.2	72.7	73.4	75	64.5	93.7	82.6	84.2
13C12-1, 2, 3, 6, 7, 8-HXCDD	78.5	83.4	82.2	102	98.2	73.9	87	90.4	95.5
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	63.7	81.2	74.8	76.4	76.3	66.2	83.7	84.8	78.6
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	68.6	86.3	85.2	94	92	70.1	80.6	91.8	79.6
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	50.1	92.9	97.4	90.1	84.3	75.1	81.3	104	79.5
TOTAL OUT	0	0	0	1	0	0	0	0	0

COMPOUND	QC LIMITS
	%R WATER
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 1A
WATER SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41300 A, B, C, D (CONT'D)		SDG 41300 A, B, C, D RE				SDG 41348 A, B, C		
	QADI101	QARI101	D3005W1P1	D3003W1P1	QADI101	QARI101	D1013W1P1	D1010W1P1	D1008W1P1
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	74.8	71.1	61.2	70.1	69.3	63.9	74.9	61.3	60.2
13C12-2, 3, 7, 8-TCDD	65.1	65.4	66.3	70.8	70.2	65.3	70.9	59.5	57.8
13C12-1, 2, 3, 7, 8,-PECDF	63.2	62.4	95.7	105	112	117	66.9	56.5	51.2
13C12-1, 2, 3, 7, 8-PECDD	65.3	66.1	109	126	128	141*	72.2	58.6	53.2
13C12-1, 2, 3, 6, 7, 8-HXCDF	83.8	79.4	75.3	71	73.8	71.4	85.5	76.1	69
13C12-1, 2, 3, 6, 7, 8-HXCDD	91.8	84.9	90.3	89.9	86.8	87.1	92.9	84.9	84.3
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	76.9	73.7	92.4	92.9	93.5	93.4	83.4	74.8	68.8
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	74.1	77	116	119	111	110	90.2	78.7	73.5
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	67.4	71.1	147*	142*	130	124	90.7	75.2	73.3
TOTAL OUT	0	0	1	1	0	1	0	0	0

COMPOUND	QC LIMITS
	%R WATER
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 1A
WATER SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41363 AR1, B, C, D					SDG 41363 RE	SDG 41565	SDG 41565 RE
	D1003W1D1	QARI102	D1001W1P1	D1003W1P1	D1005W1P1	D1005W1P1	WM002W1P1	WM002W1P1
I.S. COMPOUND								
13C12-2, 3, 7, 8-TCDF	58.9	66.6	67.1	49.1	46.8	74	56.5	54.5
13C12-2, 3, 7, 8-TCDD	61.7	64.2	66.1	47.6	68.4	59.2	60.2	59.1
13C12-1, 2, 3, 7, 8,-PECDF	69.8	70.2	58.4	57.5	64.1	146*	68.7	61.2
13C12-1, 2, 3, 7, 8-PECDD	69.8	70.2	61.6	57.2	60.3	191*	62.5	79
13C12-1, 2, 3, 6, 7, 8-HXCDF	72.8	65.4	76.3	60.9	81.7	71.3	60.3	64.1
13C12-1, 2, 3, 6, 7, 8-HXCDD	79.4	71.5	86.3	64	91.2	89.1	68	77.5
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	67.9	58.6	70.4	58.6	82.9	77.4	74.6	80.8
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	76.4	71.7	76.9	66	90.4	107	86.2	98.3
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	73.5	65.3	71.6	66.9	90.1	117	86.2	90.7
TOTAL OUT	0	0	0	0	0	2	0	0

COMPOUND	QC LIMITS
	%R WATER
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 1A
WATER SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41291 A, Ar1, B					SDG 41291 A, Ar1, B RE			
	D2006W1D1	D2006W1MS	D2006W1MSD	D2003W1P1	D2006W1P1	D2006W1D1	D2006W1MS	D2006W1MSD	D2003W1P1
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	59.7	68.1	79.5	73.4	69.6	68.4	74.4	84.4	74.9
13C12-2, 3, 7, 8-TCDD	59.4	64.8	75.2	67.4	62.1	63.9	68.9	76.3	67.5
13C12-1, 2, 3, 7, 8,-PECDF	59.3	69.2	85.5	64.6	63.2	75.1	76.6	91.1	82.2
13C12-1, 2, 3, 7, 8-PECDD	60.9	64.7	84.6	60.9	62.9	88.3	89.7	109	105
13C12-1, 2, 3, 6, 7, 8-HXCDF	65.8	69.2	75.9	68.3	67.6	75.2	75.7	88.6	75.2
13C12-1, 2, 3, 6, 7, 8-HXCDD	75.1	79.7	95.8	82.4	87.3	81.3	80.8	93.4	93.9
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	60.3	68.2	83.4	73.4	70.4	77.1	81.8	101	98.7
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	61.5	71.1	88	75.9	71.7	89.9	87.1	103	105
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	33.8	19.5*	49	46.7	33.6	56.8	28	60.8	79.8
TOTAL OUT	0	1	0	0	0	0	0	0	0

COMPOUND	QC LIMITS
	%R WATER
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 1A
WATER SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	1291RE(CONT'D	SDG 41813 A, B	41813A,B RE	SDG 41530 A, B, C, D				SDG 41516 A,B,C,D	
	D2006W1P1	BB003W1P1	BB003W1P1	C1001W1P1	C1001W1MS	C1001W1MSD	C1001W1D1	QADI102	QARI103
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	79.3	81.4	72.2	51	40.7	87	72	11.3*	162*
13C12-2, 3, 7, 8-TCDD	72.5	69.3	69.9	64.7	44.5	84.4	67.7	10.7*	152*
13C12-1, 2, 3, 7, 8,-PECDF	91	71.1	78.3	97.6	50.2	90.1	81.6	10.8*	159*
13C12-1, 2, 3, 7, 8-PECDD	105	78.5	93.3	104	44.9	77.4	90.5	9.42*	149*
13C12-1, 2, 3, 6, 7, 8-HXCDF	78.2	83.9	77.2	60.7	46.5	72.4	71.2	13.3*	152*
13C12-1, 2, 3, 6, 7, 8-HXCDD	90.1	93.2	85.2	71.4	49.6	81.2	79.1	10.9*	143*
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	91.8	91.1	89.1	66.7	56.3	87.9	72.7	10.1*	166*
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	102	95.6	107	70.3	62.1	95.9	79.2	10*	147*
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	53.7	101	111	77.3	68.3	111	81	3.27*	68.2
TOTAL OUT	0	0	0	0	0	0	0	9	8

COMPOUND	QC LIMITS
	%R WATER
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 1A
WATER SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41516 A, B, C, D RE	
	QADI102	QARI103
I.S. COMPOUND		
13C12-2, 3, 7, 8-TCDF	8.86*	174*
13C12-2, 3, 7, 8-TCDD	9.8*	166*
13C12-1, 2, 3, 7, 8,-PECDF	9.09*	179*
13C12-1, 2, 3, 7, 8-PECDD	10.5*	216*
13C12-1, 2, 3, 6, 7, 8-HXCDF	12.1*	155*
13C12-1, 2, 3, 6, 7, 8-HXCDD	16.9*	217*
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	10.2*	196*
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	12.3*	224*
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	4.13*	92.6
TOTAL OUT	9	8

COMPOUND	QC LIMITS
	%R WATER
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

# SAMPLES	% REC IN	% REC OUT	% TOTAL IN
91	776	43	94.7%

TABLE 3 - 1A
WATER SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41530 A, B, C, D RE	
	QADI102	QARI103
I.S. COMPOUND		
13C12-2, 3, 7, 8-TCDF	8.86*	174*
13C12-2, 3, 7, 8-TCDD	9.8*	166*
13C12-1, 2, 3, 7, 8,-PECDF	9.09*	179*
13C12-1, 2, 3, 7, 8-PECDD	10.5*	216*
13C12-1, 2, 3, 6, 7, 8-HXCDF	12.1*	155*
13C12-1, 2, 3, 6, 7, 8-HXCDD	16.9*	217*
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	10.2*	196*
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	12.3*	224*
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	4.13*	92.6
TOTAL OUT	9	8

COMPOUND	QC LIMITS
	%R WATER
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

# SAMPLES	% REC IN	% REC OUT	% TOTAL IN
91	776	43	94.7%

TABLE 3 - 2A
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41584 A & B		SDG 41776 A, AR1, B						
	TC004D1P1	TC005D1P1	TC006D1D1	TC006D1P1	TC008D1P1	TC007D1P1	TC006D1MS	TC006D1MD	TC006D1D1 (RE)
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	71.2	70.3	109	97.9	140*	85.2	99.7	117	100
13C12-2, 3, 7, 8-TCDD	84.5	81.5	97.3	85.9	105	77.6	89	102	93.9
13C12-1, 2, 3, 7, 8,-PECDF	100	107	92.6	85	106	87	91.8	102	87.2
13C12-1, 2, 3, 7, 8-PECDD	106	114	112	84.6	105	97.3	102	111	93.6
13C12-1, 2, 3, 6, 7, 8-HXCDF	74	81.3	101	97	112	97.4	93.9	109	105
13C12-1, 2, 3, 6, 7, 8-HXCDD	84.1	86.9	114	108	110	108	72.6	121	118
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	69.8	88.2	109	92.7	100	99.4	93.9	109	98
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	87.2	94.7	132*	92.8	96.1	103	98.4	113	97.6
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	90.5	116	133*	66.1	67.6	83.4	74.7	79.3	82.5
TOTAL OUT	0	0	2	0	1	0	0	0	0

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2A
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 42263								
	WL002D1P3	EE04DD1P3	D6005D1P3	D4002D1P3	D3006D1P3	D2008D1P3	D2005D1P3	D2003D1P3	D1014D1P3
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	86.3	71.1	72.8	77.9	76	82.1	107	72.4	76.8
13C12-2, 3, 7, 8-TCDD	89.7	69.8	71.7	80.2	77.6	80.5	109	75.6	76.9
13C12-1, 2, 3, 7, 8,-PECDF	103	74.7	75.8	81.6	84.7	82.4	112	77.7	74.5
13C12-1, 2, 3, 7, 8-PECDD	108	73.3	77.1	87.2	84.6	85.6	119	84.8	77.6
13C12-1, 2, 3, 6, 7, 8-HXCDF	80.5	81.7	80.1	83	85.8	87.9	119	78.6	83.4
13C12-1, 2, 3, 6, 7, 8-HXCDD	84.9	92.1	83.9	88.4	96.6	96.8	133*	93	91.6
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	79.8	90.8	74.5	93.2	90.7	92.3	123	83.1	78.9
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	80.9	103	73	106	94.4	93.6	125	86.6	75.7
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	65.5	94.1	43.6	120	60.1	61.1	82	63.3	47.2
TOTAL OUT	0	0	0	0	0	0	1	0	0

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2A
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 42263 (CONTINUED)								41844 A,AR2,B
	D1010D1P3	D1007D1P3	D1003D1P3	D1001D1P3	D1001D1D3	D1010D1P3	D1007D1M3	D1007D1S3	BC005D1P1
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	68	44.3	60.5	67.2	51.7	68	72.8	73.8	82.6
13C12-2, 3, 7, 8-TCDD	70.1	46.3	62.3	72.7	54.9	70.1	76.3	77.4	65.3
13C12-1, 2, 3, 7, 8,-PECDF	65.4	47.1	67	72.1	59	65.4	76.9	73.9	75.8
13C12-1, 2, 3, 7, 8-PECDD	67.5	47.4	66	76.6	58.2	67.5	79.2	80.5	89.3
13C12-1, 2, 3, 6, 7, 8-HXCDF	79.6	50.6	70.3	91.8	60.9	79.6	84.8	84.3	56.4
13C12-1, 2, 3, 6, 7, 8-HXCDD	82.7	56.2	78.9	96.5	66.7	82.7	90.6	90.5	67.5
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	67.7	44.8	74.5	84.9	69.5	67.7	74.9	73.5	54.3
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	64.7	45.3	89.2	81	76	64.7	69.9	71.3	63
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	38.2	22.6*	80.3	51.1	69.5	38.2	38.4	40.4	40.4
TOTAL OUT	0	1	0	0	0	0	0	0	0

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2A
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41844 A, AR2, B (CONTINUED)								
	WL006D1P1	WL007D1P1	WL008D1P1	WL010D1D1	WL010D1P1	BC005D1P1	BC004D1P1	BC003D1P1	WL009D1P1
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	61	47.1	73.3	68.6	60.4	61	78.4	83.5	93.9
13C12-2, 3, 7, 8-TCDD	55.9	43.3	66.3	59.5	48.9	54.2	57.1	71.1	88.2
13C12-1, 2, 3, 7, 8,-PECDF	58	45.6	69.2	57.4	46.9	48.8	62.8	62.2	82.1
13C12-1, 2, 3, 7, 8-PECDD	66.1	50.5	76.9	64.1	53	45.2	69.7	63.2	94
13C12-1, 2, 3, 6, 7, 8-HXCDF	65.1	52	80.6	61.8	63.8	73.1	73.9	82.4	85.6
13C12-1, 2, 3, 6, 7, 8-HXCDD	75.8	59.4	87.6	73.2	73.7	81.6	78.4	88.5	90.7
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	54.5	43.6	64.4	34.9	67.1	77.2	57.8	85.1	90.3
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	57.7	45.4	53	37.7	73.2	73.5	59.9	83.6	99.1
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	19*	14.9*	9.88*	11.2*	46.2	50.6	28.1	33.9	86.3
TOTAL OUT	1	1	1	1	0	0	0	0	0

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2A
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41844 A, AR2, B (CONTINUED)			SDG 42239					
	WL005D1P1	WL010D1MS	WL010D1MD	D2001D1P3	D2001D1D3	D3007D1P3	D5001D1P3	D5002D1P3	D5007D1P3
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	64.1	65.6	83	61.9	69	53.1	75.8	52	39.4*
13C12-2, 3, 7, 8-TCDD	57	57.3	67.5	69.7	76.1	54.5	78.8	56.5	41.4
13C12-1, 2, 3, 7, 8,-PECDF	53.8	49.3	65.4	62	79.2	56.8	82	64.2	40.6
13C12-1, 2, 3, 7, 8-PECDD	60.4	54.8	69.9	66	89.4	63.6	100	71	50.4
13C12-1, 2, 3, 6, 7, 8-HXCDF	70.1	55.1	72.1	71.4	63.4	54.2	73.4	62	37.7*
13C12-1, 2, 3, 6, 7, 8-HXCDD	78.3	65.6	85.9	77.4	76.6	65.5	92.4	74.1	50
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	64.2	37.9	63.8	46.9	53.9	47.7	84.3	54.4	39.1
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	69.3	46.8	71.7	44.2	59.5	53.8	101	58.8	50.3
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	36.7	22.7*	40.6	19.3*	32.5	35.9	90.8	39.6	36.7
TOTAL OUT	0	1	0	1	0	0	0	0	2

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2A
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 42239 (CONTINUED)						SDG 41574 A, B, C		
	D5009D1P3	D5011D1P3	D5012D1P3	D5015D1P3	D3007D1M3	D3007D1S3	L8027S1P1	TC001D1P1	TC002D1P1
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	53.2	70.2	67	76.1	52.3	61	93.2	72.9	76
13C12-2, 3, 7, 8-TCDD	59.8	73.1	71.7	76.2	55.1	61.4	92.6	86.1	85.2
13C12-1, 2, 3, 7, 8,-PECDF	59.4	76.9	76	83.3	62.9	72.6	109	109	103
13C12-1, 2, 3, 7, 8-PECDD	71.6	85.3	86.4	89.6	73.3	77.2	110	126	108
13C12-1, 2, 3, 6, 7, 8-HXCDF	61	72.8	77.9	78.1	65.7	65.2	90.4	75.2	72.2
13C12-1, 2, 3, 6, 7, 8-HXCDD	78.5	85.8	97	89.3	79.5	77.7	100	89.9	85.7
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	53.1	62.5	64.5	64.2	60.3	55.6	94.7	74.6	71.9
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	61.8	65	68.7	67.3	65.6	62.8	103	98.4	91.3
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	38	36.4	48.1	41.1	41.9	38.5	102	92.7	82.6
TOTAL OUT	0	0	0	0	0	0	0	0	0

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2A
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41574 A, B, C (CONTINUED)							SDG 41574 A, B, C RE	
	L8013S1P1	L8013S1D1	L8030S1P1	L8029S1P1	L8033S1P1	L8013S1MS	L8013S1MD	TC002D1P1	TC001D1P1
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	90.1	78.8	81.4	52.5	81.1	84.7	82.5	74.5	78.4
13C12-2, 3, 7, 8-TCDD	93.2	87.7	88.6	60.5	94.9	90.9	83.6	81	80.1
13C12-1, 2, 3, 7, 8,-PECDF	108	106	110	72.6	127	111	100	101	108
13C12-1, 2, 3, 7, 8-PECDD	104	98.6	114	72.7	129	106	96.4	138*	135*
13C12-1, 2, 3, 6, 7, 8-HXCDF	88.3	85.5	91.4	50.3	84.8	84.9	83.6	71.7	66.2
13C12-1, 2, 3, 6, 7, 8-HXCDD	95	88.4	97.5	54.6	95.7	98.5	88	96.4	87.7
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	90.6	80.4	104	46.6	88.6	81.2	71.1	73.6	60.8
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	93.3	77.2	116	48.1	106	89.9	78.7	91.2	87.6
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	86.3	62.4	139*	39.9	113	79.1	60.6	80.5	90.4
TOTAL OUT	0	0	1	0	0	0	0	1	1

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2A
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41574 A, B, C RE (CONTINUED)								SDG 41606
	L8033S1P1	L8030S1P1	L8029S1P1	L8027S1P1	L8013S1D1	L8013S1P1	L8013S1MS	L8013S1MD	BC001D1P1
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	73.9	72.4	47.6	74.7	66.1	68.2	67	67.2	63.6
13C12-2, 3, 7, 8-TCDD	86.8	79	52.1	84.7	79.9	73.6	79.3	74.8	65.1
13C12-1, 2, 3, 7, 8,-PECDF	109	98.2	59.6	114	110	97.7	108	105	67.8
13C12-1, 2, 3, 7, 8-PECDD	137*	127	76.5	135*	132*	136*	136*	133*	76.4
13C12-1, 2, 3, 6, 7, 8-HXCDF	90.5	95.2	53.2	81.4	81.1	96	83	77.8	56.9
13C12-1, 2, 3, 6, 7, 8-HXCDD	105	110	61.5	102	97.8	115	97.7	94.7	71.9
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	79.7	106	46.1	94.8	89.1	84.6	89.6	73.1	53.1
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	83.3	112	46.2	102	93.6	106	100	84.5	61
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	77.5	116	29.1	110	83.1	104	98	68	55.5
TOTAL OUT	1	0	0	1	1	1	1	1	0

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2A
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	41606 (CONT'D)	SDG 41606 RE		SDG 41327 A, B, C						
	BC002D1P1	BC002D1P1	BC001D1P1	D5001D1P1	D5002D1P1	D5003D1P1	D5004D1P1	D5006D1P1	D5007D1P1	D6002D1D1
I.S. COMPOUND										
13C12-2, 3, 7, 8-TCDF	80.8	38.3*	32.7*	83.1	74.1	82	55.6	88	89.1	64.8
13C12-2, 3, 7, 8-TCDD	74.5	39.7*	34.3*	79.6	69.1	81	55.1	82.2	80.3	62.1
13C12-1, 2, 3, 7, 8,-PECDF	78.4	51.3	43.3	75.9	67	82.5	53.8	86.1	86.1	62.2
13C12-1, 2, 3, 7, 8-PECDD	83.2	61.9	50.5	74.7	74.9	104	70.2	87.6	84.7	67.8
13C12-1, 2, 3, 6, 7, 8-HXCDF	77.2	37.3*	29.3*	97.7	70.7	85.8	57.8	88.5	89.6	59.8
13C12-1, 2, 3, 6, 7, 8-HXCDD	92.7	46.7	36*	101	90.1	100	70.3	95.9	95.7	65.2
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	74.9	43.7	31.5	98.1	76.9	91.7	66.9	96.6	96.2	63.2
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	87.2	48.1	34.5	82	86.9	106	75.2	97	96.4	71.6
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	86.7	43.9	25	79.6	99.4	114	74.9	105	105	75.8
TOTAL OUT	0	3	4	0	0	0	0	0	0	0

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2A
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41327 A, B, C (CONTINUED)								
	D6002D1P1	D2009D1P1	D5004S1P1	D5007S1P1	D5013S1P1	D5016D1P1	D5017D1P1	D6001D1P1	D6003D1P1
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	90.3	86	81.6	85.5	85.2	82.5	76.9	86.3	80.6
13C12-2, 3, 7, 8-TCDD	81.8	87.1	86.2	89.8	86.6	80.2	82.8	80.9	90.7
13C12-1, 2, 3, 7, 8,-PECDF	80.1	83.3	83.8	87.8	82.7	61.5	43.9	76.4	76.3
13C12-1, 2, 3, 7, 8-PECDD	86.8	91.1	105	104	98.7	48.1	44.8	85.5	57.4
13C12-1, 2, 3, 6, 7, 8-HXCDF	85.8	102	95.2	101	104	105	103	87.5	107
13C12-1, 2, 3, 6, 7, 8-HXCDD	108	114	116	113	121	95.9	108	101	103
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	91	92.1	81	86.8	90.6	95.9	86	93.9	114
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	97.3	90.2	91.1	94.5	91.9	94.1	88.2	100	103
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	109	79.9	82	94.1	90.9	88.1	103	111	99
TOTAL OUT	0	0	0	0	0	0	0	0	0

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2A
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41327 A, B, C (CONTINUED)					SDG 41327 A, B, C RE			
	D6006D1P1	D6004D1P1	D6005D1P1	D6002D1MS	D6002D1MD	D5006D1P1	D5003D1P1	D5004D1P1	D6001D1P1
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	79.6	74.5	83.4	84	62.7	81.9	77.9	49.2	84.6
13C12-2, 3, 7, 8-TCDD	82.7	87.5	78	76.6	59.2	85.9	83.2	55.8	78.6
13C12-1, 2, 3, 7, 8,-PECDF	66.6	65.8	70.7	69.8	54.6	117	92.9	68.7	85.3
13C12-1, 2, 3, 7, 8-PECDD	51.8	61.1	58.6	84.9	65.8	144*	124	84.9	101
13C12-1, 2, 3, 6, 7, 8-HXCDF	102	92.8	97.4	85.4	66.3	86	85.1	59.1	82.7
13C12-1, 2, 3, 6, 7, 8-HXCDD	95.9	107	93.8	103	78.1	107	107	74.3	110
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	90.8	95.5	104	85.9	64	114	110	80.1	101
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	88.2	90.9	102	88.3	65.2	140*	139*	99.8	118
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	78.8	94.1	110	92.7	67.3	138*	145*	93.6	105
TOTAL OUT	0	0	0	0	0	3	2	0	0

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2A
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41327 A, B, C RE (CONTINUED)								
	D6002D1P1	D6002D1D1	D6004D1P1	D6005D1P1	D6003D1P1	D6006D1P1	D5017D1P1	D6002D1MS	D6002D1MD
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	85.7	66.7	88.9	82.2	99.1	90.7	94.3	81.4	64.3
13C12-2, 3, 7, 8-TCDD	82.2	60.7	88.5	90.8	100	90.5	93.4	76	60.9
13C12-1, 2, 3, 7, 8,-PECDF	89.1	71.4	99.1	123	111	101	109	97.1	76
13C12-1, 2, 3, 7, 8-PECDD	104	82.6	113	157*	127	114	127	116	96
13C12-1, 2, 3, 6, 7, 8-HXCDF	86.7	71.9	89.4	96.1	104	90.3	96.5	84.1	66.2
13C12-1, 2, 3, 6, 7, 8-HXCDD	106	87.1	110	105	119	105	113	106	76.8
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	99.2	76.3	105	113	115	102	115	100	74.3
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	117	90.9	118	134*	130	111	131*	113	84
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	104	88.8	105	117	118	94.9	123	109	73.8
TOTAL OUT	0	0	0	2	0	0	1	0	0

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2A
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41300 A, B, C, D								
	D5011D1D1	D5015D1P1	D5014D1P1	D5013D1P1	D5012D1P1	D5011D1P1	D5010D1P1	D5009D1P1	D5008D1P1
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	127.4	48.9	60.6	54.8	57.5	58.2	66.2	56.2	61.9
13C12-2, 3, 7, 8-TCDD	126.8	47	58.8	54.3	54.7	54.8	62.2	53.6	60
13C12-1, 2, 3, 7, 8,-PECDF	120.4	48.6	63.7	60.3	61	47.4	58.5	48.1	55.1
13C12-1, 2, 3, 7, 8-PECDD	117.5	57.8	72.5	60.7	63.6	50.3	71.7	57.2	65.1
13C12-1, 2, 3, 6, 7, 8-HXCDF	165*	52.6	68.1	58.6	57.8	62.9	63.3	52.9	59.5
13C12-1, 2, 3, 6, 7, 8-HXCDD	165*	62.7	77.6	67.7	68	65.8	79.8	68.7	69.1
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	159*	53.3	68.9	60.2	59.2	59	63.6	48.8	57
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	144*	53.3	69.7	58.9	56.2	57.6	59.8	50	63.3
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	141*	80.6	53.8	59.8	56.1	62.8	54.1	44.8	59.4
TOTAL OUT	5	0	0	0	0	0	0	0	0

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2A
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41300 A, B, C, D (CONTINUED)								
	D5005D1P1	D3006D1P1	D4003D1P1	D4002D1P1	D4001D1P1	D3005D1P1	D3004D1P1	D3002D1D1	D3002D1P1
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	67.2	54.4	55.9	51.4	51.1	55.3	45.5	64.3	67.9
13C12-2, 3, 7, 8-TCDD	60.3	48	51.2	51.3	48.4	48.8	42.6	59	59.9
13C12-1, 2, 3, 7, 8,-PECDF	54.9	48.7	43.3	39.8*	49.4	53.5	41.6	59.2	60.4
13C12-1, 2, 3, 7, 8-PECDD	54.4	52.3	45.7	41.4	51.2	53.6	47.3	61.3	63
13C12-1, 2, 3, 6, 7, 8-HXCDF	79.1	47.7	42.9	45.4	44.1	45.5	34.3*	58.6	54.4
13C12-1, 2, 3, 6, 7, 8-HXCDD	88.9	56.8	51.8	50.3	53.8	61.2	49.5	63	67.7
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	68.8	48.6	34.8	38.9	45.8	49.9	34.7	57.8	55.5
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	58.5	59.2	35.5	39.5	53.6	63.1	50.6	66.5	62.5
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	54.2	44.3	24.9*	26.4	37.3	43.3	40.5	48.8	55.4
TOTAL OUT	0	0	1	1	0	0	1	0	0

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2A
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41300 A, B, C, D (CONT'D)		SDG 41300 A, B, C, D RE						
	D3003D1P1	D3001D1P1	D3002D1P1	D3002D1D1	D3003D1P1	D3004D1P1	D3005D1P1	D3006D1P1	D4001D1P1
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	47.5	37.9*	58.7	57.2	51.2	33.8*	50	45.4	41.7
13C12-2, 3, 7, 8-TCDD	43.6	35.7*	65.6	64.1	56.2	41.1	49.4	50.4	36.2*
13C12-1, 2, 3, 7, 8,-PECDF	39.9*	36.2*	78.1	72.9	69.5	43	58.8	62.3	74.3
13C12-1, 2, 3, 7, 8-PECDD	40.4	37.4*	94.9	84.2	74.9	64.1	63.9	69.9	92.8
13C12-1, 2, 3, 6, 7, 8-HXCDF	38.7*	34.4*	60.1	59	54.8	43.8	53.6	50.2	52.3
13C12-1, 2, 3, 6, 7, 8-HXCDD	49.9	47.2	73	72.6	67	63.7	64.5	65.5	68.4
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	41.9	32.8	72.9	67.2	68.4	51.3	59.9	62.8	60.6
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	47.4	37	81.3	66.9	78.3	48.7	65.1	75.8	76.7
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	39.8	26.6	62.6	57.5	68.6	58.3	56.2	85.7	81.5
TOTAL OUT	2	5	0	0	0	1	0	0	1

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2A
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41300 A, B, C, D RE (CONTINUED)								
	D4002D1P1	D4003D1P1	D5005D1P1	D5008D1P1	D5009D1P1	D5010D1P1	D5011D1P1	D5011D1D1	D5012D1P1
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	53.6	45.7	42.1	51.2	50.6	57.1	63.6	62.5	50
13C12-2, 3, 7, 8-TCDD	63.3	49.9	41.8	59	60.5	63.7	71.6	128	55.2
13C12-1, 2, 3, 7, 8,-PECDF	90.4	57.2	54.6	70.2	91.9	83.7	97.1	262*	68.5
13C12-1, 2, 3, 7, 8-PECDD	117	57.6	60.5	78.9	132*	115	105	429*	82
13C12-1, 2, 3, 6, 7, 8-HXCDF	49	45.5	68	52.6	44.9	51.9	69.9	113	60.7
13C12-1, 2, 3, 6, 7, 8-HXCDD	62	56.2	91.1	81.7	65.6	76.8	90.4	168*	71.1
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	50.1	54.4	85.9	71.2	54.6	67.5	89.4	145*	70
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	46.5	62.2	111	84.8	71.1	85.1	98.2	192*	78.4
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	48.5	60.9	93.3	87.9	77.3	88.3	111	227*	93.1
TOTAL OUT	0	0	0	0	1	0	0	6	0

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2A
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41300 A, B, C, D RE (CONTINUED)				SDG 41348 A, B, C				
	D5013D1P1	D5014D1P1	D5015D1P1	D3001D1P1	D1013D1P1	D1014D1P1	D1012D1P1	D1010D1P1	D1009D1P1
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	43.5	43.1	52.1	40.7	65	71.3	76.7	66.7	76.5
13C12-2, 3, 7, 8-TCDD	64.3	49.2	56.4	40.8	59.1	64.2	68.4	61.5	68.1
13C12-1, 2, 3, 7, 8,-PECDF	93.3	96.7	54.4	49.9	64.6	64	68.7	59.9	65.7
13C12-1, 2, 3, 7, 8-PECDD	102	113	65.7	56.2	68.8	73.1	82.4	67.4	79.2
13C12-1, 2, 3, 6, 7, 8-HXCDF	55.8	61	47.6	41.3	67.8	83.7	76.1	83	86.9
13C12-1, 2, 3, 6, 7, 8-HXCDD	69.5	83.3	68.5	48.6	77.3	85.6	81	83.7	93.1
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	73.1	89.3	70.7	49.1	68.8	78.8	75.5	68.6	78.4
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	71.6	106	129	54.7	73.1	81.6	79	70.7	76.6
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	92.6	97.8	151*	47.7	63.8	61.1	61.1	53.6	55.3
TOTAL OUT	0	0	1	0	0	0	0	0	0

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2A
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41348 A, B, C (CONTINUED)								
	D1008D1P1	D1006D1P1	D1013S1P1	D1010S1P1	D1008S1P1	L8001S1P1	L8005S1P1	L8002S1P1	L8011S1P1
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	73.1	69.1	54.2	46.8	45	55.5	67.7	57.9	54.9
13C12-2, 3, 7, 8-TCDD	67.6	60.8	57.7	51.2	48	55.6	68.3	62.8	58.7
13C12-1, 2, 3, 7, 8,-PECDF	64.4	63.3	69.8	56.8	49.1	57.1	70.4	67.8	59.7
13C12-1, 2, 3, 7, 8-PECDD	75.4	71.4	77.9	67.5	57.9	72.8	83	80.7	77.9
13C12-1, 2, 3, 6, 7, 8-HXCDF	80.1	72.1	66	51.5	47	67	72.8	69.4	65.1
13C12-1, 2, 3, 6, 7, 8-HXCDD	90	82.9	74.3	59.9	49.5	63.2	70.9	69.7	65.6
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	67.5	60.4	73.3	30.9	29.3	56.9	54.4	65.4	48.9
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	65.5	60.2	82.1	37.9	35.4	59.6	63.4	68.7	59.1
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	36.1	36.3	82.7	27.9	23.1*	61.6	53.7	67.1	50.8
TOTAL OUT	0	0	0	0	1	0	0	0	0

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2A
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41348 A, B, C (CONTINUED)					SDG 41348 A, B, C RE			
	L8015S1P1	L8012S1P1	L8006S1P1	L8010S1P1	D1011D1P1	D1008D1P1	D1008S1P1	D1009D1P1	D1010D1P1
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	45.2	55.2	53.5	58.8	71.9	58.9	44.9	61.3	46.6
13C12-2, 3, 7, 8-TCDD	48.5	60.8	54.8	56	66	##	##	##	##
13C12-1, 2, 3, 7, 8,-PECDF	52.5	64	62.1	56.1	63.1	##	##	##	##
13C12-1, 2, 3, 7, 8-PECDD	67.7	84.1	75.7	74.3	71	##	##	##	##
13C12-1, 2, 3, 6, 7, 8-HXCDF	59.9	64.7	60.4	55.1	75.1	##	##	##	##
13C12-1, 2, 3, 6, 7, 8-HXCDD	58.4	63.4	69.8	57.2	87.2	##	##	##	##
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	50.1	58.1	45.2	33.7	70.6	##	##	##	##
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	56.3	59.5	53.9	40.1	73.5	##	##	##	##
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	51.6	55.9	39.1	30.2	54	##	##	##	##
TOTAL OUT	0	0	0	0	0	0	0	0	0

NO RECOVERY REPORTED FOR THESE COMPOUNDS

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2A
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41348 A, B, C RE (CONTINUED)							SDG 41363 AR1, B, C, D	
	D1010S1P1	D1011D1P1	D1012D1P1	D1013D1P1	D1013S1P1	L8006S1P1	D1006D1P1	D1007D1P1	D1004D1P1
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	47.5	54.4	64.2	55.3	62.7	68.4	46.4	72.3	82.8
13C12-2, 3, 7, 8-TCDD	##	##	##	##	##	##	##	68	79.8
13C12-1, 2, 3, 7, 8,-PECDF	##	##	##	##	##	##	##	75.5	89
13C12-1, 2, 3, 7, 8-PECDD	##	##	##	##	##	##	##	83.6	96.9
13C12-1, 2, 3, 6, 7, 8-HXCDF	##	##	##	##	##	##	##	69	79.3
13C12-1, 2, 3, 6, 7, 8-HXCDD	##	##	##	##	##	##	##	74	81.3
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	##	##	##	##	##	##	##	69.6	74.4
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	##	##	##	##	##	##	##	80.2	88.2
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	##	##	##	##	##	##	##	66.3	73.4
TOTAL OUT	0	0	0	0	0	0	0	0	0

NO RECOVERY REPORTED FOR THESE COMPOUNDS

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2A
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41363 AR1, B, C, D (CONTINUED)								
	D1005D1P1	D1001D1P1	D1003D1P1	D1003D1D1	D1002D1P1	D1005S1P1	D1001S1P1	D1003S1P1	L8004S1P1
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	71.1	78	63.6	67.4	73.5	63.9	74.8	78.7	72
13C12-2, 3, 7, 8-TCDD	71.3	73.2	68.3	70	78.8	60	73	77.7	67.7
13C12-1, 2, 3, 7, 8,-PECDF	70.2	82.6	68.2	75.1	85.4	66.4	78.4	76	73.4
13C12-1, 2, 3, 7, 8-PECDD	80.6	88.2	61.4	70.4	91.3	71.4	84.1	80.3	90.4
13C12-1, 2, 3, 6, 7, 8-HXCDF	77.2	79.7	80.2	72.1	79.3	66.8	65.6	68.6	72
13C12-1, 2, 3, 6, 7, 8-HXCDD	80.1	84.4	77.2	76	84	74.4	77	76.8	79.4
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	78.6	76	75	76	82.8	59.5	63.6	69.6	69.5
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	97.8	94.8	90.5	86.9	90.4	79.4	78	93.1	90.6
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	81.7	81.8	91.3	89	89.2	55.8	67.5	74.7	74.8
TOTAL OUT	0	0	0	0	0	0	0	0	0

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2A
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41363 AR1, B, C, D (CONTINUED)						SDG 41565 AR1, B, C		
	L8004S1D1	L8003S1P1	L8009S1P1	L8014S1P1	D1003D1MS	D1003D1MD	WM002D1P1	C1002D1P1	WM004D1P1
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	65.3	74.1	74.1	69.6	73.1	73.6	87.2	78.6	41.6
13C12-2, 3, 7, 8-TCDD	64.2	73.8	72.4	71	82.3	75.3	88.7	81.4	71.8
13C12-1, 2, 3, 7, 8,-PECDF	66.3	71.9	74	77.1	93.8	84.8	95.7	91	81.8
13C12-1, 2, 3, 7, 8-PECDD	86.5	94.1	93.7	92.1	99.7	93.3	109	103	96.9
13C12-1, 2, 3, 6, 7, 8-HXCDF	66.8	70.8	75.2	74	76	74.3	79	86.3	60.3
13C12-1, 2, 3, 6, 7, 8-HXCDD	70.7	75.4	86.2	83.1	82.6	76	87.3	93.4	77.2
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	65.8	78	71.8	77.3	85.3	83.1	82	89.2	71.1
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	77.4	95.1	89	104	98.7	82.7	88.8	110	68.8
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	67	84	76.3	93.7	101	92.9	80.4	135*	101
TOTAL OUT	0	0	0	0	0	0	0	1	0

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2A
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41565 AR1, B, C (CONTINUED)								
	WM005D1P1	WM005D1D1	L8021S1P1	L8023S1P1	L8024S1P1	L8018S1P1	L8022S1P1	L8016S1P1	L8025S1P1
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	68.6	69.3	95.7	59.4	97.3	46.2	92	94.4	69.1
13C12-2, 3, 7, 8-TCDD	77	74.2	98.4	62.9	96.7	44.5	98.2	90.9	75.1
13C12-1, 2, 3, 7, 8,-PECDF	86.9	89.3	121	77.6	111	48.9	106	105	84.1
13C12-1, 2, 3, 7, 8-PECDD	104	109	142*	87.8	137*	49.1	113	120	94.4
13C12-1, 2, 3, 6, 7, 8-HXCDF	83.2	84.9	85.3	55.3	94.2	43.7	91.2	90.8	71.6
13C12-1, 2, 3, 6, 7, 8-HXCDD	84.2	88.5	110	65.9	109	46.1	98.3	107	78.4
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	80.1	93.3	114	73.8	127	44.9	105	105	84.1
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	102	132*	133*	86.7	149*	50.1	119	114	101
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	98	155*	128	75.5	142*	44.1	102	113	110
TOTAL OUT	0	2	2	0	3	0	0	0	0

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2A
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41565 AR1, B, C RE								
	WM005D1P1	WM005D1D1	WM004D1P1	WM002D1P1	L8025S1P1	L8024S1P1	L8023S1P1	L8022S1P1	L8021S1P1
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	68.9	63.6	63.4	79.7	70.3	89.4	59.9	86.7	91.9
13C12-2, 3, 7, 8-TCDD	67.9	68.4	64.5	82.4	73	96.4	62.9	92.5	96.8
13C12-1, 2, 3, 7, 8,-PECDF	83.4	83.7	76	99.1	86.3	124	77.9	105	118
13C12-1, 2, 3, 7, 8-PECDD	102	97.2	96.5	116	104	156*	95.7	129	140*
13C12-1, 2, 3, 6, 7, 8-HXCDF	79.7	75.2	59.7	78.8	74	96.8	62.4	92	96.8
13C12-1, 2, 3, 6, 7, 8-HXCDD	96.9	103	83.8	102	91.7	121	79.3	116	126
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	96	97	80.3	104	90	120	73.6	105	119
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	122	128	102	126	104	156*	91.4	131*	148*
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	137*	138*	110	130	108	164*	95.1	124	163*
TOTAL OUT	1	1	0	0	0	3	0	1	3

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2A
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41565 AR1, B, C RE (CONTINUED)			SDG 41813 A, B					
	L8018S1P1	L8016S1P1	C1002D1P1	WL001D1P1	WL002D1P1	WL003D1P1	WL004D1P1	TC009D1P1	TC010D1P1
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	43	87.1	62.8	100.9	112.7	120.5	121.5	125.4	102.9
13C12-2, 3, 7, 8-TCDD	44.7	89.3	68.9	55.2	98.9	98	97	90.3	86.6
13C12-1, 2, 3, 7, 8,-PECDF	48.2	107	101	84.4	94.9	95.8	95.3	88	81.1
13C12-1, 2, 3, 7, 8-PECDD	57.9	133*	134*	95.9	115.6	114.6	111.6	102.8	92.4
13C12-1, 2, 3, 6, 7, 8-HXCDF	45.3	92.1	82.6	99.4	102	111	101	102	95.7
13C12-1, 2, 3, 6, 7, 8-HXCDD	51.6	117	112	115	113	120	112	111	108
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	46.6	113	116	102	99.1	112	102	97.7	91.5
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	57.2	132*	140*	114	107	119	106	105	103
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	50.4	140*	137*	105	86.3	104	89.3	79.4	77.4
TOTAL OUT	0	3	3	0	0	0	0	0	0

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2A
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41813 A, B (CONTINUED)					SDG 41813 A, B RE			
	BB001D1P1	BB002D1P1	BB003D1P1	BB004D1P1	BB005D1P1	WL001D1P1	WL002D1P1	WL003D1P1	WL004D1P1
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	120.5	91.3	114	93	88.5	89.3	104	103	102
13C12-2, 3, 7, 8-TCDD	92	90	107	84.3	80.7	86.7	97.5	97.3	95.2
13C12-1, 2, 3, 7, 8,-PECDF	88.5	118	126	101	103	105	97.5	98.8	93.8
13C12-1, 2, 3, 7, 8-PECDD	97.9	121	131*	115	113	126	101	105	101
13C12-1, 2, 3, 6, 7, 8-HXCDF	104	85.8	92.9	84.2	81.2	79.1	104	105	104
13C12-1, 2, 3, 6, 7, 8-HXCDD	111	98.8	101	96.1	95.1	98.9	118	120	115
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	104	86.5	84.1	77.3	83.2	103	101	110	106
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	111	104	102	92.6	97	127	98.6	111	93.5
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	90.9	102	102	83.9	107	125	70.7	83.6	63.8
TOTAL OUT	0	0	1	0	0	0	0	0	0

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2A
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41813 A, B RE (CONTINUED)						
	TC009D1P1	TC010D1P1	BB001D1P1	BB002D1P1	BB003D1P1	BB004D1P1	BB005D1P1
I.S. COMPOUND							
13C12-2, 3, 7, 8-TCDF	96.6	88.4	97.9	88.6	105	89.2	72.6
13C12-2, 3, 7, 8-TCDD	85.8	81.4	92.1	81.7	100	84.4	69.7
13C12-1, 2, 3, 7, 8,-PECDF	80.9	79.7	88.8	83.8	92.7	79.9	65
13C12-1, 2, 3, 7, 8-PECDD	91.5	93.5	105	94.7	111	98.3	65
13C12-1, 2, 3, 6, 7, 8-HXCDF	101	93.2	101	93.1	108	93.9	91.1
13C12-1, 2, 3, 6, 7, 8-HXCDD	112	104	112	106	111	108	115
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	90.7	82.7	97.7	97.7	91.9	81.6	97.3
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	97.1	94.6	106	106	80.5	91.4	96.5
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	68.1	66.9	80.3	81.7	67.5	63.4	72.1
TOTAL OUT	0	0	0	0	0	0	0

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41530 A, B, C, D								
	C1001D1P1	C1001D1P1MS	C1001D1P1MSD	C1001D1D1	C1005D1P1	C1006D1P1	WM003D1P1	WM001D1P1	EE05DD1P1
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	68.8	40.7	87	69.3	64.9	65.8	66.1	74.8	70.7
13C12-2, 3, 7, 8-TCDD	73.3	44.5	84.4	74.1	68.6	65.7	63.5	76.7	77
13C12-1, 2, 3, 7, 8,-PECDF	82.7	50.2	90.1	79.6	79.4	71.5	63.8	90.8	97.5
13C12-1, 2, 3, 7, 8-PECDD	69.5	44.9	77.4	64.5	70.5	66.8	56.6	74.8	117
13C12-1, 2, 3, 6, 7, 8-HXCDF	63.3	46.5	72.4	64.4	63.6	55.1	55.8	66.5	70.7
13C12-1, 2, 3, 6, 7, 8-HXCDD	66	49.6	81.2	68.8	67.2	69.7	59	69.7	83.3
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	74.6	56.3	87.9	75	72.9	61.8	60.9	79.2	97.9
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	84.4	62.1	95.9	78.3	84.1	74.3	72.4	83.1	112
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	81.9	68.3	111	84	89.6	78.8	78.4	101	112
TOTAL OUT	0	0	0	0	0	0	0	0	0

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2A
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41530 A, B, C, D (CONTINUED)								
	EE05UD1P1	EEN2DD1P1	EEN2UD1P1	EEN1DD1P1	EEN1UD1P1	L8020S1P1	L8020S1D1	L8020S1MS	L8020S1MSD
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	#	62.3	77.6	90.7	90.4	84.9	84.4	76.6	77.9
13C12-2, 3, 7, 8-TCDD	#	74.9	90.2	91.7	95.8	91.5	93.3	80.4	82.9
13C12-1, 2, 3, 7, 8,-PECDF	#	90.7	107	101	106	111	107	105	98.6
13C12-1, 2, 3, 7, 8-PECDD	#	105	120	120	121	132*	120	126	123
13C12-1, 2, 3, 6, 7, 8-HXCDF	#	79.3	69.4	70.5	85.5	75.5	70.6	71.1	73
13C12-1, 2, 3, 6, 7, 8-HXCDD	#	90.8	84.4	84.6	101	95.8	98.2	88.6	91
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	#	104	92.2	85.6	119	103	92.6	83.5	88.5
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	#	119	114	98.8	129	133*	117	108	112
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	#	127	128	93.1	150*	172*	146*	114	107
TOTAL OUT	0	0	0	0	1	3	1	0	0

DATA WAS NOT PROVIDED

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2A
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41530 A, B, C, D (CONTINUED)					41530 A, B, C, D RE			
	L8007S1P1	L8008S1P1	L8026S1P1	L8032S1P1	L8017S1P1	C1001D1P1	C1001D1P1MS	C1001D1P1MSD	C1001D1D1
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	73.5	83.8	87.4	75.3	85.7	62.7	36.2*	65.3	61.5
13C12-2, 3, 7, 8-TCDD	84.6	87.2	97	86.7	91.4	67.1	38.7*	75.4	66.4
13C12-1, 2, 3, 7, 8,-PECDF	105	111	106	104	113	88.1	59.4	99.7	87.4
13C12-1, 2, 3, 7, 8-PECDD	122	125	129	121	130	102	68.9	115	98.7
13C12-1, 2, 3, 6, 7, 8-HXCDF	74.1	74.8	78.2	77.6	75.4	61	42.8	70.1	61.5
13C12-1, 2, 3, 6, 7, 8-HXCDD	88.9	89.5	96.1	89	93	85.3	58.2	94	80.2
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	102	108	110	104	99.2	67.9	51	80.6	69.6
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	118	125	135*	123	118	87.8	63.1	100	85.4
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	143*	159*	137*	151*	123	101	68.9	106	75.2
TOTAL OUT	1	1	2	1	0	0	2	0	0

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2A
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41530 A, B, C, D RE (CONTINUED)								
	C1005D1P1	C1006D1P1	WM003D1P1	WM001D1P1	EE05DD1P1	EE05UD1P1	EEN2DD1P1	EEN2UD1P1	EEN1DD1P1
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	58.2	55.8	55.8	57.8	72.6	83.7	67.3	81.4	87.4
13C12-2, 3, 7, 8-TCDD	67	60.7	57.3	72.1	73.3	83.1	68.1	83.3	90.8
13C12-1, 2, 3, 7, 8,-PECDF	88.4	77.9	87.2	98	81.8	91.2	74.1	88.7	97.2
13C12-1, 2, 3, 7, 8-PECDD	108	94.9	102	119	83.3	102	80.8	90.3	101
13C12-1, 2, 3, 6, 7, 8-HXCDF	62.4	54.4	52.6	69.8	90.1	87.1	90.3	85.2	79.9
13C12-1, 2, 3, 6, 7, 8-HXCDD	83.7	79.9	72.1	82.4	107	106	113	102	93.9
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	72.6	65	58	81.8	88.5	78.2	86.8	85.4	78.2
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	96.2	85.2	74.5	93.7	96.8	86.3	87.5	93.5	80.1
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	98.1	84.5	71.5	100	86	57.9	60.5	73.2	60.1
TOTAL OUT	0	0	0	0	0	0	0	0	0

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2A
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41530 A, B, C, D RE (CONTINUED)								
	EEN1UD1P1	L8020S1P1	L8020S1D1	L8020S1MS	L8020S1MSD	L8007S1P1	L8008S1P1	L8026S1P1	L8032S1P1
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	91.6	92.4	90.5	84.4	83.3	79.4	82.7	96	83
13C12-2, 3, 7, 8-TCDD	88	89.9	90.5	78.8	84.1	79.1	82.4	99.2	87.2
13C12-1, 2, 3, 7, 8,-PECDF	98.8	136*	121	127	130	116	110	150*	172*
13C12-1, 2, 3, 7, 8-PECDD	101	161*	136*	149*	159*	132*	116	170*	209*
13C12-1, 2, 3, 6, 7, 8-HXCDF	94.5	97.6	90.2	88.6	88	106	97.4	109	93.7
13C12-1, 2, 3, 6, 7, 8-HXCDD	117	103	96	91.1	90.3	101	95.7	106	88.7
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	109	97.4	92.1	83.3	82.3	99.9	99.5	115	98.2
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	111	108	101	92.1	92.3	93.9	98	113	104
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	104	109	97.9	79.3	88.6	85.5	95	97.7	56.9
TOTAL OUT	0	2	1	1	1	1	0	2	2

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2A
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	41530RE CONT'D	SDG 41516 A, B, C, D						
	L8017S1P1	D1015D1D1	D1015D1D1MS	D1015D1D1MSD	D1016D1P1	D1015D1P1	D3007D1P1	D3007D1D1
I.S. COMPOUND								
13C12-2, 3, 7, 8-TCDF	106	85.3	80.4	71.2	71.6	78.5	63.2	76.4
13C12-2, 3, 7, 8-TCDD	90.8	86.7	80.9	80.3	77	81.3	66.2	80.3
13C12-1, 2, 3, 7, 8,-PECDF	118	98	94	97.4	84.7	95.3	71.7	84.8
13C12-1, 2, 3, 7, 8-PECDD	133*	94.8	93.6	105	83.7	90.1	67.8	84.5
13C12-1, 2, 3, 6, 7, 8-HXCDF	106	79.6	73	73.8	79.6	78.4	60.4	71.5
13C12-1, 2, 3, 6, 7, 8-HXCDD	103	87.9	80.1	81.3	84.8	84.4	65.8	75.1
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	100	89.5	82.5	77.6	81	85.2	64	72
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	101	93.7	90.6	77.7	78.8	95.6	64.5	82.5
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	78.9	112	104	87.7	81.2	105	66.2	69.8
TOTAL OUT	1	0	0	0	0	0	0	0

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2A
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41516 A, B, C, D (CONTINUED)								
	EE13DD1P1	EE13UD1P1	EE07DD1P1	EE07UD1P1	EE04DD1P1	EE04UD1P1	C1003D1P1	EE04DD1P1	L8031S1D1
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	40.1	103	95.9	60.9	79.3	89.8	98.3	97.5	69.5
13C12-2, 3, 7, 8-TCDD	56.4	97.5	90.8	63.6	102	96.2	104	103	74.1
13C12-1, 2, 3, 7, 8,-PECDF	79.5	115	102	80.3	110	116	126	126	89.7
13C12-1, 2, 3, 7, 8-PECDD	87	105	95.4	84.4	99.8	111	116	116	85.8
13C12-1, 2, 3, 6, 7, 8-HXCDF	61	93.9	87.2	63.6	77.6	90.5	89.5	94.9	74.4
13C12-1, 2, 3, 6, 7, 8-HXCDD	71.2	97.6	90.5	66.4	103	96	94.5	101	76.6
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	65.9	106	88	65.6	83.2	89.8	82.5	77.7	79.1
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	70.4	110	101	66.3	93.5	96.2	87.7	82	84.3
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	60.2	110	102	62.8	83	87.9	88.7	64.3	97
TOTAL OUT	0	0	0	0	0	0	0	0	0

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2A
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41516 A, B, C, D (CONTINUED)			SDG 41516 A, B, C, D RE					
	L8019S1P1	L8028S1P1	L8031S1P1	D1015D1D1	D1015D1D1MS	D1015D1D1MSD	D1016D1P1	D1015D1P1	D3007D1P1
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	82	94.8	92.3	76.3	69.7	70.1	74	71.3	55.3
13C12-2, 3, 7, 8-TCDD	78.8	94.4	92.8	80.4	74.1	73.6	71.2	74.7	58.4
13C12-1, 2, 3, 7, 8,-PECDF	93	119	119	91.4	86.6	86.3	82.7	84.2	70.6
13C12-1, 2, 3, 7, 8-PECDD	85.1	109	107	106	101	102	90.9	98.3	75.6
13C12-1, 2, 3, 6, 7, 8-HXCDF	76.2	99.3	90.3	73.5	70.6	71.6	74.2	74	63.6
13C12-1, 2, 3, 6, 7, 8-HXCDD	72.4	105	97	96.5	88.7	88.8	94.4	95.3	78.3
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	72.9	97	95.3	96.5	90.6	90.3	94	90.4	74.7
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	75.5	99.9	102	113	107	101	111	117	87.3
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	68.3	92.6	112	136*	120	106	132*	139*	83.1
TOTAL OUT	0	0	0	1	0	0	1	1	0

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2A
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41516 A, B, C, D RE (CONTINUED)								
	D3007D1D1	EE13DD1P1	EE13UD1P1	EE07DD1P1	EE07UD1P1	EE04DD1P1	EE04UD1P1	C1003D1P1	EE04DD1P1
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	69.6	48.2	92.3	75.6	56.3	119	88.7	101	86.4
13C12-2, 3, 7, 8-TCDD	70.4	54.8	89.5	79	57.7	93.7	89.3	95.5	99.7
13C12-1, 2, 3, 7, 8,-PECDF	80.9	65.7	127	112	66	125	94.3	123	128
13C12-1, 2, 3, 7, 8-PECDD	94.1	78.7	154*	142*	72.8	129	106	130	136*
13C12-1, 2, 3, 6, 7, 8-HXCDF	66.3	61.9	93.7	89	60.5	99.7	87.2	84.5	94.4
13C12-1, 2, 3, 6, 7, 8-HXCDD	88	80.4	115	106	74.5	107	106	105	117
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	79.9	78.9	113	104	68.2	77	85.5	87.7	103
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	94.9	90.8	132*	114	74.5	84.4	104	97.1	110
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	89.5	91	108	101	57.6	79.9	107	111	98.2
TOTAL OUT	0	0	2	1	0	0	0	0	1

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2A
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41516 A, B, C, D RE (CONTINUED)				SDG 41291 A, Ar1, B				
	L8031S1D1	L8019S1P1	L8028S1P1	L8031S1P1	D2006D1D1	D2006D1MS	D2006D1MSD	D2007D1P1	D2005D1P1
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	79.8	78.8	81.9	84.9	67.5	88.2	94.8	85.8	80
13C12-2, 3, 7, 8-TCDD	80.3	82.7	81.1	85.6	66.8	87.1	88.9	82.8	78.9
13C12-1, 2, 3, 7, 8,-PECDF	102	107	110	114	71.9	94	97.4	96.2	88.8
13C12-1, 2, 3, 7, 8-PECDD	109	108	119	119	80	98.9	102.8	109	102
13C12-1, 2, 3, 6, 7, 8-HXCDF	90.9	76.8	83.8	84.3	65.2	87.5	93	78.9	80.3
13C12-1, 2, 3, 6, 7, 8-HXCDD	100	94.7	100	101	81.6	95.7	102	96	93.7
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	95.8	78.8	87.7	91.5	69.1	84.8	98.7	92.3	86.6
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	101	86.3	92.3	101	70	88.8	97	106	90.1
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	112	75.1	90.3	105	43.3	70.3	82.2	53.8	63.7
TOTAL OUT	0	0	0	0	0	0	0	0	0

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2A
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41291 A, Ar1, B (CONTINUED)						SDG 41291 A, Ar1, B RE		
	D2004D1P1	D2001D1P1	D2002D1P1	D2008D1P1	D2003D1P1	D2006D1P1	D2006D1D1	D2006D1MS	D2006D1MSD
I.S. COMPOUND									
13C12-2, 3, 7, 8-TCDF	87.7	89.7	80.7	29.1*	34.4*	31.4*	71.9	89.8	92.3
13C12-2, 3, 7, 8-TCDD	86.7	93.3	78.3	30.2*	33.3*	32.2*	70.5	86.8	88.9
13C12-1, 2, 3, 7, 8,-PECDF	100	99.3	87.8	25.4*	31.4*	27.6*	79.4	94.1	96.5
13C12-1, 2, 3, 7, 8-PECDD	112	115	97.3	25.1*	32.4*	28.9*	88.8	101	109
13C12-1, 2, 3, 6, 7, 8-HXCDF	86.2	86	78.2	31.2*	35*	34.3*	79.1	89	88.5
13C12-1, 2, 3, 6, 7, 8-HXCDD	98.9	85.2	95.6	37.2*	39*	40.1	75.9	102	101
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	90.8	87.7	78	27.6	29.2	32.3	72.5	106	103
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	95	88	85	31.1	32.9	33.1	65.2	119	98.6
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	66.7	65	73.7	27.1	28.2	31.9	45.1	101	84.5
TOTAL OUT	0	0	0	6	6	5	0	0	0

COMPOUND	QC LIMITS
	% R SOIL
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2A
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

	SDG 41291 A, Ar1, B RE (CONTINUED)							
	D2007D1P1	D2005D1P1	D2004D1P1	D2001D1P1	D2002D1P1	D2008D1P1	D2003D1P1	D2006D1P1
I.S. COMPOUND								
13C12-2, 3, 7, 8-TCDF	90.9	85.4	89.5	93.3	87.6	30.6*	31.5*	31.2*
13C12-2, 3, 7, 8-TCDD	89.9	84	90.9	95.9	88.5	31*	36.7*	32.3*
13C12-1, 2, 3, 7, 8,-PECDF	98.5	97.7	108	97.5	111	30.6*	32.8*	36*
13C12-1, 2, 3, 7, 8-PECDD	122	117	117	115	127	33.1*	38.8*	39.7*
13C12-1, 2, 3, 6, 7, 8-HXCDF	90.8	84.3	99	93.3	77.4	28.8*	36.6*	30.1*
13C12-1, 2, 3, 6, 7, 8-HXCDD	103	89.6	95	96.4	88.1	32.9*	37.3*	35*
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	78.2	88.7	126	87.3	91.5	26.9	30	29.6
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	73.8	73.1	98.9	72.5	94.1	29.9	32.6	29.6
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	47.5	56	67	51.9	82.3	28.8	28.3	31.3
TOTAL OUT	0	0	0	0	0	6	6	6

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-130%
13C12-2, 3, 7, 8-TCDD	40%-130%
13C12-1, 2, 3, 7, 8,-PECDF	40%-130%
13C12-1, 2, 3, 7, 8-PECDD	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-130%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	25%-130%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	25%-130%

* - VALUE OUTSIDE OF QC LIMITS

# SAMPLES	% REC IN	% REC OUT	% TOTAL IN
346	2874	152	95.0%

The MS/MSD of sample GPT44G1P1 from SDG GULFW6 analyzed for semivolatile fraction exhibited a non-compliant recovery above the QC limit for 4-chloro3-methylphenol in the MSD (Table 2-12, page 2-27). The non-compliance was slight. Based on the assessment of additional QC criteria the analytical data did not require qualification.

The MS/MSD pairs analyzed for the pesticide/PCB fraction of samples D2006W1P1 from SDG D1D1 (Table 2-13, page 2-29), C1001W1P1 from SDG D1102 (Table 2-13, page 2-29), L4001P1P1 from SDG DI102 (Table 2-13, page 2-30), and TC006W1P1 from SDG GULFW6 (Table 2-13, page 2-31) exhibited acceptable recoveries for all spiked compounds.

The MS/MSD of sample GPT44G1P1 from SDG GULFW6 analyzed for pesticide/PCB fraction exhibited non-compliant recoveries below the QC limit for lindane, dieldrin, and endrin in the MS and MSD, and for heptachlor and aldrin in the MSD (Table 2-13, page 2-30). However, based on the assessment of additional QC criteria the analytical data did not require qualification.

The MS/MSD pairs analyzed for the dioxin/furan fraction of samples GPT44G1D1from SDG 41844A,AR2,B (Table 2-15, page 2-36) and TC006W1D1 from SDG 41776A,AR1,B (Table 2-15, page 2-36) exhibited acceptable recoveries for all spiked compounds.

The MS/MSD of sample D2006W1D1 from SDG 41291A,AR1,BRE analyzed for dioxin/furan exhibited recoveries above the QC limit in both the MS and the MSD for the compound OCDF (Table 2-15, page 2-34). However, based on the assessment of additional QC criteria, the analytical data did not require qualification.

The MS/MSD of sample C1001W11 from SDG 41530A,B,C,D analyzed for dioxin/furan exhibited a recovery below the QC limit in the MS for the compound OCDF (Table 2-15, page 2-35). However, based on the assessment of additional QC criteria, the analytical data did not require qualification.

The MS/MSD of sample D3007W1D3 from SDG 42239 analyzed for dioxin/furan exhibited a recovery below the QC limit in the MSD for the compound OCDF (Table 2-15, page 2-35). The non-compliance was slight. Based on the assessment of additional QC criteria, the analytical data did not require qualification.

The MS/MSD of sample L4001P1P1 from SDG 41584A&BRE analyzed for dioxin/furan exhibited recoveries above the QC limit in both the MS and the MSD for the compound OCDD (Table 2-15, page 2-37). However, based on the assessment of additional QC criteria, the analytical data did not require qualification.

The surrogate recoveries for the volatiles fraction were acceptable (Table 3-1).

Two (2) semivolatile samples exhibited one (1) base/neutral surrogate recovery each which were outside the acceptable criteria for accuracy (Table 3-2, page 3-4). The surrogate compound terphenyl-D_4 was recovered below the QC limits but above 10%. However, the National Functional Guidelines and the SOW allows one (1) surrogate compound per fraction to exceed the QC limits as long as the recovery is above 10%. Therefore, the analytical data did not require qualification.

Thirteen (13) pesticides/PCB field samples and two (2) field QC blanks exhibited TCMX *and* DCB surrogate recoveries that were below the QC limit but above 10% and eleven (11) pesticides/PCB field samples and five (5) field QC blanks exhibited TCMX *or* DCB surrogate recoveries that were below the QC limits but above 10% (Table 3-3, pages 3-6 & 3-7). This indicates that all reported results for the target compounds in the twenty-four (24) field water samples and seven (7) field QC blanks could be biased low. Therefore, all reported positive and non-detect results in twenty-four (24) field samples and seven (7) field QC blanks were appropriately qualified as estimated, J/UJ. One (1) field sample exhibited a TCMX recovery that was below 10% (Table 3-3, pages 3-6) This indicates that reported positive results for the target compounds in sample L4001P1D1 are biased low and that the non-detect results in the sample are unreliable. Therefore, the reported positive results in sample

L4001P1D1 were appropriately qualified as estimated, J, and the non-detect results were appropriately rejected, R. Twenty-seven (27) data points in the sample were rejected. Completeness for the matrix was 97.2% (Appendix C, Table C-3). Overall completeness for the fraction was within the completeness goal of 95% at 99.1% (Appendix C, Table C-3).

The herbicide analysis of the MS of sample TC006W1P1MS from SDG GULFW6 exhibited a surrogate recovery above the QC limits (Table 3-4, page 3-9). Qualification of analytical data due to this non-compliance was not required.

One (1) MS sample analyzed for the Herbicides fraction exhibited a non-compliant surrogate recovery above the QC limit (Table 3-4, page 3-9). No qualification of the analytical data was required.

Four (4) reported field samples and three (3) reported field QC blanks analyzed for dioxin/furan exhibited one (1) or more non-compliant recoveries for internal standard compounds (Table 3-1A, pages 3-14 through 3-24). The reported field samples and two (2) of the field QC blanks exhibited internal standard recoveries that were above the QC limit. This indicates that all reported positive results for the target compounds associated with the non-compliant internal standards in the field water samples could be biased high. Therefore, all reported positive results in the reported field samples: D5004W1P1 from SDG 41327A,B,CRE; D3005W1P1 and D3003W1P1 from SDG 41300A,B,C,DRE; and D1005W1P1 from SDG 41363RE; and the two (2) reported field QC blanks: AQRI101from SDG 41300A,B,C,DRE and QARI103 from SDG 41516, were appropriately qualified as estimated, J. The recoveries in the other field QC blank were below the QC limits. This indicates that all reported positive and non-detect results for the target compounds associated with the non-compliant internal standards in the field QC blank could be biased low. Reported results for associated compounds were appropriately qualified as estimated, J/UJ, in sample QADI102 from SDG 41516, and should be considered potentially underestimated.

Based on assessment of MS/MSD and surrogate sample accuracy evaluation criteria, the water matrix analytical data was acceptable for each SDG for the volatile, semivolatile, and herbicides fractions.

The pesticides fraction accuracy evaluation criteria was met, with the noted bias in sample L4001P1D1due to qualified and rejected data points. Twenty-seven (27) data points in the sample were rejected. Completeness for the matrix was 97.2% (Appendix C, Table C-3). Overall completeness for the fraction was within the completeness goal of 95% at 99.1% (Appendix C, Table C-3).

The dioxin/furan fraction accuracy evaluation criteria was met, with the noted high bias potential in the four (4) reported field samples and the two (2) reported field QC blanks and the low bias potential in the one (1) reported field QC blank.

3.2 Soil Matrix

All MS/MSD sample pairs analyzed for volatiles, pesticides/PCBs and herbicides exhibited acceptable recoveries of spike compounds (Tables 2-16, 2-18, and 2-19).

The MS/MSD pair analyzed for the semivolatile fraction of sample D2006D1P1 from SDG D1D1 (Table 2-17, page 2-40) exhibited acceptable recoveries for all spiked compounds.

The MS/MSD of sample C1001D1P1 from SDG EE01 analyzed for semivolatile fraction exhibited a non-compliant recovery above the QC limits for pyrene in the MS (Table 2-17, page 2-40). However, based on the assessment of additional QC criteria the analytical data did not require qualification.

The MS/MSD of sample L8013S1P1 from SDG EE01 analyzed for semivolatile fraction exhibited non-compliant recoveries below the QC limits for 1,4-dichlorobenzene, n-nitroso-di-n-propylamine, 1,2,4-trichlorobenzene, 4-

nitrophenol and pentachlorophenol in the MS and the MSD (Table 2-17, page 2-41). The recoveries for the compounds 1,4-dichlorobenzene, n-nitroso-di-n-propylamine, 1,2,4-trichlorobenzene were above 10%. No qualification of the data for those compounds was required. The recoveries for 4-nitrophenol and pentachlorophenol were below 10%. This indicates that any positive results reported for pentachlorophenol and 4-nitrophenol in the unspiked sample are underestimated, and reported non-detect results are unreliable. Both 4-nitrophenol and pentachlorophenol were reported as non-detect in the unspiked sample L8013S1P1. These two (2) data points required rejection. Completeness for the matrix was 99.9% (Appendix C, Table C-2). Overall completeness for the fraction was within the completeness goal of 95% at 99.97% (Appendix C, Table C-2).

The MS/MSD of sample TC006D1P1 from SDG GULFS7 analyzed for semivolatile fraction exhibited a non-compliant recovery below the QC limit for n-nitroso-di-n-propylamine in the MS (Table 2-17, page 2-41). The recovery in the MSD was acceptable. Based on the assessment of additional QC criteria the analytical data did not require qualification.

The MS/MSD of sample D2006D1D1 from SDG 41291A,AR1,BRE analyzed for dioxin/furan exhibited a recovery above the QC limit in the MSD for the compound OCDF (Table 2-20, page 2-46). However, based on the assessment of additional QC criteria, the analytical data did not require qualification.

The MS/MSD of sample L8013S1D1 from SDG 41574A,B,CRE analyzed for dioxin/furan exhibited acceptable recoveries for all spiked compounds (Table 2-20, page 2-47).

The MS/MSD of sample D1015D1D1 from SDG 41516A,B,C,DRE analyzed for dioxin/furan exhibited recoveries above the QC limit in the MS for the congeners 2,3,7,8-TCDD and 1,2,3,4,6,7,8-HpCDD and for OCDD in the MS and the MSD (Table 2-20, page 2-48). However, based on the assessment of additional QC criteria, the analytical data did not require qualification.

The MS/MSD of sample C1001D1P1 from SDG 41530A,B,C,DRE analyzed for dioxin/furan exhibited a recovery above the QC limit in the MSD for the compound OCDD and below the QC limit in the MSD for the congener 2,3,4,7,8-PeCDF (Table 2-20, page 2-50). However, based on the assessment of additional QC criteria, the analytical data did not require qualification.

The MS/MSD of sample L8020S1P1 from SDG 41530A,B,C,DRE analyzed for dioxin/furan exhibited acceptable recoveries for all spiked compounds (Table 2-20, page 2-50).

The MS/MSD of sample D1003D1D1 from SDG 41363AR1,B,C&D analyzed for dioxin/furan exhibited recovery below the QC limit the MSD for the congeners OCDD and 2,3,7,8-TCDF and below the QC limits in the MS and the MSD for the congener 2,3,7,8-TCDD (Table 2-20, page 2-51). However, based on the assessment of additional QC criteria, the analytical data did not require qualification.

The MS/MSD of sample D6002D1P1 from SDG 41327A,B,&CRE analyzed for dioxin/furan exhibited acceptable recoveries for all spiked compounds (Table 2-20, page 2-52).

The MS/MSD of sample D3007D1P3 from SDG 42239 analyzed for dioxin/furan exhibited a recovery below the QC limit in the MS for the compound OCDD and below the QC limit in the MSD for the congener 2,3,4,7,8-PeCDF (Table 2-20, page 2-52). However, based on the assessment of additional QC criteria, the analytical data did not require qualification.

The MS/MSD of sample WL010D1D1 from SDG 41844A,AR2,B analyzed for dioxin/furan exhibited recoveries above the QC limit in the MS for the compounds OCDD and OCDF (Table 2-20, page 2-53). However, based on the assessment of additional QC criteria, the analytical data did not require qualification.

The MS/MSD of sample D1007D1P3 from SDG 42263 analyzed for dioxin/furan exhibited acceptable recoveries for all spiked compounds (Table 2-20, page 2-53).

The MS/MSD of sample TC006D1D1 from SDG 41776A,AR1,B analyzed for dioxin/furan exhibited a recovery above the QC limit the MS for the congener 1,2,3,7,8,9-HxCDD and below the QC limit in the MSD for the compound OCDD (Table 2-20, page 2-54). However, based on the assessment of additional QC criteria, the analytical data did not require qualification.

The surrogate recoveries for the volatiles fraction were acceptable (Table 3-5).

One (1) semivolatile field sample and one (1) MSD exhibited one (1) acid surrogate recovery each which were outside the acceptable criteria for accuracy (Table 3-6, page 3-11). The surrogate compounds were below the QC limit but above 10%. However, the National Functional Guidelines and the SOW allows one (1) surrogate compound per fraction to exceed the QC limits as long as the recovery is above 10%. Therefore, the analytical data did not require qualification.

Thirteen (13) pesticides/PCB field samples exhibited TCMX surrogate recoveries that were below the QC limit but above 10% (Table 3-7, pages 3-12). This indicates that all reported results for the target compounds in these field soil samples could be biased low. Therefore, all reported positive and non-detect results in the thirteen (13) field samples were appropriately qualified as estimated, J/UJ.

One (1) field sample analyzed for the herbicides fraction exhibited a non-compliant surrogate recovery above the QC limit (Table 3-8, page 3-13). This indicates that reported positive results in the sample may be biased high. Therefore, reported positive results were appropriately qualified as estimated, J, in the field sample. One (1) field sample analyzed for the herbicides fraction exhibited a non-compliant surrogate recovery below the QC limit (Table 3-8, page 3-13). The recovery in sample D2003D1P1was below 10%. The sample was re-extracted and exhibited acceptable surrogate recovery upon re-analysis. Therefore, the original analysis was rejected, R, in favor of the results reported from the re-extraction analysis. This rejection of the original sample did not impact the completion goal for the fraction because viable data points were obtained from the re-analysis.

Twenty-nine (29) field samples and six (6) field duplicates analyzed for dioxin/furan exhibited one (1) or more non-compliant recoveries above the QC limits for internal standard compounds (Table 3-2A, pages 3-25 through 3-62). This indicates that all reported positive results for the target compounds associated with the non-compliant internal standards in the field soil samples could be biased high. Therefore, all reported positive results associated with the non-compliant internal standards in reported field samples and field duplicates: TC006D1D1 and TC008D1P1 from SDG 41776A,AR1,B; D2005D1P3 from SDG 42263; TC002D1P1, TC001D1P1, L8033S1P1, L8027S1P1, L8013S1D1 and L8013S1P1 from SDG 41574A,B,CRE; D5006D1P1, D5003D1P1, D6005D1P1 and D5017D1P1 from SDG 41327A,B,CRE; D5009D1P1, D5011D1D1 and D5015D1P1 from SDG 41300A,B,C,DRE; WM005D1P1, WM005D1D1, L8024S1P1, L8022S1P1, L8021S1P1, L8016S1P1 and C1002D1P1 from SDG 41565AR1,B,DRE; L8020S1P1, L8020S1D1, L8007S1P1, L8026S1P1, L8032S1P1 and L8017S1P1 from SDG 41530RE; D1015D1D1, D1016D1P1, D1015D1P1, EE13UD1P1, EE07DD1P1 and EE04DD1P1 from SDG 41516A,B,C,DRE; were appropriately qualified as estimated, J. Thirteen (13) field samples and one (1) field duplicate analyzed for dioxin/furan exhibited one (1) or more non-compliant recoveries below the QC limits for internal standard compounds (Table 3-2A, pages 3-25 through 3-63). This indicates that all reported positive and non-detect results for the target compounds associated with the non-compliant internal standards in the field QC blank could be biased low. Therefore, reported positive and non-detect results for associated target compounds in reported field samples and field duplicates: D1007D1P3 from SDG 42263; WL006D1P1, WL007D1P1, WL008D1P1, and WL010D1D1 from SDG 41844A,AR2,B; D5007D1P3 from SDG 42239; BC002D1P1 and BC001D1P1 from SDG 41606RE; D3004D1P1 from SDG 41300A,B,C,DRE; D2003D1P1, D2006D1P1 and D2008D1P1 from SDG 41291A,AR1,BRE; were appropriately qualified as estimated, J/UJ, and should be considered potentially underestimated.

Based on assessment of MS/MSD, surrogate and internal standard (dioxin/furan fraction only) sample accuracy evaluation criteria, the water matrix analytical data was acceptable for each SDG for the volatile and herbicides fractions.

The semivolatile fraction accuracy evaluation criteria was met, with the exception of the rejection of two (2) data points in sample L8013S1P1 due to MS/MSD recoveries less than 10%. Completeness for the matrix was 99.9% (Appendix C, Table C-2). Overall completeness for the fraction was within the completeness goal of 95% at 99.97% (Appendix C, Table C-2).

The pesticides fraction accuracy evaluation criteria was met, with the noted bias in the thirteen (13) field samples requiring qualification due to surrogate recovery non-compliances.

The dioxin/furan fraction accuracy evaluation criteria was met, with the noted high bias potential in twenty-nine (29) reported field samples and six (6) reported field duplicates and the noted low bias potential in thirteen (13) reported field samples and one (1) reported field duplicate.

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4.0 REPRESENTATIVENESS

Representativeness of the environmental sample analytical data was assessed using trip blanks, field blanks, equipment rinseate blanks, and laboratory method blanks. The environmental samples and associated blanks were analyzed for the following target analyte groups:

- volatile compounds (VOCs);
- semivolatile compounds (SVOCs);
- pesticides, PCBs,;
- herbicides; and
- dioxin/furans.

Tables evaluating suspected field contamination were not made of the field QC blanks because sample tracking information was not provided. The assessment of representativeness is summarized in tabular form for the method blank results and are summarized in Tables 4-1 and 4-2. Tables were prepared for only those method blanks which exhibited contamination and impacted the sample results. Therefore, tables were not required for the volatiles, semivolatiles, or the herbicides fractions.

If contaminants were detected in a blank, corrective actions were made for the chemical analytical data during data validation by Heartland. The corrective action consisted of amending the laboratory reported results for organic and inorganic target analytes by the criteria. The following describes the Validation Qualifier code in the blank summary tables.

Organic Target Analytes

- CRDL Validation Qualifier. If a sample result for the blank contaminant was less than the CRQL and less than 5 times the blank value (10 times for common laboratory contaminants), the sample result was rejected and amended as estimated non-detected at the CRQL for the target compound.

- U Validation Qualifier. If a sample result for the blank contaminant was greater than the sample CRQL and less than 5 times the blank value (10 times for common laboratory contaminants), the sample result for the blank contaminant was amended as non detect at the concentration reported in the sample results.

- No Action (NA). If a sample result for the blank contaminant was greater than the CRQL and 5 time the blank value (10 times for common laboratory contaminants), the result was not amended.

4.1 Method Blanks

The method blanks were samples of deionized water prepared by the laboratory at the time of analysis. Method blanks undergo the same analytical process as the corresponding environmental samples and associated field blanks. The purpose of the method blank is to assess the potential for target compounds and analytes to "contaminate" the sample during analysis. Target analytes detected in the method blank samples and requiring qualification of field samples consisted of:

- Pesticides/PCBs (Table 4-1)
  - 4,4'-DDT
  - endrin aldehyde
  - aldrin
  - methoxychlor

TABLE 4 - 1
PESTICIDES/PCBS DETECTED IN METHOD BLANKS
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG NUMBER	BLANK ID	RELATED ENVIRONMENTAL SAMPLES	CONTAMINANT	MB CONC.	UNITS	VALIDATION QUALIFIER
D1D1	PBLANK1	D3003W1P1	4,4'-DDT	0.0080	µg/L	CRQL
		D2006W1P1, D3003W1P1, QARI101, D3005W1P1	ENDRIN ALDEHYDE	0.071	µg/L	CRQL
		D2003W1P1, D2006W1D1, D5013W1P1, D5009W1P1, QADI101	ALDRIN	0.050	µg/L	
GULFS7	PBLANK1	TC006D1P1, WL001D1P1, BC003D1P1	METHOXYCHLOR	11	µg/Kg	CRQL
		TC006D1D1, BB003D1P1				

TABLE 4 - 2
DIOXIN/FURANS DETECTED IN METHOD BLANKS
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG NUMBER	BLANK ID	RELATED ENVIRONMENTAL SAMPLES	CONTAMINANT	MB CONC.	UNITS	VAL QUAL
42239	TLI WATER BLANK	D3007W1D3, D3007W1P3, D5009W1P QAD1104, QAR1112	2,3,4,6,7,8-HxCDF	4.0	ppq	U
41776 A,Ar1,B	TLI SOLID BLANK	TC008D1P1	1,2,3,4,6,7,8-HpCDF	3.6	ppt	U
		TC008D1P1	1,2,3,4,6,7,8,9-OCDF	6.6	ppt	U
41844A,Ar2,B	TLI SEDIMENT	WL010D1D1, WL010D1P1	2,3,4,6,7,8-HxCDF	0.42	ppt	U
	TLI SEDIMENT	WL009D1P1	2,3,4,6,7,8-HxCDF	0.47	ppt	U
	TLI WATER BLANK	QARI109, BC003W1P1	1,2,3,4,6,7,8-HpCDD	2.1	ppq	U
		GPT44G1P1, GPT44G1D1	2,3,7,8-TCDF	3.8	ppq	U
		GPT44G1P1	1,2,3,6,7,8-HxCDF	1.1	ppq	U
		GPT44G1P1, GPT44G1D1, GPT45G1P1, QARI109, BC003W1P1	2,3,4,6,7,8-HxCDF	3.8	ppq	U
42263	TLI WATER BLANK	D1001W1P3, QARI113	2,3,4,6,7,8-HxCDF	4.0	ppq	U
41864	TLI BLANK	GPT55G1P1, GPT47G1P1, GPT46G1P1	2,3,7,8-TCDF	3.8	ppt	U
		GPT47G1P1	1,2,3,4,7,8-HxCDF	1.1	ppt	U
		GPT55G1P1, GPT47G1P1, GPT46G1P1	1,2,3,6,7,8-HxCDF	1.1	ppt	U
		GPT55G1P1, GPT47G1P1, GPT46G1P1	2,3,4,6,7,8-HxCDF	3.8	ppt	U
41363Ar1,B,C,D	TLI SEDIMENT BLANK	D1005D1P1, D1003D1P1, D1003D1D1	1,2,3,4,7,8-HxCDF	0.38	ppt	U
		D1005D1P1, D1003D1P1, D1003D1D1	1,2,3,6,7,8-HxCDF	0.18	ppt	U
		D1007D1P1, D1005D1P1, D1003D1P1, D1003D1D1, D1002D1P1	2,3,4,6,7,8-HxCDF	0.69	ppt	U
		D1005D1P1	1,2,3,4,6,7,8-HpCDF	0.64	ppt	U
	TLI SOIL BLANK	D1005S1P1, S1001S1P1, L8004S1P1, L8003S1P1, L8009S1P1	2,3,4,6,7,8-HxCDF	0.5	ppt	U
	TLI WATER BLANK	D1005W1P1	2,3,4,6,7,8-HxCDF	6.7	ppq	U
41363Ar1,B,C,DRE	TLI WATER BLANK	D1005W1P1	1,2,3,4,6,7,8,9-OCDD	27.2	ppq	U
41291A,Ar1,B	TLI SEDIMENT BLANK	D2007D1P1, D2005D1P1, D2004D1P1, D2006D1D1	2,3,4,6,7,8-HxCDF	0.24	ppt	U
41565Ar1,B,CRE	TLI WATER BLANK	WM002W1P1	1,2,3,4,6,7,8,9-OCD	7.0	ppq	U
41516A,B,C,DRE	TLI SOIL BLANK	L8019S1P1	2,3,4,6,7,8-HxCDF	0.45	ppt	U
41348A,B,C	TLI SEDIMENT BLANK	D1013D1P1, D1009D1P1, D1006D1P1	2,3,4,6,7,8-HxCDF	0.49	ppt	U
41327A,B,C	TLI WATER BLANK	D5004W1P1, D5007W1P1	2,3,4,6,7,8-HxCDF	6.7	ppq	U
	TLI SEDIMENT BLANK	D5003D1P1, D5004D1P1, D6002D1P1, D6002D1D1	1,2,3,4,6,7,8,9-OCDF	1.4	ppt	U
	TLI SEDIMENT BLANK	D5016D1P1, D6004D1P1, D5013S1P1	2,3,4,6,7,8-HxCDF	0.34	ppt	U
41300A,B,C,D	TLI WATER BLANK	QARI101	1,2,3,4,6,7,8,9-OCD	2.3	ppq	U
	TLI WATER BLANK	D5009W1P1	2,3,4,6,7,8-HxCDF	6.7	ppq	U
	TLI SEDIMENT BLANK	D5010D1P1, D5009D1P1, D5008D1P1	2,3,4,6,7,8-HxCDF	0.44	ppt	U
	TLI SEDIMENT BLANK	D3006D1P1, D4003D1P1, D4002D1P1, D3005D1P1, D3004D1P1, D3002D1D1, D3003D1P1	2,3,4,6,7,8-HxCDF	6.0	ppt	U
41300A,B,C,DRE	TLI SEDIMENT BLANK	D5010D1P1	1,2,3,4,6,7,8,9-OCDD	2.6	ppt	U
		D5009D1P1, D5010D1P1, D5011D1P1, D5015D1P1	2,3,4,6,7,8-HxCDF	0.89	ppt	U
		D5009D1P1, D5010D1P1	1,2,3,4,7,8,9-HpCDF	0.81	ppt	U
		D5010D1P1, D5015D1P1	1,2,3,4,6,7,8,9-OCDF	1.7	ppt	U
41574A,B,CRE	TLI SOIL BLANK	L8027S1P1, L8030S1P1, TC001D1P1, TC002D1P1	2,3,4,6,7,8-HxCDF	0.5	pt	U

- Dioxin/Furans (Table 4-2)
  - 2,3,6,7,8-HxCDF
  - 1,2,3,4,6,7,8-HpCDF
  - 1,2,3,4,6,7,8,9-OCDF
  - 2,3,7,8-TCDF
  - 1,2,3,6,7,8-HxCDD
  - 2,3,4,6,7,8-HxCDF
  - 1,2,3,4,7,8-HxCDF
  - 1,2,3,4,6,7,8-~~OCDD~~ HpCDD
  - 1,2,3,4,6,7,8,9-OCDD

The pesticide/PCB compounds are not commonly found in the laboratory as a contaminant. The reported concentrations were below the CRQL for all of the compounds. This contamination may be attributed to the glassware used in sample preparation. The dioxin/furan contamination is also not commonly found in the laboratory. This contamination may be attributed to the glassware used in sample preparation.

Because target compounds were detected in some of the method blanks, some of the analytical results were qualified. However, based on assessment of method blanks for representativeness the analytical data was acceptable for each SDG.

4.2 Holding Times

Holding times requirements are utilized in an effort to minimize the degradation or concentration of constituents in a particular matrix over time. The stability of the constituents is determined to the best extent and then a reasonable time limit is imposed under which the samples must be extracted or prepared and then analyzed. The holding times regulations assume that the samples have been properly preserved according to the guidelines, either at the laboratory or in the field. Analytical results from samples with holding time violations are qualified as estimated, J/UJ, due to the potential for compromising the integrity of the samples.

All holding times requirements, extraction and analytical, were met for all samples for the volatiles, semivolatiles, and pesticides/PCBs analytical fractions.

One (1) sample analyzed for the herbicide fraction was extracted twelve (12) days outside the extraction holding time recommended in the method. Sample D2003D1P1RE was re-extracted due to surrogate recovery non-compliances. The positive and non-detect results reported in the sample were appropriately qualified as estimated, J/UJ.

Many of the dioxin/furan samples required re-analysis (RE) because the laboratory did not correctly (in accordance with the method) analyze the continuing calibration standard sequence. All of these samples were re-analyzed outside the recommended analysis holding time of forty-five (45) days from collection. However, the analytical data from the RE samples was not qualified based on the exceeded analytical holding time. The method states that "The holding times listed in Section 6.4 are recommendations. PCDDs and PCDFs are very stable in a variety of matrices, and holding times under the conditions listed in Section 6.4 may be as high as a year for certain matrices" (SW-846 Method 8290, pages 10-11, Section 6.4, Note). The laboratory stated that the sample extracts were kept in storage at 4°C as the method requires. The method further states that "Whenever samples are analyzed after the holding time expiration date the results should be considered to be minimum concentrations and must be identified as such" (SW-846 Method 8290, pages 10-11, Section 6.4). Therefore, results which are reported from the RE analysis of the samples should be considered biased low.

5.0 COMPARABILITY

Comparability is qualitative measure designed to express the confidence with which one data set may be compared to another. The analytical samples were collected and transported to the chemical analytical laboratory in accordance with standard procedures and were analyzed in conformance with acceptable USEPA procedures (Refer to Table 5-3 below). The analytical data are reported in standard units (micrograms per liter, micrograms per kilogram, etc.).

As noted in the Introduction Section of this document, many of the samples required re-analysis because of analytical sequence continuing calibration non-compliances in the original analysis. A comparison of the results obtained from the original analysis and the RE analysis was made. Precision limits of 35% RPD for the water matrix and 50% RPD for the soil matrix were applied to the data sets. Tables of the RPD Comparability Outliers were prepared for this PARCCs document (Tables 5-1and 5-2). The spreadsheets noting the original analysis results, the RE analysis results and the RPD are in this reported as Appendix D.

5.1 Water Matrix- Dioxin/Furans

One hundred and thirty three (133) positive results were reported in the samples analyzed in the original analysis. One hundred and one (101) positive results were reported in the samples that were re-analyzed. Comparison of the results from the original analysis and the RE analysis exhibited only fourteen (14) results with RPDs above 35%. These fourteen (14) results occurred in six (6) samples. This data is tabulated in Table 5-1. All other samples requiring re-analysis exhibited positive results with RPDs within the 35% precision limit. Eighty three point three three (83.33%) of the results reported in both the original analysis and the RE analysis exhibited acceptable precision.

5.2 Soil Matrix - Dioxin/Furans

One thousand four hundred and thirty-nine (1439) positive results were reported were reported in the samples analyzed in the original analysis. One thousand one hundred and twenty seven (1127) positive results were reported in the samples that were re-analyzed. RPDs were calculated for one thousand and seventy eight (1078) positive results. Comparison of the results from the original analysis and the reanalysis exhibited only forty six (46) results with RPDs above 50%. These forty six (46) results occurred in thirty nine (39) samples. This data is tabulated in Table 5-2. All other samples requiring re-analysis exhibited RPDs within the 50% precision limit applied to soil samples. Ninety nine point nine six percent (99.96%) of the results reported in both the original analysis and the RE analysis exhibited acceptable precision.

The methods used to collect the environmental samples and the methods used to analyze the samples should assure comparability of the analytical data.

TABLE 5-3
USEPA Procedures (CLP or SW-846 Methodologies)

U.S. EPA Method	Description
CLP, OLM1.8, SOW 3/90	Volatile Organics
CLP, OLM1.8, SOW 3/90	Semivolatile Organics
CLP, OLM01.8, SOW 3/90	Pesticides/PCBs
SW-846, Method 8150	Chlorinated Herbicides
SW-846, Method 8290	High Resolution Dioxin/Furan

TABLE 5 - 1
DIOXIN/FURAN WATER SAMPLES
RPD COMPARABILITY OUTLIERS
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	SAMPLE ID	MATRIX	COMPOUND	SAMPLE CONC.	REANALYSIS CONC.	UNITS	RPD
41291B	D2006W1P1	WATER	2, 3, 7, 8-TCDD	4.5	7.8	pg/L	53.7%
			1, 2, 3, 7, 8-PECDD	9.8	18.8	pg/L	62.9%
			1, 2, 3, 4, 6, 7, 8-HPCDD	7.6	16.6	pg/L	74.4%
			1, 2, 3, 4, 6, 7, 8, 9-OCDD	24.6	41.2	pg/L	50.5%
			2, 3, 7, 8-TCDF	5.9	8.7	pg/L	38.4%
			1, 2, 3, 7, 8-PECDF	8.7	16.7	pg/L	63.0%
			1, 2, 3, 4, 7, 8, 9-HPCDF	8	16.7	pg/L	70.4%
	D2003W1P1		1, 2, 3, 6, 7, 8,-HXCDD	11.8	20.8	pg/L	55.2%
			1, 2, 3, 4, 7, 8, 9-HPCDF	19.3	30.7	pg/L	45.6%
			1, 2, 3, 4, 6, 7, 8, 9-OCDF	47.2	86.8	pg/L	59.1%
41327C	D5007W1P1		1, 2, 3, 4, 6, 7, 8, 9-OCDF	24.8	40.3	pg/L	47.6%
41300C	D3005W1P1		1, 2, 3, 4, 7, 8-HXCDF	7.1	10.6	pg/L	39.5%
41813B	BB003W1P1		1, 2, 3, 4, 6, 7, 8-HPCDF	6.1	10.5	pg/L	53.0%
41864	GPT56G1P1		1, 2, 3, 7, 8, 9-HXCDD	56.4	110	pg/L	64.4%

TABLE 5 - 2
DIOXIN/FURAN SOIL SAMPLES
RPD COMPARABILITY OUTLIERS
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	SAMPLE ID	MATRIX	COMPOUND	SAMPLE CONC.	REANALYSIS CONC.	UNITS	RPD
41565AR1	WM002D1P1	SOIL	1, 2, 3, 7, 8-PECDD	1.1	1.9	pg/g	53.3%
	C1002D1P1		1, 2, 3, 4, 6, 7, 8, 9-OCDF	29.7	49.7	pg/g	50.4%
41565B	L8023S1P1		2, 3, 7, 8-TCDF	1.7	2.9	pg/g	52.2%
41530A	WM001D1P1		2, 3, 4, 6, 7, 8-HXCDF	2	3.6	pg/g	57.1%
	C1001D1D1		2, 3, 4, 6, 7, 8-HXCDF	2	0.97	pg/g	69.4%
	C1001D1P1		1, 2, 3, 7, 8-PECDD	3.8	1.9	pg/g	66.7%
			2, 3, 4, 6, 7, 8-HXCDF	2.2	0.74	pg/g	99.3%
41530B	EEN1DD1P1		1, 2, 3, 7, 8-PECDD	4.2	7.1	pg/g	51.3%
	EEN1UD1P1		1, 2, 3, 7, 8-PECDF	1.5	4.1	pg/g	92.9%
			1, 2, 3, 6, 7, 8-HXCDF	1.4	2.8	pg/g	66.7%
	EEN2DD1P1		2, 3, 4, 6, 7, 8-HXCDF	5	10	pg/g	66.7%
41530C	L8020S1P1		2, 3, 7, 8-TCDD	0.46	0.88	pg/g	62.7%
	L8026S1P1		1, 2, 3, 4, 7, 8, 9-HPCDF	1	1.8	pg/g	57.1%
	L8032S1P1		1, 2, 3, 4, 6, 7, 8, 9-OCDF	57.4	101	pg/g	55.1%
41516B	EE04DD1P1		1, 2, 3, 6, 7, 8-HXCDF	0.73	1.4	pg/g	62.9%
			2, 3, 4, 6, 7, 8-HXCDF	0.88	2.6	pg/g	98.9%
	C1003D1P1		2, 3, 4, 6, 7, 8-HXCDF	1.7	3.2	pg/g	61.2%
	EE04DD1P1		2, 3, 4, 6, 7, 8-HXCDF	4.6	12.6	pg/g	93.0%
	EE07UD1P1		2, 3, 4, 6, 7, 8-HXCDF	5.7	11.6	pg/g	68.2%
41516A	D1016D1P1		2, 3, 4, 6, 7, 8-HXCDF	2.1	3.3	pg/g	44.4%
	D1015D1P1		2, 3, 4, 6, 7, 8-HXCDF	3.1	5.6	pg/g	57.5%
	D3007D1D1		2, 3, 4, 6, 7, 8-HXCDF	1.5	3.4	pg/g	77.6%
	EE13DD1P1		2, 3, 7, 8-TCDF	0.84	3	pg/g	112.5%
41348B	D1010S1P1		2, 3, 7, 8-TCDF	5.2	2.3	pg/g	77.3%
	L8006S1P1		2, 3, 7, 8-TCDF	10	4.8	pg/g	70.3%
41574B	L8027S1P1		2, 3, 7, 8-TCDF	0.7	1.2	pg/g	52.6%
41574A	TC003D1P1		2, 3, 4, 6, 7, 8-HXCDF	0.64	0.37	pg/g	53.5%
41776	TC006D1D1		1, 2, 3, 4, 6, 7, 8-HPCDF	1.3	3.3	pg/g	87.0%
	BC005D1P1		1, 2, 3, 4, 6, 7, 8-HPCDF	8.8	15.8	pg/g	56.9%

TABLE 5 - 2
DIOXIN/FURAN SOIL SAMPLES
RPD COMPARABILITY OUTLIERS
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	SAMPLE ID	MATRIX	COMPOUND	SAMPLE CONC.	REANALYSIS CONC.	UNITS	RPD
41327A	D5003D1P1	SOIL	2, 3, 4, 6, 7, 8-HXCDF	1.3	2.2	pg/g	51.4%
	D6001D1P1		2, 3, 4, 6, 7, 8-HXCDF	0.71	1.2	pg/g	51.3%
41300A	D5012D1P1		1, 2, 3, 4, 7, 8, 9-HPCDF	11.2	4.8	pg/g	80.0%
	D5015D1P1		1, 2, 3, 4, 6, 7, 8, 9-OCDF	480	259	pg/g	59.8%
41300B	D3002D1D1		1, 2, 3, 4, 6, 7, 8, 9-OCDF	117	202	pg/g	53.3%
	D3002D1P1		1, 2, 3, 4, 6, 7, 8, 9-OCDF	109	183	pg/g	50.7%
	D3004D1P1		1, 2, 3, 4, 6, 7, 8-HPCDD	29.8	56.7	pg/g	62.2%
	D4003D1P1		1, 2, 3, 7, 8, 9-HXCDD	1.9	3.8	pg/g	66.7%
			1, 2, 3, 4, 6, 7, 8-HPCDD	59	102	pg/g	53.4%
			1, 2, 3, 4, 6, 7, 8, 9-OCDD	563	1010	pg/g	56.8%
41813	BB005D1P1		1, 2, 3, 4, 7, 8, 9-HPCDF	17.9	38.9	pg/g	73.9%
	WL003D1P1		1, 2, 3, 4, 6, 7, 8, 9-OCDF	109	212	pg/g	64.2%
	TC009D1P1		2, 3, 7, 8-TCDF	0.87	0.5	pg/g	54.0%
	WL004D1P1		1, 2, 3, 7, 8-PECDF	5.2	2.8	pg/g	60.0%
			1, 2, 3, 7, 8, 9-HXCDF	1.1	0.54	pg/g	68.3%
41291A	D2005D1P1		2, 3, 4, 6, 7, 8-HXCDF	0.94	2.1	pg/g	76.3%

6.0 COMPLETENESS

Completeness is the quantitative measure of the amount of data obtained from a measurement process compared with the amount expected to be obtained under the conditions of measurement. The completeness goal for laboratory analysis for this project was 95 percent useable data. Unusable analytical data are those results reported by the laboratory but rejected during the data validation process. A summary of the completeness goal for NCBC Gulfport is provided in Table 6-1. For more detailed completeness goal tables, please refer to Appendix C.

TABLE 6-1
COMPLETION GOAL (>95%)

	QC	SOIL	H2O	OVERALL
GC/MS Volatiles	100.0	100.0	100.0	100.0
Semivolatiles	100.0	99.9	100.0	99.96
Pesticide/PCBs	100.0	100.0	96.8	98.9
Herbicides	100.0	100.0	100.0	100.0
Dioxin/Furan (original)	74.8	49.2	73.3	65.8
Dioxin/Furan (RE)	98.5	100.0	100.0	99.5
Dioxin/Furan (overall)[1]	97.4	94.0	92.3	94.6

[1] Dioxin/furan field samples in which results were reported and utilized for the risk assessment. Only one set of results were reported and statistically inventoried for this category.

MATRIX KEY

QC = QC Samples (Includes Field QC Blanks and Field Duplicate samples)
H2O = Water Samples
SOIL = Soil and Sediment samples

The analytical data met the 95 percent completeness goal for every fraction with the exception of the dioxin/furan fraction. The majority of the samples analyzed for the dioxin/furan fraction required re-analysis because the laboratory did not follow the analytical sequence requirements set forth in the method. The method requires the analysis of mass resolution checks at the beginning and end of each twelve (12) hour period in which samples are analyzed (SW-846 Method 8290, Sections 8.3.2.1, 8.3.2.2, 8.3.2.2.1, 8.3.2.2.2, 8.3.2.3, and 8.3.2.4). In the analytical sequences surrounding the analysis of the majority of the samples, these mass resolution checks were not analyzed at the proper intervals. Therefore, all positive results reported in samples which were associated with the non compliant mass resolution checks required rejection, R. This action resulted in the rejection of one hundred and sixty seven (167) quality control sample data points, one thousand, four hundred and ninety five (1495) field soil sample data points and one hundred and forty five (145) field water sample data points in the original analysis of the samples. The completion goal for the dioxin/furan fraction was not met for any matrix. For this reason, the laboratory was requested to re-analyzed these samples under acceptable analytical sequences. The majority of these samples were re-analyzed outside of the analytical holding time recommended by the method. The data provided in the RE analysis was deemed acceptable with low bias (due to the holding time non-compliance) based on the relative stability of the dioxin/furan compounds in a variety of matrices (SW-846 Method 8290, Section 6.4, page 10). The Holding Time non-compliances are discussed more fully in the Representativeness section of this report, Section 4. For the RE analysis of the samples the completion goal was met for all matrices. However, this does not give an overall representation of true completeness for the sampling and analysis event. There were seventeen (17) field soil samples, four (4) field water samples, and four (4) field QC samples that were not re-analyzed. The laboratory was unable to re-analyze these samples because there was not enough sample extract. Therefore, results for these twenty-five (25) samples were reported from the original

analysis. These twenty-five (25) samples exhibited rejected, R, data points because of the analytical sequence non-compliances. In some cases, samples that did not require re-analysis were re-analyzed by the laboratory. Results for these samples were reported from the original analysis. The data presented in Table C-5B consists of original analysis results for which re-analysis was not required, RE analysis results for samples which required re-analysis and were re-analyzed. Results were reported for every sample for which data points were attempted. Based on the information contained in Table C-5B: the completion goal was met for the Quality Control matrix (97.4%); the completion goal was not met for the soil matrix (94.0%); and the completion goal was not met for the water matrix (92.3%). The overall completion goal fell only slightly below the goal of 95% at 94.6%. A combined set of data results (original and re-analysis, with no overlap) gives the most complete and true assessment of the PARCC criteria for this fraction.

The following includes a detailed discussion of areas in which the data were qualified which were not previously discussed in the narrative.

Volatiles/Semivolatiles/Pesticides/PCBs/Herbicides Target compounds for the volatile, semivolatile, and pesticide/PCBs fractions were qualified because of non-compliant calibrations (See Appendix A, Tables A-1, A-2, A-3, and A-4 for specific sample and compound information). Volatile, semivolatile, pesticide/PCB and herbicide compounds did not always meet the initial and/or continuing calibration criteria for RSD (Relative Standard Deviation), and %D (Percent Difference). All results qualified for calibration % RSD and % D deficiencies (J/UJ) are considered to be useable. For the compounds in the GC/MS volatile and semivolatile analyses that did not meet calibration criteria, all positive results are qualified as estimated (J) (%Ds >25%) and all non detect results are qualified as estimated (UJ) (>50% D <90%) due to calibration deficiencies. For the pesticide/PCB and herbicide analyses that did not meet calibration criteria, positive and non-detect results are qualified as estimated, (J or UJ) (%RSDs >20%) for initial calibration non-compliances, and all positive results are qualified as estimated (J) (%Ds >25%) and all non detect results are qualified as estimated (UJ) (>50% D <90%) for continuing calibration non-compliances.

Volatiles Target compounds for the volatile fraction were qualified because of non-compliant internal standard recoveries. Compounds associated with an internal standard exhibiting recoveries above the QC limits were qualified as estimated, J, or exhibiting recoveries below the QC limits were qualified as estimated, J/UJ. All data points qualified because of internal standard deficiencies are considered useable. For sample D1015D1P1 from SDG EE01, all positive and non-detect results associated with the internal standards 1,4-difluorobenzene and chlorobenzene-d_5 were qualified as estimated, J/UJ. For sample BC003D1P1 from SDG GULFS7, all positive results associated with the internal standard chlorobenzene-d_5 were qualified as estimated, J. These samples were re-extracted and analyzed according to the method, exhibiting similar results. The RE samples were rejected in favor of the results reported from the original analysis. This action does not constitute a true rejection because valid data points were obtained for all attempted data points from the original analyses.

Pesticide/PCBs Two (2) samples analyzed for the pesticide/PCB fraction required dilution to accurately quantitate target compounds. The compounds reported above the calibration range in the undiluted samples were rejected in favor of the results reported from the dilution analyses. This action does not constitute a true rejection because valid data points were obtained for all attempted data points from the dilution analyses. For sample L8005S1P1 from SDG 2009 the compounds 4,4'-DDE and 4,4,'-DDT were reported from the dilution analysis. For sample D3005D1P1 from SDG D1D1 the compound 4,4'-DDD was reported from the dilution analysis. The completion goal was not affected by this action.

Pesticide/PCBs Positive results reported with a P flag indicating column quantitation percent differences (%Ds) greater than 25% were qualified as estimated, J (for %Ds between 25%and 100%), or as presumptively present at an estimated concentration, NJ (for %Ds greater than 100%). All data qualified for P flags are considered usable.

7.0 PARCC SUMMARY

The purpose of evaluating the quality of the analytical data using the PARCC criteria was to address the qualification of the data in regards to evaluation of the presence, magnitude and characteristics of hazardous substances at NCBC Gulfport. Overall, the chemical analytical data are acceptable and exceeded the completion goal of 95 percent for all fractions with the exception of the dioxin/furan fraction. Tables 7-1 through 7-3B provides a tabulation of the assessment of PARCC criteria each SDG for water samples, soil samples, and quality control samples, respectively.

7.1 Water Samples

Twenty-seven (27) pesticide/PCB data points were rejected due to TCMX recovery less than 10% in sample L4001P1D1. The completion goal was met. One hundred and forty five (145) dioxin/furan data points were rejected because the analytical sequence was not performed in accordance with the method. The completion goal was not met.

7.1A Water Samples, Dioxin/Furan Fraction, RE Analysis

No data points were rejected. The completion goal was met.

7.1B Water Samples, Dioxin/Furan Fraction, Overall Summary

Forty two (42) dioxin/furan data points were rejected because the analytical sequence was not performed in accordance with the method. The completion goal was not met.

7.2 Soil Samples

Two (2) semivolatile data points were rejected in sample L8013S1P1 from SDG EE01 due to MS/MSD recoveries less than 10% in for pentachlorophenol and 4-nitrophenol. The completion goal was met. One thousand, four hundred and ninety five (1495) dioxin/furan data points were rejected because the analytical sequence was not performed in accordance with the method. The completion goal was not met.

7.2A Soil Samples, Dioxin/Furan Fraction, RE Analysis

No data points were rejected. The completion goal was met.

7.2B Soil Samples, Dioxin/Furan Fraction, Overall Summary

One hundred and seventy-seven (177) dioxin/furan data points were rejected because the analytical sequence was not performed in accordance with the method. The completion goal was not met.

7.3 QC Samples

One hundred and sixty seven (167) dioxin/furan data points were rejected because the analytical sequence was not performed in accordance with the method. The completion goal was not met.

7.3A QC Samples, Dioxin/Furan Fraction, RE Analysis

Five (5) dioxin/furan data points were rejected in sample L8013S1P1 from SDG EE01 due to internal standard recoveries less than 5%. The completion goal was met. These rejections did not impact the overall completion goal because they were in a field QC blank that did not require re-analysis but the laboratory reanalyzed it anyway. For the purpose of this PARCC report, reported results for the sample were from the original analysis.

TABLE 7 - 1
PARCC CRITERIA SUMMARY
WATER SAMPLES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDGs	PRECISION	ACCURACY	REPRESENT-ATIVENESS	COMPARABILITY	COMPLETENESS
D1D1	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
1001	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
2009	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
DI102	ACCEPTABLE	ACCEPTABLE (1) WITH REJECTIONS	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE (1) WITH REJECTIONS

(1) Twenty-seven (27) pesticide/PCB data points were rejected due to TCMX %recovery less than 10% in sample L4001P1D1. The completion goal was met.

(4) One hundred forty five (145) dioxin/furan data points were rejected as the mass resolution check standard was not analyzed according to the sequence set forth in the method. The completion goal was not met.

TABLE 7 - 1
PARCC CRITERIA SUMMARY
WATER SAMPLES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDGs	PRECISION	ACCURACY	REPRESENT-ATIVENESS	COMPARABILITY	COMPLETENESS
GULFW6	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41864	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	UNACCEPTABLE (4) WITH REJECTIONS
41584 A&B	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	UNACCEPTABLE (4) WITH REJECTIONS
41776 A,AR1,B	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE

(1) Twenty-seven (27) pesticide/PCB data points were rejected due to TCMX %recovery less than 10% in sample L4001P1D1. The completion goal was met.

(4) One hundred forty five (145) dioxin/furan data points were rejected as the mass resolution check standard was not analyzed according to the sequence set forth in the method. The completion goal was not met.

TABLE 7 - 1
PARCC CRITERIA SUMMARY
WATER SAMPLES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDGs	PRECISION	ACCURACY	REPRESENT-ATIVENESS	COMPARABILITY	COMPLETENESS
42263	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41844 A,AR2,B	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
42239	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41574 A,B,C	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	UNACCEPTABLE (4) WITH REJECTIONS

(1) Twenty-seven (27) pesticide/PCB data points were rejected due to TCMX %recovery less than 10% in sample L4001P1D1. The completion goal was met.

(4) One hundred forty five (145) dioxin/furan data points were rejected as the mass resolution check standard was not analyzed according to the sequence set forth in the method. The completion goal was not met.

TABLE 7 - 1
PARCC CRITERIA SUMMARY
WATER SAMPLES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDGs	PRECISION	ACCURACY	REPRESENT-ATIVENESS	COMPARABILITY	COMPLETENESS
41327 A,B,C	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	UNACCEPTABLE (4) WITH REJECTIONS
41300 A,B,C,D	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	UNACCEPTABLE (4) WITH REJECTIONS
41348 A,B,C	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41363 AR1,B,C,D	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	UNACCEPTABLE (4) WITH REJECTIONS

(1) Twenty-seven (27) pesticide/PCB data points were rejected due to TCMX %recovery less than 10% in sample L4001P1D1. The completion goal was met.

(4) One hundred forty five (145) dioxin/furan data points were rejected as the mass resolution check standard was not analyzed according to the sequence set forth in the method. The completion goal was not met.

TABLE 7 - 1
PARCC CRITERIA SUMMARY
WATER SAMPLES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDGs	PRECISION	ACCURACY	REPRESENT-ATIVENESS	COMPARABILITY	COMPLETENESS
41565	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41291 A,AR1,B	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	UNACCEPTABLE (4) WITH REJECTIONS
41813 A,B	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	UNACCEPTABLE (4) WITH REJECTIONS
41530 A,B,C,D	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	UNACCEPTABLE (4) WITH REJECTIONS

(1) Twenty-seven (27) pesticide/PCB data points were rejected due to TCMX %recovery less than 10% in sample L4001P1D1. The completion goal was met.

(4) One hundred forty five (145) dioxin/furan data points were rejected as the mass resolution check standard was not analyzed according to the sequence set forth in the method. The completion goal was not met.

TABLE 7 - 1A
PARCC CRITERIA SUMMARY
DIOXIN/FURAN WATER SAMPLES (RE ANALYSIS)
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDGs	PRECISION	ACCURACY	REPRESENT-ATIVENESS	COMPARABILITY	COMPLETENESS
41864 RE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41584 A&B RE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41574 A,B,C RE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41327 A,B,C RE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE

TABLE 7 - 1A
PARCC CRITERIA SUMMARY
DIOXIN/FURAN WATER SAMPLES (RE ANALYSIS)
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDGs	PRECISION	ACCURACY	REPRESENT-ATIVENESS	COMPARABILITY	COMPLETENESS
41300 A,B,C,D RE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41363 AR1,B,C,D RE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41565 RE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41291 A,AR1,B RE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41813 A,B RE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE

TABLE 7 - 1B
PARCC CRITERIA SUMMARY
DIOXIN/FURAN WATER SAMPLES (OVERALL SUMMARY)
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDGs	PRECISION	ACCURACY	REPRESENT-ATIVENESS	COMPARABILITY	COMPLETENESS
41864	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	UNACCEPTABLE (7) WITH REJECTIONS
41584 A&B	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41776 A,AR1,B	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
42263	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE

(7) Forty two (42) dioxin/furan data points were rejected as the mass resolution check standard was not analyzed according to the sequence set forth in the method. The completion goal was not met.

TABLE 7 - 1B
PARCC CRITERIA SUMMARY
DIOXIN/FURAN WATER SAMPLES (OVERALL SUMMARY)
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDGs	PRECISION	ACCURACY	REPRESENT-ATIVENESS	COMPARABILITY	COMPLETENESS
41844 A,AR2,B	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
42239	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41574 A,B,C	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41327 A,B,C	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE

(7) Forty two (42) dioxin/furan data points were rejected as the mass resolution check standard was not analyzed according to the sequence set forth in the method. The completion goal was not met.

TABLE 7 - 1B
PARCC CRITERIA SUMMARY
DIOXIN/FURAN WATER SAMPLES (OVERALL SUMMARY)
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDGs	PRECISION	ACCURACY	REPRESENT-ATIVENESS	COMPARABILITY	COMPLETENESS
41300 A,B,C,D	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41348 A,B,C	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41363 AR1,B,C,D	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	UNACCEPTABLE (7) WITH REJECTIONS
41565	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE

(7) Forty two (42) dioxin/furan data points were rejected as the mass resolution check standard was not analyzed according to the sequence set forth in the method. The completion goal was not met.

TABLE 7 - 1B
PARCC CRITERIA SUMMARY
DIOXIN/FURAN WATER SAMPLES (OVERALL SUMMARY)
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDGs	PRECISION	ACCURACY	REPRESENT-ATIVENESS	COMPARABILITY	COMPLETENESS
41291 A,AR1,B	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41813 A,B	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41530 A,B,C,D	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	UNACCEPTABLE (7) WITH REJECTIONS

(7) Forty two (42) dioxin/furan data points were rejected as the mass resolution check standard was not analyzed according to the sequence set forth in the method. The completion goal was not met.

TABLE 7 - 2
PARCC CRITERIA SUMMARY
SOIL SAMPLES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDGs	PRECISION	ACCURACY	REPRESENT-ATIVENESS	COMPARABILITY	COMPLETENESS
D1D1	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
1001	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
2009	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
EE01	ACCEPTABLE	ACCEPTABLE (2) WITH REJECTIONS	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE (2) WITH REJECTIONS

(2) Two (2) semivolatile data points were rejected due to MS/MSD recoveries less than 10% for pentachlorophenol and 4-nitrophenol. Completion Goal was met.

(3) One thousand four hundred ninety five (1495) dioxin/furan data points were rejected as the mass resolution check standa was not analyzed according to the sequence set forth in the method. The completion goal was not met.

TABLE 7 - 2
PARCC CRITERIA SUMMARY
SOIL SAMPLES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDGs	PRECISION	ACCURACY	REPRESENT-ATIVENESS	COMPARABILITY	COMPLETENESS
41584 A&B	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	UNACCEPTABLE (3) WITH REJECTIONS
41776 A,AR1,B	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
42263	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41844 A,AR2,B	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE

(2) Two (2) semivolatile data points were rejected due to MS/MSD recoveries less than 10% for pentachlorophenol and 4-nitrophenol. Completion Goal was met.

(3) One thousand four hundred ninety five (1495) dioxin/furan data points were rejected as the mass resolution check standa was not analyzed according to the sequence set forth in the method. The completion goal was not met.

TABLE 7 - 2
PARCC CRITERIA SUMMARY
SOIL SAMPLES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDGs	PRECISION	ACCURACY	REPRESENT-ATIVENESS	COMPARABILITY	COMPLETENESS
42239	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41574 A,B,C	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	UNACCEPTABLE (3) WITH REJECTIONS
41606	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	UNACCEPTABLE (3) WITH REJECTIONS
41327 A,B,C	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	UNACCEPTABLE (3) WITH REJECTIONS

(2) Two (2) semivolatile data points were rejected due to MS/MSD recoveries less than 10% for pentachlorophenol and 4-nitrophenol. Completion Goal was met.

(3) One thousand four hundred ninety five (1495) dioxin/furan data points were rejected as the mass resolution check standa was not analyzed according to the sequence set forth in the method. The completion goal was not met.

TABLE 7 - 2
PARCC CRITERIA SUMMARY
SOIL SAMPLES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDGs	PRECISION	ACCURACY	REPRESENT-ATIVENESS	COMPARABILITY	COMPLETENESS
41300 A,B,C,D	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	UNACCEPTABLE (3) WITH REJECTIONS
41348 A,B,C	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	UNACCEPTABLE (3) WITH REJECTIONS
41363 AR1,B,C,D	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	UNACCEPTABLE (3) WITH REJECTIONS
41565 AR1,B,C	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	UNACCEPTABLE (3) WITH REJECTIONS

(2) Two (2) semivolatile data points were rejected due to MS/MSD recoveries less than 10% for pentachlorophenol and 4-nitrophenol. Completion Goal was met.

(3) One thousand four hundred ninety five (1495) dioxin/furan data points were rejected as the mass resolution check standa was not analyzed according to the sequence set forth in the method. The completion goal was not met.

TABLE 7 - 2
PARCC CRITERIA SUMMARY
SOIL SAMPLES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDGs	PRECISION	ACCURACY	REPRESENT-ATIVENESS	COMPARABILITY	COMPLETENESS
41813 A,B	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	UNACCEPTABLE (3) WITH REJECTIONS
41530 A,B,C,D	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	UNACCEPTABLE (3) WITH REJECTIONS
41516 A,B,C,D	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	UNACCEPTABLE (3) WITH REJECTIONS
41291 A,AR1,B	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	UNACCEPTABLE (3) WITH REJECTIONS

(2) Two (2) semivolatile data points were rejected due to MS/MSD recoveries less than 10% for pentachlorophenol and 4-nitrophenol. Completion Goal was met.

(3) One thousand four hundred ninety five (1495) dioxin/furan data points were rejected as the mass resolution check standa was not analyzed according to the sequence set forth in the method. The completion goal was not met.

TABLE 7 - 2A
PARCC CRITERIA SUMMARY
DIOXIN/FURAN SOIL SAMPLES (RE ANALYSIS)
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDGs	PRECISION	ACCURACY	REPRESENT-ATIVENESS	COMPARABILITY	COMPLETENESS
41574 A,B,C RE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41606 RE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41327 A,B,C RE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41300 A,B,C,D RE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE

TABLE 7 - 2A
PARCC CRITERIA SUMMARY
DIOXIN/FURAN SOIL SAMPLES (RE ANALYSIS)
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDGs	PRECISION	ACCURACY	REPRESENT-ATIVENESS	COMPARABILITY	COMPLETENESS
41348 A,B,C RE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41565 AR1,B,C RE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41813 A,B RE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41530 A,B,C,D RE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE

TABLE 7 - 2A
PARCC CRITERIA SUMMARY
DIOXIN/FURAN SOIL SAMPLES (RE ANALYSIS)
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDGs	PRECISION	ACCURACY	REPRESENT-ATIVENESS	COMPARABILITY	COMPLETENESS
41516 A,B,C,D RE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41291 A,AR1,B RE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE

TABLE 7 - 2B
PARCC CRITERIA SUMMARY
DIOXIN/FURAN SOIL SAMPLES (OVERALL SUMMARY)
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDGs	PRECISION	ACCURACY	REPRESENT-ATIVENESS	COMPARABILITY	COMPLETENESS
41584 A&B	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE (7) WITH REJECTIONS
41776 A,AR1,B	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
42263	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41844 A,AR2,B	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE

(7) One hundred and seventy seven (177) dioxin/furan data points were rejected as the mass resolution check standard was not analyzed according to the sequence set forth in the method. The completion goal was not met.

TABLE 7 - 2B
PARCC CRITERIA SUMMARY
DIOXIN/FURAN SOIL SAMPLES (OVERALL SUMMARY)
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDGs	PRECISION	ACCURACY	REPRESENT-ATIVENESS	COMPARABILITY	COMPLETENESS
42239	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41574 A,B,C	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41606	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41327 A,B,C	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE (7) WITH REJECTIONS

(7) One hundred and seventy seven (177) dioxin/furan data points were rejected as the mass resolution check standard was not analyzed according to the sequence set forth in the method. The completion goal was not met.

TABLE 7 - 2B
PARCC CRITERIA SUMMARY
DIOXIN/FURAN SOIL SAMPLES (OVERALL SUMMARY)
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDGs	PRECISION	ACCURACY	REPRESENT-ATIVENESS	COMPARABILITY	COMPLETENESS
41300 A,B,C,D	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE (7) WITH REJECTIONS
41348 A,B,C	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE (7) WITH REJECTIONS
41363 AR1,B,C,D	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE (7) WITH REJECTIONS
41565 AR1,B,C	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE

(7) One hundred and seventy seven (177) dioxin/furan data points were rejected as the mass resolution check standard was not analyzed according to the sequence set forth in the method. The completion goal was not met.

TABLE 7 - 2B
PARCC CRITERIA SUMMARY
DIOXIN/FURAN SOIL SAMPLES (OVERALL SUMMARY)
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDGs	PRECISION	ACCURACY	REPRESENT-ATIVENESS	COMPARABILITY	COMPLETENESS
41813 A,B	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41530 A,B,C,D	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41516 A,B,C,D	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41291 A,AR1,B	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE

(7) One hundred and seventy seven (177) dioxin/furan data points were rejected as the mass resolution check standard was not analyzed according to the sequence set forth in the method. The completion goal was not met.

TABLE 7 - 3
PARCC CRITERIA SUMMARY
QUALITY CONTROL SAMPLES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDGs	PRECISION	ACCURACY	REPRESENT-ATIVENESS	COMPARABILITY	COMPLETENESS
D1D1	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
1001	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
2009	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
DI102	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE

(5) One hundred sixty seven (167) dioxin/furan data points were rejected as the mass resolution check standard was not analyzed according to the sequence set forth in the method. The completion goal was not met.

TABLE 7 - 3
PARCC CRITERIA SUMMARY
QUALITY CONTROL SAMPLES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDGs	PRECISION	ACCURACY	REPRESENT-ATIVENESS	COMPARABILITY	COMPLETENESS
GULFW6	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41776 A,AR1,B	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
42263	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41844 A,AR2,B	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE

(5) One hundred sixty seven (167) dioxin/furan data points were rejected as the mass resolution check standard was not analyzed according to the sequence set forth in the method. The completion goal was not met.

TABLE 7 - 3
PARCC CRITERIA SUMMARY
QUALITY CONTROL SAMPLES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDGs	PRECISION	ACCURACY	REPRESENT-ATIVENESS	COMPARABILITY	COMPLETENESS
42239	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41574 A,B,C	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	UNACCEPTABLE (5) WITH REJECTIONS
41606	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41300 A,B,C,D	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	UNACCEPTABLE (5) WITH REJECTIONS

(5) One hundred sixty seven (167) dioxin/furan data points were rejected as the mass resolution check standard was not analyzed according to the sequence set forth in the method. The completion goal was not met.

TABLE 7 - 3
PARCC CRITERIA SUMMARY
QUALITY CONTROL SAMPLES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDGs	PRECISION	ACCURACY	REPRESENT-ATIVENESS	COMPARABILITY	COMPLETENESS
41363 AR1,B,C,D	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	UNACCEPTABLE (5) WITH REJECTIONS
41530 A,B,C,D	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	UNACCEPTABLE (5) WITH REJECTIONS
41565 AR1,B,C	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	UNACCEPTABLE (5) WITH REJECTIONS
41291 A,AR1,B	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	UNACCEPTABLE (5) WITH REJECTIONS

(5) One hundred sixty seven (167) dioxin/furan data points were rejected as the mass resolution check standard was not analyzed according to the sequence set forth in the method. The completion goal was not met.

TABLE 7 - 3
PARCC CRITERIA SUMMARY
QUALITY CONTROL SAMPLES
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDGs	PRECISION	ACCURACY	REPRESENT-ATIVENESS	COMPARABILITY	COMPLETENESS
41516 A,B,C,D	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	UNACCEPTABLE (5) WITH REJECTIONS
41327 A,B,C	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	UNACCEPTABLE (5) WITH REJECTIONS
41584 A&B	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	UNACCEPTABLE (5) WITH REJECTIONS

(5) One hundred sixty seven (167) dioxin/furan data points were rejected as the mass resolution check standard was not analyzed according to the sequence set forth in the method. The completion goal was not met.

TABLE 7 - 3A
PARCC CRITERIA SUMMARY
DIOXIN/FURAN QUALITY CONTROL SAMPLES (RE ANALYSIS)
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDGs	PRECISION	ACCURACY	REPRESENT-ATIVENESS	COMPARABILITY	COMPLETENESS
41574 A,B,C RE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41606 RE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41300 A,B,C,D RE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41530 A,B,C,D RE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE

(6) Five (5) dioxin/furan data points were rejected due to internal standard % recoveries less than 10%. The matrix and overall completion goals were met.

TABLE 7 - 3A
PARCC CRITERIA SUMMARY
DIOXIN/FURAN QUALITY CONTROL SAMPLES (RE ANALYSIS)
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDGs	PRECISION	ACCURACY	REPRESENT-ATIVENESS	COMPARABILITY	COMPLETENESS
41565 AR1,B,C	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41291 A,AR1,B	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41516 A,B,C,D	ACCEPTABLE	ACCEPTABLE (6) WITH REJECTIONS	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE (6) WITH REJECTIONS
41327 A,B,C	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41584 A&B	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE

(6) Five (5) dioxin/furan data points were rejected due to internal standard % recoveries less than 10%. The matrix and overall completion goals were met.

TABLE 7 - 3B
PARCC CRITERIA SUMMARY
DIOXIN/FURAN QUALITY CONTROL SAMPLES (OVERALL SUMMARY)
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDGs	PRECISION	ACCURACY	REPRESENT-ATIVENESS	COMPARABILITY	COMPLETENESS
41776 A,AR1,B	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
42263	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41844 A,AR2,B	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
42239	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE

(8) Seventeen (17) dioxin/furan data points were rejected as the mass resolution check standard was not analyzed according to the sequence set forth in the method. The matrix completion goal was met.

TABLE 7 - 3B
PARCC CRITERIA SUMMARY
DIOXIN/FURAN QUALITY CONTROL SAMPLES (OVERALL SUMMARY)
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDGs	PRECISION	ACCURACY	REPRESENT-ATIVENESS	COMPARABILITY	COMPLETENESS
41574 A,B,C	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41606	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41300 A,B,C,D	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
41363 AR1,B,C,D	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE (8) WITH REJECTIONS
41530 A,B,C,D	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE (8) WITH REJECTIONS

(8) Seventeen (17) dioxin/furan data points were rejected as the mass resolution check standard was not analyzed according to the sequence set forth in the method. The matrix completion goal was met.

7.3B QC Samples, Dioxin/Furan Fraction, Overall Summary

Seventeen (17) dioxin/furan data points were rejected because the analytical sequence was not performed in accordance with the method. The completion goal for the matrix was met. However, the overall completion goal for the fraction was not met.

draft

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draft

APPENDIX A

CALIBRATION SUMMARY

TABLE A - 1
INITIAL AND CONTINUING CALIBRATION
VOLATILE ORGANIC COMPOUNDS
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

ICAL = INITIAL CALIBRATION = %RSD	SDG 2009		SDG 1001			SDG D1D1
CCAL = CONTINUING CALIBRATION = %D	**CCAL1**	**CCAL2**	**CCAL1**	**CCAL2**	**CCAL3**	**CCAL3**
DATE	04/16/97	04/17/97	04/21/97	04/17/97	04/16/97	04/17/97
INSTRUMENT ID	A3I501	A3I503	A3I502	A3I503	A3I501	A3I503
CALIBRATION CRITERIA	RRF/%D	RRF/%D	RRF/%D	RRF/%D	RRF/%D	RRF/%D
CHLOROETHANE			-31.0			
CHLOROMETHANE			-29.0			
BROMOFORM			-26.9			
2-BUTANONE	25.3				25.3	
4-METHYL-2-PENTANONE		29.6		29.6		29.6

SDGS, STANDARDS, AND ASSOCIATED SAMPLES

SDG 2009
CCAL1: D5007W1P1, D5004W1P1, D1013W1P1, D1010W1P1, D1018W1P1, QATB103
CCAL2: D5007D1P1, D1013D1P1, D1010D1P1
SDG 1001
CCAL1: D1003W1P1, QARI102, QATB104
CCAL2: D1005D1P1, D1003D1P1, L8003S1P1, D1001D1P1
CCAL3: D1005W1P1, D1001W1P1
SDG D1D1
CCAL3: D2006D1P1MS, D2006D1P1MSD

TABLE A - 1
INITIAL AND CONTINUING CALIBRATION
VOLATILE ORGANIC COMPOUNDS
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

ICAL = INITIAL CALIBRATION = %RSD	SDG DI102			SDG EE01			
CCAL = CONTINUING CALIBRATION = %D	**CCAL1**	**CCAL2**	**CCAL3**	**ICAL3**	**CCAL1**	**CCAL2**	**CCAL3**
DATE	05/02/97	05/06/97	05/07/97	05/06/97	05/03/97	05/05/97	05/06/97
INSTRUMENT ID	A3I501	A3I501	A3I501	A3UX1	A3UX1	A3UX1	A3UX1
CALIBRATION CRITERIA	RRF/%D	RRF/%D	RRF/%D	RRF/%RSD	RRF/%D	RRF/%D	RRF/%D
BROMOMETHANE				30.4			-25.1
2-BUTANONE	26.9				43.4		
ACETONE		-31.9	-29.7		46.1	-70.2	
CARBON TETRACHLORIDE		-25.6					

SDGS, STANDARDS, AND ASSOCIATED SAMPLES

SDG DI102
CCAL1: QADI102, QARI103, QATB105, C1001W1P1, C1001W1P1MS, C1001W1P1MSD, C1001W1D1, QATB106
CCAL2: WM002W1P1, QATB107, TC002W1P1, QARI104, QARTB108
CCAL3: L4001P1D1, L4002P1P1, L4001P1P1, L4001P1P1MS, L4001P1P1MSD, QATB109, QARI105, QATB110
SDG EE01
ICAL3: NONE
CCAL1: C1001D1P1, D1015D1P1, D1015D1P1MS, D1015D1P1MSD, C1001D1D1, D1015D1P1RE, L8016S1P1, L8025S1P1, TC002D1P1
CCAL2: L8013S1P1, L8013S1P1MS, L8013S1P1MSD, L8013S1D1, L8027S1P1
CCAL3: WM002D1P1

TABLE A - 1
INITIAL AND CONTINUING CALIBRATION
VOLATILE ORGANIC COMPOUNDS
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

ICAL = INITIAL CALIBRATION = %RSD	SDG GULFW6			
CCAL = CONTINUING CALIBRATION = %D	**CCAL1**	**CCAL2**	**CCAL3**	**CCAL4**
DATE	05/22/97	05/23/97	05/29/97	05/30/97
INSTRUMENT ID	A3I501	A3I501	A3I501	A3I501
CALIBRATION CRITERIA	RRF/%D	RRF/%D	RRF/%D	RRF/%D
BROMOMETHANE				
2-BUTANONE			36.0	
ACETONE	30.2	33.0	37.3	40.1
2-HEXANONE			38.0	
TOLUENE				-28.4
4-METHYL-2-PENTANONE		25.4	39.0	

SDGS, STANDARDS, AND ASSOCIATED SAMPLES

SDG GULFW6

CCAL1: QADI103, TC006W1D1, QATB111, QATB112, TC006W1P1, TC00W1P1MS, TC00W1P1MSD BB003W1P1, GPT44G1D1, QATB113, GPT45G1P1

CCAL2: QARI108

CCAL3: GPT44G1P1, GPT44G1P1MS, GPT44G1P1MSD, QARI109, BC003W1P1, GPT54G1P1, GPT55G1P1, GPT56G1P1, GPT47G1P1, GPT46G1P1, QARI110, QARI111

CCAL4: QATB114

TABLE A - 2
INITIAL AND CONTINUING CALIBRATION
SEMIVOLATILE ORGANIC COMPOUNDS
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

ICAL = INITIAL CALIBRATION = %RSD	2009			1001		D1D1
CCAL = CONTINUING CALIBRATION = %D	ICAL1	CCAL1	CCAL2	ICAL1	CCAL1	ICAL1
DATE	03/07/97	04/18/97	04/21/97	03/07/97	04/17/97	03/07/97
INSTRUMENT ID	A4EXT4	A4EXT4	A4EXT4	A4EXT4	A4EXT4	A4EXT4
CALIBRATION CRITERIA	%RSD	%D	%D	%RSD	%D	%RSD
BUTYLBENZYLPHTHALATE			27.9			
BIS (2-ETHYLHEXYL) PHTHALATE			28.2	26.5		
4-NITROPHENOL	32.1	-26.0		32.1	-28.4	32.1
4-NITROANILINE		-26.4		25.7	-30.3	

SDGS, STANDARDS, AND ASSOCIATED SAMPLES

SDG 2009
ICAL1: NONE
CCAL1: D5004D1P1, L8001S1P1, D1008D1P1
CCAL2: D5007W1P1, D1013W1P1, D1010W1P1, D1008W1P1, L8010S1P1, L8005S1P1, D1013D1P1, D5007D1P1, D1010D1P1
SDG 1001
ICAL1: NONE
CCAL1: D1005W1P1, D1001W1P1, D1003W1P1, QARI102, D1005D1P1, D1001D1P1, D1003D1P1, L8003S1P1
SDG D1D1
ICAL1: NONE

TABLE A - 2
INITIAL AND CONTINUING CALIBRATION
SEMIVOLATILE ORGANIC COMPOUNDS
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

ICAL = INITIAL CALIBRATION = %RSD	DI102			EE01		
CCAL = CONTINUING CALIBRATION = %D	ICAL1	CCAL1	CCAL2	ICAL1	CCAL1	CCAL2
DATE	04/07/97	05/08/97	05/12/97	03/07/97	05/07/97	05/08/97
INSTRUMENT ID	A4EXT4	A4EXT4	A4EXT4	A4EXT4	A4EXT4	A4EXT4
CALIBRATION CRITERIA	%RSD	%D	%D	%RSD	%D	%D
HEXACHLOROBUTADIENE		25.2				
HEXACHLOROBENZENE			25.9			
2,4,6-TRICHLOROPHENOL		30.6	31.6		30.6	30.6
4-NITROPHENOL	32.1			32.1		
4-NITROANILINE		-38.2	-29.6		-29.6	-38.2

SDGS, STANDARDS, AND ASSOCIATED SAMPLES

SDG DI102
ICAL1: NONE
CCAL1: QADI102, QARI103, C1001W1P1, C1001W1P1MS, C1001W1P1MSD, C1001W1D1, WM002W1P1, TC002W1P1, QARI104, L4001P1P1, L4001P1P1MS, L4001P1P1MSD, L4002P1P1, L4001P1D1
CCAL2: QARI105
SDG EE01
ICAL1: NONE
CCAL1: WM002D1P1, L8013S1D1, L8027S1P1, C1001D1P1, C1001D1P1MS, C1001D1P1MSD, L8013S1P1MS, L8013S1P1MSD, C1001D1D1, L8025S1P1, L8016S1P1
CCAL2: L8013S1P1, D1015D1P1, TC002D1P1

TABLE A - 2
INITIAL AND CONTINUING CALIBRATION
SEMIVOLATILE ORGANIC COMPOUNDS
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

ICAL = INITIAL CALIBRATION = %RSD	GULFW6			GULFS7		
CCAL = CONTINUING CALIBRATION = %D	ICAL1	CCAL1	CCAL2	ICAL1	CCAL1	CCAL2
DATE	03/07/97	06/10/97	06/11/97	03/07/97	06/12/97	06/16/97
INSTRUMENT ID	A4EXT4	A4EXT4	A4EXT4	A4EXT4	A4EXT4	A4EXT4
CALIBRATION CRITERIA	%RSD	%D	%D	%RSD	%D	%D
HEXACHLOROCYCLOPENTADIENE					32.3	
DI-N-OCTYLPHTHALATE					-26.8	
BIS(2-CHLOROETHYL)ETHER			-27.5			
2,4,6-TRICHLOROPHENOL					27.0	
BUTYLBENZYLPHTHALATE						29.1
BIS(2-ETHYLHEXYL)PHTHALATE						26.7
PYRENE		25.5				
4-CHLOROANILINE		34.9	35.4		31.7	39.4
4-NITROPHENOL	32.1	-56.3	-50.4	32.1		-37.0
4-NITROANILINE		-38.2	-29.8		-43.8	

SDGS, STANDARDS, AND ASSOCIATED SAMPLES

SDG GULFW6
ICAL1: NONE
CCAL1: QADI103, TC006W1P1, TC006W1P1MS, TC006W1P1MSD, TC006W1D1, QADI108, GPT54G1P1, GPT55G1P1, GPT56G1P1, GPT47G1P1, GPT46G1P1, QARI110
CCAL2: QARI111, BB003W1P1, GPT45G1P1, GPT44G1P1, GPT44G1P1MS, GPT44G1P1MSD, GPT44G1D1, QARI109, BC003W1P1
SDG GULFS7
ICAL1: NONE
CCAL1: TC006D1P1, TC006D1P1MS, TC006D1P1MSD, TC006D1D1
CCAL2: WL001D1P1, BB003D1P1, BC003D1P1

TABLE A - 3
INITIAL AND CONTINUING CALIBRATION
PESTICIDES/PCBS ORGANIC COMPOUNDS
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

ICAL = INITIAL CALIBRATION = %RSD *CCAL = CONTINUING CALIBRATION = %D*	SDG GULFS7 **ICAL1**
DATE	06/13/97
INSTRUMENT ID	A2HPX
CALIBRATION CRITERIA	%RSD
METHOXYCHLOR	20.1

SDGS, STANDARDS, AND ASSOCIATED SAMPLES

SDG GULFS7

ICAL1: TC006D1D1, TC006D1P1, TC006D1P1MS, TC006D1P1MSD, WL001D1P1, BB003D1P1, BC003D1P1

TABLE A - 4
INITIAL AND CONTINUING CALIBRATION
HERBICIDE COMPOUNDS
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

ICAL = INITIAL CALIBRATION = %RSD	SDG DI102					SDG EE01	
CCAL = CONTINUING CALIBRATION = %D	**CCAL2**	**CCAL3**	**CCAL4**	**CCAL5**	**CCAL7**	**CCAL4**	**CCAL7**
DATE	05/03/97	05/04/97	05/04/97	05/04/97	05/04/97	05/06/97	05/07/97
INSTRUMENT ID	A2HPH	A2HPH	A2HPH	A2HPH	A2HPH	A2HPH	A2HPH
CALIBRATION CRITERIA	RRF/%D	RRF/%D	RRF/%D	RRF/%D	RRF/%D	RRF/%D	RRF/%D
2,4-D	188.35	157.47	161.48	149.46	132.23	118.00	116.40
2,4,5-TP	154.36	136.91	139.44	132.35	128.48		
2,4,5-T	164.10	137.47	140.63	130.53	124.38		

SDGS, STANDARDS, AND ASSOCIATED SAMPLES

SDG DI102
CCAL2: QARI103, C1001W1P1, C1001W1P1MS, C1001W1P1MSD
CCAL3: C1001W1D1, L4001P1P1
CCAL4: L4001P1P1MS, L4001P1P1MSD, L4002P1P1, L4001P1D1, WM002W1P1, TC002W1P1, QAR104
CCAL5: NONE
CCAL7: NONE
SDG EE01
CCAL4: NONE
CCAL7: NONE

TABLE A - 4
INITIAL AND CONTINUING CALIBRATION
HERBICIDE COMPOUNDS
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

ICAL = INITIAL CALIBRATION = %RSD	SDG D1D1			
CCAL = CONTINUING CALIBRATION = %D	**CCAL2**	**CCAL3**	**CCAL4**	**CCAL6**
DATE	04/27/97	04/27/97	04/27/97	04/29/97
INSTRUMENT ID	A2HPH	A2HPH	A2HPH	A2HPH
CALIBRATION CRITERIA	RRF/%D	RRF/%D	RRF/%D	RRF/%D
2,4-D	125.61/82.97	122.46	128.60	
2,4,5-TP	116.40		119.57	119.73
2,4,5-T	124.21	122.87	129.43	121.64

SDGS, STANDARDS, AND ASSOCIATED SAMPLES

SDG D1D1
CCAL2: D5013D1P1, D5009D1P1, D3003D1P1
CCAL3: NONE
CCAL4: D3005D1D1, D2003W1P1, D2006W1D1, D2006W1P1, D2006W1P1MS, D2006W1P1MSD
CCAL6: NONE

TABLE A - 4
INITIAL AND CONTINUING CALIBRATION
HERBICIDE COMPOUNDS
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

ICAL = INITIAL CALIBRATION = %RSD	SDG 2009							
CCAL = CONTINUING CALIBRATION = %D	**CCAL1**	**CCAL2**	**CCAL3**	**CCAL5**	**CCAL6**	**CCAL7**	**CCAL8**	**CCAL10**
DATE	04/22/97	04/23/97	04/23/97	04/27/97	04/27/97	04/27/97	04/28/97	04/29/97
INSTRUMENT ID	A2HPH	A2HPH	A2HPH	A2HPH	A2HPH	A2HPH	A2HPH	A2HPH
CALIBRATION CRITERIA	RRF/%D	RRF/%D	RRF/%D	RRF/%D	RRF/%D	RRF/%D	RRF/%D	RRF/%D
2,4-D	115.38	133.94	134.73	82.97/125.61	122.46	117.73	128.60	115.30
2,4,5-TP	116.43	117.25	122.95	116.40			119.57	119.73
2,4,5-T	118.74	131.62	134.99	124.21	122.87	117.92	129.43	121.64

SDGS, STANDARDS, AND ASSOCIATED SAMPLES

SDG 2009
CCAL1: NONE
CCAL2: D1013W1P1, D1010W1P1, D1008W1P1
CCAL3: NONE
CCAL5: D1013D1P1, D1010D1P1, D1008D1P1, L8001S1P1, L8005S1P1
CCAL6: L8010S1P1
CCAL7: NONE
CCAL8: NONE
CCAL10: NONE

TABLE A - 4
INITIAL AND CONTINUING CALIBRATION
HERBICIDE COMPOUNDS
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

ICAL = INITIAL CALIBRATION = %RSD	SDG 1001					
CCAL = CONTINUING CALIBRATION = %D	**CCAL1**	**CCAL2**	**CCAL3**	**CCAL5**	**CCAL6**	**CCAL7**
DATE	04/24/97	04/24/97	04/24/97	04/27/97	04/27/97	04/27/97
INSTRUMENT ID	A2HPH	A2HPH	A2HPH	A2HPH	A2HPH	A2HPH
CALIBRATION CRITERIA	RRF/%D	RRF/%D	RRF/%D	RRF/%D	RRF/%D	RRF/%D
2,4-D	138.47	140.20	126.28	82.97/125.61	122.46	117.43
2,4,5-TP	119.53	124.26	115.97	116.40		
2,4,5-T	135.45	137.27	123.64	124.21	122.87	117.92

SDGS, STANDARDS, AND ASSOCIATED SAMPLES

SDG 1001
CCAL1: D1001W1P1
CCAL2: D1003W1P1, QARI102, D1005W1P1
CCAL3: NONE
CCAL5: NONE
CCAL6: D1003D1P1, D1005D1P1, D1001D1P1, L8003S1P1
CCAL7: NONE

TABLE A - 4
INITIAL AND CONTINUING CALIBRATION
HERBICIDE COMPOUNDS
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

ICAL = INITIAL CALIBRATION = %RSD	SDG GULFW6						
CCAL = CONTINUING CALIBRATION = %D	**CCAL1**	**CCAL2**	**CCAL3**	**CCAL4**	**CCAL5**	**CCAL7**	**CCAL8**
DATE	05/25/97	05/25/97	05/28/97	05/28/97	06/04/97	06/06/97	06/09/97
INSTRUMENT ID	A2HPH	A2HPH	A2HPH	A2HPH	A2HPH	A2HPH	A2HPH
CALIBRATION CRITERIA	RRF/%D	RRF/%D	RRF/%D	RRF/%D	RRF/%D	RRF/%D	RRF/%D
2,4-D	134.73	149.20/149.01	118.83	152.27	84.09	125.06	126.42
2,4,5-TP	117.48	118.16/126.63	121.95	148.26	84.50		124.14
2,4,5-T	115.43	141.57/127.19		136.36	84.55		124.93

SDGS, STANDARDS, AND ASSOCIATED SAMPLES

SDG GULFW6
CCAL1: QADI103, TC006W1D1, QARI108, TC006W1P1
CCAL2: NONE
CCAL3: TC006W1P1MS, TC006W1P1MSD
CCAL4: NONE
CCAL5: GPT54G1P1, GPT55G1P1, GPT56G1P1, QARI110, QARI111
CCAL7: NONE
CCAL8: BC003W1P1, GPT45G1P1, GPT44G1P1, GPT44G1P1MS, GPT44G1P1MSD

TABLE A - 4
INITIAL AND CONTINUING CALIBRATION
HERBICIDE COMPOUNDS
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

ICAL = INITIAL CALIBRATION - %RSD	SDG GULFS7				
CCAL = CONTINUING CALIBRATION = %D	**CCAL1**	**CCAL2**	**CCAL3**	**CCAL4**	**CCAL5**
DATE	06/07/97	06/07/97	06/08/97	06/08/97	06/09/97
INSTRUMENT ID	A2HPH	A2HPH	A2HPH	A2HPH	A2HPH
CALIBRATION CRITERIA	RRF/%D	RRF/%D	RRF/%D	RRF/%D	RRF/%D
2,4-D	130.73	126.57	119.16		126.42
2,4,5-TP		124.05	130.35	131.15	124.14
2,4,5-T		123.16	129.68	128.84	124.93

SDGS, STANDARDS, AND ASSOCIATED SAMPLES

SDG GULFS7
CCAL1: NONE
CCAL2: NONE
CCAL3: BC003D1P1, TC006D1P1, TC006D1P1MS, TC006D1P1MSD, TC006D1D1, WL001D1P1, BB003D1P1
CCAL4: NONE
CCAL5: NONE

APPENDIX C

REJECTED DATA SUMMARY

TABLE C - 1
GC/MS VOLATILES - REJECTED DATA
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	# SAMPLES/MATRIX			# OF COMPOUNDS REJECTED PER MATRIX		
	QC	SOIL	H20	QC	SOIL	H20
D1D1	6	6	6	0	0	0
1001	2	3	4	0	0	0
2009	1	8	5	0	0	0
DI102	12	0	5	0	0	0
EE01	2	8	0	0	0	0
GULFW6	11	0	10	0	0	0
GULFS7	1	4	0	0	0	0
GRAND TOTAL	35	29	30	0	0	0
COMPLETION GOAL 95%				100.0%	100.0%	100.0%

OVERALL COMPLETENESS
100.0%

MATRIX KEY

QC = QC SAMPLES (RINSEATE BLANKS, TRIP BLANKS, FIELD BLANKS & FIELD DUPLICATES)
SOIL = SOIL & SEDIMENT SAMPLES
H20 = GROUNDWATER & SURFACE WATER SAMPLE

* 33 TARGET COMPOUNDS PER SAMPLE

TABLE C - 2
GC/MS SEMIVOLATILES - REJECTED DATA
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	# SAMPLES/MATRIX			# OF COMPOUNDS REJECTED PER MATRIX		
	QC	SOIL	H20	QC	SOIL	H20
D1D1	4	6	6	0	0	0
1001	1	3	4	0	0	0
2009	0	8	5	0	0	0
DI102	6	0	5	0	0	0
EE01	2	8	0	0	2	0
GULFW6	7	0	10	0	0	0
GULFS7	1	4	0	0	0	0
GRAND TOTAL	21	29	30	0	2	0
COMPLETION GOAL 95%				100.0%	99.9%	100.0%

OVERALL COMPLETENESS
99.96%

MATRIX KEY

QC = QC SAMPLES (RINSEATE BLANKS, TRIP BLANKS, FIELD BLANKS & FIELD DUPLICATES)
SOIL = SOIL & SEDIMENT SAMPLES
H20 = GROUNDWATER & SURFACE WATER SAMPLE

* 64 TARGET COMPOUNDS PER SAMPLE

TABLE C - 3
PESTICIDES/AROCLORS - REJECTED DATA
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	# SAMPLES/MATRIX			# OF COMPOUNDS REJECTED PER MATRIX		
	QC	SOIL	H20	QC	SOIL	H20
D1D1	4	6	6	0	0	0
1001	1	3	4	0	0	0
2009	0	8	5	0	0	0
DI102	6	0	5	0	0	27
EE01	2	8	0	0	0	0
GULFW6	7	0	10	0	0	0
GULFS7	1	4	0	0	0	0
GRAND TOTAL	21	29	30	0	0	27
COMPLETION GOAL 95%				100.0%	100.0%	96.8%

OVERALL COMPLETENESS
98.9%

MATRIX KEY

QC = QC SAMPLES (RINSEATE BLANKS, TRIP BLANKS, FIELD BLANKS & FIELD DUPLICATES)
SOIL = SOIL & SEDIMENT SAMPLES
H20 = GROUNDWATER & SURFACE WATER SAMPLE

* 28 TARGET COMPOUNDS PER SAMPLE

TABLE C - 4
CHLORINATED HERBICIDES - REJECTED DATA
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	# SAMPLES/MATRIX			# OF COMPOUNDS REJECTED PER MATRIX		
	QC	SOIL	H20	QC	SOIL	H20
D1D1	4	6	6	0	0	0
1001	1	3	4	0	0	0
2009	0	8	5	0	0	0
DI102	6	0	5	0	0	0
EE01	2	8	0	0	0	0
GULFW6	7	0	10	0	0	0
GULFS7	1	4	0	0	0	0
GRAND TOTAL	21	29	30	0	0	0
COMPLETION GOAL 95%				100.0%	100.0%	100.0%

OVERALL COMPLETENESS
100.0%

MATRIX KEY

QC = QC SAMPLES (RINSEATE BLANKS, TRIP BLANKS, FIELD BLANKS & FIELD DUPLICATES)
SOIL = SOIL & SEDIMENT SAMPLES
H20 = GROUNDWATER & SURFACE WATER SAMPLE

* 3 TARGET COMPOUNDS PER SAMPLE

TABLE C - 5
DIOXIN/FURANS - REJECTED DATA (ORIGINAL ANALYSIS)
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	# SAMPLES/MATRIX			# OF COMPOUNDS REJECTED PER MATRIX		
	QC	SOIL	H20	QC	SOIL	H20
41776 A, AR1, B	5	2	1	0	0	0
41864	0	0	5	0	0	22
41565 AR1, B, C	1	11	1	8	146	0
42263	2	13	1	0	0	0
41300 A, B, C, D	4	18	4	33	246	25
41348 A, B, C	0	19	3	0	126	0
41606	1	2	0	0	11	0
41291 A, AR1, B	2	8	2	10	59	34
41363 AR1, B, C, D	4	13	3	6	103	5
41844 A, AR2, B	3	9	3	0	0	0
41530 A, B, C, D	3	17	1	33	185	28
41813 A, B	0	11	1	0	141	4
41574 A, B, C	2	7	1	11	67	1
41516 A, B, C, D	5	14	0	45	196	0
42239	5	8	2	0	0	0
41327 A, B, C	1	19	2	10	197	15
41584 A&B	1	2	2	11	18	11
GRAND TOTAL	39	173	32	167	1495	145
COMPLETION GOAL 95%				74.8%	49.2%	73.3%

OVERALL COMPLETENESS
65.8%

MATRIX KEY

QC = QC SAMPLES (RINSEATE BLANKS, TRIP BLANKS, FIELD BLANKS & FIELD DUPLICATES)
SOIL = SOIL & SEDIMENT SAMPLES
H20 = GROUNDWATER & SURFACE WATER SAMPLE

* 17 TARGET COMPOUNDS PER SAMPLE

TABLE C - 5A

DIOXIN/FURANS - REJECTED DATA (RE ANALYSIS)

NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	# SAMPLES/MATRIX			# OF COMPOUNDS REJECTED PER MATRIX		
	QC	SOIL	H20	QC	SOIL	H20
41864 RE	0	0	3	0	0	0
41565 AR1, B, C RE	1	11	1	0	0	0
41300 A, B, C, D RE	4	18	2	0	0	0
41348 A, B, C RE	0	11	0	0	0	0
41606 RE	1	2	0	0	0	0
41291 A, AR1, B RE	2	8	2	0	0	0
41363 AR1, B, C, D RE	0	0	1	0	0	0
41530 A, B, C, D RE	2	17	0	0	0	0
41813 A, B RE	0	11	1	0	0	0
41574 A, B, C RE	2	7	1	0	0	0
41516 A, B, C, D RE	5	14	0	5	0	0
41327 A, B, C RE	1	14	2	0	0	0
41584 A&B RE	1	0	2	0	0	0
GRAND TOTAL	19	113	15	5	0	0
COMPLETION GOAL 95%				98.5%	100.0%	100.0%

OVERALL COMPLETENESS
99.5%

MATRIX KEY

QC = QC SAMPLES (RINSEATE BLANKS, TRIP BLANKS, FIELD BLANKS & FIELD DUPLICATES)
SOIL = SOIL & SEDIMENT SAMPLES
H20 = GROUNDWATER & SURFACE WATER SAMPLE

* 17 TARGET COMPOUNDS PER SAMPLE

TABLE C - 5B
DIOXIN/FURANS - REJECTED DATA (OVERALL SUMMARY)
NCBC GULFPORT ONSITE AND OFFSITE DELINEATION

SDG	# SAMPLES/MATRIX			# OF COMPOUNDS REJECTED PER MATRIX		
	QC	SOIL	H20	QC	SOIL	H20
41776 A, AR1, B	5	2	1	0	0	0
41864	0	0	5	0	0	12
41565 AR1, B, C	1	11	1	0	0	0
42263	2	13	1	0	0	0
41300 A, B, C, D	4	18	4	0	0	12
41348 A, B, C	0	19	3	0	15	0
41606	1	2	0	0	0	0
41291 A, AR1, B	2	8	2	0	0	0
41363 AR1, B, C, D	4	13	3	6	98	1
41844 A, AR2, B	3	9	3	0	0	0
41530 A, B, C, D	3	17	1	11	0	17
41813 A, B	0	11	1	0	0	0
41574 A, B, C	2	7	1	0	0	0
41516 A, B, C, D	5	14	0	0	0	0
42239	5	8	2	0	0	0
41327 A, B, C	1	19	2	0	46	0
41584 A&B	1	2	2	0	18	0
GRAND TOTAL	39	173	32	17	177	42
COMPLETION GOAL 95%				97.4%	94.0%	92.3%

OVERALL COMPLETENESS
94.6%

MATRIX KEY

QC = QC SAMPLES (RINSEATE BLANKS, TRIP BLANKS, FIELD BLANKS & FIELD DUPLICATES)
SOIL = SOIL & SEDIMENT SAMPLES
H20 = GROUNDWATER & SURFACE WATER SAMPLE

* 17 TARGET COMPOUNDS PER SAMPLE

APPENDIX D

RPD COMPARABILITY SPREADSHEETS

alysis	1	2	%RPD
SAMP_ID	BC005D1P1	BC005D1P1	
TESTED	06/05/1997	06/19/1997	
TEST_TIME	09:01	15:50	
LSAMP_ID	T973925	T974268	
UNITS	ppt	ppt	
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	3.6	ND	
1,2,3,7,8,9-HxCDD	6.3	ND	
1,2,3,4,6,7,8-HpCDD	86	86	0.0%
1,2,3,4,6,7,8,9-OCDD	1960	1880	4.2%
2,3,7,8-TCDF	1.2	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	1.9	ND	
1,2,3,6,7,8-HxCDF	0.73	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	8.8	15.8	-56.9%
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	20.3	ND	
Total TCDD	ND	ND	
Total PeCDD	2.2	ND	
otal HxCDD	46.1	ND	
otal HpCDD	160	182	-12.9%
Total TCDF	1.2	ND	
Total PeCDF	6.7	ND	
Total HxCDF	10.9	ND	
Total HpCDF	22.1	15.8	33.2%

Comaprison of Duplicate Samples

SDG	41776	41776	
SAMP_ID	TC006D1D1	TC006D1D1	
LSAMP_ID	T973868	T974298	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	06/03/97	06/20/97	
TEST_TIME	13:00	16:00	
Units		ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	1	ND	
1,2,3,7,8,9-HxCDD	3.8	5.3	33.0%
1,2,3,4,6,7,8-HpCDD	37.5	42.2	11.8%
1,2,3,4,6,7,8,9-OCDD	561	546	2.7%
2,3,7,8-TCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2.3,6,7,8-HxCDF	ND	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	1.3	3.3	87.0%
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	3.9	ND	
Total TCDD	15.2	15.6	2.6%
Total PeCDD	19.1	12.6	41.0%
Total HxCDD	85.3	86.1	0.9%
Total HpCDD	111	126	12.7%
Total TCDF	ND	ND	
Total PeCDF	ND	ND	
Total HxCDF	1.4	ND	
Total HpCDF	3.4	3.3	3.0%

SDG	41813			41813			41813		
SAMP_ID	BB005D1P1	BB005D1P1		WL002D1P1	WL002D1P1		WL004D1P1	WL004D1P1	
LSAMP_ID	T974348	T973903/T973920		T974333	T973891		T974335	T973893	
SAMP_TYPE	SEDIMENT			SEDIMENT			SEDIMENT		
TESTED	06/23/97	06/04/97		06/22/97	06/04/97		06/22/97	06/04/97	
TEST_TIME	09:57	17:12		22:39	07:01		23:56	08:18	
			%RPD			%RPD			
2,3,7,8-TCDD	ND	0.62		66.8	67.9	1.6%	133	135	1.5%
1,2,3,7,8-PeCDD	ND	3.3		3.7	4.2	12.7%	5.2	5.8	10.[illegible]%
1,2,3,4,7,8-HxCDD	ND	9.7		9	8.6	4.5%	11.8	11.6	1.7%
1,2,3,6,7,8-HxCDD	36.2	47.7	27.4%	25.8	27.1	4.9%	31.9	31.5	1.3%
1,2,3,7,8,9-HxCDD	22.4	28.7	24.7%	24.6	24.4	0.8%	28.7	29.4	2.4%
1,2,3,4,6,7,8-HpCDD	1530	1510	1.3%	772	746	3.4%	883	849	3.9%
1,2,3,4,6,7,8,9-OCDD	18990	18850	0.7%	7210	6650	8.1%	7610	7000	8.4%
2,3,7,8-TCDF	ND	2.9		ND	26.6		ND	50.8	
1,2,3,7,8-PeCDF	ND	2.9		2.3	2.9	23.1%	5.2	2.8	60.0%
2,3,4,7,8-PeCDF	ND	3.9		1.9	1.7	11.1%	2.2	2.5	12.8%
1,2,3,4,7,8-HxCDF	34.5	33.4	3.2%	10.4	10.7	2.8%	13.3	12.4	7.0%
1,2,3,6,7,8-HxCDF	18.7	14.7	24.0%	10.6	11.4	7.3%	14.5	14.5	0.0%
2,3,4,6,7,8-HxCDF	21.1	26.3	21.9%	11.2	11.9	6.1%	15.2	14.6	4.0%
1,2,3,7,8,9-HxCDF	ND	1.4		ND	ND		1.1	0.54	68.3%
1,2,3,4,6,7,8-HpCDF	442	568	25.0%	137	133	3.0%	162	157	3.1%
1,2,3,4,7,8,9-HpCDF	17.9	38.9	73.9%	11.6	11.1	4.4%	11.9	12.7	6.5%
1,2,3,4,6,7,8,9-OCDF	2160	1550	32.9%	538	451	17.6%	623	524	17.3%
Total TCDD	22.2	38.1	52.7%	69.1	76.9	10.7%	150	154	2.6%
Total PeCDD	47.1	48.7	3.3%	21.5	27.2	23.4%	39.9	37.7	5.7%
Total HxCDD	178	389	74.4%	207	216	4.3%	258	254	1.6%
Total HpCDD	3430	3260	5.1%	1600	1500	6.5%	1880	1690	10.6%
Total TCDF	ND	19.6		56	64.3	13.8%	120	123	2.5%
Total PeCDF	73.9	81.4	9.7%	74.4	82.2	10.0%	125	127	1.6%
Total HxCDF	546	596	8.8%	208	220	5.6%	270	232	15.1%
Total HpCDF	1690	2120	22.6%	447	436	2.5%	514	503	2.2%

BATCH_ID	41813A	41813A RE	
SAMP_ID	WL001D1P1	WL001D1P1	
UNITS	ppt	ppt	%RPD
2,3,7,8-TCDD	12.1	11.7	3.4%
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	1.4	1.4	0.0%
1,2,3,6,7,8-HxCDD	4.3	3.6	17.7%
1,2,3,7,8,9-HxCDD	3.6	4.1	13.0%
1,2,3,4,6,7,8-HpCDD	119	110	7.9%
1,2,3,4,6,7,8,9-OCDD	1080	1060	1.9%
2,3,7,8-TCDF	5.4	3.6	40.0%
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	2.1	2.2	4.7%
1,2,3,6,7,8-HxCDF	1.7	1.6	6.1%
2,3,4,6,7,8-HxCDF	2.3	2.5	8.3%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	28.9	32.1	10.5%
1,2,3,4,7,8,9-HpCDF	2.3	3.6	44.1%
1,2,3,4,6,7,8,9-OCDF	102	94	8.2%

BATCH_ID	41813A	41813A RE	
SAMP_ID	WL003D1P1	WL003D1P1	
UNITS	ppt	ppt	%RPD
2,3,7,8-TCDD	56.6	54.9	3.0%
1,2,3,7,8-PeCDD	2.6	2.2	16.7%
1,2,3,4,7,8-HxCDD	3.7	4	7.8%
1,2,3,6,7,8-HxCDD	10.7	10.7	0.0%
1,2,3,7,8,9-HxCDD	10	9.9	1.0%
1,2,3,4,6,7,8-HpCDD	275	284	3.2%
1,2,3,4,6,7,8,9-OCDD	2120	2240	5.5%
2,3,7,8-TCDF	27.3	26.2	4.1%
1,2,3,7,8-PeCDF	1.2	0.8	40.0%
2,3,4,7,8-PeCDF	0.88	1	12.8%
1,2,3,4,7,8-HxCDF	4.5	4.7	4.3%
1,2,3,6,7,8-HxCDF	4.2	4.5	6.9%
2,3,4,6,7,8-HxCDF	5.3	5.2	1.9%
1,2,3,7,8,9-HxCDF	ND	0.27	
1,2,3,4,6,7,8-HpCDF	59.6	58.7	1.5%
1,2,3,4,7,8,9-HpCDF	5.2	4.2	21.3%
1,2,3,4,6,7,8,9-OCDF	109	212	64.2%

BATCH_ID	41813A	41813A RE	
SAMP_ID	TC009D1P1	TC009D1P1	
UNITS	ppt	ppt	%RPD
2,3,7,8-TCDD	1.4	1	33.3%
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	0.95	0.78	19.7%
1,2,3,6,7,8-HxCDD	2.9	2.3	23.1%
1,2,3,7,8,9-HxCDD	7.7	7.6	1.3%
1,2,3,4,6,7,8-HpCDD	101	101	0.0%
1,2,3,4,6,7,8,9-OCDD	1530	1590	3.8%
2,3,7,8-TCDF	0.87	0.5	54.0%
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	2	2	0.0%
1,2,3,6,7,8-HxCDF	1	1.2	18.2%
2,3,4,6,7,8-HxCDF	1.8	1.5	18.2%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	13.6	13.5	0.7%
1,2,3,4,7,8,9-HpCDF	1.4	ND	
1,2,3,4,6,7,8,9-OCDF	33.5	36.4	8.3%

BATCH_ID	41813A	41813A RE	
SAMP_ID	TC010D1P1	TC010D1P1	
UNITS	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	1	1.2	18.2%
1,2,3,4,6,7,8-HpCDD	13.1	11.9	9.6%
1,2,3,4,6,7,8,9-OCDD	277	290	4.6%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	ND	0.45	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	0.66	0.42	44.4%
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	1.8	1.9	5.4%

BATCH_ID	41813A	41813A RE	
SAMP_ID	BB001D1P1	BB001D1P1	
UNITS	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	0.83	0.75	10.1%
1,2,3,6,7,8-HxCDD	3.3	2.6	23.7%
1,2,3,7,8,9-HxCDD	7.2	6.8	5.7%
1,2,3,4,6,7,8-HpCDD	102	98.7	3.3%
1,2,3,4,6,7,8,9-OCDD	1530	1570	2.6%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	1.1	1	9.5%
1,2,3,6,7,8-HxCDF	0.53	0.36	38.2%
2,3,4,6,7,8-HxCDF	0.98	0.91	7.4%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	10.7	10.6	0.9%
1,2,3,4,7,8,9-HpCDF	0.85	0.96	12.2%
1,2,3,4,6,7,8,9-OCDF	34.6	36.8	6.2%

BATCH_ID	41813A	41813A RE	
SAMP_ID	BB002D1P1	BB002D1P1	
UNITS	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	0.68	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	2.2	2.2	0.0%
1,2,3,6,7,8-HxCDD	5	5.4	7.7%
1,2,3,7,8,9-HxCDD	9.1	8.8	3.4%
1,2,3,4,6,7,8-HpCDD	273	290	6.0%
1,2,3,4,6,7,8,9-OCDD	2720	2880	5.7%
2,3,7,8-TCDF	ND	0.31	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	1.7	1.6	6.1%
1,2,3,6,7,8-HxCDF	0.64	0.72	11.8%
2,3,4,6,7,8-HxCDF	1.6	1.5	6.5%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	28.3	22.5	22.8%
1,2,3,4,7,8,9-HpCDF	2	1.9	5.1%
1,2,3,4,6,7,8,9-OCDF	79.5	97.2	20.0%

BATCH_ID	41813A	41813A RE	
SAMP_ID	BB003D1P1	BB003D1P1	
UNITS	ppt	ppt	%RPD
2,3,7,8-TCDD	1.1	1.3	16.7%
1,2,3,7,8-PeCDD	1.5	1.7	12.5%
1,2,3,4,7,8-HxCDD	5.3	5.6	5.5%
1,2,3,6,7,8-HxCDD	18.8	20.4	8.2%
1,2,3,7,8,9-HxCDD	23.8	22.9	3.9%
1,2,3,4,6,7,8-HpCDD	693	807	15.2%
1,2,3,4,6,7,8,9-OCDD	9890	10350	4.5%
2,3,7,8-TCDF	1.2	1.6	28.6%
1,2,3,7,8-PeCDF	0.91	ND	
2,3,4,7,8-PeCDF	1.3	ND	
1,2,3,4,7,8-HxCDF	9.5	11	14.6%
1,2,3,6,7,8-HxCDF	3.6	4.5	22.2%
2,3,4,6,7,8-HxCDF	7.4	7	5.6%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	143	126	12.6%
1,2,3,4,7,8,9-HpCDF	11.7	12.9	9.8%
1,2,3,4,6,7,8,9-OCDF	465	609	26.8%

BATCH_ID	41813A	41813A RE	
SAMP_ID	BB004D1P1	BB004D1P1	
UNITS	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	1.2	1.1	8.7%
1,2,3,6,7,8-HxCDD	6.5	6.9	6.0%
1,2,3,7,8,9-HxCDD	4.2	4.1	2.4%
1,2,3,4,6,7,8-HpCDD	210	225	6.9%
1,2,3,4,6,7,8,9-OCDD	2450	2610	6.3%
2,3,7,8-TCDF	0.67	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	5	5.1	2.0%
1,2,3,6,7,8-HxCDF	2	2.4	18.2%
2,3,4,6,7,8-HxCDF	3.5	3.4	2.9%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	82.5	70.5	15.7%
1,2,3,4,7,8,9-HpCDF	6	5.7	5.1%
1,2,3,4,6,7,8,9-OCDF	217	262	18.8%

BATCH_ID	41813B	41813B RE	
SAMP_ID	BB003W1P1	BB003W1P1	
UNITS	ppq	ppq	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	21.7	23.5	8.0%
1,2,3,4,6,7,8,9-OCDD	262	266	1.5%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	ND	5.5	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	6.1	10.5	53.0%
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	25	22.8	9.2%

BATCH_ID	41864	41864 RE	
SAMP_ID	GPT56G1P1	GPT56G1P1	
UNITS	ppq	ppq	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	56.4	110	64.4%
1,2,3,4,6,7,8-HpCDD	1180	1200	1.7%
1,2,3,4,6,7,8,9-OCDD	19120	19710	3.0%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	ND	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	ND	ND	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	ND	ND	

BATCH_ID	41864	41864 RE	
SAMP_ID	GPT47G1P1	GPT47G1P1	
UNITS	ppq	ppq	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	1.7	ND	
1,2,3,4,7,8-HxCDD	5	ND	
1,2,3,6,7,8-HxCDD	5.2	ND	
1,2,3,7,8,9-HxCDD	21.3	20.3	4.8%
1,2,3,4,6,7,8-HpCDD	125	135	7.7%
1,2,3,4,6,7,8,9-OCDD	1680	1680	0.0%
2,3,7,8-TCDF	2.9	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	2.2	ND	
1,2,3,6,7,8-HxCDF	1.3	ND	
2,3,4,6,7,8-HxCDF	5	ND	
1,2,3,7,8,9-HxCDF	2.4	ND	
1,2,3,4,6,7,8-HpCDF	8.1	11.2	32.1%
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	21.2	ND	

BATCH_ID	41864	41864 RE	
SAMP_ID	GPT46G1P1	GPT46G1P1	
UNITS	ppq	ppq	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	3.5	ND	
1,2,3,4,7,8-HxCDD	6.4	ND	
1,2,3,6,7,8-HxCDD	19.3	17.4	10.4%
1,2,3,7,8,9-HxCDD	70	75.2	7.2%
1,2,3,4,6,7,8-HpCDD	679	653	3.9%
1,2,3,4,6,7,8,9-OCDD	11080	10090	9.4%
2,3,7,8-TCDF	9.5	ND	
1,2,3,7,8-PeCDF	2.7	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	8.2	ND	
1,2,3,6,7,8-HxCDF	2.4	ND	
2,3,4,6,7,8-HxCDF	7	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	47.1	42.1	11.2%
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	101	98.7	2.3%

BATCH_ID	41516A	41516A RE	
SAMP_ID	D1015D1D1	D1015D1D1	
UNITS	ppt	ppt	%RPD
2,3,7,8-TCDD	84.3	80.3	4.9%
1,2,3,7,8-PeCDD	3.4	3.2	6.1%
1,2,3,4,7,8-HxCDD	6.1	4.7	25.9%
1,2,3,6,7,8-HxCDD	13.3	14.1	5.8%
1,2,3,7,8,9-HxCDD	14.6	14.2	2.8%
1,2,3,4,6,7,8-HpCDD	329	369	11.5%
1,2,3,4,6,7,8,9-OCDD	2470	2700	8.9%
2,3,7,8-TCDF	11.2	13	14.9%
1,2,3,7,8-PeCDF	1	ND	
2,3,4,7,8-PeCDF	1	ND	
1,2,3,4,7,8-HxCDF	5.9	5.7	3.4%
1,2,3,6,7,8-HxCDF	4	4	0.0%
2,3,4,6,7,8-HxCDF	4.6	4.3	6.7%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	80.5	64.3	22.4%
1,2,3,4,7,8,9-HpCDF	4.8	4.9	2.1%
1,2,3,4,6,7,8,9-OCDF	119	141	16.9%

BATCH_ID	41516A	41516A RE	
SAMP_ID	D1016D1P1	D1016D1P1	
UNITS	ppt	ppt	%RPD
2,3,7,8-TCDD	1.4	ND	
1,2,3,7,8-PeCDD	1.1	ND	
1,2,3,4,7,8-HxCDD	3.5	3	15.4%
1,2,3,6,7,8-HxCDD	5	6.3	23.0%
1,2,3,7,8,9-HxCDD	7.4	6.6	11.4%
1,2,3,4,6,7,8-HpCDD	136	148	8.5%
1,2,3,4,6,7,8,9-OCDD	1280	1410	9.7%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	2.2	2	9.5%
1,2,3,6,7,8-HxCDF	1.4	1.8	25.0%
2,3,4,6,7,8-HxCDF	2.1	3.3	44.4%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	26.4	21.3	21.4%
1,2,3,4,7,8,9-HpCDF	1.3	ND	
1,2,3,4,6,7,8,9-OCDF	34.5	48.1	32.9%

BATCH_ID	41516A	41516A RE	
SAMP_ID	D1015D1P1	D1015D1P1	
UNITS	ppt	ppt	%RPD
2,3,7,8-TCDD	95.9	95.6	0.3%
1,2,3,7,8-PeCDD	4.4	3.9	12.0%
1,2,3,4,7,8-HxCDD	7.6	6.3	18.7%
1,2,3,6,7,8-HxCDD	15.5	16.8	8.0%
1,2,3,7,8,9-HxCDD	18	16.7	7.5%
1,2,3,4,6,7,8-HpCDD	377	424	11.7%
1,2,3,4,6,7,8,9-OCDD	3250	3240	0.3%
2,3,7,8-TCDF	14.9	15.6	4.6%
1,2,3,7,8-PeCDF	0.94	ND	
2,3,4,7,8-PeCDF	1.3	ND	
1,2,3,4,7,8-HxCDF	5.2	7.5	36.2%
1,2,3,6,7,8-HxCDF	3	4.9	48.1%
2,3,4,6,7,8-HxCDF	3.1	5.6	57.5%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	59.6	78.9	27.9%
1,2,3,4,7,8,9-HpCDF	4.1	6.7	48.1%
1,2,3,4,6,7,8,9-OCDF	156	170	8.6%

BATCH_ID	41516A	41516A RE	
SAMP_ID	D3007D1P1	D3007D1P1	
UNITS	ppt	ppt	%RPD
2,3,7,8-TCDD	1.5	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	2.2	ND	
1,2,3,7,8,9-HxCDD	2.2	ND	
1,2,3,4,6,7,8-HpCDD	58.9	68	14.3%
1,2,3,4,6,7,8,9-OCDD	537	623	14.8%
2,3,7,8-TCDF	1.2	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	1.4	ND	
1,2,3,6,7,8-HxCDF	0.9	ND	
2,3,4,6,7,8-HxCDF	1.1	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	13.4	12.7	5.4%
1,2,3,4,7,8,9-HpCDF	1.2	ND	
1,2,3,4,6,7,8,9-OCDF	26	41.7	46.4%

BATCH_ID	41516A	41516A RE	
SAMP_ID	D3007D1D1	D3007D1D1	
UNITS	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	3.1	2.6	17.5%
1,2,3,4,7,8-HxCDD	5.4	4.5	18.2%
1,2,3,6,7,8-HxCDD	8.3	8.5	2.4%
1,2,3,7,8,9-HxCDD	10.3	9.4	9.1%
1,2,3,4,6,7,8-HpCDD	129	146	12.4%
1,2,3,4,6,7,8,9-OCDD	960	1040	8.0%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	0.75	ND	
1,2,3,4,7,8-HxCDF	2.7	2.9	7.1%
1,2,3,6,7,8-HxCDF	1.4	1.9	30.3%
2,3,4,6,7,8-HxCDF	1.5	3.4	77.6%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	31.9	27	16.6%
1,2,3,4,7,8,9-HpCDF	2.3	1.8	24.4%
1,2,3,4,6,7,8,9-OCDF	59.4	65.7	10.1%

BATCH_ID	41516A	41516A RE	
SAMP_ID	EE13DD1P1	EE13DD1P1	
UNITS	ppt	ppt	%RPD
2,3,7,8-TCDD	5	5.1	2.0%
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	1.5	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	36.8	41.6	12.2%
1,2,3,4,6,7,8,9-OCDD	357	379	6.0%
2,3,7,8-TCDF	0.84	3	112.5%
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	ND	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	9.4	8.3	12.4%
1,2,3,4,7,8,9-HpCDF	ND	ND	
2,3,4,6,7,8,9-OCDF	60.3	69.3	13.9%

BATCH_ID	41516C	41516C RE	
SAMP_ID	L8019S1P1	L8019S1P1	
UNITS	ppt	ppt	%RPD
2,3,7,8-TCDD	0.86	0.74	15.0%
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	2	1.8	10.5%
1,2,3,7,8,9-HxCDD	2.5	2.2	12.8%
1,2,3,4,6,7,8-HpCDD	52.7	50.9	3.5%
1,2,3,4,6,7,8,9-OCDD	576	595	3.2%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	1.1	1.4	24.0%
1,2,3,6,7,8-HxCDF	0.54	0.46	16.0%
2,3,4,6,7,8-HxCDF	0.85	1.4	48.9%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	22.1	23.7	7.0%
1,2,3,4,7,8,9-HpCDF	ND	0.99	
1,2,3,4,6,7,8,9-OCDF	41.7	37.7	10.1%

BATCH_ID	41516C	41516C RE	
SAMP_ID	L8028S1P1	L8028S1P1	
UNITS	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	17	16.9	0.6%
1,2,3,4,6,7,8,9-OCDD	197	201	2.0%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	0.99	ND	
1,2,3,6,7,8-HxCDF	0.61	ND	
2,3,4,6,7,8-HxCDF	1.2	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	4.4	4.4	0.0%
1,2,3,4,7,8,9-HpCDF	ND	ND	
2,3,4,6,7,8,9-OCDF	6.8	6.7	1.5%

BATCH_ID	41516C	41516C RE	
SAMP_ID	L8031S1P1	L8031S1P1	
UNITS	ppt	ppt	%RPD
2,3,7,8-TCDD	3.5	3.6	2.8%
1,2,3,7,8-PeCDD	5.8	5.1	12.8%
1,2,3,4,7,8-HxCDD	14.1	14.1	0.0%
1,2,3,6,7,8-HxCDD	26.5	28.2	6.2%
1,2,3,7,8,9-HxCDD	32.4	31.8	1.9%
1,2,3,4,6,7,8-HpCDD	857	977	13.1%
1,2,3,4,6,7,8,9-OCDD	8300	7710	7.4%
2,3,7,8-TCDF	1.4	2	35.3%
1,2,3,7,8-PeCDF	2.6	1.6	47.6%
2,3,4,7,8-PeCDF	2.1	2.2	4.7%
1,2,3,4,7,8-HxCDF	29.4	27.8	5.6%
1,2,3,6,7,8-HxCDF	11.5	11.9	3.4%
2,3,4,6,7,8-HxCDF	14.6	15.3	4.7%
1,2,3,7,8,9-HxCDF	0.58	ND	
1,2,3,4,6,7,8-HpCDF	210	214	1.9%
1,2,3,4,7,8,9-HpCDF	13	13.9	6.7%
1,2,3,4,6,7,8,9-OCDF	384	400	4.1%

BATCH_ID	41516C	41516C RE	
SAMP_ID	L8031S1D1	L8031S1D1	
UNITS	ppt	ppt	%RPD
2,3,7,8-TCDD	3.3	4.2	24.0%
1,2,3,7,8-PeCDD	6.8	6.6	3.0%
1,2,3,4,7,8-HxCDD	15.6	16	2.5%
1,2,3,6,7,8-HxCDD	28.7	31.7	9.9%
1,2,3,7,8,9-HxCDD	36.2	36.2	0.0%
1,2,3,4,6,7,8-HpCDD	981	1070	8.7%
1,2,3,4,6,7,8,9-OCDD	8270	7830	5.5%
2,3,7,8-TCDF	2.1	2.2	4.7%
1,2,3,7,8-PeCDF	2.1	1.9	10.0%
2,3,4,7,8-PeCDF	2.5	2.6	3.9%
1,2,3,4,7,8-HxCDF	16.6	17.5	5.3%
1,2,3,6,7,8-HxCDF	12.7	13.2	3.9%
2,3,4,6,7,8-HxCDF	14.5	17.3	17.6%
1,2,3,7,8,9-HxCDF	ND	0.38	
1,2,3,4,6,7,8-HpCDF	242	242	0.0%
1,2,3,4,7,8,9-HpCDF	15.1	15.3	1.3%
1,2,3,4,6,7,8,9-OCDF	455	471	3.5%

BATCH_ID	41516D	41516D RE	
SAMP_ID	QADI102	QADI102	
UNITS	ppq	ppq	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	ND	ND	
1,2,3,4,6,7,8,9-OCDD	ND	ND	
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	ND	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	ND	ND	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	ND	ND	

BATCH_ID	41516D	41516D RE	
SAMP_ID	QARI103	QARI103	
UNITS	ppq	ppq	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	ND	ND	
1,2,3,4,6,7,8,9-OCDD	ND	ND	
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	ND	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	ND	ND	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	ND	ND	

	(165-69-12)	(165-69-12)	
BATCH_ID	41516B	41516B	
SAMP_ID	EE04DD1P1	EE04DD1P1	
LSAMP_ID	W971492	T974560	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	05/06/97	07/03/97	
TEST_TIME	23:40	22:34	
Data Set	1	2	
Units	ppt	ppt	% RPD
2,3,7,8-TCDD	2.7	2.3	16.0%
1,2,3,7,8-PeCDD	1.2	ND	
1,2,3,4,7,8-HxCDD	2.1	2.6	21.3%
1,2,3,6,7,8-HxCDD	7.6	9.1	18.0%
1,2,3,7,8,9-HxCDD	7.9	7.8	1.3%
1,2,3,4,6,7,8-HpCDD	172	212	20.8%
1,2,3,4,6,7,8,9-OCDD	1590	1740	9.0%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	0.62	ND	
2,3,4,7,8-PeCDF	0.82	ND	
1,2,3,4,7,8-HxCDF	1.9	3.1	48.0%
1,2,3,6,7,8-HxCDF	0.73	1.4	62.9%
2,3,4,6,7,8-HxCDF	0.88	2.6	98.9%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	17	24.2	35.0%
1,2,3,4,7,8,9-HpCDF	1.1	ND	
1,2,3,4,6,7,8,9-OCDF	68.3	78	13.3%
Total TCDD	9.9	8.8	11.8%
Total PeCDD	18.2	8.4	73.7%
Total HxCDD	129	107	18.6%
Total HpCDD	413	478	14.6%
Total TCDF	ND	ND	
Total PeCDF	17.1	7.9	73.6%
Total HxCDF	13.2	39.1	99.0%
Total HpCDF	17	85.9	133.9%

BATCH_ID	41516B	41516B		41516B	41516B	
SAMP_ID	C1003D1P1	C1003D1P1		C1003D1P1	C1003D1P1	
LSAMP_ID	W971497	T974583		P972245	X971998	
SAMP_TYPE	SEDIMENT	SEDIMENT		SEDIMENT	SEDIMENT	
TESTED	05/07/97	07/05/97		05/08/97	07/08/97	
TEST_TIME	04:06	2:16		07:54	19:52	
Data Set	1	2		1	2	
Units	ppt	ppt	% RPD	ppt	ppt	% RPD
2,3,7,8-TCDD	4.1	5.5	29.2%			
1,2,3,7,8-PeCDD	1.3	ND				
1,2,3,4,7,8-HxCDD	3.4	3	12.5%			
1,2,3,6,7,8-HxCDD	7.1	7.4	4.1%			
1,2,3,7,8,9-HxCDD	8	6.8	16.2%			
1,2,3,4,6,7,8-HpCDD	195	208	6.5%			
1,2,3,4,6,7,8,9-OCDD	1760	1860	5.5%			
2,3,7,8-TCDF	1.8	2.2	20.0%	1.5	1.4	6.9%
1,2,3,7,8-PeCDF	ND	ND				
2,3,4,7,8-PeCDF	0.69	ND				
1,2,3,4,7,8-HxCDF	4.2	4.3	2.4%			
1,2,3,6,7,8-HxCDF	2.4	2.3	4.3%			
2,3,4,6,7,8-HxCDF	1.7	3.2	61.2%			
1,2,3,7,8,9-HxCDF	ND	ND				
1,2,3,4,6,7,8-HpCDF	32.8	32.2	1.8%			
1,2,3,4,7,8,9-HpCDF	2.4	2.8	15.4%			
1,2,3,4,6,7,8,9-OCDF	79.2	83.2	4.9%			
Total TCDD	1.2	5.5	128.4%			
Total PeCDD	0.83	1.4	51.1%			
Total HxCDD	69.7	58.1	18.2%			
Total HpCDD	521	474	9.4%			
Total TCDF	5.3	11	69.9%			
Total PeCDF	18.9	12.4	41.5%			
Total HxCDF	50.2	46	8.7%			
Total HpCDF	113	93.3	19.1%			

BATCH_ID	41516B	41516B		41516B	41516B	
SAMP_ID	EE04UD1P1	EE04UD1P1		EE04UD1P1	EE04UD1P1	
LSAMP_ID	W971496	T974582		P972244	X971997	
SAMP_TYPE	SEDIMENT	SEDIMENT		SEDIMENT	SEDIMENT	
TESTED	05/07/97	07/05/97		05/08/97	07/08/97	
TEST_TIME	03:13	1:37		07:07	19:10	
Data Set	1	2		1	2	
Units	ppt	ppt	% RPD	ppt	ppt	% RPD
2,3,7,8-TCDD	39.8	45.2	12.7%			
1,2,3,7,8-PeCDD	3.8	ND				
1,2,3,4,7,8-HxCDD	10.8	7.8	32.3%			
1,2,3,6,7,8-HxCDD	26	19.1	30.6%			
1,2,3,7,8,9-HxCDD	24.5	23.4	4.6%			
1,2,3,4,6,7,8-HpCDD	725	805	10.5%			
1,2,3,4,6,7,8,9-OCDD	6810	7200	5.6%			
2,3,7,8-TCDF	ND	12		11.8	10.9	7.9%
1,2,3,7,8-PeCDF	ND	ND				
2,3,4,7,8-PeCDF	ND	ND				
1,2,3,4,7,8-HxCDF	ND	12.7				
1,2,3,6,7,8-HxCDF	ND	9.4				
2,3,4,6,7,8-HxCDF	ND	ND				
1,2,3,7,8,9-HxCDF	ND	ND				
1,2,3,4,6,7,8-HpCDF	ND	186				
1,2,3,4,7,8,9-HpCDF	ND	14.9				
1,2,3,4,6,7,8,9-OCDF	ND	567				
Total TCDD	ND	45.2				
Total PeCDD	ND	9.2				
Total HxCDD	ND	172				
Total HpCDD	ND	1680				
Total TCDF	ND	12				
Total PeCDF	ND	58.8				
Total HxCDF	ND	94.1				
Total HpCDF	653	737	12.1%			

	(165-69-15)	(165-69-15)		(165-69-15)	(165-69-15)	
BATCH_ID	41516B	41516B		41516B	41516B	
SAMP_ID	EE04DD1P1	EE04DD1P1		EE04DD1P1	EE04DD1P1	
LSAMP_ID	W971498	T974584		P972246	X971999	
SAMP_TYPE	SEDIMENT	SEDIMENT		SEDIMENT	SEDIMENT	
TESTED	05/07/97	07/05/97		05/08/97	07/08/97	
TEST_TIME	04:54	2:54		08:41	20:34	
Data Set	1	2		1	2	
Units	ppt	ppt	% RPD	ppt	ppt	% RPD
2,3,7,8-TCDD	69.2	82.9	18.0%			
1,2,3,7,8-PeCDD	4.3	4.3	0.0%			
1,2,3,4,7,8-HxCDD	8.9	9.2	3.3%			
1,2,3,6,7,8-HxCDD	22	24.9	12.4%			
1,2,3,7,8,9-HxCDD	19.1	21	9.5%			
1,2,3,4,6,7,8-HpCDD	710	801	12.0%			
1,2,3,4,6,7,8,9-OCDD	6390	6950	8.4%			
2,3,7,8-TCDF	22.2	26.1	16.1%	23	23.9	3.8%
1,2,3,7,8-PeCDF	1.8	1.9	5.4%			
2,3,4,7,8-PeCDF	1.8	2	10.5%			
1,2,3,4,7,8-HxCDF	11.2	12.6	11.8%			
1,2,3,6,7,8-HxCDF	9.8	10.9	10.6%			
2,3,4,6,7,8-HxCDF	4.6	12.6	93.0%			
1,2,3,7,8,9-HxCDF	0.67	1.1	48.6%			
1,2,3,4,6,7,8-HpCDF	177	178	0.6%			
1,2,3,4,7,8,9-HpCDF	9.6	15.4	46.4%			
1,2,3,4,6,7,8,9-OCDF	661	818	21.2%			
Total TCDD	77.3	99.4	25.0%			
Total PeCDD	28.7	24.5	15.8%			
Total HxCDD	206	197	4.5%			
Total HpCDD	1450	1550	6.7%			
Total TCDF	57.2	70.8	21.2%			
Total PeCDF	90.8	69.8	26.2%			
Total HxCDF	214	187	13.5%			
Total HpCDF	742	783	5.4%			

BATCH_ID	41516B	41516B		41516B	41516B
SAMP_ID	EE07UD1P1	EE07UD1P1		EE07UD1P1	EE07UD1P1
LSAMP_ID	W971491	T974559		P972243	X971996
SAMP_TYPE	SEDIMENT	SEDIMENT		SEDIMENT	SEDIMENT
TESTED	05/06/97	07/03/97		05/08/97	07/08/97
TEST_TIME	22:55	21:48		06:21	18:17
Data Set	1	2		1	2
Units	ppt	ppt	% RPD	ppt	ppt
2,3,7,8-TCDD	18.9	18.4	2.7%		
1,2,3,7,8-PeCDD	4.1	4	2.5%		
1,2,3,4,7,8-HxCDD	10.1	6.9	37.6%		
1,2,3,6,7,8-HxCDD	21.1	22.8	7.7%		
1,2,3,7,8,9-HxCDD	20.4	19.5	4.5%		
1,2,3,4,6,7,8-HpCDD	619	671	8.1%		
1,2,3,4,6,7,8,9-OCDD	6560	7540	13.9%		
2,3,7,8-TCDF	12.8	13.8	7.5%	12.4	12.9
1,2,3,7,8-PeCDF	1.8	2.5	32.6%		
2,3,4,7,8-PeCDF	1.8	1.9	5.4%		
1,2,3,4,7,8-HxCDF	11.9	11.6	2.6%		
1,2,3,6,7,8-HxCDF	11.3	11.4	0.9%		
2,3,4,6,7,8-HxCDF	5.7	11.6	68.2%		
1,2,3,7,8,9-HxCDF	ND	ND			
1,2,3,4,6,7,8-HpCDF	134	120	11.0%		
1,2,3,4,7,8,9-HpCDF	9.6	10	4.1%		
1,2,3,4,6,7,8,9-OCDF	283	310	9.1%		
Total TCDD	20.1	20	0.5%		
Total PeCDD	11.6	13.3	13.7%		
Total HxCDD	193	168	13.9%		
Total HpCDD	1350	1420	5.1%		
Total TCDF	24.7	29.2	16.7%		
Total PeCDF	68.2	54.9	21.6%		
Total HxCDF	229	206	10.6%		
Total HpCDF	368	130	95.6%		

BATCH_ID	41516B	41516B	
SAMP_ID	EE07DD1P1	EE07DD1P1	
LSAMP_ID	W971490	T974558	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	05/06/97	07/03/97	
TEST_TIME	22:08	21:09	
Data Set	1	2	
Units	ppt	ppt	% RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	2.9	ND	
1,2,3,4,7,8-HxCDD	5.6	3.9	35.8%
1,2,3,6,7,8-HxCDD	9	8.3	8.1%
1,2,3,7,8,9-HxCDD	11.5	10.1	13.0%
1,2,3,4,6,7,8-HpCDD	131	158	18.7%
1,2,3,4,6,7,8,9-OCDD	987	1130	13.5%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	0.54	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	2.8	2.5	11.3%
1,2,3,6,7,8-HxCDF	1.6	ND	
2,3,4,6,7,8-HxCDF	1.6	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	35.2	30	16.0%
1,2,3,4,7,8,9-HpCDF	1.9	ND	
1,2,3,4,6,7,8,9-OCDF	57.2	76.9	29.4%
Total TCDD	ND	ND	
Total PeCDD	2.6	ND	
Total HxCDD	70.6	44.1	46.2%
Total HpCDD	273	312	13.3%
Total TCDF	1.9	ND	
Total PeCDF	13.2	8.5	43.3%
Total HxCDF	42.1	7.6	138.8%
Total HpCDF	88.7	30	98.9%

BATCH_ID	41516B	41516B	
SAMP_ID	EE13UD1P1	EE13UD1P1	
LSAMP_ID	W971489	T974557	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	05/06/97	07/03/97	
TEST_TIME	21:22	20:30	
Data Set	1	2	
Units	ppt	ppt	% RPD
2,3,7,8-TCDD	6.3	4.3	37.7%
1,2,3,7,8-PeCDD	0.69	ND	
1,2,3,4,7,8-HxCDD	1.8	ND	
1,2,3,6,7,8-HxCDD	4.4	4.4	0.0%
1,2,3,7,8,9-HxCDD	4.6	4.3	6.7%
1,2,3,4,6,7,8-HpCDD	111	116	4.4%
1,2,3,4,6,7,8,9-OCDD	1030	1170	12.7%
2,3,7,8-TCDF	2	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	1.9	ND	
1,2,3,6,7,8-HxCDF	1.3	ND	
2,3,4,6,7,8-HxCDF	1.2	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	26.8	21.9	20.1%
1,2,3,4,7,8,9-HpCDF	2.1	ND	
1,2,3,4,6,7,8,9-OCDF	78.7	103	26.7%
Total TCDD	7	4.3	47.8%
Total PeCDD	2.9	ND	
Total HxCDD	40.4	4.3	161.5%
Total HpCDD	241	251	4.1%
Total TCDF	5.2	ND	
Total PeCDF	11.3	11	2.7%
Total HxCDF	36.9	12.9	96.4%
Total HpCDF	89.9	82.3	8.8%

BATCH_ID	41516B	41516B		41516B	41516B	
SAMP_ID	TLI LCS	TLI LCS		TLI LCSD	TLI LCSD	
LSAMP_ID	W971499	T974585		W971500	T974586	
SAMP_TYPE	SEDIMENT	SEDIMENT		SEDIMENT	SEDIMENT	
TESTED	05/07/97	07/05/97		05/07/97	07/05/97	
TEST_TIME	05:47	3:33		06:37	4:12	
Data Set	1	2		1	2	
Units	ppt	ppt	% RPD	ppt	ppt	% RPD
2,3,7,8-TCDD	30.9	39.3	23.9%	31.1	38.3	20.7%
1,2,3,7,8-PeCDD	175	176	0.6%	177	176	0.6%
1,2,3,4,7,8-HxCDD	179	185	3.3%	174	186	6.7%
1,2,3,6,7,8-HxCDD	171	194	12.6%	166	184	10.3%
1,2,3,7,8,9-HxCDD	173	199	14.0%	175	172	1.7%
1,2,3,4,6,7,8-HpCDD	177	200	12.2%	180	186	3.3%
1,2,3,4,6,7,8,9-OCDD	364	387	6.1%	365	373	2.2%
2,3,7,8-TCDF	36.3	39.9	9.4%	33.2	39.4	17.1%
1,2,3,7,8-PeCDF	188	187	0.5%	188	191	1.6%
2,3,4,7,8-PeCDF	172	164	4.8%	169	168	0.6%
1,2,3,4,7,8-HxCDF	179	198	10.1%	182	194	6.4%
1,2,3,6,7,8-HxCDF	173	185	6.7%	171	186	8.4%
2,3,4,6,7,8-HxCDF	196	214	8.8%	185	201	8.3%
1,2,3,7,8,9-HxCDF	186	249	29.0%	182	198	8.4%
1,2,3,4,6,7,8-HpCDF	186	184	1.1%	183	186	1.6%
1,2,3,4,7,8,9-HpCDF	186	211	12.6%	210	227	7.8%
1,2,3,4,6,7,8,9-OCDF	341	388	12.9%	367	375	2.2%
Total TCDD						
Total PeCDD						
Total HxCDD						
Total HpCDD						
Total TCDF						
Total PeCDF						
Total HxCDF						
Total HpCDF						

BATCH_ID	41516B	41516B	
SAMP_ID	TLI Sediment Blank	TLI Sediment Blank	
LSAMP_ID	W971488	T974556	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	05/06/97	07/03/97	
TEST_TIME	20:36	19:52	
Data Set	1	2	
Units	ppt	ppt	% RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	ND	ND	
1,2,3,4,6,7,8,9-OCDD	ND	ND	
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	ND	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	ND	ND	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	ND	ND	
Total TCDD	ND	ND	
Total PeCDD	ND	ND	
Total HxCDD	ND	ND	
Total HpCDD	ND	ND	
Total TCDF	ND	ND	
Total PeCDF	ND	ND	
Total HxCDF	ND	ND	
Total HpCDF	ND	ND	

BATCH_ID	41606A	41606A	
SAMP_ID	BC001D1P1	BC001D1P1	
LSAMP_ID	W971682	T974727	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	05/16/97	07/10/97	
TEST_TIME	1:04	15:13	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	1.6	
1,2,3,7,8,9-HxCDD	ND	1.6	
1,2,3,4,6,7,8-HpCDD	51.3	49.9	2.8%
1,2,3,4,6,7,8,9-OCDD	411	452	9.5%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	2.9	2.5	14.8%
1,2,3,6,7,8-HxCDF	ND	0.69	
2,3,4,6,7,8-HxCDF	ND	1.3	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	10.2	10.8	5.7%
1,2,3,4,7,8,9-HpCDF	ND	0.97	
1,2,3,4,6,7,8,9-OCDF	24.3	31	24.2%
Total TCDD	ND	ND	
Total PeCDD	ND	2.5	
Total HxCDD	9.3	10.8	14.9%
Total HpCDD	103	103	0.0%
Total TCDF	ND	1.4	
Total PeCDF	2.3	1.4	48.6%
Total HxCDF	15.7	10.1	43.4%
Total HpCDF	34.7	23.2	39.7%

BATCH_ID	41606A	41606A	
SAMP_ID	BC002D1P1	BC002D1P1	
LSAMP_ID	W971679	T974728	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	05/15/97	07/10/97	
TEST_TIME	22:44	15:53	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	1.4	1.6	13.3%
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	26.3	26.7	1.5%
1,2,3,4,6,7,8,9-OCDD	192	174	9.8%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	0.35	
1,2,3,4,7,8-HxCDF	ND	1.2	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	ND	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	3.9	4.7	18.6%
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	6.6	8.3	22.8%
Total TCDD	ND	ND	
Total PeCDD	ND	ND	
Total HxCDD	3.2	3.7	14.5%
Total HpCDD	46.6	45.9	1.5%
Total TCDF	ND	ND	
Total PeCDF	1.2	2.7	76.9%
Total HxCDF	6.2	7.5	19.0%
Total HpCDF	15	14.4	4.1%

BATCH_ID	41606B	41606B	
SAMP_ID	QARI105	QARI105	
LSAMP_ID	W971665	T974917	
SAMP_TYPE	WATER	WATER	
TESTED	05/15/97	07/17/97	
TEST_TIME	07:41	22:29	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	ND	ND	
1,2,3,4,6,7,8,9-OCDD	39.6	ND	
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	ND	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	ND	ND	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	ND	ND	
Total TCDD	ND	ND	
Total PeCDD	ND	ND	
Total HxCDD	ND	ND	
Total HpCDD	ND	ND	
Total TCDF	ND	ND	
Total PeCDF	ND	ND	
Total HxCDF	ND	ND	
Total HpCDF	ND	ND	

BATCH_ID	41606A		41606A	41606A	
SAMP_ID	TLI LCS		TLI LCSD	TLI LCSD	
LSAMP_ID	T974729		W971681	T974730	
SAMP_TYPE	SEDIMENT		SEDIMENT	SEDIMENT	
TESTED	07/10/97		05/16/97	07/10/97	
TEST_TIME	16:32		0:17	17:12	
Data Set	2		1	2	
Units	ppt	%RPD	ppt	ppt	%RPD
2,3,7,8-TCDD	34.9	9.9%	32.6	32.8	0.6%
1,2,3,7,8-PeCDD	171	8.9%	171	163	4.8%
1,2,3,4,7,8-HxCDD	174	1.7%	168	168	0.0%
1,2,3,6,7,8-HxCDD	179	7.5%	163	167	2.4%
1,2,3,7,8,9-HxCDD	175	0.6%	147	142	3.5%
1,2,3,4,6,7,8-HpCDD	175	1.7%	168	160	4.9%
1,2,3,4,6,7,8,9-OCDD	394	7.9%	345	344	0.3%
2,3,7,8-TCDF	35.7	1.1%	32.1	34.4	6.9%
1,2,3,7,8-PeCDF	188	1.1%	188	185	1.6%
2,3,4,7,8-PeCDF	174	5.9%	152	158	3.9%
1,2,3,4,7,8-HxCDF	179	2.2%	178	171	4.0%
1,2,3,6,7,8-HxCDF	197	7.4%	176	195	10.2%
2,3,4,6,7,8-HxCDF	191	0.0%	167	175	4.7%
1,2,3,7,8,9-HxCDF	184	10.3%	144	162	11.8%
1,2,3,4,6,7,8-HpCDF	217	2.8%	205	213	3.8%
1,2,3,4,7,8,9-HpCDF	163	2.5%	156	155	0.6%
1,2,3,4,6,7,8,9-OCDF	384	20.7%	303	325	7.0%
Total TCDD					
Total PeCDD					
Total HxCDD					
Total HpCDD					
Total TCDF					
Total PeCDF					
Total HxCDF					
Total HpCDF					

BATCH_ID	41606A	41606A	
SAMP_ID	TLI Sediment Blank	TLI Sediment Blank	
LSAMP_ID	W971675	T974726	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	05/15/97	07/10/97	
TEST_TIME	19:35	14:33	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	ND	ND	
1,2,3,4,6,7,8,9-OCDD	ND	ND	
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	ND	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	ND	ND	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	ND	ND	
Total TCDD	ND	ND	
Total PeCDD	ND	ND	
Total HxCDD	ND	ND	
Total HpCDD	ND	ND	
Total TCDF	ND	ND	
Total PeCDF	ND	ND	
Total HxCDF	ND	ND	
Total HpCDF	ND	ND	

BATCH_ID	41606B	41606B	
SAMP_ID	TLI Blank	TLI Blank	
LSAMP_ID	W971646	T974899	
SAMP_TYPE	WATER	WATER	
TESTED	05/14/97	07/16/97	
TEST_TIME	14:14	19:23	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	ND	ND	
1,2,3,4,6,7,8,9-OCDD	ND	ND	
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	ND	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	ND	ND	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	ND	ND	
Total TCDD	ND	ND	
Total PeCDD	ND	ND	
Total HxCDD	ND	ND	
Total HpCDD	ND	ND	
Total TCDF	ND	ND	
Total PeCDF	ND	ND	
Total HxCDF	ND	ND	
Total HpCDF	ND	ND	

BATCH_ID	41291A	41291A		41291A	41291A	
SAMP_ID	D2004D1P1	D2004D1P1		D2005D1P1	D2005D1P1	
LSAMP_ID	T972556	T974376		T972555	T974375	
SAMP_TYPE	SEDIMENT	SEDIMENT		SEDIMENT	SEDIMENT	
TESTED	04/14/97	06/24/97		04/14/97	06/24/97	
TEST_TIME	16:42	18:03		16:03	17:24	
Data Set	1	2		1	2	
UNITS	ppt	ppt	%RPD	ppt	ppt	%RPD
2,3,7,8-TCDD	1.5	1.8	18.2%	4	4.3	7.2%
1,2,3,7,8-PeCDD	ND	ND		ND	0.55	
1,2,3,4,7,8-HxCDD	1.4	1.2	15.4%	2.2	2.1	4.7%
1,2,3,6,7,8-HxCDD	2.7	2.7	0.0%	4.7	4.7	0.0%
1,2,3,7,8,9-HxCDD	2.4	2.5	4.1%	4.1	4.6	11.5%
1,2,3,4,6,7,8-HpCDD	70.6	74.7	5.6%	136	135	0.7%
1,2,3,4,6,7,8,9-OCDD	563	580	3.0%	1210	1210	0.0%
2,3,7,8-TCDF	ND	ND		ND	ND	
1,2,3,7,8-PeCDF	ND	ND		ND	ND	
2,3,4,7,8-PeCDF	ND	ND		ND	ND	
1,2,3,4,7,8-HxCDF	2.5	2.6	3.9%	2.1	1.9	10.0%
1,2,3,6,7,8-HxCDF	0.58	0.65	11.4%	1.1	1.1	0.0%
2,3,4,6,7,8-HxCDF	0.84	1.3	43.0%	0.94	2.1	76.3%
1,2,3,7,8,9-HxCDF	ND	ND		ND	ND	
1,2,3,4,6,7,8-HpCDF	14.8	14.6	1.4%	31.1	30.5	1.9%
1,2,3,4,7,8,9-HpCDF	1.1	0.91	18.9%	2	2	0.0%
1,2,3,4,6,7,8,9-OCDF	54.9	50.4	8.5%	134	134	0.0%
Total TCDD	1.5	1.8	18.2%	4	4.3	7.2%
Total PeCDD	ND	ND		0.69	0.98	34.7%
Total HxCDD	16.9	8.4	67.2%	31	31.9	2.9%
Total HpCDD	168	194	14.4%	227	239	5.2%
Total TCDF	0.75	0.73	2.7%	2	1.5	28.6%
Total PeCDF	3.8	2.4	45.2%	8.7	7.4	16.1%
Total HxCDF	16.3	20.6	23.3%	34.9	32	8.7%
Total HpCDF	40.2	39	3.0%	89.2	89.3	0.1%

BATCH_ID	41291Ar1	41291Ar1	
SAMP_ID	D2006D1P1	D2006D1P1	
LSAMP_ID	T972778	T974370	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/22/97	06/24/97	
TEST_TIME	05:39	14:03	
Data Set	1	2	
UNITS	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	21.9	19.8	10.1%
1,2,3,4,6,7,8,9-OCDD	225	213	5.5%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	ND	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	3.8	6.1	46.5%
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	19	15.8	18.4%
Total TCDD	ND	ND	
Total PeCDD	2.5	ND	
Total HxCDD	11.9	16.6	33.0%
Total HpCDD	56	53.3	4.9%
Total TCDF	ND	ND	
Total PeCDF	2.5	2.4	4.1%
Total HxCDF	4.6	3	42.1%
Total HpCDF	7.3	15.6	72.5%

BATCH_ID	41291A	41291A	
SAMP_ID	D2006D1D1	D2006D1D1	
LSAMP_ID	T972561	T974379	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/14/97	06/24/97	
TEST_TIME	20:14	20:25	
Data Set	1	2	
UNITS	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	0.47	0.54	13.9%
1,2,3,7,8,9-HxCDD	1.1	1	9.5%
1,2,3,4,6,7,8-HpCDD	19.7	19.8	0.5%
1,2,3,4,6,7,8,9-OCDD	199	207	3.9%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	0.69	0.59	15.6%
1,2,3,6,7,8-HxCDF	ND	0.25	
2,3,4,6,7,8-HxCDF	0.68	0.64	6.1%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	5.3	5.3	0.0%
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	13.9	13.7	1.4%
Total TCDD	ND	ND	
Total PeCDD	0.91	0.81	11.6%
Total HxCDD	11.5	10.6	8.1%
Total HpCDD	40.9	43	5.0%
Total TCDF	0.57	0.5	13.1%
Total PeCDF	0.51	3.4	147.8%
Total HxCDF	4.8	6.6	31.6%
Total HpCDF	12.9	12.9	0.0%

BATCH_ID	41291A	41291A	
SAMP_ID	D2007D1P1	D2007D1P1	
LSAMP_ID	T972554	T974374	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/14/97	06/24/97	
TEST_TIME	15:24	16:45	
Data Set	1	2	
UNITS	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	0.61	0.54	12.2%
1,2,3,7,8,9-HxCDD	8.9	7.8	13.2%
1,2,3,4,6,7,8-HpCDD	13.8	14	1.4%
1,2,3,4,6,7,8,9-OCDD	174	174	0.0%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	0.31	0.38	20.3%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	1	0.76	27.3%
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	3.7	3.4	8.5%
Total TCDD	0.87	0.83	4.7%
Total PeCDD	2.3	2.4	4.3%
Total HxCDD	15.4	13.9	10.2%
Total HpCDD	13.8	19.6	34.7%
Total TCDF	ND	ND	
Total PeCDF	ND	ND	
Total HxCDF	0.69	0.38	57.9%
Total HpCDF	1	0.99	1.0%

BATCH_ID	41291Ar1	41291Ar1	
SAMP_ID	D2008D1P1	D2008D1P1	
LSAMP_ID	T972776	T974368	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/22/97	06/24/97	
TEST_TIME	04:19	12:45	
Data Set	1	2	
UNITS	ppt	ppt	%RPD
2,3,7,8-TCDD	2.8	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	3.3	3.8	14.1%
1,2,3,7,8,9-HxCDD	2.7	3.5	25.8%
1,2,3,4,6,7,8-HpCDD	97.8	92.7	5.4%
1,2,3,4,6,7,8,9-OCDD	1220	1130	7.7%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	2.9	3.6	21.5%
1,2,3,6,7,8-HxCDF	0.95	ND	
2,3,4,6,7,8-HxCDF	1.9	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	21.1	25.2	17.7%
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	67.1	63.7	5.2%
Total TCDD	2.8	ND	
Total PeCDD	1.6	ND	
Total HxCDD	17.3	21.3	20.7%
Total HpCDD	219	209	4.7%
Total TCDF	3.9	3.4	13.7%
Total PeCDF	14.3	9.9	36.4%
Total HxCDF	31.6	32.8	3.7%
Total HpCDF	71.9	82.9	14.2%

BATCH_ID	41291B	41291B	
SAMP_ID	D2003W1P1	D2003W1P1	
LSAMP_ID	S972569	T974390	
SAMP_TYPE	WATER	WATER	
TESTED	04/16/97	06/25/97	
TEST_TIME	00:54	13:52	
Data Set	1	2	
UNITS	ppq	ppq	%RPD
2,3,7,8-TCDD	6.1	ND	
1,2,3,7,8-PeCDD	20.3	21.1	3.9%
1,2,3,4,7,8-HxCDD	16.4	ND	
1,2,3,6,7,8-HxCDD	11.8	20.8	55.2%
1,2,3,7,8,9-HxCDD	20.2	20.5	1.5%
1,2,3,4,6,7,8-HpCDD	90.4	114	23.1%
1,2,3,4,6,7,8,9-OCDD	599	700	15.6%
2,3,7,8-TCDF	9.1	ND	
1,2,3,7,8-PeCDF	19	23.8	22.4%
2,3,4,7,8-PeCDF	16.6	22.4	29.7%
1,2,3,4,7,8-HxCDF	22.6	29.4	26.2%
1,2,3,6,7,8-HxCDF	19.4	18.6	4.2%
2,3,4,6,7,8-HxCDF	22	26.7	19.3%
1,2,3,7,8,9-HxCDF	25.3	32.9	26.1%
1,2,3,4,6,7,8-HpCDF	26.1	27.8	6.3%
1,2,3,4,7,8,9-HpCDF	19.3	30.7	45.6%
1,2,3,4,6,7,8,9-OCDF	47.2	86.8	59.1%
Total TCDD	6.1	ND	
Total PeCDD	20.3	21.1	3.9%
Total HxCDD	20.2	41.3	68.6%
Total HpCDD	164	201	20.3%
Total TCDF	9.1	ND	
Total PeCDF	19	46.2	83.4%
Total HxCDF	89.4	100	11.2%
Total HpCDF	64.6	77.7	18.4%

BATCH_ID	41291B	41291B	
SAMP_ID	D2006W1P1	D2006W1P1	
LSAMP_ID	S972570	T974391	
SAMP_TYPE	WATER	WATER	
TESTED	04/16/97	06/25/97	
TEST_TIME	02:05	14:31	
Data Set	1	2	
UNITS	ppq	ppq	%RPD
2,3,7,8-TCDD	4.5	7.8	53.7%
1,2,3,7,8-PeCDD	9.8	18.8	62.9%
1,2,3,4,7,8-HxCDD	10	13.1	26.8%
1,2,3,6,7,8-HxCDD	11.1	13.3	18.0%
1,2,3,7,8,9-HxCDD	10.8	13.4	21.5%
1,2,3,4,6,7,8-HpCDD	7.6	16.6	74.4%
1,2,3,4,6,7,8,9-OCDD	24.6	41.2	50.5%
2,3,7,8-TCDF	5.9	8.7	38.4%
1,2,3,7,8-PeCDF	8.7	16.7	63.0%
2,3,4,7,8-PeCDF	12.4	13.6	9.2%
1,2,3,4,7,8-HxCDF	14.3	13.9	2.8%
1,2,3,6,7,8-HxCDF	13	14.3	9.5%
2,3,4,6,7,8-HxCDF	14.7	15.3	4.0%
1,2,3,7,8,9-HxCDF	17.4	20.5	16.4%
1,2,3,4,6,7,8-HpCDF	11.6	11.1	4.4%
1,2,3,4,7,8,9-HpCDF	8	16.7	70.4%
1,2,3,4,6,7,8,9-OCDF	31.5	43.7	32.4%
Total TCDD	4.5	7.8	53.7%
Total PeCDD	9.8	18.8	62.9%
Total HxCDD	21.9	26.5	19.0%
Total HpCDD	7.6	16.6	74.4%
Total TCDF	5.9	8.7	38.4%
Total PeCDF	21.2	30.4	35.7%
Total HxCDF	59.4	64	7.5%
Total HpCDF	19.6	16.7	16.0%

BATCH_ID	41291B	41291B	
SAMP_ID	D2006W1D1	D2006W1D1	
LSAMP_ID	S972591	T974392	
SAMP_TYPE	WATER	WATER	
TESTED	04/16/97	06/25/97	
TEST_TIME	20:52	15:10	
Data Set	1	2	
UNITS	ppq	ppq	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	3.2	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	ND	ND	
1,2,3,4,6,7,8,9-OCDD	37.9	29.5	24.9%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	ND	8.3	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	7.2	ND	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	ND	17	
Total TCDD	ND	ND	
Total PeCDD	ND	ND	
Total HxCDD	3.2	ND	
Total HpCDD	ND	ND	
Total TCDF	ND	ND	
Total PeCDF	ND	ND	
Total HxCDF	ND	8.3	
Total HpCDF	7.2	ND	

BATCH_ID	41291A	41291A		41291A	41291A	
SAMP_ID	D2006D1MD	D2006D1MD		D2006D1MS	D2006D1MS	
LSAMP_ID	T972567	T974385		T972562	T974384	
SAMP_TYPE	SEDIMENT	SEDIMENT		SEDIMENT	SEDIMENT	
TESTED	04/15/97	06/25/97		04/14/97	06/25/97	
TEST_TIME	03:04	10:24		21:01	09:46	
Data Set	1	2		1	2	
UNITS	ppt	ppt	%RPD	ppt	ppt	%RPD
2,3,7,8-TCDD	35.5	35.1	1.1%	36.2	34	6.3%
1,2,3,7,8-PeCDD	172	171	0.6%	173	173	0.0%
1,2,3,4,7,8-HxCDD	161	163	1.2%	191	165	14.6%
1,2,3,6,7,8-HxCDD	195	191	2.1%	177	187	5.5%
1,2,3,7,8,9-HxCDD	179	173	3.4%	189	180	4.9%
1,2,3,4,6,7,8-HpCDD	226	228	0.9%	206	216	4.7%
1,2,3,4,6,7,8,9-OCDD	656	655	0.2%	562	606	7.5%
2,3,7,8-TCDF	39.8	37.3	6.5%	36.1	37.6	4.1%
1,2,3,7,8-PeCDF	186	187	0.5%	186	185	0.5%
2,3,4,7,8-PeCDF	157	157	0.0%	153	156	1.9%
1,2,3,4,7,8-HxCDF	185	178	3.9%	204	184	10.3%
1,2,3,6,7,8-HxCDF	202	201	0.5%	193	204	5.5%
2,3,4,6,7,8-HxCDF	182	181	0.6%	195	186	4.7%
1,2,3,7,8,9-HxCDF	197	197	0.0%	191	201	5.1%
1,2,3,4,6,7,8-HpCDF	169	174	2.9%	211	171	20.9%
1,2,3,4,7,8,9-HpCDF	198	211	6.4%	178	209	16.0%
1,2,3,4,6,7,8,9-OCDF	539	547	1.5%	431	493	13.4%

BATCH_ID	41291B	41291B		41291B	41291B	
SAMP_ID	D2006W1MD	D2006W1MD		D2006W1MS	D2006W1MS	
LSAMP_ID	S972593	T974394		S972592	T974393	
SAMP_TYPE	WATER	WATER		WATER	WATER	
TESTED	04/16/97	06/25/97		04/16/97	06/25/97	
TEST_TIME	22:19	16:27		21:36	15:48	
Data Set	1	2		1	2	
UNITS	ppq	ppq	%RPD	ppq	ppq	%RPD
2,3,7,8-TCDD	764	726	5.1%	866	734	16.5%
1,2,3,7,8-PeCDD	3710	3530	5.0%	3990	4010	0.5%
1,2,3,4,7,8-HxCDD	3560	3450	3.1%	3860	3820	1.0%
1,2,3,6,7,8-HxCDD	3970	4070	2.5%	3980	4460	11.4%
1,2,3,7,8,9-HxCDD	3470	3580	3.1%	3490	3760	7.4%
1,2,3,4,6,7,8-HpCDD	3850	4240	9.6%	4180	4680	11.3%
1,2,3,4,6,7,8,9-OCDD	8160	8580	5.0%	9080	9600	5.6%
2,3,7,8-TCDF	710	788	10.4%	815	879	7.6%
1,2,3,7,8-PeCDF	3600	3690	2.5%	4220	4210	0.2%
2,3,4,7,8-PeCDF	3330	3490	4.7%	3480	3840	9.8%
1,2,3,4,7,8-HxCDF	4060	3630	11.2%	4390	3950	10.6%
1,2,3,6,7,8-HxCDF	3710	4150	11.2%	4010	4590	13.5%
2,3,4,6,7,8-HxCDF	3700	3420	7.9%	3230	3230	0.0%
1,2,3,7,8,9-HxCDF	4600	4130	10.8%	4380	4390	0.2%
1,2,3,4,6,7,8-HpCDF	3870	3200	19.0%	4340	3570	19.5%
1,2,3,4,7,8,9-HpCDF	3830	4720	20.8%	4090	5210	24.1%
1,2,3,4,6,7,8,9-OCDF	15800	16190	2.4%	31280	32620	4.2%

BATCH_ID	41291A	41291A		41291A	41291A	
SAMP_ID	TLI LCS	TLI LCS		TLI LCSD	TLI LCSD	
LSAMP_ID	T972568	T974386		T972569	T974387	
SAMP_TYPE	SEDIMENT	SEDIMENT		SEDIMENT	SEDIMENT	
TESTED	04/15/97	06/25/97		04/15/97	06/25/97	
TEST_TIME	03:40	11:03		04:27	11:42	
Data Set	1	2		1	2	
UNITS	ppt	ppt	%RPD	ppt	ppt	%RPD
2,3,7,8-TCDD	34.4	33.8	1.8%	34.6	34.6	0.0%
1,2,3,7,8-PeCDD	172	170	1.2%	172	169	1.8%
1,2,3,4,7,8-HxCDD	157	155	1.3%	164	160	2.5%
1,2,3,6,7,8-HxCDD	183	187	2.2%	192	190	1.0%
1,2,3,7,8,9-HxCDD	150	158	5.2%	170	174	2.3%
1,2,3,4,6,7,8-HpCDD	203	196	3.5%	204	202	1.0%
1,2,3,4,6,7,8,9-OCDD	380	400	5.1%	400	401	0.2%
2,3,7,8-TCDF	40.3	36.5	9.9%	41.1	37.5	9.2%
1,2,3,7,8-PeCDF	195	189	3.1%	201	202	0.5%
2,3,4,7,8-PeCDF	154	155	0.6%	171	165	3.6%
1,2,3,4,7,8-HxCDF	180	173	4.0%	184	174	5.6%
1,2,3,6,7,8-HxCDF	205	209	1.9%	213	210	1.4%
2,3,4,6,7,8-HxCDF	166	171	3.0%	194	187	3.7%
1,2,3,7,8,9-HxCDF	156	171	9.2%	183	185	1.1%
1,2,3,4,6,7,8-HpCDF	182	185	1.6%	177	183	3.3%
1,2,3,4,7,8,9-HpCDF	178	196	9.6%	185	202	8.8%
1,2,3,4,6,7,8,9-OCDF	540	519	4.0%	449	427	5.0%

BATCH_ID	41291Ar1	41291Ar1		41291Ar1	41291Ar1	
SAMP_ID	TLI LCS	TLI LCS		TLI LCSD	TLI LCSD	
LSAMP_ID	T972779	T974371		T972780	T974372	
SAMP_TYPE	SEDIMENT	SEDIMENT		SEDIMENT	SEDIMENT	
TESTED	04/22/97	06/24/97		04/22/97	06/24/97	
TEST_TIME	06:18	14:49		06:57	15:28	
Data Set	1	2		1	2	
UNITS	ppt	ppt	%RPD	ppt	ppt	%RPD
2,3,7,8-TCDD	34.2	34.2	0.0%	36.3	37.9	4.3%
1,2,3,7,8-PeCDD	177	177	0.0%	189	183	3.2%
1,2,3,4,7,8-HxCDD	144	167	14.8%	154	174	12.2%
1,2,3,6,7,8-HxCDD	183	173	5.6%	194	180	7.5%
1,2,3,7,8,9-HxCDD	153	168	9.3%	171	179	4.6%
1,2,3,4,6,7,8-HpCDD	194	183	5.8%	206	196	5.0%
1,2,3,4,6,7,8,9-OCDD	394	370	6.3%	409	413	1.0%
2,3,7,8-TCDF	39	33.1	16.4%	41.5	39.8	4.2%
1,2,3,7,8-PeCDF	175	175	0.0%	198	209	5.4%
2,3,4,7,8-PeCDF	148	162	9.0%	157	173	9.7%
1,2,3,4,7,8-HxCDF	181	170	6.3%	191	185	3.2%
1,2,3,6,7,8-HxCDF	194	169	13.8%	216	187	14.4%
2,3,4,6,7,8-HxCDF	183	171	6.8%	193	189	2.1%
1,2,3,7,8,9-HxCDF	191	184	3.7%	188	189	0.5%
1,2,3,4,6,7,8-HpCDF	159	192	18.8%	187	211	12.1%
1,2,3,4,7,8,9-HpCDF	221	215	2.8%	214	206	3.8%
1,2,3,4,6,7,8,9-OCDF	435	401	8.1%	420	386	8.4%

BATCH_ID	41291B	41291B		41291B	41291B	
SAMP_ID	TLI LCS	TLI LCS		TLI LCSD	TLI LCSD	
LSAMP_ID	S972594	T974395		S972595	T974396	
SAMP_TYPE	WATER	WATER		WATER	WATER	
TESTED	04/16/97	06/25/97		04/16/97	06/25/97	
TEST_TIME	23:01	17:06		23:44	17:56	
Data Set	1	2		1	2	
UNITS	ppq	ppq	%RPD	ppq	ppq	%RPD
2,3,7,8-TCDD	382	360	5.9%	351	359	2.3%
1,2,3,7,8-PeCDD	1870	1800	3.8%	1770	1680	5.2%
1,2,3,4,7,8-HxCDD	1720	1720	0.0%	1530	1580	3.2%
1,2,3,6,7,8-HxCDD	1970	2010	2.0%	1670	1860	10.8%
1,2,3,7,8,9-HxCDD	1710	1810	5.7%	1450	1680	14.7%
1,2,3,4,6,7,8-HpCDD	1890	2080	9.6%	1780	1980	10.6%
1,2,3,4,6,7,8,9-OCDD	3950	4270	7.8%	3810	4070	6.6%
2,3,7,8-TCDF	379	423	11.0%	331	368	10.6%
1,2,3,7,8-PeCDF	1770	1890	6.6%	1770	1730	2.3%
2,3,4,7,8-PeCDF	1530	1780	15.1%	1570	1650	5.0%
1,2,3,4,7,8-HxCDF	1900	1820	4.3%	1850	1790	3.3%
1,2,3,6,7,8-HxCDF	1790	2060	14.0%	1670	1930	14.4%
2,3,4,6,7,8-HxCDF	1670	1700	1.8%	1700	1810	6.3%
1,2,3,7,8,9-HxCDF	1920	1960	2.1%	1970	2070	5.0%
1,2,3,4,6,7,8-HpCDF	2000	1610	21.6%	1650	1520	8.2%
1,2,3,4,7,8,9-HpCDF	1940	2070	6.5%	1630	2250	32.0%
1,2,3,4,6,7,8,9-OCDF	5790	6080	4.9%	4410	5000	12.5%

BATCH_ID	41291A	41291A	
SAMP_ID	TLI Sediment Blank	TLI Sediment Blank	
LSAMP_ID	T972552	T974373	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/14/97	06/24/97	
TEST_TIME	14:07	16:06	
Data Set	1	2	
UNITS	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	ND	ND	
1,2,3,4,6,7,8,9-OCDD	ND	ND	
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	0.24	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	ND	ND	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	ND	ND	
Total TCDD	ND	ND	
Total PeCDD	ND	ND	
Total HxCDD	ND	ND	
Total HpCDD	ND	ND	
Total TCDF	ND	ND	
Total PeCDF	ND	ND	
Total HxCDF	0.24	ND	
Total HpCDF	ND	ND	

BATCH_ID	41291Ar1	41291Ar1	
SAMP_ID	TLI Sediment Blank	TLI Sediment Blank	
LSAMP_ID	T972775	T974367	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/22/97	06/24/97	
TEST_TIME	03:43	12:06	
Data Set	1	2	
UNITS	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	ND	ND	
1,2,3,4,6,7,8,9-OCDD	ND	ND	
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	ND	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	ND	ND	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	ND	ND	
Total TCDD	ND	ND	
Total PeCDD	ND	ND	
Total HxCDD	ND	ND	
Total HpCDD	ND	ND	
Total TCDF	ND	ND	
Total PeCDF	ND	ND	
Total HxCDF	ND	ND	
Total HpCDF	ND	ND	

BATCH_ID	41291A	41291A	
SAMP_ID	TLI Cleanup Blank	TLI CleanUp Blk	
LSAMP_ID	T972570	T974388	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/15/97	06/25/97	
TEST_TIME	05:06	12:21	
Data Set	1	2	
UNITS	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	ND	ND	
1,2,3,4,6,7,8,9-OCDD	0.98	ND	
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	0.41	0.43	4.8%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	ND	ND	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	ND	ND	
Total TCDD	ND	ND	
Total PeCDD	ND	ND	
Total HxCDD	ND	ND	
Total HpCDD	ND	ND	
Total TCDF	ND	ND	
Total PeCDF	ND	ND	
Total HxCDF	0.41	0.43	4.8%
Total HpCDF	ND	ND	

BATCH_ID	41291B	41291B	
SAMP_ID	TLI Water Blank	TLI Water Blank	
LSAMP_ID	S972590	T974389	
SAMP_TYPE	WATER	WATER	
TESTED	04/16/97	06/25/97	
TEST_TIME	20:09	13:00	
Data Set	1	2	
UNITS	ppq	ppq	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	ND	ND	
1,2,3,4,6,7,8,9-OCDD	ND	ND	
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	ND	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	ND	ND	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	ND	ND	
Total TCDD	ND	ND	
Total PeCDD	ND	ND	
Total HxCDD	ND	ND	
Total HpCDD	ND	ND	
Total TCDF	ND	ND	
Total PeCDF	ND	ND	
Total HxCDF	ND	ND	
Total HpCDF	ND	ND	

BATCH_ID	41291A	41291A		41291A	41291A	
SAMP_ID	D2001D1P1	D2001D1P1		D2001D1P1	D2001D1P1	
LSAMP_ID	T972558	T974378		P971752	X971771	
SAMP_TYPE	SEDIMENT	SEDIMENT		SEDIMENT	SEDIMENT	
TESTED	04/14/97	06/24/97		04/16/97	06/25/97	
TEST_TIME	18:00	19:30		13:38	17:02	
Data Set	1	2		1	2	
UNITS	ppt	ppt	%RPD	ppt	ppt	%RPD
2,3,7,8-TCDD	1210	1210	0.0%			
1,2,3,7,8-PeCDD	6.6	6.9	4.4%			
1,2,3,4,7,8-HxCDD	10.1	9.8	3.0%			
1,2,3,6,7,8-HxCDD	19.8	18.6	6.2%			
1,2,3,7,8,9-HxCDD	17.7	17.3	2.3%			
1,2,3,4,6,7,8-HpCDD	649	681	4.8%			
1,2,3,4,6,7,8,9-OCDD	5680	5850	2.9%			
2,3,7,8-TCDF				33.1	29.7	10.8%
1,2,3,7,8-PeCDF	2.1	2.4	13.3%			
2,3,4,7,8-PeCDF	4.5	4.2	6.9%			
1,2,3,4,7,8-HxCDF	17.8	16.4	8.2%			
1,2,3,6,7,8-HxCDF	8.1	8	1.2%			
2,3,4,6,7,8-HxCDF	10.5	9.6	9.0%			
1,2,3,7,8,9-HxCDF	ND	ND				
1,2,3,4,6,7,8-HpCDF	146	144	1.4%			
1,2,3,4,7,8,9-HpCDF	7.4	6.9	7.0%			
1,2,3,4,6,7,8,9-OCDF	478	521	8.6%			
Total TCDD	1240	1240	0.0%			
Total PeCDD	32.8	32.9	0.3%			
Total HxCDD	218	203	7.1%			
Total HpCDD	1630	1720	5.4%			
Total TCDF	259	247	4.7%			
Total PeCDF	511	512	0.2%			
Total HxCDF	303	273	10.4%			
Total HpCDF	436	407	6.9%			

BATCH_ID	41291A	41291A		41291A	41291A	
SAMP_ID	D2002D1P1	D2002D1P1		D2002D1P1	D2002D1P1	
LSAMP_ID	T972557	T974377		X971035	X971770	
SAMP_TYPE	SEDIMENT	SEDIMENT		SEDIMENT	SEDIMENT	
TESTED	04/14/97	06/24/97		04/22/97	06/25/97	
TEST_TIME	17:21	18:49		21:33	16:20	
Data Set	1	2		1	2	
UNITS	ppt	ppt	%RPD	ppt	ppt	%RPD
2,3,7,8-TCDD	44.5	44.7	0.4%			
1,2,3,7,8-PeCDD	ND	ND				
1,2,3,4,7,8-HxCDD	0.86	ND				
1,2,3,6,7,8-HxCDD	3.6	4	10.5%			
1,2,3,7,8,9-HxCDD	2.1	2	4.9%			
1,2,3,4,6,7,8-HpCDD	113	113	0.0%			
1,2,3,4,6,7,8,9-OCDD	1050	995	5.4%			
2,3,7,8-TCDF				3.3	3.5	5.9%
1,2,3,7,8-PeCDF	ND	ND				
2,3,4,7,8-PeCDF	ND	ND				
1,2,3,4,7,8-HxCDF	2.7	2.7	0.0%			
1,2,3,6,7,8-HxCDF	0.43	ND				
2,3,4,6,7,8-HxCDF	1.4	1.3	7.4%			
1,2,3,7,8,9-HxCDF	ND	ND				
1,2,3,4,6,7,8-HpCDF	31.8	31.2	1.9%			
1,2,3,4,7,8,9-HpCDF	1.7	1.7	0.0%			
1,2,3,4,6,7,8,9-OCDF	95	92.8	2.3%			
Total TCDD	46.3	44.7	3.5%			
Total PeCDD	0.94	ND				
Total HxCDD	22.2	22.7	2.2%			
Total HpCDD	209	204	2.4%			
Total TCDF	13	10.4	22.2%			
Total PeCDF	22.3	21.5	3.7%			
Total HxCDF	32.1	30.3	5.8%			
Total HpCDF	111	110	0.9%			

BATCH_ID	41291Ar1	41291Ar1		41291Ar1	41291Ar1	
SAMP_ID	D2003D1P1	D2003D1P1		D2003D1P1	D2003D1P1	
LSAMP_ID	T972777	T974369		X971034	X971739	
SAMP_TYPE	SEDIMENT	SEDIMENT		SEDIMENT	SEDIMENT	
TESTED	04/22/97	06/24/97		04/22/97	06/24/97	
TEST_TIME	05:01	13:24		20:09	16:21	
Data Set	1	2		1	2	
UNITS	ppt	ppt	%RPD	ppt	ppt	%RPD
2,3,7,8-TCDD	294	259	12.7%			
1,2,3,7,8-PeCDD	6.8	7.7	12.4%			
1,2,3,4,7,8-HxCDD	10.5	12.3	15.8%			
1,2,3,6,7,8-HxCDD	32.4	32.2	0.6%			
1,2,3,7,8,9-HxCDD	24.9	26.6	6.6%			
1,2,3,4,6,7,8-HpCDD	823	806	2.1%			
1,2,3,4,6,7,8,9-OCDD	6060	6020	0.7%			
2,3,7,8-TCDF				15.7	14.3	9.3%
1,2,3,7,8-PeCDF	2.8	ND				
2,3,4,7,8-PeCDF	2.8	ND				
1,2,3,4,7,8-HxCDF	22.1	21.3	3.7%			
1,2,3,6,7,8-HxCDF	7.7	8.4	8.7%			
2,3,4,6,7,8-HxCDF	7.4	11.6	44.2%			
1,2,3,7,8,9-HxCDF	ND	ND				
1,2,3,4,6,7,8-HpCDF	116	143	20.8%			
1,2,3,4,7,8,9-HpCDF	8.7	11.6	28.6%			
1,2,3,4,6,7,8,9-OCDF	259	251	3.1%			
Total TCDD	308	275	11.3%			
Total PeCDD	17.6	26.2	39.3%			
Total HxCDD	253	254	0.4%			
Total HpCDD	2110	2050	2.9%			
Total TCDF	62	24.4	87.0%			
Total PeCDF	110	66.2	49.7%			
Total HxCDF	229	190	18.6%			
Total HpCDF	362	436	18.5%			

BATCH_ID	41300A	41300A		41300A	41300A	
SAMP_ID	D5005D1P1	D5005D1P1		D5005D1P1	D5005D1P1	
LSAMP_ID	T972605	T974483		P971762	X971849	
SAMP_TYPE	SEDIMENT	SEDIMENT		SEDIMENT	SEDIMENT	
TESTED	04/16/97	07/01/97		04/16/97	06/30/97	
TEST_TIME	08:11	14:56		21:45	14:17	
Data Set	1	2		1	2	
Units	ppb	ppb	%RPD	ppb	ppb	%RPD
2,3,7,8-TCDD	16.9	14.6	14.6%			
1,2,3,7,8-PeCDD	1.5	ND				
1,2,3,4,7,8-HxCDD	3	ND				
1,2,3,6,7,8-HxCDD	8.3	ND				
1,2,3,7,8,9-HxCDD	5.4	ND				
2,3,7,8-TCDD	16.9	14.6	14.6%			
1,2,3,7,8-PeCDD	1.5	ND				
1,2,3,4,7,8-HxCDD	3	ND				
1,2,3,6,7,8-HxCDD	8.3	ND				
1,2,3,7,8,9-HxCDD	5.4	ND				
1,2,3,4,6,7,8-HpCDD	180	164	9.3%			
1,2,3,4,6,7,8,9-OCDD	1410	1290	8.9%			
2,3,7,8-TCDF	ND	ND		2.6	2.7	3.8%
1,2,3,7,8-PeCDF	ND	ND				
2,3,4,7,8-PeCDF	ND	ND				
1,2,3,4,7,8-HxCDF	7.4	ND				
1,2,3,6,7,8-HxCDF	2.7	ND				
2,3,4,6,7,8-HxCDF	2.3	ND				
1,2,3,7,8,9-HxCDF	ND	ND				
1,2,3,4,6,7,8-HpCDF	38.2	32.8	15.2%			
1,2,3,4,7,8,9-HpCDF	2.9	ND				
1,2,3,4,6,7,8,9-OCDF	156	150	3.9%			
Total TCDD	16.9	14.6	14.6%			
Total PeCDD	1.3	ND				
Total HxCDD	46.4	19.7	80.8%			
Total HpCDD	349	306	13.1%			
Total TCDF	6	ND				
Total PeCDF	16.3	ND				
Total HxCDF	75.4	46.1	48.2%			
Total HpCDF	106	73.8	35.8%			

BATCH_ID	41300A	41300A	
SAMP_ID	D5008D1P1	D5008D1P1	
LSAMP_ID	T972580	T974482	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/15/97	07/01/97	
TEST_TIME	11:44	14:12	
Data Set	1	2	
Units	ppb	ppb	%RPD
2,3,7,8-TCDD	0.44	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	0.45	ND	
1,2,3,6,7,8-HxCDD	1.4	ND	
1,2,3,7,8,9-HxCDD	1.4	ND	
2,3,7,8-TCDD	0.44	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	0.45	ND	
1,2,3,6,7,8-HxCDD	1.4	ND	
1,2,3,7,8,9-HxCDD	1.4	ND	
1,2,3,4,6,7,8-HpCDD	44.6	39	13.4%
1,2,3,4,6,7,8,9-OCDD	460	456	0.9%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	2.6	ND	
1,2,3,6,7,8-HxCDF	0.38	ND	
2,3,4,6,7,8-HxCDF	0.66	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	6.3	7.2	13.3%
1,2,3,4,7,8,9-HpCDF	0.5	ND	
1,2,3,4,6,7,8,9-OCDF	17.2	23.5	31.0%
Total TCDD	0.44	ND	
Total PeCDD	0.43	ND	
Total HxCDD	10.5	3.6	97.9%
Total HpCDD	133	127	4.6%
Total TCDF	1.8	ND	
Total PeCDF	3.1	2.2	34.0%
Total HxCDF	11.5	4.8	82.2%
Total HpCDF	20.5	7.2	96.0%

BATCH_ID	41300A	41300A	
SAMP_ID	D5009D1P1	D5009D1P1	
LSAMP_ID	T972579	T974468	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/15/97	07/01/97	
TEST_TIME	11:03	00:24	
Data Set	1	2	
Units	ppb	ppb	%RPD
2,3,7,8-TCDD	0.69	ND	
1,2,3,7,8-PeCDD	0.35	ND	
1,2,3,4,7,8-HxCDD	0.94	0.83	12.4%
1,2,3,6,7,8-HxCDD	2.4	2.3	4.3%
1,2,3,7,8,9-HxCDD	2.2	2.2	0.0%
2,3,7,8-TCDD	0.69	ND	
1,2,3,7,8-PeCDD	0.35	ND	
1,2,3,4,7,8-HxCDD	0.94	0.83	12.4%
1,2,3,6,7,8-HxCDD	2.4	2.3	4.3%
1,2,3,7,8,9-HxCDD	2.2	2.2	0.0%
1,2,3,4,6,7,8-HpCDD	69	62.6	9.7%
1,2,3,4,6,7,8,9-OCDD	580	551	5.1%
2,3,7,8-TCDF	0.46	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	11	10.4	5.6%
1,2,3,6,7,8-HxCDF	0.77	0.8	3.8%
2,3,4,6,7,8-HxCDF	1.6	1.8	11.8%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	11.8	13.4	12.7%
1,2,3,4,7,8,9-HpCDF	1.4	2.1	40.0%
1,2,3,4,6,7,8,9-OCDF	32.3	28.1	13.9%
Total TCDD	0.69	ND	
Total PeCDD	0.45	ND	
Total HxCDD	13.9	10	32.6%
Total HpCDD	137	125	9.2%
Total TCDF	0.46	1.1	82.1%
Total PeCDF	7.9	6.8	15.0%
Total HxCDF	26.1	24.2	7.6%
Total HpCDF	39.8	13.4	99.2%

BATCH_ID	41300A	41300A	
SAMP_ID	D5010D1P1	D5010D1P1	
LSAMP_ID	T972578	T974467	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/15/97	06/30/97	
TEST_TIME	10:24	23:45	
Data Set	1	2	
Units	ppb	ppb	%RPD
2,3,7,8-TCDD	0.38	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	0.25	ND	
1,2,3,6,7,8-HxCDD	0.5	ND	
1,2,3,7,8,9-HxCDD	0.51	ND	
2,3,7,8-TCDD	0.38	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	0.25	ND	
1,2,3,6,7,8-HxCDD	0.5	ND	
1,2,3,7,8,9-HxCDD	0.51	ND	
1,2,3,4,6,7,8-HpCDD	13.3	12.3	7.8%
1,2,3,4,6,7,8,9-OCDD	179	173	3.4%
2,3,7,8-TCDF	0.39	ND	
1,2,3,7,8-PeCDF	0.17	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	0.71	0.74	4.1%
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	0.59	0.77	26.5%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	2	2.4	18.2%
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	8.4	7.7	8.7%
Total TCDD	0.38	ND	
Total PeCDD	ND	ND	
Total HxCDD	2.4	ND	
Total HpCDD	25.5	21.7	16.1%
Total TCDF	0.71	ND	
Total PeCDF	0.68	1.2	55.3%
Total HxCDF	3.3	3.2	3.1%
Total HpCDF	6.4	2.4	90.9%

BATCH_ID	41300A	41300A	
SAMP_ID	D5011D1D1	D5011D1D1	
LSAMP_ID	T972609	T974466	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/16/97	06/30/97	
TEST_TIME	11:46	23:06	
Data Set	1	2	
Units	ppb	ppb	%RPD
2,3,7,8-TCDD	3.7	ND	
1,2,3,7,8-PeCDD	1.7	ND	
1,2,3,4,7,8-HxCDD	3	ND	
1,2,3,6,7,8-HxCDD	15.5	ND	
1,2,3,7,8,9-HxCDD	10.6	ND	
2,3,7,8-TCDD	3.7	ND	
1,2,3,7,8-PeCDD	1.7	ND	
1,2,3,4,7,8-HxCDD	3	ND	
1,2,3,6,7,8-HxCDD	15.5	ND	
1,2,3,7,8,9-HxCDD	10.6	ND	
1,2,3,4,6,7,8-HpCDD	490	457	7.0%
1,2,3,4,6,7,8,9-OCDD	5320	4800	10.3%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	0.85	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	40.8	34.7	16.2%
1,2,3,6,7,8-HxCDF	3.8	ND	
2,3,4,6,7,8-HxCDF	4.8	ND	
1,2,3,7,8,9-HxCDF	0.53	ND	
1,2,3,4,6,7,8-HpCDF	88.4	ND	
1,2,3,4,7,8,9-HpCDF	7.4	ND	
1,2,3,4,6,7,8,9-OCDF	660	617	6.7%
Total TCDD	3.7	ND	
Total PeCDD	1.6	ND	
Total HxCDD	82.1	52.8	43.4%
Total HpCDD	878	812	7.8%
Total TCDF	10.5	ND	
Total PeCDF	34.8	109	103.2%
Total HxCDF	135	71.3	61.8%
Total HpCDF	454	115	119.2%

BATCH_ID	41300A	41300A		41300A	41300A	
SAMP_ID	D5011D1P1	D5011D1P1		D5011D1P1	D5011D1P1	
LSAMP_ID	T972585	T974465		X970947	X971845	
SAMP_TYPE	SEDIMENT	SEDIMENT		SEDIMENT	SEDIMENT	
TESTED	04/15/97	06/30/97		04/18/97	06/30/97	
TEST_TIME	15:35	22:27		19:02	10:54	
Data Set	1	2		1	2	
Units	ppb	ppb	%RPD	ppb	ppb	%RPD
2,3,7,8-TCDD	4.2	3.5	18.2%			
1,2,3,7,8-PeCDD	1.9	ND				
1,2,3,4,7,8-HxCDD	3.3	3.2	3.1%			
1,2,3,6,7,8-HxCDD	11	10.4	5.6%			
1,2,3,7,8,9-HxCDD	11.8	11.5	2.6%			
2,3,7,8-TCDD	4.2	3.5	18.2%			
1,2,3,7,8-PeCDD	1.9	ND				
1,2,3,4,7,8-HxCDD	3.3	3.2	3.1%			
1,2,3,6,7,8-HxCDD	11	10.4	5.6%			
1,2,3,7,8,9-HxCDD	11.8	11.5	2.6%			
1,2,3,4,6,7,8-HpCDD	342	316	7.9%			
1,2,3,4,6,7,8,9-OCDD	3700	3530	4.7%			
2,3,7,8-TCDF	ND	2.2		1.8	1.8	0.0%
1,2,3,7,8-PeCDF	0.79	ND				
2,3,4,7,8-PeCDF	1.3	ND				
1,2,3,4,7,8-HxCDF	30.9	25.3	19.9%			
1,2,3,6,7,8-HxCDF	3.5	3.6	2.8%			
2,3,4,6,7,8-HxCDF	3.6	3.8	5.4%			
1,2,3,7,8,9-HxCDF	0.21	ND				
1,2,3,4,6,7,8-HpCDF	47.8	42.7	11.3%			
1,2,3,4,7,8,9-HpCDF	5.4	4.5	18.2%			
1,2,3,4,6,7,8,9-OCDF	162	151	7.0%			
Total TCDD	5.3	3.5	40.9%			
Total PeCDD	2.3	ND				
Total HxCDD	72.7	68.2	6.4%			
Total HpCDD	641	592	7.9%			
Total TCDF	9.7	24.9	87.9%			
Total PeCDF	30.9	17.9	75.9%			
Total HxCDF	103	86.2	17.8%			
Total HpCDF	169	161	4.8%			

BATCH_ID	41300A	41300A		41300A	41300A	
SAMP_ID	D5012D1P1	D5012D1P1		D5012D1P1	D5012D1P1	
LSAMP_ID	T972575	T974464		P971760	X971844	
SAMP_TYPE	SEDIMENT	SEDIMENT		SEDIMENT	SEDIMENT	
TESTED	04/15/97	06/30/97		04/16/97	06/30/97	
TEST_TIME	08:20	21:49		20:06	10:05	
Data Set	1	2		1	2	
Units	ppb	ppb	%RPD	ppb	ppb	%RPD
2,3,7,8-TCDD	5.4	ND				
1,2,3,7,8-PeCDD	2.2	ND				
1,2,3,4,7,8-HxCDD	5.6	5.7	1.8%			
1,2,3,6,7,8-HxCDD	15.9	12.2	26.3%			
1,2,3,7,8,9-HxCDD	15.1	16.5	8.9%			
2,3,7,8-TCDD	5.4	ND				
1,2,3,7,8-PeCDD	2.2	ND				
1,2,3,4,7,8-HxCDD	5.6	5.7	1.8%			
1,2,3,6,7,8-HxCDD	15.9	12.2	26.3%			
1,2,3,7,8,9-HxCDD	15.1	16.5	8.9%			
1,2,3,4,6,7,8-HpCDD	484	460	5.1%			
1,2,3,4,6,7,8,9-OCDD	5030	4870	3.2%			
2,3,7,8-TCDF	ND	ND		1.2	1.5	22.2%
1,2,3,7,8-PeCDF	ND	ND				
2,3,4,7,8-PeCDF	1.3	ND				
1,2,3,4,7,8-HxCDF	40.8	37	9.8%			
1,2,3,6,7,8-HxCDF	4.5	ND				
2,3,4,6,7,8-HxCDF	4.3	ND				
1,2,3,7,8,9-HxCDF	0.37	ND				
1,2,3,4,6,7,8-HpCDF	58.3	57.7	1.0%			
1,2,3,4,7,8,9-HpCDF	11.2	4.8	80.0%			
1,2,3,4,6,7,8,9-OCDF	210	190	10.0%			
Total TCDD	6.4	ND				
Total PeCDD	5.7	ND				
Total HxCDD	111	89.3	21.7%			
Total HpCDD	947	908	4.2%			
Total TCDF	14.8	26.3	56.0%			
Total PeCDF	52.1	33.3	44.0%			
Total HxCDF	116	55.7	70.2%			
Total HpCDF	216	62.5	110.2%			

BATCH_ID	41300A	41300A		41300A	41300A	
SAMP_ID	D5013D1P1	D5013D1P1		D5013D1P1	D5013D1P1	
LSAMP_ID	T972574	T974463		P971759	X971843	
SAMP_TYPE	SEDIMENT	SEDIMENT		SEDIMENT	SEDIMENT	
TESTED	04/15/97	06/30/97		04/16/97	06/30/97	
TEST_TIME	07:41	21:10		19:21	09:23	
Data Set	1	2		1	2	
Units	ppb	ppb	%RPD	ppb	ppb	%RPD
2,3,7,8-TCDD	5.1	ND				
1,2,3,7,8-PeCDD	2.8	ND				
1,2,3,4,7,8-HxCDD	4.4	ND				
1,2,3,6,7,8-HxCDD	13.6	10.3	27.6%			
1,2,3,7,8,9-HxCDD	12.8	9.6	28.6%			
2,3,7,8-TCDD	5.1	ND				
1,2,3,7,8-PeCDD	2.8	ND				
1,2,3,4,7,8-HxCDD	4.4	ND				
1,2,3,6,7,8-HxCDD	13.6	10.3	27.6%			
1,2,3,7,8,9-HxCDD	12.8	9.6	28.6%			
1,2,3,4,6,7,8-HpCDD	329	335	1.8%			
1,2,3,4,6,7,8,9-OCDD	2960	2890	2.4%			
2,3,7,8-TCDF	ND	ND		1.3	1.5	14.3%
1,2,3,7,8-PeCDF	1.7	ND				
2,3,4,7,8-PeCDF	1.4	ND				
1,2,3,4,7,8-HxCDF	19.2	14.6	27.2%			
1,2,3,6,7,8-HxCDF	4	ND				
2,3,4,6,7,8-HxCDF	4.1	ND				
1,2,3,7,8,9-HxCDF	0.89	ND				
1,2,3,4,6,7,8-HpCDF	42.7	32.5	27.1%			
1,2,3,4,7,8,9-HpCDF	5.3	ND				
1,2,3,4,6,7,8,9-OCDF	131	120	8.8%			
Total TCDD	6.9	ND				
Total PeCDD	8.2	ND				
Total HxCDD	91.4	10.3	159.5%			
Total HpCDD	625	654	4.5%			
Total TCDF	21.9	20.2	8.1%			
Total PeCDF	28.8	14.3	67.3%			
Total HxCDF	88.7	71.6	21.3%			
Total HpCDF	143	112	24.3%			

BATCH_ID	41300A	41300A		41300A	41300A	
SAMP_ID	D5014D1P1	D5014D1P1		D5014D1P1	D5014D1P1	
LSAMP_ID	T972573	T974462		P971758	X971825	
SAMP_TYPE	SEDIMENT	SEDIMENT		SEDIMENT	SEDIMENT	
TESTED	04/15/97	06/30/97		04/16/97	06/27/97	
TEST_TIME	07:02	20:31		18:35	15:06	
Data Set	1	2		1	2	
Units	ppb	ppb	%RPD	ppb	ppb	%RPD
2,3,7,8-TCDD	5.4	ND				
1,2,3,7,8-PeCDD	3.2	ND				
1,2,3,4,7,8-HxCDD	6.3	ND				
1,2,3,6,7,8-HxCDD	17.7	15.9	10.7%			
1,2,3,7,8,9-HxCDD	16.6	19.2	14.5%			
2,3,7,8-TCDD	5.4	ND				
1,2,3,7,8-PeCDD	3.2	ND				
1,2,3,4,7,8-HxCDD	6.3	ND				
1,2,3,6,7,8-HxCDD	17.7	15.9	10.7%			
1,2,3,7,8,9-HxCDD	16.6	19.2	14.5%			
1,2,3,4,6,7,8-HpCDD	497	440	12.2%			
1,2,3,4,6,7,8,9-OCDD	4830	4420	8.9%			
2,3,7,8-TCDF	ND	ND		1.9	ND	
1,2,3,7,8-PeCDF	1.9	ND				
2,3,4,7,8-PeCDF	2.3	ND				
1,2,3,4,7,8-HxCDF	23.3	19.1	19.8%			
1,2,3,6,7,8-HxCDF	4.3	ND				
2,3,4,6,7,8-HxCDF	4	ND				
1,2,3,7,8,9-HxCDF	1	ND				
1,2,3,4,6,7,8-HpCDF	60.4	52.9	13.2%			
1,2,3,4,7,8,9-HpCDF	6.3	ND				
1,2,3,4,6,7,8,9-OCDF	263	220	17.8%			
Total TCDD	7.2	ND				
Total PeCDD	6.3	ND				
Total HxCDD	105	35.1	99.8%			
Total HpCDD	806	723	10.9%			
Total TCDF	18.5	ND				
Total PeCDF	36	57.3	45.7%			
Total HxCDF	112	90.4	21.3%			
Total HpCDF	202	183	9.9%			

BATCH_ID	41300A	41300A	41300A		41300A	41300A	
SAMP_ID	D5015D1P1	D5015D1P1	D5015D1P1		D5015D1P1	D5015D1P1	
LSAMP_ID	T972613	T972572	T974461		P971757	X971824	
SAMP_TYPE	SEDIMENT	SEDIMENT	SEDIMENT		SEDIMENT	SEDIMENT	
TESTED	04/16/97	04/15/97	06/30/97		04/16/97	06/27/97	
TEST_TIME	14:22	06:23	19:52		17:48	14:00	
Data Set	1	1	2		1	2	
Units	ppb	ppb	ppb	%RPD	ppb	ppb	%RPD
2,3,7,8-TCDD		8.1	ND				
1,2,3,7,8-PeCDD		5.2	ND				
1,2,3,4,7,8-HxCDD		12.2	11	10.3%			
1,2,3,6,7,8-HxCDD		30.8	32.1	4.1%			
1,2,3,7,8,9-HxCDD		32.5	38.6	17.2%			
2,3,7,8-TCDD		8.1	ND				
1,2,3,7,8-PeCDD		5.2	ND				
1,2,3,4,7,8-HxCDD		12.2	11	10.3%			
1,2,3,6,7,8-HxCDD		30.8	32.1	4.1%			
1,2,3,7,8,9-HxCDD		32.5	38.6	17.2%			
1,2,3,4,6,7,8-HpCDD		928	868	6.7%			
1,2,3,4,6,7,8,9-OCDD	9130		9070	0.7%			
2,3,7,8-TCDF		ND	ND		ND	ND	
1,2,3,7,8-PeCDF		2.4	ND				
2,3,4,7,8-PeCDF		2.7	ND				
1,2,3,4,7,8-HxCDF		33.9	27.8	19.8%			
1,2,3,6,7,8-HxCDF		8.4	9.7	14.4%			
2,3,4,6,7,8-HxCDF		8	8.2	2.5%			
1,2,3,7,8,9-HxCDF		0.67	ND				
1,2,3,4,6,7,8-HpCDF		120	114	5.1%			
1,2,3,4,7,8,9-HpCDF		12.4	12.7	2.4%			
1,2,3,4,6,7,8,9-OCDF	480		259	59.8%			
Total TCDD		17.1	18	5.1%			
Total PeCDD		27	92.4	110%			
Total HxCDD		243	218	10.8%			
Total HpCDD		1950	1560	22.2%			
Total TCDF		34.2	18.2	61.1%			
Total PeCDF		69.7	90.6	32.6%			
Total HxCDF		207	156	28.1%			
Total HpCDF		428	358	17.8%			

BATCH_ID	41300A	41300A		41300A	41300A	
SAMP_ID	TLI LCS	TLI LCS		TLI LCSD	TLI LCSD	
LSAMP_ID	T972606	T974471		T972607	T974472	
SAMP_TYPE	SEDIMENT	SEDIMENT		SEDIMENT	SEDIMENT	
TESTED	04/16/97	07/01/97		04/16/97	07/01/97	
TEST_TIME	08:50	02:26		09:29	03:11	
Data Set	1	2		1	2	
Units	ppb	ppb	%RPD	ppb	ppb	%RPD
2,3,7,8-TCDD	33.9	30.9	9.3%	32	32.8	2.5%
1,2,3,7,8-PeCDD	175	162	7.7%	168	155	8.0%
1,2,3,4,7,8-HxCDD	158	157	0.6%	164	147	10.9%
1,2,3,6,7,8-HxCDD	192	179	7.0%	189	177	6.6%
1,2,3,7,8,9-HxCDD	165	173	4.7%	160	162	1.2%
2,3,7,8-TCDD	33.9	30.9	9.3%	32	32.8	2.5%
1,2,3,7,8-PeCDD	175	162	7.7%	168	155	8.0%
1,2,3,4,7,8-HxCDD	158	157	0.6%	164	147	10.9%
1,2,3,6,7,8-HxCDD	192	179	7.0%	189	177	6.6%
1,2,3,7,8,9-HxCDD	165	173	4.7%	160	162	1.2%
1,2,3,4,6,7,8-HpCDD	193	190	1.6%	188	179	4.9%
1,2,3,4,6,7,8,9-OCDD	388	366	5.8%	382	376	1.6%
2,3,7,8-TCDF	39	34.8	11.4%	39.4	36.4	7.9%
1,2,3,7,8-PeCDF	204	185	9.8%	201	185	8.3%
2,3,4,7,8-PeCDF	166	149	10.8%	161	160	0.6%
1,2,3,4,7,8-HxCDF	181	180	0.6%	175	172	1.7%
1,2,3,6,7,8-HxCDF	215	208	3.3%	210	190	10.0%
2,3,4,6,7,8-HxCDF	195	191	2.1%	195	170	13.7%
1,2,3,7,8,9-HxCDF	174	190	8.8%	176	179	1.7%
1,2,3,4,6,7,8-HpCDF	201	191	5.1%	196	182	7.4%
1,2,3,4,7,8,9-HpCDF	192	192	0.0%	214	198	7.8%
1,2,3,4,6,7,8,9-OCDF	393	332	16.8%	445	383	15.0%

BATCH_ID	41300A	41300A	
SAMP_ID	TLI Sediment Blank	TLI Sediment Blank	
LSAMP_ID	T972571	T974460	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/15/97	06/30/97	
TEST_TIME	05:45	18:52	
Data Set	1	2	
Units	ppb	ppb	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	ND	1.1	
1,2,3,4,6,7,8,9-OCDD	1.3	2.6	66.7%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	0.44	0.89	67.7%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	ND	0.6	
1,2,3,4,7,8,9-HpCDF	ND	0.81	
1,2,3,4,6,7,8,9-OCDF	ND	1.7	
Total TCDD	ND	ND	
Total PeCDD	ND	ND	
Total HxCDD	ND	ND	
Total HpCDD	ND	1.1	
Total TCDF	ND	ND	
Total PeCDF	ND	ND	
Total HxCDF	0.44	0.89	67.7%
Total HpCDF	ND	0.6	

BATCH_ID	41300B	41300B		41300B	41300B	
SAMP_ID	D3001D1P1	D3001D1P1		D3001D1P1	D3001D1P1	
LSAMP_ID	S972566	T974492		P971756	X971852	
SAMP_TYPE	SEDIMENT	SEDIMENT		SEDIMENT	SEDIMENT	
TESTED	04/15/97	07/01/97		04/16/97	06/30/97	
TEST_TIME	22:28	21:06		16:53	16:28	
Data Set	1	2		1	2	
Units	ppt	ppt	%RPD	ppt	ppt	%RPD
2,3,7,8-TCDD	93.7	80.2	15.5%			
1,2,3,7,8-PeCDD	4.7	4.3	8.9%			
1,2,3,4,7,8-HxCDD	10.5	10.1	3.9%			
1,2,3,6,7,8-HxCDD	28	32.7	15.5%			
1,2,3,7,8,9-HxCDD	21.8	28.1	25.3%			
1,2,3,4,6,7,8-HpCDD	833	943	12.4%			
1,2,3,4,6,7,8,9-OCDD	6460	7780	18.5%			
2,3,7,8-TCDF	ND	6.3		3.5	3.8	8.2%
1,2,3,7,8-PeCDF	3.3	5.1	42.9%			
2,3,4,7,8-PeCDF	3.3	4.4	28.6%			
1,2,3,4,7,8-HxCDF	32.8	25.9	23.5%			
1,2,3,6,7,8-HxCDF	18.5	19.9	7.3%			
2,3,4,6,7,8-HxCDF	13.9	21.8	44.3%			
1,2,3,7,8,9-HxCDF	1.2	ND				
1,2,3,4,6,7,8-HpCDF	284	264	7.3%			
1,2,3,4,7,8,9-HpCDF	13.4	15.2	12.6%			
1,2,3,4,6,7,8,9-OCDF	625	887	34.7%			
Total TCDD	100	80.2	22.0%			
Total PeCDD	13.9	15.2	8.9%			
Total HxCDD	276	300	8.3%			
Total HpCDD	2080	2340	11.8%			
Total TCDF	43.7	35.5	20.7%			
Total PeCDF	169	158	6.7%			
Total HxCDF	453	328	32.0%			
Total HpCDF	829	773	7.0%			

BATCH_ID	41300B	41300B	
SAMP_ID	D3002D1D1	D3002D1D1	
LSAMP_ID	S972567	T974493	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/15/97	07/01/97	
TEST_TIME	23:23	21:54	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	0.29	ND	
1,2,3,7,8-PeCDD	0.51	ND	
1,2,3,4,7,8-HxCDD	1.3	ND	
1,2,3,6,7,8-HxCDD	4.3	ND	
1,2,3,7,8,9-HxCDD	3	2.4	22.2%
1,2,3,4,6,7,8-HpCDD	128	148	14.5%
1,2,3,4,6,7,8,9-OCDD	1150	1440	22.4%
2,3,7,8-TCDF	0.36	ND	
1,2,3,7,8-PeCDF	0.25	ND	
2,3,4,7,8-PeCDF	0.31	ND	
1,2,3,4,7,8-HxCDF	1.8	ND	
1,2,3,6,7,8-HxCDF	0.91	ND	
2,3,4,6,7,8-HxCDF	0.9	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	30.4	18.6	48.2%
1,2,3,4,7,8,9-HpCDF	1.4	ND	
1,2,3,4,6,7,8,9-OCDF	117	202	53.3%
Total TCDD	0.29	ND	
Total PeCDD	1.3	ND	
Total HxCDD	32.4	22	38.2%
Total HpCDD	272	308	12.4%
Total TCDF	0.6	ND	
Total PeCDF	6.1	6.4	4.8%
Total HxCDF	33.5	28.5	16.1%
Total HpCDF	112	77.5	36.4%

BATCH_ID	41300B	41300B	
SAMP_ID	D3002D1P1	D3002D1P1	
LSAMP_ID	S972564	T974490	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/15/97	07/01/97	
TEST_TIME	20:54	19:52	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	0.33	ND	
1,2,3,7,8-PeCDD	0.48	ND	
1,2,3,4,7,8-HxCDD	1.2	ND	
1,2,3,6,7,8-HxCDD	3.6	ND	
1,2,3,7,8,9-HxCDD	2.8	ND	
1,2,3,4,6,7,8-HpCDD	131	144	9.5%
1,2,3,4,6,7,8,9-OCDD	1150	1450	23.1%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	2.4	ND	
1,2,3,6,7,8-HxCDF	0.72	ND	
2,3,4,6,7,8-HxCDF	2	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	30.8	23.2	28.1%
1,2,3,4,7,8,9-HpCDF	1.8	ND	
1,2,3,4,6,7,8,9-OCDF	109	183	50.7%
Total TCDD	0.33	ND	
Total PeCDD	0.48	ND	
Total HxCDD	29.2	11.3	88.4%
Total HpCDD	291	310	6.3%
Total TCDF	0.65	ND	
Total PeCDF	4.8	ND	
Total HxCDF	36.9	11.9	102.5%
Total HpCDF	120	109	9.6%

BATCH_ID	41300B	41300B		41300B	41300B	
SAMP_ID	D3003D1P1	D3003D1P1		D3003D1P1	D3003D1P1	
LSAMP_ID	S972565	T974491		P971755	X971851	
SAMP_TYPE	SEDIMENT	SEDIMENT		SEDIMENT	SEDIMENT	
TESTED	04/15/97	07/01/97		04/16/97	06/30/97	
TEST_TIME	21:42	20:31		16:02	15:46	
Data Set	1	2		1	2	
Units	ppt	ppt	%RPD	ppt	ppt	%RPD
2,3,7,8-TCDD	7.2	ND				
1,2,3,7,8-PeCDD	0.52	ND				
1,2,3,4,7,8-HxCDD	1.9	ND				
1,2,3,6,7,8-HxCDD	5.3	5.3	0.0%			
1,2,3,7,8,9-HxCDD	3.8	ND				
1,2,3,4,6,7,8-HpCDD	263	267	1.5%			
1,2,3,4,6,7,8,9-OCDD	2610	3180	19.7%			
2,3,7,8-TCDF	ND	ND		0.96	0.89	7.6%
1,2,3,7,8-PeCDF	ND	ND				
2,3,4,7,8-PeCDF	ND	ND				
1,2,3,4,7,8-HxCDF	2.7	ND				
1,2,3,6,7,8-HxCDF	0.67	ND				
2,3,4,6,7,8-HxCDF	1.4	ND				
1,2,3,7,8,9-HxCDF	ND	ND				
1,2,3,4,6,7,8-HpCDF	48.5	42.3	13.7%			
1,2,3,4,7,8,9-HpCDF	2	ND				
1,2,3,4,6,7,8,9-OCDF	153	218	35.0%			
Total TCDD	7.2	ND				
Total PeCDD	2.4	ND				
Total HxCDD	46.6	18	88.5%			
Total HpCDD	519	517	0.4%			
Total TCDF	3.4	ND				
Total PeCDF	10.1	ND				
Total HxCDF	5	36.2	151.5%			
Total HpCDF	187	170	9.5%			

BATCH_ID	41300B	41300B	
SAMP_ID	D3004D1P1	D3004D1P1	
LSAMP_ID	S972563	T974489	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/15/97	07/01/97	
TEST_TIME	19:57	19:13	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	0.45	ND	
1,2,3,6,7,8-HxCDD	0.8	ND	
1,2,3,7,8,9-HxCDD	0.94	ND	
1,2,3,4,6,7,8-HpCDD	29.8	56.7	62.2%
1,2,3,4,6,7,8,9-OCDD	328	410	22.2%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	0.62	ND	
1,2,3,6,7,8-HxCDF	0.35	ND	
2,3,4,6,7,8-HxCDF	0.54	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	8.5	ND	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	11.6	ND	
Total TCDD	ND	ND	
Total PeCDD	ND	ND	
Total HxCDD	9.6	ND	
Total HpCDD	83.2	56.7	37.9%
Total TCDF	ND	ND	
Total PeCDF	2.3	ND	
Total HxCDF	9.9	ND	
Total HpCDF	21.4	ND	

BATCH_ID	41300B	41300B		41300B	41300B	
SAMP_ID	D3005D1P1	D3005D1P1		D3005D1P1	D3005D1P1	
LSAMP_ID	S972562	T974488		P971754	X971850	
SAMP_TYPE	SEDIMENT	SEDIMENT		SEDIMENT	SEDIMENT	
TESTED	04/15/97	07/01/97		04/16/97	06/30/97	
TEST_TIME	19:13	18:34		15:14	15:00	
Data Set	1	2		1	2	
Units	ppt	ppt	%RPD	ppt	ppt	%RPD
2,3,7,8-TCDD	4.3	4.5	4.5%			
1,2,3,7,8-PeCDD	0.58	ND				
1,2,3,4,7,8-HxCDD	1.1	ND				
1,2,3,6,7,8-HxCDD	3.2	4.8	40.0%			
1,2,3,7,8,9-HxCDD	2.6	ND				
1,2,3,4,6,7,8-HpCDD	90	99.8	10.3%			
1,2,3,4,6,7,8,9-OCDD	971	1080	10.6%			
2,3,7,8-TCDF	ND	ND		1	1.1	9.5%
1,2,3,7,8-PeCDF	ND	ND				
2,3,4,7,8-PeCDF	ND	ND				
1,2,3,4,7,8-HxCDF	2.7	3.5	25.8%			
1,2,3,6,7,8-HxCDF	0.91	ND				
2,3,4,6,7,8-HxCDF	1.2	ND				
1,2,3,7,8,9-HxCDF	ND	ND				
1,2,3,4,6,7,8-HpCDF	25	21	17.4%			
1,2,3,4,7,8,9-HpCDF	1.3	2	42.4%			
1,2,3,4,6,7,8,9-OCDF	54.1	73.3	30.1%			
Total TCDD	4.3	4.5	4.5%			
Total PeCDD	4	3.8	5.1%			
Total HxCDD	23.8	12.6	61.5%			
Total HpCDD	184	205	10.8%			
Total TCDF	8.3	7	17.0%			
Total PeCDF	9.4	3.9	82.7%			
Total HxCDF	33.9	25.1	29.8%			
Total HpCDF	75.6	65.6	14.2%			

BATCH_ID	41300B	41300B	
SAMP_ID	D3006D1P1	D3006D1P1	
LSAMP_ID	S972558	T974484	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/15/97	07/01/97	
TEST_TIME	16:14	15:35	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	0.59	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	0.42	ND	
1,2,3,7,8,9-HxCDD	0.5	ND	
1,2,3,4,6,7,8-HpCDD	8.8	10.7	19.5%
1,2,3,4,6,7,8,9-OCDD	67.4	66.7	1.0%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	0.3	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	0.5	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	1.7	2	16.2%
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	2.4	4	50.0%
Total TCDD	0.59	ND	
Total PeCDD	ND	ND	
Total HxCDD	3.1	ND	
Total HpCDD	8.8	22.3	86.8%
Total TCDF	0.33	ND	
Total PeCDF	0.82	ND	
Total HxCDF	1.1	ND	
Total HpCDF	3.2	4.3	29.3%

BATCH_ID	41300B	41300B	
SAMP_ID	D4001D1P1	D4001D1P1	
LSAMP_ID	S972561	T974487	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/15/97	07/01/97	
TEST_TIME	18:29	17:31	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	0.69	ND	
1,2,3,4,7,8-HxCDD	2.5	ND	
1,2,3,6,7,8-HxCDD	4.4	ND	
1,2,3,7,8,9-HxCDD	5.9	ND	
1,2,3,4,6,7,8-HpCDD	134	151	11.9%
1,2,3,4,6,7,8,9-OCDD	1380	1370	0.7%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	0.4	ND	
2,3,4,7,8-PeCDF	0.4	ND	
1,2,3,4,7,8-HxCDF	4.3	ND	
1,2,3,6,7,8-HxCDF	1.8	ND	
2,3,4,6,7,8-HxCDF	2.1	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	39.4	34.9	12.1%
1,2,3,4,7,8,9-HpCDF	2	ND	
1,2,3,4,6,7,8,9-OCDF	82.5	110	28.6%
Total TCDD	ND	ND	
Total PeCDD	0.68	ND	
Total HxCDD	53.5	12.5	124.2%
Total HpCDD	349	396	12.6%
Total TCDF	1.7	ND	
Total PeCDF	13.4	ND	
Total HxCDF	55.6	33.3	50.2%
Total HpCDF	91.4	79.6	13.8%

BATCH_ID	41300B	41300B	
SAMP_ID	D4002D1P1	D4002D1P1	
LSAMP_ID	S972560	T974486	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/15/97	07/01/97	
TEST_TIME	17:45	16:52	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	0.99	ND	
1,2,3,6,7,8-HxCDD	1.9	ND	
1,2,3,7,8,9-HxCDD	1.3	ND	
1,2,3,4,6,7,8-HpCDD	58.2	84.7	37.1%
1,2,3,4,6,7,8,9-OCDD	563	510	9.9%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	2.1	ND	
1,2,3,6,7,8-HxCDF	1.1	ND	
2,3,4,6,7,8-HxCDF	0.96	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	24.4	19	24.9%
1,2,3,4,7,8,9-HpCDF	1.2	ND	
1,2,3,4,6,7,8,9-OCDF	47.7	63.7	28.7%
Total TCDD	ND	ND	
Total PeCDD	1.2	ND	
Total HxCDD	10.7	ND	
Total HpCDD	153	84.7	57.5%
Total TCDF	1.1	ND	
Total PeCDF	10.3	ND	
Total HxCDF	40.3	24.8	47.6%
Total HpCDF	64.7	62.9	2.8%

BATCH_ID	41300B	41300B	
SAMP_ID	D4003D1P1	D4003D1P1	
LSAMP_ID	S972559	T974485	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/15/97	07/01/97	
TEST_TIME	16:57	16:14	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	1	1.6	46.2%
1,2,3,6,7,8-HxCDD	2.4	3.5	37.3%
1,2,3,7,8,9-HxCDD	1.9	3.8	66.7%
1,2,3,4,6,7,8-HpCDD	59	102	53.4%
1,2,3,4,6,7,8,9-OCDD	563	1010	56.8%
2,3,7,8-TCDF	ND	0.94	
1,2,3,7,8-PeCDF	0.45	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	2	3.1	43.1%
1,2,3,6,7,8-HxCDF	1.2	1.1	8.7%
2,3,4,6,7,8-HxCDF	1.2	1.5	22.2%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	23.8	19.9	17.8%
1,2,3,4,7,8,9-HpCDF	1.3	1.9	37.5%
1,2,3,4,6,7,8,9-OCDF	47.9	69.1	36.2%
Total TCDD	ND	ND	
Total PeCDD	1.5	ND	
Total HxCDD	21.1	34.1	47.1%
Total HpCDD	151	286	61.8%
Total TCDF	1	0.94	6.2%
Total PeCDF	13.6	10.7	23.9%
Total HxCDF	43.3	24.7	54.7%
Total HpCDF	41.5	63.3	41.6%

BATCH_ID	41300B	41300B	
SAMP_ID	TLI Sediment Blank	TLI Sediment Blank	
LSAMP_ID	S972557	T974494	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/15/97	07/01/97	
TEST_TIME	15:31	22:47	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	ND	0.44	
1,2,3,4,6,7,8,9-OCDD	0.54	2.4	126.5%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	0.39	0.45	14.3%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	ND	ND	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	ND	ND	
Total TCDD	ND	ND	
Total PeCDD	ND	ND	
Total HxCDD	ND	ND	
Total HpCDD	ND	0.44	
Total TCDF	ND	ND	
Total PeCDF	ND	ND	
Total HxCDF	0.39	0.45	14.3%
Total HpCDF	ND	ND	

BATCH_ID	41300C	41300C	
SAMP_ID	D3003W1P1	D3003W1P1	
LSAMP_ID	T972731	T974516	
SAMP_TYPE	Water	WATER	
TESTED	04/20/97	07/02/97	
TEST_TIME	16:29	15:26	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	24.7	ND	
1,2,3,4,6,7,8,9-OCDD	191	187	2.1%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	3	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	4.5	ND	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	12	ND	
Total TCDD	ND	ND	
Total PeCDD	ND	ND	
Total HxCDD	2.7	ND	
Total HpCDD	24.7	25.1	1.6%
Total TCDF	ND	ND	
Total PeCDF	ND	ND	
Total HxCDF	5.1	ND	
Total HpCDF	13.1	ND	

BATCH_ID	41300C	41300C	
SAMP_ID	D3005W1P1	D3005W1P1	
LSAMP_ID	T972730	T974515	
SAMP_TYPE	Water	WATER	
TESTED	04/20/97	07/02/97	
TEST_TIME	15:50	14:47	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	14	ND	
1,2,3,7,8,9-HxCDD	9.7	ND	
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	14	ND	
1,2,3,7,8,9-HxCDD	9.7	ND	
1,2,3,4,6,7,8-HpCDD	290	286	1.4%
1,2,3,4,6,7,8,9-OCDD	2160	2000	7.7%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	7.1	10.6	39.5%
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	4.8	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	44.6	46.9	5.0%
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	155	218	33.8%
Total TCDD	ND	14.2	
Total PeCDD	ND	ND	
Total HxCDD	71	53.9	27.4%
Total HpCDD	606	592	2.3%
Total TCDF	ND	ND	
Total PeCDF	11.1	ND	
Total HxCDF	72.3	48.6	39.2%
Total HpCDF	127	146	13.9%

BATCH_ID	41300C	41300C	
SAMP_ID	QADI101	QADI101	
LSAMP_ID	T972732	T974517	
SAMP_TYPE	Water	WATER	
TESTED	04/20/97	07/02/97	
TEST_TIME	17:04	16:05	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	ND	ND	
1,2,3,4,6,7,8,9-OCDD	ND	ND	
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	2.5	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	ND	ND	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	ND	ND	
Total TCDD	ND	ND	
Total PeCDD	ND	ND	
Total HxCDD	ND	ND	
Total HpCDD	ND	ND	
Total TCDF	ND	ND	
Total PeCDF	ND	ND	
Total HxCDF	2.5	ND	
Total HpCDF	ND	ND	

BATCH_ID	41300C	41300C	
SAMP_ID	QARI101	QARI101	
LSAMP_ID	T972733	T974518	
SAMP_TYPE	Water	WATER	
TESTED	04/20/97	07/02/97	
TEST_TIME	17:47	16:44	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	ND	ND	
1,2,3,4,6,7,8,9-OCDD	5	ND	
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	2.9	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	3.6	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	ND	ND	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	ND	ND	
Total TCDD	ND	ND	
Total PeCDD	ND	ND	
Total HxCDD	ND	ND	
Total HpCDD	ND	ND	
Total TCDF	ND	ND	
Total PeCDF	2.6	ND	
Total HxCDF	6.6	ND	
Total HpCDF	ND	ND	

BATCH_ID	41300C	41300C	
SAMP_ID	TLI LCS	TLI LCS	
LSAMP_ID	T972734	T974519	
SAMP_TYPE	Water	WATER	
TESTED	04/20/97	07/02/97	
TEST_TIME	18:34	17:29	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	360	328	9.3%
1,2,3,7,8-PeCDD	1780	1740	2.3%
1,2,3,4,7,8-HxCDD	1810	1690	6.9%
1,2,3,6,7,8-HxCDD	2070	1890	9.1%
1,2,3,7,8,9-HxCDD	2020	1830	9.9%
2,3,7,8-TCDD	360	328	9.3%
1,2,3,7,8-PeCDD	1780	1740	2.3%
1,2,3,4,7,8-HxCDD	1810	1690	6.9%
1,2,3,6,7,8-HxCDD	2070	1890	9.1%
1,2,3,7,8,9-HxCDD	2020	1830	9.9%
1,2,3,4,6,7,8-HpCDD	2120	2020	4.8%
1,2,3,4,6,7,8,9-OCDD	4140	4160	0.5%
2,3,7,8-TCDF	387	354	8.9%
1,2,3,7,8-PeCDF	1890	1830	3.2%
2,3,4,7,8-PeCDF	1570	1720	9.1%
1,2,3,4,7,8-HxCDF	1910	1740	9.3%
1,2,3,6,7,8-HxCDF	2140	1980	7.8%
2,3,4,6,7,8-HxCDF	2050	2010	2.0%
1,2,3,7,8,9-HxCDF	2090	2150	2.8%
1,2,3,4,6,7,8-HpCDF	1710	1670	2.4%
1,2,3,4,7,8,9-HpCDF	2420	2460	1.6%
1,2,3,4,6,7,8,9-OCDF	4240	4300	1.4%

BATCH_ID	41300D	41300D	
SAMP_ID	TLI LCSD	TLI LCSD	
LSAMP_ID	W971205	T974521	
SAMP_TYPE	WATER	WATER	
TESTED	04/20/97	07/02/97	
TEST_TIME	17:54	18:46	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	287	326	12.7%
1,2,3,7,8-PeCDD	1920	1730	10.4%
1,2,3,4,7,8-HxCDD	1870	1600	15.6%
1,2,3,6,7,8-HxCDD	1790	1880	4.9%
1,2,3,7,8,9-HxCDD	1810	1800	0.6%
2,3,7,8-TCDD	287	326	12.7%
1,2,3,7,8-PeCDD	1920	1730	10.4%
1,2,3,4,7,8-HxCDD	1870	1600	15.6%
1,2,3,6,7,8-HxCDD	1790	1880	4.9%
1,2,3,7,8,9-HxCDD	1810	1800	0.6%
1,2,3,4,6,7,8-HpCDD	1850	1940	4.7%
1,2,3,4,6,7,8,9-OCDD	3760	3990	5.9%
2,3,7,8-TCDF	351	353	0.6%
1,2,3,7,8-PeCDF	1970	1790	9.6%
2,3,4,7,8-PeCDF	1660	1640	1.2%
1,2,3,4,7,8-HxCDF	1830	1760	3.9%
1,2,3,6,7,8-HxCDF	1800	1930	7.0%
2,3,4,6,7,8-HxCDF	1800	1950	8.0%
1,2,3,7,8,9-HxCDF	1700	2140	22.9%
1,2,3,4,6,7,8-HpCDF	1830	1630	11.6%
1,2,3,4,7,8,9-HpCDF	1730	2340	30.0%
1,2,3,4,6,7,8,9-OCDF	3680	4280	15.1%

BATCH_ID	41300C	41300C	
SAMP_ID	TLI Water Blank	TLI Water Blank	
LSAMP_ID	T972729	T974508	
SAMP_TYPE	Water	WATER	
TESTED	04/20/97	07/02/97	
TEST_TIME	14:15	09:14	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	ND	ND	
1,2,3,4,6,7,8,9-OCDD	ND	ND	
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	ND	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	ND	ND	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	ND	ND	
Total TCDD	ND	ND	
Total PeCDD	ND	ND	
Total HxCDD	ND	ND	
Total HpCDD	ND	ND	
Total TCDF	ND	ND	
Total PeCDF	ND	ND	
Total HxCDF	ND	ND	
Total HpCDF	ND	ND	

BATCH_ID	41363D	41363D	
SAMP_ID	D1005W1P1	D1005W1P1	
LSAMP_ID	W971204	T974812	
SAMP_TYPE	WATER	WATER	
TESTED	04/20/97	07/13/97	
TEST_TIME	17:04	17:18	
Data Set	1	2	
Units	ppq	ppq	% RPD
2,3,7,8-TCDD	2.6	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
2,3,7,8-TCDD	2.6	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	16.3	ND	
1,2,3,4,6,7,8,9-OCDD	105	88.5	17.1%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	4.6	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	6.9	ND	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	25.6	23.4	9.0%
Total TCDD	2.6	ND	
Total PeCDD	ND	ND	
Total HxCDD	ND	ND	
Total HpCDD	38.1	20.7	59.2%
Total TCDF	ND	ND	
Total PeCDF	ND	ND	
Total HxCDF	6.6	ND	
Total HpCDF	6.9	ND	

BATCH_ID	41363D	41363D	
SAMP_ID	TLI LCSD	TLI LCSD	TLI Water Blan
LSAMP_ID	W971205	T974813	
SAMP_TYPE	WATER	WATER	
TESTED	04/20/97	07/13/97	
TEST_TIME	17:54	17:59	
Data Set	1	2	
Units	ppq	ppq	% RPD
2,3,7,8-TCDD	287	341	17.2%
1,2,3,7,8-PeCDD	1920	1930	0.5%
1,2,3,4,7,8-HxCDD	1870	1740	7.2%
1,2,3,6,7,8-HxCDD	1790	1860	3.8%
2,3,7,8-TCDD	287	341	17.2%
1,2,3,7,8-PeCDD	1920	1930	0.5%
1,2,3,4,7,8-HxCDD	1870	1740	7.2%
1,2,3,6,7,8-HxCDD	1790	1860	3.8%
1,2,3,7,8,9-HxCDD	1810	1820	0.6%
1,2,3,4,6,7,8-HpCDD	1850	1850	0.0%
1,2,3,4,6,7,8,9-OCDD	3760	3660	2.7%
2,3,7,8-TCDF	351	361	2.8%
1,2,3,7,8-PeCDF	1970	1850	6.3%
2,3,4,7,8-PeCDF	1660	1620	2.4%
1,2,3,4,7,8-HxCDF	1830	1860	1.6%
1,2,3,6,7,8-HxCDF	1800	1890	4.9%
2,3,4,6,7,8-HxCDF	1800	1960	8.5%
1,2,3,7,8,9-HxCDF	1700	2060	19.1%
1,2,3,4,6,7,8-HpCDF	1830	2010	9.4%
1,2,3,4,7,8,9-HpCDF	1730	2280	27.4%
1,2,3,4,6,7,8,9-OCDF	3680	3530	4.2%
Total TCDD			
Total PeCDD			
Total HxCDD			
Total HpCDD			
Total TCDF			
Total PeCDF			
Total HxCDF			
Total HpCDF			

BATCH_ID	41363C	41363C	
SAMP_ID	TLI Water Blank	TLI Water Blank	
LSAMP_ID	W971155	T974811	
SAMP_TYPE	WATER	WATER	
TESTED	04/17/97	07/13/97	
TEST_TIME	17:32	16:38	
Data Set	1	2	
Units	ppq	ppq	% RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	ND	1.8	
1,2,3,4,6,7,8,9-OCDD	ND	27.2	
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	ND	2.5	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	ND	ND	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	ND	ND	
Total TCDD	ND	ND	
Total PeCDD	ND	ND	
Total HxCDD	ND	ND	
Total HpCDD	ND	5.9	
Total TCDF	ND	ND	
Total PeCDF	ND	ND	
Total HxCDF	ND	2.5	
Total HpCDF	ND	ND	

BATCH_ID	41565Ar1	41565Ar1	
SAMP_ID	C1002D1P1	C1002D1P1	
LSAMP_ID	W971735	T974523	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	05/21/97	07/02/97	
TEST_TIME	16:59	20:12	
Data Set	1	2	
Units	ppt	ppt	% RPD
2,3,7,8-TCDD	3.1	ND	
1,2,3,7,8-PeCDD	0.85	ND	
1,2,3,4,7,8-HxCDD	1.4	ND	
1,2,3,6,7,8-HxCDD	3.2	ND	
1,2,3,7,8,9-HxCDD	5.1	ND	
1,2,3,4,6,7,8-HpCDD	86.6	85.8	0.9%
1,2,3,4,6,7,8,9-OCDD	1150	1340	15.3%
2,3,7,8-TCDF	0.78	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	14.2	17.8	22.5%
1,2,3,6,7,8-HxCDF	1.1	ND	
2,3,4,6,7,8-HxCDF	1.4	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	19.4	14.3	30.3%
1,2,3,4,7,8,9-HpCDF	2	ND	
1,2,3,4,6,7,8,9-OCDF	29.7	49.7	50.4%
Total TCDD	6.3	ND	
Total PeCDD	4.8	ND	
Total HxCDD	35.2	20.1	54.6%
Total HpCDD	181	186	2.7%
Total TCDF	13.2	ND	
Total PeCDF	35.8	5.7	145.1%
Total HxCDF	49.9	27.5	57.9%
Total HpCDF	47.8	46.7	2.3%

BATCH_ID	41565B	41565B	
SAMP_ID	L8016S1P1	L8016S1P1	
LSAMP_ID	W971627	T974539	
SAMP_TYPE	SOIL	SOIL	
TESTED	05/13/97	07/03/97	
TEST_TIME	20:44	07:58	
Data Set	1	2	
Units	ppt	ppt	% RPD
2,3,7,8-TCDD	91	83.5	8.6%
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	0.94	0.99	5.2%
1,2,3,6,7,8-HxCDD	1.4	1.5	6.9%
1,2,3,7,8,9-HxCDD	2.3	2	14.0%
1,2,3,4,6,7,8-HpCDD	51.2	53.8	5.0%
1,2,3,4,6,7,8,9-OCDD	451	463	2.6%
2,3,7,8-TCDF	1.3	1.4	7.4%
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	1	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	0.74	0.85	13.8%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	6.5	4.7	32.1%
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	16.8	20.2	18.4%
Total TCDD	93.1	83.5	10.9%
Total PeCDD	1.3	1.5	14.3%
Total HxCDD	33.9	31.9	6.1%
Total HpCDD	303	294	3.0%
Total TCDF	4.9	3.3	39.0%
Total PeCDF	10.5	11.9	12.5%
Total HxCDF	3.9	2.1	60.0%
Total HpCDF	6.5	16.7	87.9%

BATCH_ID	41565B	41565B		41565B	41565B
SAMP_ID	L8018S1P1	L8018S1P1		L8018S1P1	L8018S1P1
LSAMP_ID	W971625	T974537		X971353	X971917
SAMP_TYPE	SOIL	SOIL		SOIL	SOIL
TESTED	05/13/97	07/03/97		05/16/97	07/03/97
TEST_TIME	18:55	06:40		09:54	14:36
Data Set	1	2		1	2
Units	ppt	ppt	% RPD	ppt	ppt
2,3,7,8-TCDD	37.2	35.7	4.1%		
1,2,3,7,8-PeCDD	3.5	ND			
1,2,3,4,7,8-HxCDD	6	6.7	11.0%		
1,2,3,6,7,8-HxCDD	17.6	18.8	6.6%		
1,2,3,7,8,9-HxCDD	14.1	12	16.1%		
1,2,3,4,6,7,8-HpCDD	567	583	2.8%		
1,2,3,4,6,7,8,9-OCDD	4280	4520	5.5%		
2,3,7,8-TCDF				2.3	3.1
1,2,3,7,8-PeCDF	1.4	ND			
2,3,4,7,8-PeCDF	2.7	2.5	7.7%		
1,2,3,4,7,8-HxCDF	ND	21			
1,2,3,6,7,8-HxCDF	6.7	5.5	19.7%		
2,3,4,6,7,8-HxCDF	9	8.1	10.5%		
1,2,3,7,8,9-HxCDF	ND	ND			
1,2,3,4,6,7,8-HpCDF	161	134	18.3%		
1,2,3,4,7,8,9-HpCDF	ND	9.1			
1,2,3,4,6,7,8,9-OCDF	440	501	13.0%		
Total TCDD	38.3	35.7	7.0%		
Total PeCDD	11.4	11.7	2.6%		
Total HxCDD	165	147	11.5%		
Total HpCDD	1280	1290	0.8%		
Total TCDF	25.3	17.6	35.9%		
Total PeCDF	115	97.8	16.2%		
Total HxCDF	226	186	19.4%		
Total HpCDF	567	496	13.4%		

BATCH_ID	41565B	41565B		41565B	41565B	
SAMP_ID	L8021S1P1	L8021S1P1		L8021S1P1	L8021S1P1	
LSAMP_ID	W971618	T974534		X971351	X971915	
SAMP_TYPE	SOIL	SOIL		SOIL	SOIL	
TESTED	05/13/97	07/03/97		05/16/97	07/03/97	
TEST_TIME	13:33	04:44		08:26	12:32	
Data Set	1	2		1	2	
Units	ppt	ppt	% RPD	ppt	ppt	% RPD
2,3,7,8-TCDD	67.7	62.4	8.1%			
1,2,3,7,8-PeCDD	0.76	ND				
1,2,3,4,7,8-HxCDD	1.2	1.1	8.7%			
1,2,3,6,7,8-HxCDD	2.8	2.9	3.5%			
1,2,3,7,8,9-HxCDD	2.9	3	3.4%			
1,2,3,4,6,7,8-HpCDD	72.6	78	7.2%			
1,2,3,4,6,7,8,9-OCDD	704	735	4.3%			
2,3,7,8-TCDF				1.2	1.5	22.2%
1,2,3,7,8-PeCDF	ND	ND				
2,3,4,7,8-PeCDF	ND	1				
1,2,3,4,7,8-HxCDF	ND	2.7				
1,2,3,6,7,8-HxCDF	1.5	1.5	0.0%			
2,3,4,6,7,8-HxCDF	2.2	1.5	37.8%			
1,2,3,7,8,9-HxCDF	ND	ND				
1,2,3,4,6,7,8-HpCDF	34.2	25.3	29.9%			
1,2,3,4,7,8,9-HpCDF	ND	1				
1,2,3,4,6,7,8,9-OCDF	47.7	57.2	18.1%			
Total TCDD	69.7	64.4	7.9%			
Total PeCDD	1.8	3	50.0%			
Total HxCDD	37.8	33	13.6%			
Total HpCDD	229	238	3.9%			
Total TCDF	10.8	7.2	40.0%			
Total PeCDF	36	38.1	5.7%			
Total HxCDF	49.2	41.9	16.0%			
Total HpCDF	77.1	60	24.9%			

BATCH_ID	41565B	41565B	
SAMP_ID	L8022S1P1	L8022S1P1	
LSAMP_ID	W971626	T974538	
SAMP_TYPE	SOIL	SOIL	
TESTED	05/13/97	07/03/97	
TEST_TIME	19:57	07:19	
Data Set	1	2	
Units	ppt	ppt	% RPD
2,3,7,8-TCDD	4.9	4.6	6.3%
1,2,3,7,8-PeCDD	0.82	0.72	13.0%
1,2,3,4,7,8-HxCDD	1.9	1.6	17.1%
1,2,3,6,7,8-HxCDD	4.5	4.6	2.2%
1,2,3,7,8,9-HxCDD	4.7	4.2	11.2%
1,2,3,4,6,7,8-HpCDD	121	127	4.8%
1,2,3,4,6,7,8,9-OCDD	1290	1280	0.8%
2,3,7,8-TCDF	0.8	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	0.63	
1,2,3,4,7,8-HxCDF	ND	5.2	
1,2,3,6,7,8-HxCDF	ND	1.7	
2,3,4,6,7,8-HxCDF	2.2	2.5	12.8%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	38.7	31.3	21.1%
1,2,3,4,7,8,9-HpCDF	2.3	2.4	4.3%
1,2,3,4,6,7,8,9-OCDF	84	83.8	0.2%
Total TCDD	6.4	5.9	8.1%
Total PeCDD	2.6	3.4	26.7%
Total HxCDD	62.7	52.1	18.5%
Total HpCDD	337	353	4.6%
Total TCDF	2.2	1.2	58.8%
Total PeCDF	14.2	11	25.4%
Total HxCDF	44.8	40.4	10.3%
Total HpCDF	120	100	18.2%

BATCH_ID	41565B	41565B		41565B	41565B	
SAMP_ID	L8023S1P1	L8023S1P1		L8023S1P1	L8023S1P1	
LSAMP_ID	W971619	T974535		X971352	X971916	
SAMP_TYPE	SOIL	SOIL		SOIL	SOIL	
TESTED	05/13/97	07/03/97		05/16/97	07/03/97	
TEST_TIME	14:22	05:23		09:09	13:29	
Data Set	1	2		1	2	
Units	ppt	ppt	% RPD	ppt	ppt	% RPD
2,3,7,8-TCDD	39.6	38.5	2.8%			
1,2,3,7,8-PeCDD	1.9	1.8	5.4%			
1,2,3,4,7,8-HxCDD	4.6	3.6	24.4%			
1,2,3,6,7,8-HxCDD	12.9	12.9	0.0%			
1,2,3,7,8,9-HxCDD	9.1	7.7	16.7%			
1,2,3,4,6,7,8-HpCDD	337	340	0.9%			
1,2,3,4,6,7,8,9-OCDD	2490	2570	3.2%			
2,3,7,8-TCDF				1.7	2.9	52.2%
1,2,3,7,8-PeCDF	ND	ND				
2,3,4,7,8-PeCDF	ND	ND				
1,2,3,4,7,8-HxCDF	ND	10.7				
1,2,3,6,7,8-HxCDF	2.8	3.1	10.2%			
2,3,4,6,7,8-HxCDF	4.9	3.8	25.3%			
1,2,3,7,8,9-HxCDF	ND	ND				
1,2,3,4,6,7,8-HpCDF	108	85.7	23.0%			
1,2,3,4,7,8,9-HpCDF	4.9	5.9	18.5%			
1,2,3,4,6,7,8,9-OCDF	292	320	9.2%			
Total TCDD	41.2	38.5	6.8%			
Total PeCDD	6	4.1	37.6%			
Total HxCDD	94.1	82.2	13.5%			
Total HpCDD	650	669	2.9%			
Total TCDF	6.7	6.9	2.9%			
Total PeCDF	31.4	25.3	21.5%			
Total HxCDF	124	107	14.7%			
Total HpCDF	381	326	15.6%			

BATCH_ID	41565B	41565B	
SAMP_ID	L8024S1P1	L8024S1P1	
LSAMP_ID	W971620	T974536	
SAMP_TYPE	SOIL	SOIL	
TESTED	05/13/97	07/03/97	
TEST_TIME	15:09	06:02	
Data Set	1	2	
Units	ppt	ppt	% RPD
2,3,7,8-TCDD	8.7	7.5	14.8%
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	1.5	
1,2,3,7,8,9-HxCDD	1.6	1.2	28.6%
1,2,3,4,6,7,8-HpCDD	35.8	38.3	6.7%
1,2,3,4,6,7,8,9-OCDD	291	309	6.0%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	2.8	
1,2,3,6,7,8-HxCDF	0.98	0.79	21.5%
2,3,4,6,7,8-HxCDF	1.5	1	40.0%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	14.8	11.8	22.6%
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	22.4	24.8	10.2%
Total TCDD	8.7	7.5	14.8%
Total PeCDD	ND	ND	
Total HxCDD	14.5	11.9	19.7%
Total HpCDD	99.3	105	5.6%
Total TCDF	6.7	6.1	9.4%
Total PeCDF	24.4	22.1	9.9%
Total HxCDF	26.3	23.7	10.4%
Total HpCDF	37	29.6	22.2%

BATCH_ID	41565B	41565B		41565B	41565B	
SAMP_ID	L8025S1P1	L8025S1P1		L8025S1P1	L8025S1P1	
LSAMP_ID	W971628	T974540		X971355	X971918	
SAMP_TYPE	SOIL	SOIL		SOIL	SOIL	
TESTED	05/13/97	07/03/97		05/16/97	07/03/97	
TEST_TIME	21:28	08:37		11:21	15:21	
Data Set	1	2		1	2	
Units	ppt	ppt	% RPD	ppt	ppt	% RPD
2,3,7,8-TCDD	66	63	4.7%			
1,2,3,7,8-PeCDD	3.3	2.9	12.9%			
1,2,3,4,7,8-HxCDD	6.6	6	9.5%			
1,2,3,6,7,8-HxCDD	43.5	43.8	0.7%			
1,2,3,7,8,9-HxCDD	15.1	13.2	13.4%			
1,2,3,4,6,7,8-HpCDD	1920	2070	7.5%			
1,2,3,4,6,7,8,9-OCDD	22180	14400	42.5%			
2,3,7,8-TCDF				5.3	7.6	35.7%
1,2,3,7,8-PeCDF	ND	ND		ND		
2,3,4,7,8-PeCDF	ND	ND		ND		
1,2,3,4,7,8-HxCDF	ND	22.6		ND		
1,2,3,6,7,8-HxCDF	3.3	3.7	11.4%	ND		
2,3,4,6,7,8-HxCDF	4.1	ND		ND		
1,2,3,7,8,9-HxCDF	ND	ND		ND		
1,2,3,4,6,7,8-HpCDF	319	255	22.3%	ND		
1,2,3,4,7,8,9-HpCDF	14.6	13.8	5.6%	ND		
1,2,3,4,6,7,8,9-OCDF	1070	1230	13.9%	ND		
Total TCDD	71.6	67.3	6.2%	ND		
Total PeCDD	7	8	13.3%	ND		
Total HxCDD	227	204	10.7%	ND		
Total HpCDD	3630	3890	6.9%	ND		
Total TCDF	47.7	37.4	24.2%	ND		
Total PeCDF	112	97.9	13.4%	ND		
Total HxCDF	333	289	14.1%	ND		
Total HpCDF	1550	1250	21.4%	ND		

BATCH_ID	41565Ar1	41565Ar1		41565Ar1	41565Ar1	
SAMP_ID	WM002D1P1	WM002D1P1		WM002D1P1	WM002D1P1	
LSAMP_ID	W971736	T974524		U971492	X971914	
SAMP_TYPE	SEDIMENT	SEDIMENT		SEDIMENT	SEDIMENT	
TESTED	05/21/97	07/02/97		05/22/97	07/03/97	
TEST_TIME	17:41	20:51		00:17	11:40	
Data Set	1	2		1	2	
Units	ppt	ppt	% RPD	ppt	ppt	% RPD
2,3,7,8-TCDD	6.7	6.4	4.6%			
1,2,3,7,8-PeCDD	1.1	1.9	53.3%			
1,2,3,4,7,8-HxCDD	3.3	2.8	16.4%			
1,2,3,6,7,8-HxCDD	7.2	7.6	5.4%			
1,2,3,7,8,9-HxCDD	8.6	7.2	17.7%			
1,2,3,4,6,7,8-HpCDD	190	212	10.9%			
1,2,3,4,6,7,8,9-OCDD	1580	1840	15.2%			
2,3,7,8-TCDF				1.4	0.97	36.3%
1,2,3,7,8-PeCDF	0.44	0.7	45.6%			
2,3,4,7,8-PeCDF	0.78	0.85	8.6%			
1,2,3,4,7,8-HxCDF	5.6	5.3	5.5%			
1,2,3,6,7,8-HxCDF	2.4	2.5	4.1%			
2,3,4,6,7,8-HxCDF	2.5	2.2	12.8%			
1,2,3,7,8,9-HxCDF	ND	ND				
1,2,3,4,6,7,8-HpCDF	49.6	42.3	15.9%			
1,2,3,4,7,8,9-HpCDF	2.8	3.6	25.0%			
1,2,3,4,6,7,8,9-OCDF	106	156	38.2%			
Total TCDD	10.7	8	28.9%			
Total PeCDD	10.6	6.9	42.3%			
Total HxCDD	75.4	63.7	16.8%			
Total HpCDD	426	445	4.4%			
Total TCDF	10.8	3.6	100.0%			
Total PeCDF	25.6	17.1	39.8%			
Total HxCDF	75.4	60.7	21.6%			
Total HpCDF	131	133	1.5%			

BATCH_ID	41565C	41565C	
SAMP_ID	WM002W1P1	WM002W1P1	
LSAMP_ID	W971535	T974543	
SAMP_TYPE	WATER	WATER	
TESTED	05/08/97	07/03/97	
TEST_TIME	11:41	10:33	
Data Set	1	2	
Units	ppq	ppq	% RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	ND	ND	
1,2,3,4,6,7,8,9-OCDD	ND	29.3	
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	ND	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	ND	ND	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	ND	ND	
Total TCDD	ND	ND	
Total PeCDD	ND	ND	
Total HxCDD	ND	ND	
Total HpCDD	ND	ND	
Total TCDF	ND	ND	
Total PeCDF	ND	ND	
Total HxCDF	ND	ND	
Total HpCDF	ND	ND	

BATCH_ID	41565Ar1	41565Ar1	
SAMP_ID	WM004D1P1	WM004D1P1	
LSAMP_ID	W971741	T974525	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	05/21/97	07/02/97	
TEST_TIME	21:48	21:30	
Data Set	1	2	
Units	ppt	ppt	% RPD
2,3,7,8-TCDD	0.56	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	0.35	ND	
1,2,3,6,7,8-HxCDD	0.52	ND	
1,2,3,7,8,9-HxCDD	0.68	ND	
1,2,3,4,6,7,8-HpCDD	12.9	13	0.8%
1,2,3,4,6,7,8,9-OCDD	109	122	11.3%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	0.45	ND	
1,2,3,6,7,8-HxCDF	0.22	ND	
2,3,4,6,7,8-HxCDF	0.43	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	3.5	3.1	12.1%
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	5.8	7.1	20.2%
Total TCDD	0.99	ND	
Total PeCDD	0.5	ND	
Total HxCDD	7.7	3.5	75.0%
Total HpCDD	27.6	29.1	5.3%
Total TCDF	0.41	ND	
Total PeCDF	1.9	ND	
Total HxCDF	5.2	2.1	84.9%
Total HpCDF	9.3	8.7	6.7%

BATCH_ID	41565Ar1	41565Ar1	
SAMP_ID	WM005D1D1	WM005D1D1	
LSAMP_ID	W173901	T974527	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	05/21/97	07/02/97	
TEST_TIME	19:44	22:47	
Data Set	1	2	
Units	ppt	ppt	% RPD
2,3,7,8-TCDD	0.49	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	0.9	ND	
1,2,3,7,8,9-HxCDD	4	3.9	2.5%
1,2,3,4,6,7,8-HpCDD	31.3	34.2	8.9%
1,2,3,4,6,7,8,9-OCDD	555	603	8.3%
2,3,7,8-TCDF	0.21	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	ND	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	2.1	1.7	21.1%
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	2.8	3.3	16.4%
Total TCDD	3.3	3	9.5%
Total PeCDD	4.2	1.1	117.0%
Total HxCDD	36.7	19.7	60.3%
Total HpCDD	64	70	9.0%
Total TCDF	0.56	ND	
Total PeCDF	1.2	ND	
Total HxCDF	3	1.4	72.7%
Total HpCDF	4.3	4.1	4.8%

BATCH_ID	41565Ar1	41565Ar1	
SAMP_ID	WM005D1P1	WM005D1P1	
LSAMP_ID	W971738	T974526	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	05/21/97	07/02/97	
TEST_TIME	19:02	22:08	
Data Set	1	2	
Units	ppt	ppt	% RPD
2,3,7,8-TCDD	0.49	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	0.56	ND	
1,2,3,6,7,8-HxCDD	1.4	ND	
1,2,3,7,8,9-HxCDD	6.1	4.5	30.2%
1,2,3,4,6,7,8-HpCDD	44.8	49	9.0%
1,2,3,4,6,7,8,9-OCDD	847	926	8.9%
2,3,7,8-TCDF	0.42	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	0.31	ND	
1,2,3,6,7,8-HxCDF	0.23	ND	
2,3,4,6,7,8-HxCDF	0.58	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	2.3	2.3	0.0%
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	4.2	6	35.3%
Total TCDD	6.1	4.9	21.8%
Total PeCDD	6.8	ND	
Total HxCDD	53.6	8	148.1%
Total HpCDD	94.6	101	6.5%
Total TCDF	1.4	ND	
Total PeCDF	1.6	ND	
Total HxCDF	4.9	ND	
Total HpCDF	6.2	5.2	17.5%

BATCH_ID	41565Ar1	41565Ar1		41565Ar1	41565Ar1	
SAMP_ID	TLI LCS	TLI LCS		TLI LCSD	TLI LCSD	
LSAMP_ID	W173902	T974531		W971740	T974532	
SAMP_TYPE	SEDIMENT	SEDIMENT		SEDIMENT	SEDIMENT	
TESTED	05/21/97	07/03/97		05/21/97	07/03/97	
TEST_TIME	20:24	02:47		21:05	03:26	
Data Set	1	2		1	2	
Units	ppt	ppt	% RPD	ppt	ppt	% RPD
2,3,7,8-TCDD	39	36.9	5.5%	38.1	35.2	7.9%
1,2,3,7,8-PeCDD	188	186	1.1%	203	181	11.5%
1,2,3,4,7,8-HxCDD	210	167	22.8%	211	173	19.8%
1,2,3,6,7,8-HxCDD	192	214	10.8%	201	209	3.9%
1,2,3,7,8,9-HxCDD	203	199	2.0%	244	198	20.8%
1,2,3,4,6,7,8-HpCDD	198	207	4.4%	195	201	3.0%
1,2,3,4,6,7,8,9-OCDD	402	415	3.2%	393	416	5.7%
2,3,7,8-TCDF	36.6	41.5	12.5%	35.4	38.8	9.2%
1,2,3,7,8-PeCDF	223	214	4.1%	231	214	7.6%
2,3,4,7,8-PeCDF	202	215	6.2%	228	211	7.7%
1,2,3,4,7,8-HxCDF	214	201	6.3%	212	189	11.5%
1,2,3,6,7,8-HxCDF	217	229	5.4%	217	226	4.1%
2,3,4,6,7,8-HxCDF	234	208	11.8%	231	213	8.1%
1,2,3,7,8,9-HxCDF	218	219	0.5%	224	206	8.4%
1,2,3,4,6,7,8-HpCDF	247	201	20.5%	246	207	17.2%
1,2,3,4,7,8,9-HpCDF	220	223	1.4%	208	228	9.2%
1,2,3,4,6,7,8,9-OCDF	331	383	14.6%	320	380	17.1%
Total TCDD						
Total PeCDD						
Total HxCDD						
Total HpCDD						
Total TCDF						
Total PeCDF						
Total HxCDF						
Total HpCDF						

BATCH_ID	41565Ar1	41565Ar1	
SAMP_ID	TLI Sediment Blank	TLI Sediment Blank	
LSAMP_ID	W971734	T974522	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	05/21/97	07/02/97	
TEST_TIME	16:15	19:33	
Data Set	1	2	
Units	ppt	ppt	% RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	ND	ND	
1,2,3,4,6,7,8,9-OCDD	ND	ND	
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	0.53	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	ND	ND	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	ND	ND	
Total TCDD	ND	ND	
Total PeCDD	ND	ND	
Total HxCDD	ND	ND	
Total HpCDD	ND	ND	
Total TCDF	ND	ND	
Total PeCDF	ND	ND	
Total HxCDF	0.53	ND	
Total HpCDF	ND	ND	

BATCH_ID	41565B	41565B	
SAMP_ID	TLI Sediment Blank	TLI Sediment Blank	
LSAMP_ID	W971588	T974533	
SAMP_TYPE	SOIL	SOIL	
TESTED	05/12/97	07/03/97	
TEST_TIME	11:53	04:05	
Data Set	1	2	
Units	ppt	ppt	% RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	ND	ND	
1,2,3,4,6,7,8,9-OCDD	ND	ND	
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	ND	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	ND	ND	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	ND	ND	
Total TCDD	ND	ND	
Total PeCDD	ND	ND	
Total HxCDD	ND	ND	
Total HpCDD	ND	ND	
Total TCDF	ND	ND	
Total PeCDF	ND	ND	
Total HxCDF	ND	ND	
Total HpCDF	ND	ND	

BATCH_ID	41565C	41565C	
SAMP_ID	TLI Water Blank	TLI Water Blank	
LSAMP_ID	W971527	T974542	
SAMP_TYPE	WATER	WATER	
TESTED	05/08/97	07/03/97	
TEST_TIME	04:13	09:55	
Data Set	1	2	
Units	ppq	ppq	% RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	ND	ND	
1,2,3,4,6,7,8,9-OCDD	ND	7	
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	ND	5.4	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	ND	ND	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	ND	ND	
Total TCDD	ND	ND	
Total PeCDD	ND	ND	
Total HxCDD	ND	ND	
Total HpCDD	ND	ND	
Total TCDF	ND	ND	
Total PeCDF	ND	2.2	
Total HxCDF	ND	5.4	
Total HpCDF	ND	ND	

BATCH_ID	41565B	41565B	
SAMP_ID	CleanUp Blk	CleanUp Blk	
LSAMP_ID	W971629	T974541	
SAMP_TYPE	SOIL	SOIL	
TESTED	05/13/97	07/03/97	
TEST_TIME	22:11	09:16	
Data Set	1	2	
Units	ppt	ppt	% RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	ND	ND	
1,2,3,4,6,7,8,9-OCDD	2.5	4.3	52.9%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	ND	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	ND	ND	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	ND	ND	
Total TCDD	ND	ND	
Total PeCDD	ND	ND	
Total HxCDD	ND	ND	
Total HpCDD	ND	ND	
Total TCDF	ND	ND	
Total PeCDF	ND	ND	
Total HxCDF	ND	ND	
Total HpCDF	ND	ND	

BATCH_ID	41574B	41574B	
SAMP_ID	L8013S1D1	L8013S1D1	
LSAMP_ID	W971504	T974632	
SAMP_TYPE	SOIL	SOIL	
TESTED	05/07/97	07/07/97	
TEST_TIME	09:43	13:14	
Data Set	1	2	
Units	ppt	ppt	% RPD
2,3,7,8-TCDD	ND	1.7	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	0.59	
1,2,3,7,8,9-HxCDD	ND	0.38	
1,2,3,4,6,7,8-HpCDD	12.8	13.7	6.8%
1,2,3,4,6,7,8,9-OCDD	313	335	6.8%
2,3,7,8-TCDF	ND	0.71	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	0.46	
1,2,3,4,7,8-HxCDF	ND	2.8	
1,2,3,6,7,8-HxCDF	0.69	0.71	2.9%
2,3,4,6,7,8-HxCDF	2.9	2.6	10.9%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	10.3	11	6.6%
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	9.5	9.5	0.0%
Total TCDD	ND	1.7	
Total PeCDD	ND	1.3	
Total HxCDD	2.2	3.2	37.0%
Total HpCDD	30.2	29.4	2.7%
Total TCDF	2.2	4.1	60.3%
Total PeCDF	36.9	33.8	8.8%
Total HxCDF	31	29.2	6.0%
Total HpCDF	10.3	22	72.4%

BATCH_ID	41574B	41574B	
SAMP_ID	L8013S1P1	L8013S1P1	
LSAMP_ID	W971502	T974609	
SAMP_TYPE	SOIL	SOIL	
TESTED	05/07/97	07/05/97	
TEST_TIME	08:21	21:41	
Data Set	1	2	
Units	ppt	ppt	% RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	12.5	12.2	2.4%
1,2,3,4,6,7,8,9-OCDD	293	345	16.3%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	0.69	ND	
2,3,4,6,7,8-HxCDF	2.4	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	ND	8.6	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	ND	ND	
Total TCDD	ND	ND	
Total PeCDD	ND	ND	
Total HxCDD	2.3	ND	
Total HpCDD	29.5	12.2	83.0%
Total TCDF	2.1	ND	
Total PeCDF	30.8	28.9	6.4%
Total HxCDF	28.9	9.9	97.9%
Total HpCDF	9.9	8.6	14.1%

BATCH_ID	41574B	41574B		41574B	41574B	
SAMP_ID	L8027S1P1	L8027S1P1		L8027S1P1	L8027S1P1	
LSAMP_ID	W971507	T974635		X971303	X972142	
SAMP_TYPE	SOIL	SOIL		SOIL	SOIL	
TESTED	05/07/97	07/07/97		05/13/97	07/14/97	
TEST_TIME	11:55	15:10		11:04	11:04	
Data Set	1	2		1	2	
Units	ppt	ppt	% RPD	ppt	ppt	% RPD
2,3,7,8-TCDD	ND	2				
1,2,3,7,8-PeCDD	ND	ND				
1,2,3,4,7,8-HxCDD	1.5	1.2	22.2%			
1,2,3,6,7,8-HxCDD	2.9	2.8	3.5%			
1,2,3,7,8,9-HxCDD	2.4	2.6	8.0%			
1,2,3,4,6,7,8-HpCDD	74	80.3	8.2%			
1,2,3,4,6,7,8,9-OCDD	549	585	6.3%			
2,3,7,8-TCDF				0.7	1.2	52.6%
1,2,3,7,8-PeCDF	ND	ND				
2,3,4,7,8-PeCDF	0.64	ND				
1,2,3,4,7,8-HxCDF	3.7	3.2	14.5%			
1,2,3,6,7,8-HxCDF	1	ND				
2,3,4,6,7,8-HxCDF	2.5	2.2	12.8%			
1,2,3,7,8,9-HxCDF	ND	ND				
1,2,3,4,6,7,8-HpCDF	21.5	22.7	5.4%			
1,2,3,4,7,8,9-HpCDF	1.4	0.88	45.6%			
1,2,3,4,6,7,8,9-OCDF	32.9	32.8	0.3%			
Total TCDD	ND	1.6				
Total PeCDD	0.74	2.3	102.6%			
Total HxCDD	26	25.4	2.3%			
Total HpCDD	151	163	7.6%			
Total TCDF	2.4	5	70.3%			
Total PeCDF	16.7	16	4.3%			
Total HxCDF	37.6	29.4	24.5%			
Total HpCDF	56.3	56.6	0.5%			

BATCH_ID	41574B	41574B	
SAMP_ID	L8029S1P1	L8029S1P1	
LSAMP_ID	W971512	T974637	
SAMP_TYPE	SOIL	SOIL	
TESTED	05/07/97	07/07/97	
TEST_TIME	16:04	16:28	
Data Set	1	2	
Units	ppt	ppt	% RPD
2,3,7,8-TCDD	5.7	6.1	6.8%
1,2,3,7,8-PeCDD	ND	0.86	
1,2,3,4,7,8-HxCDD	3.5	2.8	22.2%
1,2,3,6,7,8-HxCDD	8.1	7.9	2.5%
1,2,3,7,8,9-HxCDD	5.6	5.2	7.4%
1,2,3,4,6,7,8-HpCDD	219	244	10.8%
1,2,3,4,6,7,8,9-OCDD	1670	1850	10.2%
2,3,7,8-TCDF	ND	0.58	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	0.65	
1,2,3,4,7,8-HxCDF	ND	7.9	
1,2,3,6,7,8-HxCDF	3.2	3	6.5%
2,3,4,6,7,8-HxCDF	5.9	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	94.1	102	8.1%
1,2,3,4,7,8,9-HpCDF	ND	2.7	
1,2,3,4,6,7,8,9-OCDF	167	168	0.6%
Total TCDD	5.7	6.1	6.8%
Total PeCDD	ND	1.4	
Total HxCDD	69.5	63.9	8.4%
Total HpCDD	562	608	7.9%
Total TCDF	3.6	6.1	51.5%
Total PeCDF	43.6	42	3.7%
Total HxCDF	124	110	12.0%
Total HpCDF	241	251	4.1%

BATCH_ID	41574B	41574B	
SAMP_ID	L8030S1P1	L8030S1P1	
LSAMP_ID	W971511	T974636	
SAMP_TYPE	SOIL	SOIL	
TESTED	05/07/97	07/07/97	
TEST_TIME	15:22	15:49	
Data Set	1	2	
Units	ppt	ppt	% RPD
2,3,7,8-TCDD	ND	0.78	
1,2,3,7,8-PeCDD	ND	0.54	
1,2,3,4,7,8-HxCDD	1.9	1.7	11.1%
1,2,3,6,7,8-HxCDD	10.2	9.9	3.0%
1,2,3,7,8,9-HxCDD	4.2	3.5	18.2%
1,2,3,4,6,7,8-HpCDD	431	486	12.0%
1,2,3,4,6,7,8,9-OCDD	4780	5200	8.4%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	15.5	
1,2,3,6,7,8-HxCDF	1.3	1.4	7.4%
2,3,4,6,7,8-HxCDF	2.5	2.3	8.3%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	108	111	2.7%
1,2,3,4,7,8,9-HpCDF	5.6	5.6	0.0%
1,2,3,4,6,7,8,9-OCDF	802	875	8.7%
Total TCDD	ND	0.78	
Total PeCDD	ND	0.54	
Total HxCDD	47.3	42.4	10.9%
Total HpCDD	706	790	11.2%
Total TCDF	ND	0.88	
Total PeCDF	8	6.5	20.7%
Total HxCDF	93.7	93	0.7%
Total HpCDF	714	692	3.1%

BATCH_ID	41574B	41574B	
SAMP_ID	L8033S1P1	L8033S1P1	
LSAMP_ID	W971513	T974638	
SAMP_TYPE	SOIL	SOIL	
TESTED	05/07/97	07/07/97	
TEST_TIME	16:52	17:07	
Data Set	1	2	
Units	ppt	ppt	% RPD
2,3,7,8-TCDD	2	2.4	18.2%
1,2,3,7,8-PeCDD	ND	1.2	
1,2,3,4,7,8-HxCDD	2.9	2.6	10.9%
1,2,3,6,7,8-HxCDD	9.7	10.2	5.0%
1,2,3,7,8,9-HxCDD	8.1	7.3	10.4%
1,2,3,4,6,7,8-HpCDD	193	216	11.2%
1,2,3,4,6,7,8,9-OCDD	1200	1320	9.5%
2,3,7,8-TCDF	ND	0.88	
1,2,3,7,8-PeCDF	0.53	ND	
2,3,4,7,8-PeCDF	ND	0.56	
1,2,3,4,7,8-HxCDF	ND	8.2	
1,2,3,6,7,8-HxCDF	2.8	3	6.9%
2,3,4,6,7,8-HxCDF	6.2	5.8	6.7%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	97.1	104	6.9%
1,2,3,4,7,8,9-HpCDF	ND	2.9	
1,2,3,4,6,7,8,9-OCDF	133	134	0.7%
Total TCDD	2	2.4	18.2%
Total PeCDD	7	5.2	29.5%
Total HxCDD	69.2	65.2	6.0%
Total HpCDD	377	412	8.9%
Total TCDF	5.7	6	5.1%
Total PeCDF	39.6	15.8	85.9%
Total HxCDF	112	107	4.6%
Total HpCDF	234	232	0.9%

BATCH_ID	41574C	41574C	
SAMP_ID	QAR1104	QAR1104	
LSAMP_ID	W971552	T974725	
SAMP_TYPE	WATER	WATER	
TESTED	05/09/97	07/10/97	
TEST_TIME	01:29	13:42	
Data Set	1	2	
Units	ppq	ppq	% RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	ND	ND	
1,2,3,4,6,7,8,9-OCDD	ND	ND	
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	ND	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	ND	ND	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	ND	ND	
Total TCDD	ND	ND	
Total PeCDD	ND	ND	
Total HxCDD	ND	ND	
Total HpCDD	ND	ND	
Total TCDF	ND	ND	
Total PeCDF	ND	ND	
Total HxCDF	ND	ND	
Total HpCDF	ND	ND	

BATCH_ID	41574A	41574A	
SAMP_ID	TC001D1P1	TC001D1P1	
LSAMP_ID	W971516	T974616	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	05/07/97	07/06/97	
TEST_TIME	19:25	23:40	
Data Set	1	2	
Units	ppt	ppt	% RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	0.62	ND	
1,2,3,4,7,8-HxCDD	1.2	0.72	50.0%
1,2,3,6,7,8-HxCDD	1.8	1.6	11.8%
1,2,3,7,8,9-HxCDD	8.2	8.1	1.2%
1,2,3,4,6,7,8-HpCDD	48.8	51.2	4.8%
1,2,3,4,6,7,8,9-OCDD	614	632	2.9%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	0.25	
2,3,4,6,7,8-HxCDF	0.54	0.37	37.4%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	ND	ND	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	ND	ND	
Total TCDD	10.2	10.2	0.0%
Total PeCDD	26.1	23.8	9.2%
Total HxCDD	174	144	18.9%
Total HpCDD	229	232	1.3%
Total TCDF	0.48	1.3	92.1%
Total PeCDF	ND	ND	
Total HxCDF	0.54	0.62	13.8%
Total HpCDF	ND	ND	

BATCH_ID	41574A	41574A	
SAMP_ID	TC002D1P1	TC002D1P1	
LSAMP_ID	W971517	T974631	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	05/07/97	07/07/97	
TEST_TIME	20:08	12:14	
Data Set	1	2	
Units	ppt	ppt	% RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	2.6	2.3	12.2%
1,2,3,4,6,7,8-HpCDD	11.5	12.4	7.5%
1,2,3,4,6,7,8,9-OCDD	143	152	6.1%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	0.64	0.37	53.5%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	ND	0.5	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	0.69	ND	
Total TCDD	0.64	1.2	60.9%
Total PeCDD	1.3	3	79.1%
Total HxCDD	17.8	11.9	39.7%
Total HpCDD	29.7	29.8	0.3%
Total TCDF	ND	ND	
Total PeCDF	ND	ND	
Total HxCDF	0.64	0.66	3.1%
Total HpCDF	ND	1.4	

BATCH_ID	41574C	41574C	
SAMP_ID	TC002W1P1	TC002W1P1	
LSAMP_ID	W971551	T974724	
SAMP_TYPE	WATER	WATER	
TESTED	05/09/97	07/10/97	
TEST_TIME	00:46	13:02	
Data Set	1	2	
Units	ppq	ppq	% RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	ND	11.5	
1,2,3,4,6,7,8,9-OCDD	160	174	8.4%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	ND	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	ND	ND	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	ND	ND	
Total TCDD	ND	ND	
Total PeCDD	ND	ND	
Total HxCDD	ND	ND	
Total HpCDD	ND	11.5	
Total TCDF	ND	ND	
Total PeCDF	ND	ND	
Total HxCDF	ND	ND	
Total HpCDF	ND	ND	

BATCH_ID	41574B	41574B		41574B	41574B	
SAMP_ID	L8013S1MD	L8013S1MD		L8013S1MS	L8013S1MS	
LSAMP_ID	W971506	T974634		W971505	T974633	
SAMP_TYPE	SOIL	SOIL		SOIL	SOIL	
TESTED	05/07/97	07/07/97		05/07/97	07/07/97	
TEST_TIME	11:12	14:31		10:29	13:52	
Data Set	1	2		1	2	
Units	ppt	ppt	% RPD	ppt	ppt	% RPD
2,3,7,8-TCDD	37.5	37.5	0.0%	32.7	35.4	7.9%
1,2,3,7,8-PeCDD	182	165	9.8%	171	157	8.5%
1,2,3,4,7,8-HxCDD	181	185	2.2%	184	180	2.2%
1,2,3,6,7,8-HxCDD	173	179	3.4%	164	178	8.2%
1,2,3,7,8,9-HxCDD	173	157	9.7%	166	170	2.4%
1,2,3,4,6,7,8-HpCDD	189	206	8.6%	181	202	11.0%
1,2,3,4,6,7,8,9-OCDD	776	820	5.5%	657	701	6.5%
2,3,7,8-TCDF	34.3	35.7	4.0%	34.1	35.7	4.6%
1,2,3,7,8-PeCDF	188	174	7.7%	185	170	8.5%
2,3,4,7,8-PeCDF	180	159	12.4%	168	153	9.3%
1,2,3,4,7,8-HxCDF	185	201	8.3%	176	185	5.0%
1,2,3,6,7,8-HxCDF	172	191	10.5%	170	183	7.4%
2,3,4,6,7,8-HxCDF	177	181	2.2%	176	177	0.6%
1,2,3,7,8,9-HxCDF	183	187	2.2%	184	182	1.1%
1,2,3,4,6,7,8-HpCDF	192	198	3.1%	194	199	2.5%
1,2,3,4,7,8,9-HpCDF	215	217	0.9%	185	190	2.7%
1,2,3,4,6,7,8,9-OCDF	400	404	1.0%	378	371	1.9%
Total TCDD						
Total PeCDD						
Total HxCDD						
Total HpCDD						
Total TCDF						
Total PeCDF						
Total HxCDF						
Total HpCDF						

BATCH_ID	41574B	41574B		41574B	41574B	
SAMP_ID	TLI LCS	TLI LCS		TLI LCSD	TLI LCSD	
LSAMP_ID	W971514	T974679		W971518	T974680	
SAMP_TYPE	SOIL	SOIL		SOIL	SOIL	
TESTED	05/07/97	07/09/97		05/07/97	07/09/97	
TEST_TIME	17:36	03:55		20:50	04:35	
Data Set	1	2		1	2	
Units	ppt	ppt	% RPD	ppt	ppt	% RPD
2,3,7,8-TCDD	31	34.2	9.8%	29.7	33.8	12.9%
1,2,3,7,8-PeCDD	175	165	5.9%	175	162	7.7%
1,2,3,4,7,8-HxCDD	175	177	1.1%	168	165	1.8%
1,2,3,6,7,8-HxCDD	160	191	17.7%	158	181	13.6%
1,2,3,7,8,9-HxCDD	179	176	1.7%	175	164	6.5%
1,2,3,4,6,7,8-HpCDD	172	185	7.3%	164	179	8.7%
1,2,3,4,6,7,8,9-OCDD	369	387	4.8%	353	383	8.2%
2,3,7,8-TCDF	32.6	35.5	8.5%	33.8	35.3	4.3%
1,2,3,7,8-PeCDF	179	177	1.1%	181	181	0.0%
2,3,4,7,8-PeCDF	164	158	3.7%	170	164	3.6%
1,2,3,4,7,8-HxCDF	174	182	4.5%	202	179	12.1%
1,2,3,6,7,8-HxCDF	169	184	8.5%	194	187	3.7%
2,3,4,6,7,8-HxCDF	190	183	3.8%	218	184	16.9%
1,2,3,7,8,9-HxCDF	193	191	1.0%	230	191	18.5%
1,2,3,4,6,7,8-HpCDF	179	156	13.7%	203	160	23.7%
1,2,3,4,7,8,9-HpCDF	195	198	1.5%	214	191	11.4%
1,2,3,4,6,7,8,9-OCDF	355	412	14.9%	340	390	13.7%
Total TCDD						
Total PeCDD						
Total HxCDD						
Total HpCDD						
Total TCDF						
Total PeCDF						
Total HxCDF						
Total HpCDF						

BATCH_ID	41574B	41574B	
SAMP_ID	TLI Soil Blank	TLI Soil Blank	
LSAMP_ID	W971501	T974606	
SAMP_TYPE	SOIL	SOIL	
TESTED	05/07/97	07/05/97	
TEST_TIME	07:38	19:45	
Data Set	1	2	
Units	ppt	ppt	% RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	ND	ND	
1,2,3,4,6,7,8,9-OCDD	ND	0.79	
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	ND	0.46	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	ND	ND	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	ND	ND	
Total TCDD	ND	ND	
Total PeCDD	ND	ND	
Total HxCDD	ND	ND	
Total HpCDD	ND	ND	
Total TCDF	ND	ND	
Total PeCDF	ND	ND	
Total HxCDF	ND	0.46	
Total HpCDF	ND	ND	

BATCH_ID	41574C	41574C
SAMP_ID	TLI Water Blank	TLI Water Blank
LSAMP_ID	W971550	T974723
SAMP_TYPE	WATER	WATER
TESTED	05/09/97	07/10/97
TEST_TIME	00:00	12:22
Data Set	1	2
Units	ppq	ppq
2,3,7,8-TCDD	ND	ND
1,2,3,7,8-PeCDD	ND	ND
1,2,3,4,7,8-HxCDD	ND	ND
1,2,3,6,7,8-HxCDD	ND	ND
1,2,3,7,8,9-HxCDD	ND	ND
1,2,3,4,6,7,8-HpCDD	ND	ND
1,2,3,4,6,7,8,9-OCDD	ND	ND
2,3,7,8-TCDF	ND	ND
1,2,3,7,8-PeCDF	ND	ND
2,3,4,7,8-PeCDF	ND	ND
1,2,3,4,7,8-HxCDF	ND	ND
1,2,3,6,7,8-HxCDF	ND	ND
2,3,4,6,7,8-HxCDF	ND	ND
1,2,3,7,8,9-HxCDF	ND	ND
1,2,3,4,6,7,8-HpCDF	ND	ND
1,2,3,4,7,8,9-HpCDF	ND	ND
1,2,3,4,6,7,8,9-OCDF	ND	ND
Total TCDD	ND	ND
Total PeCDD	ND	ND
Total HxCDD	ND	ND
Total HpCDD	ND	ND
Total TCDF	ND	ND
Total PeCDF	ND	ND
Total HxCDF	ND	ND
Total HpCDF	ND	ND

BATCH_ID	41348A	41348A	
SAMP_ID	D1006D1P1	D1006D1P1	
LSAMP_ID	P971961	X971859	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/25/97	06/30/97	
TEST_TIME	12:46	22:01	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD			
1,2,3,7,8-PeCDD			
1,2,3,4,7,8-HxCDD			
1,2,3,6,7,8-HxCDD			
1,2,3,7,8,9-HxCDD			
1,2,3,4,6,7,8-HpCDD			
1,2,3,4,6,7,8,9-OCDD			
2,3,7,8-TCDF	1.5	1.7	12.5%
1,2,3,7,8-PeCDF			
2,3,4,7,8-PeCDF			
1,2,3,4,7,8-HxCDF			
1,2,3,6,7,8-HxCDF			
2,3,4,6,7,8-HxCDF			
1,2,3,7,8,9-HxCDF			
1,2,3,4,6,7,8-HpCDF			
1,2,3,4,7,8,9-HpCDF			
1,2,3,4,6,7,8,9-OCDF			
Total TCDD			
Total PeCDD			
Total HxCDD			
Total HpCDD			
Total TCDF			
Total PeCDF			
Total HxCDF			
Total HpCDF			

BATCH_ID	41348A	41348A	
SAMP_ID	D1008D1P1	D1008D1P1	
LSAMP_ID	P971962	X971858	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/25/97	06/30/97	
TEST_TIME	13:35	21:19	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD			
1,2,3,7,8-PeCDD			
1,2,3,4,7,8-HxCDD			
1,2,3,6,7,8-HxCDD			
1,2,3,7,8,9-HxCDD			
1,2,3,4,6,7,8-HpCDD			
1,2,3,4,6,7,8,9-OCDD			
2,3,7,8-TCDF	3.3	3.3	0.0%
1,2,3,7,8-PeCDF			
2,3,4,7,8-PeCDF			
1,2,3,4,7,8-HxCDF			
1,2,3,6,7,8-HxCDF			
2,3,4,6,7,8-HxCDF			
1,2,3,7,8,9-HxCDF			
1,2,3,4,6,7,8-HpCDF			
1,2,3,4,7,8,9-HpCDF			
1,2,3,4,6,7,8,9-OCDF			
Total TCDD			
Total PeCDD			
Total HxCDD			
Total HpCDD			
Total TCDF			
Total PeCDF			
Total HxCDF			
Total HpCDF			

BATCH_ID	41348B	41348B	
SAMP_ID	D1008S1P1	D1008S1P1	
LSAMP_ID	X971085	X972195	
SAMP_TYPE	SOIL	SOIL	
TESTED	04/25/97	07/16/97	
TEST_TIME	20:20	13:18	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD			
1,2,3,7,8-PeCDD			
1,2,3,4,7,8-HxCDD			
1,2,3,6,7,8-HxCDD			
1,2,3,7,8,9-HxCDD			
1,2,3,4,6,7,8-HpCDD			
1,2,3,4,6,7,8,9-OCDD			
2,3,7,8-TCDF	1.8	ND	
1,2,3,7,8-PeCDF			
2,3,4,7,8-PeCDF			
1,2,3,4,7,8-HxCDF			
1,2,3,6,7,8-HxCDF			
2,3,4,6,7,8-HxCDF			
1,2,3,7,8,9-HxCDF			
1,2,3,4,6,7,8-HpCDF			
1,2,3,4,7,8,9-HpCDF			
1,2,3,4,6,7,8,9-OCDF			
Total TCDD			
Total PeCDD			
Total HxCDD			
Total HpCDD			
Total TCDF			
Total PeCDF			
Total HxCDF			
Total HpCDF			

BATCH_ID	41348A	41348A		
SAMP_ID	D1009D1P1	D1009D1P1		D1010D1P
LSAMP_ID	P971967	X971857		
SAMP_TYPE	SEDIMENT	SEDIMENT		SEDIMENT
TESTED	04/25/97	06/30/97		
TEST_TIME	17:28	20:32		
Data Set	1	2		
Units	ppt	ppt	%RPD	
2,3,7,8-TCDD				
1,2,3,7,8-PeCDD				
1,2,3,4,7,8-HxCDD				
1,2,3,6,7,8-HxCDD				
1,2,3,7,8,9-HxCDD				
1,2,3,4,6,7,8-HpCDD				
1,2,3,4,6,7,8,9-OCDD				
2,3,7,8-TCDF	4.6	4.9	6.3%	
1,2,3,7,8-PeCDF				
2,3,4,7,8-PeCDF				
1,2,3,4,7,8-HxCDF				
1,2,3,6,7,8-HxCDF				
2,3,4,6,7,8-HxCDF				
1,2,3,7,8,9-HxCDF				
1,2,3,4,6,7,8-HpCDF				
1,2,3,4,7,8,9-HpCDF				
1,2,3,4,6,7,8,9-OCDF				
Total TCDD				
Total PeCDD				
Total HxCDD				
Total HpCDD				
Total TCDF				
Total PeCDF				
Total HxCDF				
Total HpCDF				

BATCH_ID	41348A	41348A	
SAMP_ID	D1010D1P1	D1010D1P1	
LSAMP_ID	P971964	X971860	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/25/97	06/30/97	
TEST_TIME	15:08	22:48	
Data Set		2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD			
1,2,3,7,8-PeCDD			
1,2,3,4,7,8-HxCDD			
1,2,3,6,7,8-HxCDD			
1,2,3,7,8,9-HxCDD			
1,2,3,4,6,7,8-HpCDD			
1,2,3,4,6,7,8,9-OCDD			
2,3,7,8-TCDF	20.4	21.5	5.3%
1,2,3,7,8-PeCDF			
2,3,4,7,8-PeCDF			
1,2,3,4,7,8-HxCDF			
1,2,3,6,7,8-HxCDF			
2,3,4,6,7,8-HxCDF			
1,2,3,7,8,9-HxCDF			
1,2,3,4,6,7,8-HpCDF			
1,2,3,4,7,8,9-HpCDF			
1,2,3,4,6,7,8,9-OCDF			
Total TCDD			
Total PeCDD			
Total HxCDD			
Total HpCDD			
Total TCDF			
Total PeCDF			
Total HxCDF			
Total HpCDF			

BATCH_ID	41348B	41348B	
SAMP_ID	D1010S1P1	D1010S1P1	
LSAMP_ID	X971084	X971867	
SAMP_TYPE	SOIL	SOIL	
TESTED	04/25/97	07/01/97	
TEST_TIME	19:43	06:21	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD			
1,2,3,7,8-PeCDD			
1,2,3,4,7,8-HxCDD			
1,2,3,6,7,8-HxCDD			
1,2,3,7,8,9-HxCDD			
1,2,3,4,6,7,8-HpCDD			
1,2,3,4,6,7,8,9-OCDD			
2,3,7,8-TCDF	5.2	2.3	77.3%
1,2,3,7,8-PeCDF			
2,3,4,7,8-PeCDF			
1,2,3,4,7,8-HxCDF			
1,2,3,6,7,8-HxCDF			
2,3,4,6,7,8-HxCDF			
1,2,3,7,8,9-HxCDF			
1,2,3,4,6,7,8-HpCDF			
1,2,3,4,7,8,9-HpCDF			
1,2,3,4,6,7,8,9-OCDF			
Total TCDD			
Total PeCDD			
Total HxCDD			
Total HpCDD			
Total TCDF			
Total PeCDF			
Total HxCDF			
Total HpCDF			

BATCH_ID	41348A	41348A	
SAMP_ID	D1011D1P1	D1011D1P1	
LSAMP_ID	P971966	X971855	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/25/97	06/30/97	
TEST_TIME	16:40	18:51	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD			
1,2,3,7,8-PeCDD			
1,2,3,4,7,8-HxCDD			
1,2,3,6,7,8-HxCDD			
1,2,3,7,8,9-HxCDD			
1,2,3,4,6,7,8-HpCDD			
1,2,3,4,6,7,8,9-OCDD			
2,3,7,8-TCDF	17.6	18.6	5.5%
1,2,3,7,8-PeCDF			
2,3,4,7,8-PeCDF			
1,2,3,4,7,8-HxCDF			
1,2,3,6,7,8-HxCDF			
2,3,4,6,7,8-HxCDF			
1,2,3,7,8,9-HxCDF			
1,2,3,4,6,7,8-HpCDF			
1,2,3,4,7,8,9-HpCDF			
1,2,3,4,6,7,8,9-OCDF			
Total TCDD			
Total PeCDD			
Total HxCDD			
Total HpCDD			
Total TCDF			
Total PeCDF			
Total HxCDF			
Total HpCDF			

BATCH_ID	41348A	41348A	
SAMP_ID	D1012D1P1	D1012D1P1	
LSAMP_ID	P971968	X971854	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/25/97	06/30/97	
TEST_TIME	18:26	18:06	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD			
1,2,3,7,8-PeCDD			
1,2,3,4,7,8-HxCDD			
1,2,3,6,7,8-HxCDD			
1,2,3,7,8,9-HxCDD			
1,2,3,4,6,7,8-HpCDD			
1,2,3,4,6,7,8,9-OCDD			
2,3,7,8-TCDF	6.2	5.9	5.0%
1,2,3,7,8-PeCDF			
2,3,4,7,8-PeCDF			
1,2,3,4,7,8-HxCDF			
1,2,3,6,7,8-HxCDF			
2,3,4,6,7,8-HxCDF			
1,2,3,7,8,9-HxCDF			
1,2,3,4,6,7,8-HpCDF			
1,2,3,4,7,8,9-HpCDF			
1,2,3,4,6,7,8,9-OCDF			
Total TCDD			
Total PeCDD			
Total HxCDD			
Total HpCDD			
Total TCDF			
Total PeCDF			
Total HxCDF			
Total HpCDF			

BATCH_ID	41348A	41348A		
SAMP_ID	D1013D1P1	D1013D1P1		
LSAMP_ID	P971965	X971853		
SAMP_TYPE	SEDIMENT	SEDIMENT		SEDIMENT
TESTED	04/25/97	06/30/97		
TEST_TIME	15:54	17:22		
Data Set	1	2		
Units	ppt	ppt	%RPD	
2,3,7,8-TCDD				
1,2,3,7,8-PeCDD				
1,2,3,4,7,8-HxCDD				
1,2,3,6,7,8-HxCDD				
1,2,3,7,8,9-HxCDD				
1,2,3,4,6,7,8-HpCDD				
1,2,3,4,6,7,8,9-OCDD				
2,3,7,8-TCDF	2.9	2.9	0.0%	
1,2,3,7,8-PeCDF				
2,3,4,7,8-PeCDF				
1,2,3,4,7,8-HxCDF				
1,2,3,6,7,8-HxCDF				
2,3,4,6,7,8-HxCDF				
1,2,3,7,8,9-HxCDF				
1,2,3,4,6,7,8-HpCDF				
1,2,3,4,7,8,9-HpCDF				
1,2,3,4,6,7,8,9-OCDF				
Total TCDD				
Total PeCDD				
Total HxCDD				
Total HpCDD				
Total TCDF				
Total PeCDF				
Total HxCDF				
Total HpCDF				

BATCH_ID	41348B	41348B	
SAMP_ID	D1013S1P1	D1013S1P1	
LSAMP_ID	X971083	X971866	
SAMP_TYPE	SOIL	SOIL	
TESTED	04/25/97	07/01/97	
TEST_TIME	19:01	05:30	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD			
1,2,3,7,8-PeCDD			
1,2,3,4,7,8-HxCDD			
1,2,3,6,7,8-HxCDD			
1,2,3,7,8,9-HxCDD			
1,2,3,4,6,7,8-HpCDD			
1,2,3,4,6,7,8,9-OCDD			
2,3,7,8-TCDF	6	5.6	6.9%
1,2,3,7,8-PeCDF			
2,3,4,7,8-PeCDF			
1,2,3,4,7,8-HxCDF			
1,2,3,6,7,8-HxCDF			
2,3,4,6,7,8-HxCDF			
1,2,3,7,8,9-HxCDF			
1,2,3,4,6,7,8-HpCDF			
1,2,3,4,7,8,9-HpCDF			
1,2,3,4,6,7,8,9-OCDF			
Total TCDD			
Total PeCDD			
Total HxCDD			
Total HpCDD			
Total TCDF			
Total PeCDF			
Total HxCDF			
Total HpCDF			

BATCH_ID	41348B	41348B	
SAMP_ID	L8006S1P1	L8006S1P1	
LSAMP_ID	X971086	X971869	
SAMP_TYPE	SOIL	SOIL	
TESTED	04/25/97	07/01/97	
TEST_TIME	21:06	08:05	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD			
1,2,3,7,8-PeCDD			
1,2,3,4,7,8-HxCDD			
1,2,3,6,7,8-HxCDD			
1,2,3,7,8,9-HxCDD			
1,2,3,4,6,7,8-HpCDD			
1,2,3,4,6,7,8,9-OCDD			
2,3,7,8-TCDF	10	4.8	70.3%
1,2,3,7,8-PeCDF			
2,3,4,7,8-PeCDF			
1,2,3,4,7,8-HxCDF			
1,2,3,6,7,8-HxCDF			
2,3,4,6,7,8-HxCDF			
1,2,3,7,8,9-HxCDF			
1,2,3,4,6,7,8-HpCDF			
1,2,3,4,7,8,9-HpCDF			
1,2,3,4,6,7,8,9-OCDF			
Total TCDD			
Total PeCDD			
Total HxCDD			
Total HpCDD			
Total TCDF			
Total PeCDF			
Total HxCDF			
Total HpCDF			

BATCH_ID	41348A	41348A	
SAMP_ID	TLI LCSD	TLI LCSD	
LSAMP_ID	T972784	T974439	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/22/97	06/27/97	
TEST_TIME	10:10	22:51	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	32.7	32	2.2%
1,2,3,7,8-PeCDD	164	158	3.7%
1,2,3,4,7,8-HxCDD	157	161	2.5%
1,2,3,6,7,8-HxCDD	183	183	0.0%
1,2,3,7,8,9-HxCDD	167	167	0.0%
1,2,3,4,6,7,8-HpCDD	185	187	1.1%
1,2,3,4,6,7,8,9-OCDD	381	383	0.5%
2,3,7,8-TCDF	38.6	34.8	10.4%
1,2,3,7,8-PeCDF	172	167	2.9%
2,3,4,7,8-PeCDF	156	148	5.3%
1,2,3,4,7,8-HxCDF	198	182	8.4%
1,2,3,6,7,8-HxCDF	205	187	9.2%
2,3,4,6,7,8-HxCDF	197	183	7.4%
1,2,3,7,8,9-HxCDF	221	211	4.6%
1,2,3,4,6,7,8-HpCDF	158	156	1.3%
1,2,3,4,7,8,9-HpCDF	244	230	5.9%
1,2,3,4,6,7,8,9-OCDF	480	469	2.3%
Total TCDD			
Total PeCDD			
Total HxCDD			
Total HpCDD			
Total TCDF			
Total PeCDF			
Total HxCDF			
Total HpCDF			

BATCH_ID	41348A	41348A	
SAMP_ID	TLI Sediment Blank	TLI Sediment Blank	
LSAMP_ID	T972758	T974438	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/21/97	06/27/97	
TEST_TIME	14:34	22:07	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	ND	ND	
1,2,3,4,6,7,8,9-OCDD	ND	ND	
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	0.49	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	ND	ND	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	ND	ND	
Total TCDD	ND	ND	
Total PeCDD	ND	ND	
Total HxCDD	ND	ND	
Total HpCDD	ND	ND	
Total TCDF	ND	ND	
Total PeCDF	ND	ND	
Total HxCDF	0.49	ND	
Total HpCDF	ND	ND	

BATCH_ID	41584B	41584B	
SAMP_ID	L4001P1D1	L4001P1D1	
LSAMP_ID	W971648	T974901	
SAMP_TYPE	WATER	WATER	
TESTED	05/14/97	07/16/97	
TEST_TIME	16:01	21:01	
Data Set	1	2	
Units	ppq	ppq	% RPD
2,3,7,8-TCDD	ND	14.1	
1,2,3,7,8-PeCDD	ND	13	
1,2,3,4,7,8-HxCDD	ND	18.7	
1,2,3,6,7,8-HxCDD	53.3	48.5	9.4%
1,2,3,7,8,9-HxCDD	51	55.7	8.8%
1,2,3,4,6,7,8-HpCDD	1500	1670	10.7%
1,2,3,4,6,7,8,9-OCDD	12180	13000	6.5%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	10.5	
1,2,3,4,7,8-HxCDF	ND	70.9	
1,2,3,6,7,8-HxCDF	20.1	15.1	28.4%
2,3,4,6,7,8-HxCDF	ND	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	489	498	1.8%
1,2,3,4,7,8,9-HpCDF	31.7	38.1	18.3%
1,2,3,4,6,7,8,9-OCDF	938	1170	22.0%
Total TCDD	ND	29.9	
Total PeCDD	ND	35.9	
Total HxCDD	499	509	2.0%
Total HpCDD	2970	3270	9.6%
Total TCDF	ND	44.5	
Total PeCDF	50.3	115	78.3%
Total HxCDF	525	480	9.0%
Total HpCDF	1410	1450	2.8%

BATCH_ID	41584B	41584B	
SAMP_ID	L4001P1P1	L4001P1P1	
LSAMP_ID	W971647	T974900	
SAMP_TYPE	WATER	WATER	
TESTED	05/14/97	07/16/97	
TEST_TIME	15:15	20:18	
Data Set	1	2	
Units	ppq	ppq	% RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	41.8	47.5	12.8%
1,2,3,4,6,7,8,9-OCDD	379	369	2.7%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	ND	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	19.1	ND	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	37.9	36.5	3.8%
Total TCDD	ND	ND	
Total PeCDD	ND	ND	
Total HxCDD	ND	ND	
Total HpCDD	73.5	107	37.1%
Total TCDF	ND	ND	
Total PeCDF	ND	ND	
Total HxCDF	ND	ND	
Total HpCDF	19.1	ND	

BATCH_ID	41584B	41584B	
SAMP_ID	L400ZP1P1	L400ZP1P1	
LSAMP_ID	W971664	T974914	
SAMP_TYPE	WATER	WATER	
TESTED	05/15/97	07/17/97	
TEST_TIME	06:57	20:30	
Data Set	1	2	
Units	ppq	ppq	% RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	11.9	
1,2,3,4,7,8-HxCDD	ND	16.3	
1,2,3,6,7,8-HxCDD	ND	37.3	
1,2,3,7,8,9-HxCDD	37.3	39.9	6.7%
1,2,3,4,6,7,8-HpCDD	799	835	4.4%
1,2,3,4,6,7,8,9-OCDD	6230	6360	2.1%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	6.4	
2,3,4,7,8-PeCDF	ND	6.4	
1,2,3,4,7,8-HxCDF	56.4	52.1	7.9%
1,2,3,6,7,8-HxCDF	ND	10.3	
2,3,4,6,7,8-HxCDF	ND	14.7	
1,2,3,7,8,9-HxCDF	ND	13.9	
1,2,3,4,6,7,8-HpCDF	141	163	14.5%
1,2,3,4,7,8,9-HpCDF	ND	14.7	
1,2,3,4,6,7,8,9-OCDF	296	305	3.0%
Total TCDD	ND	ND	
Total PeCDD	ND	43.2	
Total HxCDD	188	283	40.3%
Total HpCDD	1870	1790	4.4%
Total TCDF	27	22	20.4%
Total PeCDF	ND	54.6	
Total HxCDF	214	168	24.1%
Total HpCDF	464	485	4.4%

BATCH_ID	41584B	41584B		41584B	41584B	
SAMP_ID	L4001P1MD	L4001P1MD		L4001P1MS	L4001P1MS	
LSAMP_ID	W971650	T974913		W971649	T974912	
SAMP_TYPE	WATER	WATER		WATER	WATER	
TESTED	05/14/97	07/17/97		05/14/97	07/17/97	
TEST_TIME	17:33	19:50		16:49	19:10	
Data Set	1	2		1	2	
Units	ppq	ppq	% RPD	ppq	ppq	% RPD
2,3,7,8-TCDD	323	356	9.7%	325	351	7.7%
1,2,3,7,8-PeCDD	1530	1860	19.5%	1460	1920	27.2%
1,2,3,4,7,8-HxCDD	1880	1880	0.0%	1820	1850	1.6%
1,2,3,6,7,8-HxCDD	1750	1910	8.7%	1670	1950	15.5%
1,2,3,7,8,9-HxCDD	1900	1870	1.6%	1690	1720	1.8%
1,2,3,4,6,7,8-HpCDD	2120	2270	6.8%	2260	2430	7.2%
1,2,3,4,6,7,8,9-OCDD	6070	6610	8.5%	6860	7390	7.4%
2,3,7,8-TCDF	329	374	12.8%	321	391	19.7%
1,2,3,7,8-PeCDF	1820	1910	4.8%	1680	1990	16.9%
2,3,4,7,8-PeCDF	1650	1800	8.7%	1480	1780	18.4%
1,2,3,4,7,8-HxCDF	1850	1850	0.0%	1830	1920	4.8%
1,2,3,6,7,8-HxCDF	1790	1940	8.0%	1750	1910	8.7%
2,3,4,6,7,8-HxCDF	2080	2110	1.4%	1910	1920	0.5%
1,2,3,7,8,9-HxCDF	2150	2090	2.8%	2040	1810	11.9%
1,2,3,4,6,7,8-HpCDF	2010	2210	9.5%	1980	2190	10.1%
1,2,3,4,7,8,9-HpCDF	2140	2200	2.8%	2210	2130	3.7%
1,2,3,4,6,7,8,9-OCDF	3410	4250	21.9%	3590	4800	28.8%
Total TCDD						
Total PeCDD						
Total HxCDD						
Total HpCDD						
Total TCDF						
Total PeCDF						
Total HxCDF						
Total HpCDF						

BATCH_ID	41584B	41584B		41584B	41584B	
SAMP_ID	TLI LCS	TLI LCS		TLI LCSD	TLI LCSD	
LSAMP_ID	W971657	T974921		W971658	T974916	
SAMP_TYPE	WATER	WATER		WATER	WATER	
TESTED	05/15/97	07/18/97		05/15/97	07/17/97	
TEST_TIME	01:32	01:15		02:15	21:49	
Data Set	1	2		1	2	
Units	ppq	ppq	% RPD	ppq	ppq	% RPD
2,3,7,8-TCDD	391	252	43.2%	322	355	9.7%
1,2,3,7,8-PeCDD	1950	2060	5.5%	1820	1950	6.9%
1,2,3,4,7,8-HxCDD	1510	1840	19.7%	1460	1870	24.6%
1,2,3,6,7,8-HxCDD	2000	1990	0.5%	1750	1840	5.0%
1,2,3,7,8,9-HxCDD	1500	1930	25.1%	1510	1720	13.0%
1,2,3,4,6,7,8-HpCDD	2080	2000	3.9%	1900	1900	0.0%
1,2,3,4,6,7,8,9-OCDD	4030	3280	20.5%	3810	3860	1.3%
2,3,7,8-TCDF	363	293	21.3%	392	393	0.3%
1,2,3,7,8-PeCDF	1950	1780	9.1%	2000	1910	4.6%
2,3,4,7,8-PeCDF	1950	2450	22.7%	1970	1920	2.6%
1,2,3,4,7,8-HxCDF	1690	1900	11.7%	1670	1900	12.9%
1,2,3,6,7,8-HxCDF	1810	1910	5.4%	1760	1900	7.7%
2,3,4,6,7,8-HxCDF	1820	2130	15.7%	1720	2100	19.9%
1,2,3,7,8,9-HxCDF	1880	1810	3.8%	1780	1990	11.1%
1,2,3,4,6,7,8-HpCDF	1980	1740	12.9%	1850	1980	6.8%
1,2,3,4,7,8,9-HpCDF	2280	1830	21.9%	2240	2270	1.3%
1,2,3,4,6,7,8,9-OCDF	4980	3550	33.5%	4680	4490	4.1%
Total TCDD						
Total PeCDD						
Total HxCDD						
Total HpCDD						
Total TCDF						
Total PeCDF						
Total HxCDF						
Total HpCDF						

BATCH_ID	41584B	41584B	
SAMP_ID	TLI Blank	TLI Blank	
LSAMP_ID	W971646	T974899	
SAMP_TYPE	WATER	WATER	
TESTED	05/14/97	07/16/97	
TEST_TIME	14:14	19:23	
Data Set	1	2	
Units	ppq	ppq	% RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	ND	ND	
1,2,3,4,6,7,8,9-OCDD	ND	ND	
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	ND	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	ND	ND	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	ND	ND	
Total TCDD	ND	ND	
Total PeCDD	ND	ND	
Total HxCDD	ND	ND	
Total HpCDD	ND	ND	
Total TCDF	ND	ND	
Total PeCDF	ND	ND	
Total HxCDF	ND	ND	
Total HpCDF	ND	ND	

Comaprison of Duplicate Analyses

BATCH_ID	41327B	41327B	
SAMP_ID	D2009D1P1	D2009D1P1	
LSAMP_ID	X971059	X971818	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/23/97	06/27/97	
TEST_TIME	19:48	09:32	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD			
1,2,3,7,8-PeCDD			
1,2,3,4,7,8-HxCDD			
1,2,3,6,7,8-HxCDD			
1,2,3,7,8,9-HxCDD			
1,2,3,4,6,7,8-HpCDD			
1,2,3,4,6,7,8,9-OCDD			
2,3,7,8-TCDF	24.4	20.9	15.5%
1,2,3,7,8-PeCDF			
2,3,4,7,8-PeCDF			
1,2,3,4,7,8-HxCDF			
1,2,3,6,7,8-HxCDF			
2,3,4,6,7,8-HxCDF			
1,2,3,7,8,9-HxCDF			
1,2,3,4,6,7,8-HpCDF			
1,2,3,4,7,8,9-HpCDF			
1,2,3,4,6,7,8,9-OCDF			
Total TCDD			
Total PeCDD			
Total HxCDD			
Total HpCDD			
Total TCDF			
Total PeCDF			
Total HxCDF			
Total HpCDF			

BATCH_ID	41327A	41327A	
SAMP_ID	D5003D1P1	D5003D1P1	
LSAMP_ID	T972739	T974401	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/20/97	06/25/97	
TEST_TIME	22:40	22:14	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	0.5	ND	
1,2,3,4,6,7,8-HpCDD	8.3	10	18.6%
1,2,3,4,6,7,8,9-OCDD	80.4	79.3	1.4%
2,3,7,8-TCDF	0.57	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	0.5	ND	
1,2,3,4,7,8-HxCDF	7.2	6.1	16.5%
1,2,3,6,7,8-HxCDF	0.56	ND	
2,3,4,6,7,8-HxCDF	1.3	2.2	51.4%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	4	5	22.2%
1,2,3,4,7,8,9-HpCDF	0.58	ND	
1,2,3,4,6,7,8,9-OCDF	5.2	6.6	23.7%
Total TCDD	ND	ND	
Total PeCDD	ND	ND	
Total HxCDD	2.6	ND	
Total HpCDD	17.6	19.7	11.3%
Total TCDF	3.7	4.7	23.8%
Total PeCDF	13.5	10.9	21.3%
Total HxCDF	20.1	15.3	27.1%
Total HpCDF	10.2	11	7.5%

BATCH_ID	41327A	41327A	
SAMP_ID	D5004D1P1	D5004D1P1	
LSAMP_ID	T972741	T974402	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/20/97	06/25/97	
TEST_TIME	23:54	23:03	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	0.24	ND	
1,2,3,4,7,8-HxCDD	0.27	ND	
1,2,3,6,7,8-HxCDD	0.74	ND	
1,2,3,7,8,9-HxCDD	1.9	ND	
1,2,3,4,6,7,8-HpCDD	10.8	11	1.8%
1,2,3,4,6,7,8,9-OCDD	119	118	0.8%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	0.47	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	0.51	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	0.98	1.6	48.1%
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	2.2	3.6	48.3%
Total TCDD	0.3	ND	
Total PeCDD	0.24	ND	
Total HxCDD	6.7	ND	
Total HpCDD	20.8	22	5.6%
Total TCDF	7.7	ND	
Total PeCDF	1.4	ND	
Total HxCDF	2.7	ND	
Total HpCDF	2.7	4.3	45.7%

BATCH_ID	41327B	41327B	
SAMP_ID	D5004S1P1	D5004S1P1	
LSAMP_ID	X971060	X971819	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/23/97	06/27/97	
TEST_TIME	20:33	10:15	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD			
1,2,3,7,8-PeCDD			
1,2,3,4,7,8-HxCDD			
1,2,3,6,7,8-HxCDD			
1,2,3,7,8,9-HxCDD			
1,2,3,4,6,7,8-HpCDD			
1,2,3,4,6,7,8,9-OCDD			
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF			
2,3,4,7,8-PeCDF			
1,2,3,4,7,8-HxCDF			
1,2,3,6,7,8-HxCDF			
2,3,4,6,7,8-HxCDF			
1,2,3,7,8,9-HxCDF			
1,2,3,4,6,7,8-HpCDF			
1,2,3,4,7,8,9-HpCDF			
1,2,3,4,6,7,8,9-OCDF			
Total TCDD			
Total PeCDD			
Total HxCDD			
Total HpCDD			
Total TCDF			
Total PeCDF			
Total HxCDF			
Total HpCDF			

BATCH_ID	41327A	41327A	
SAMP_ID	D5006D1P1	D5006D1P1	
LSAMP_ID	T972738	T974397	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/20/97	06/25/97	
TEST_TIME	21:39	18:42	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	0.31	ND	
1,2,3,6,7,8-HxCDD	0.62	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	13.7	13.7	0.0%
1,2,3,4,6,7,8,9-OCDD	134	141	5.1%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	0.3	ND	
2,3,4,7,8-PeCDF	0.48	ND	
1,2,3,4,7,8-HxCDF	21.2	18.7	12.5%
1,2,3,6,7,8-HxCDF	0.93	ND	
2,3,4,6,7,8-HxCDF	1.7	2.2	25.6%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	5.7	6.3	10.0%
1,2,3,4,7,8,9-HpCDF	1	ND	
1,2,3,4,6,7,8,9-OCDF	8.9	8.2	8.2%
Total TCDD	ND	ND	
Total PeCDD	0.39	ND	
Total HxCDD	4.4	ND	
Total HpCDD	27.2	28.8	5.7%
Total TCDF	2.5	13.1	135.9%
Total PeCDF	16.7	14.5	14.1%
Total HxCDF	31.8	19.7	47.0%
Total HpCDF	10.3	19.5	17.9%

BATCH_ID	41327B	41327B	
SAMP_ID	D5007S1P1	D5007S1P1	
LSAMP_ID	X971048	X971842	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/23/97	06/30/97	
TEST_TIME	10:31	08:27	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD			
1,2,3,7,8-PeCDD			
1,2,3,4,7,8-HxCDD			
1,2,3,6,7,8-HxCDD			
1,2,3,7,8,9-HxCDD			
1,2,3,4,6,7,8-HpCDD			
1,2,3,4,6,7,8,9-OCDD			
2,3,7,8-TCDF	1.2	ND	
1,2,3,7,8-PeCDF			
2,3,4,7,8-PeCDF			
1,2,3,4,7,8-HxCDF			
1,2,3,6,7,8-HxCDF			
2,3,4,6,7,8-HxCDF			
1,2,3,7,8,9-HxCDF			
1,2,3,4,6,7,8-HpCDF			
1,2,3,4,7,8,9-HpCDF			
1,2,3,4,6,7,8,9-OCDF			
Total TCDD			
Total PeCDD			
Total HxCDD			
Total HpCDD			
Total TCDF			
Total PeCDF			
Total HxCDF			
Total HpCDF			

BATCH_ID	41327B	41327B	
SAMP_ID	D5016D1P1	D5016D1P1	
LSAMP_ID	W971211	T974420	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/20/97	06/26/97	
TEST_TIME	23:34	17:53	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	1.1	ND	
1,2,3,7,8-PeCDD	1.2	ND	
1,2,3,4,7,8-HxCDD	1.4	1.3	7.4%
1,2,3,6,7,8-HxCDD	4.4	4.7	6.6%
1,2,3,7,8,9-HxCDD	4.5	4.5	0.0%
1,2,3,4,6,7,8-HpCDD	129	140	8.2%
1,2,3,4,6,7,8,9-OCDD	992	1050	5.7%
2,3,7,8-TCDF	1.8	1.7	5.7%
1,2,3,7,8-PeCDF	0.56	ND	
2,3,4,7,8-PeCDF	0.9	ND	
1,2,3,4,7,8-HxCDF	2.5	2.5	0.0%
1,2,3,6,7,8-HxCDF	1.1	1.1	0.0%
2,3,4,6,7,8-HxCDF	1.4	2.1	40.0%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	30.3	25.9	15.7%
1,2,3,4,7,8,9-HpCDF	1.3	1.2	8.0%
1,2,3,4,6,7,8,9-OCDF	68.8	77.9	12.4%
Total TCDD	4	ND	
Total PeCDD	10.2	3.3	102.2%
Total HxCDD	52.2	33.5	43.6%
Total HpCDD	301	302	0.3%
Total TCDF	13.4	8.1	49.3%
Total PeCDF	14.5	12.9	11.7%
Total HxCDF	40.1	34.7	14.4%
Total HpCDF	83.5	74.8	11.0%

BATCH_ID	41327B	41327B	
SAMP_ID	D5017D1P1	D5017D1P1	
LSAMP_ID	W971212	T974421	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/21/97	06/26/97	
TEST_TIME	00:22	18:41	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	2.4	2.7	11.8%
1,2,3,7,8-PeCDD	1.2	ND	
1,2,3,4,7,8-HxCDD	2.4	2.9	18.9%
1,2,3,6,7,8-HxCDD	8	9.4	16.1%
1,2,3,7,8,9-HxCDD	7.3	6.9	5.6%
1,2,3,4,6,7,8-HpCDD	239	273	13.3%
1,2,3,4,6,7,8,9-OCDD	2310	2580	11.0%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	0.84	ND	
2,3,4,7,8-PeCDF	1.1	ND	
1,2,3,4,7,8-HxCDF	29.7	28.2	5.2%
1,2,3,6,7,8-HxCDF	2.5	3.1	21.4%
2,3,4,6,7,8-HxCDF	3.8	5	27.3%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	45.2	44.2	2.2%
1,2,3,4,7,8,9-HpCDF	4.2	5.9	33.7%
1,2,3,4,6,7,8,9-OCDF	90.8	123	30.1%
Total TCDD	2.4	2.7	11.8%
Total PeCDD	4.6	ND	
Total HxCDD	74.2	65.9	11.8%
Total HpCDD	808	804	0.5%
Total TCDF	12.6	4.5	94.7%
Total PeCDF	65.6	16.9	118.1%
Total HxCDF	97.2	98.9	1.7%
Total HpCDF	137	148	7.7%

BATCH_ID	41327A	41327A	
SAMP_ID	D6001D1P1	D6001D1P1	
LSAMP_ID	T972745	T974408	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/21/97	06/26/97	
TEST_TIME	05:25	09:34	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	0.52	0.48	8.0%
1,2,3,6,7,8-HxCDD	1.6	1.3	20.7%
1,2,3,7,8,9-HxCDD	1.6	1.6	0.0%
1,2,3,4,6,7,8-HpCDD	39.8	39.8	0.0%
1,2,3,4,6,7,8,9-OCDD	388	399	2.8%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	1.4	1.4	0.0%
1,2,3,6,7,8-HxCDF	0.38	0.34	11.1%
2,3,4,6,7,8-HxCDF	0.71	1.2	51.3%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	8.3	7.7	7.5%
1,2,3,4,7,8,9-HpCDF	0.63	0.56	11.8%
1,2,3,4,6,7,8,9-OCDF	23.9	27.5	14.0%
Total TCDD	1.8	1.8	0.0%
Total PeCDD	0.76	0.84	10.0%
Total HxCDD	12.4	7.4	50.5%
Total HpCDD	80.2	82.1	2.3%
Total TCDF	0.51	1.5	98.5%
Total PeCDF	3.6	2	57.1%
Total HxCDF	11.3	10	12.2%
Total HpCDF	21.9	21.8	0.5%

BATCH_ID	41327A	41327A	
SAMP_ID	D6002D1D1	D6002D1D1	
LSAMP_ID	T972752	T974412	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/21/97	06/26/97	
TEST_TIME	09:55	12:20	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	0.36	ND	
1,2,3,4,7,8-HxCDD	0.42	ND	
1,2,3,6,7,8-HxCDD	0.41	ND	
1,2,3,7,8,9-HxCDD	1.5	ND	
1,2,3,4,6,7,8-HpCDD	13.7	13.4	2.2%
1,2,3,4,6,7,8,9-OCDD	612	642	4.8%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	0.29	ND	
1,2,3,6,7,8-HxCDF	0.15	ND	
2,3,4,6,7,8-HxCDF	0.5	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	1.1	1.3	16.7%
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	3.3	3.9	16.7%
Total TCDD	ND	ND	
Total PeCDD	0.36	ND	
Total HxCDD	7.8	3.9	66.7%
Total HpCDD	35.1	33.8	3.8%
Total TCDF	ND	ND	
Total PeCDF	0.42	ND	
Total HxCDF	1.8	ND	
Total HpCDF	3.5	2.6	29.5%

BATCH_ID	41327A	41327A	
SAMP_ID	D6002D1P1	D6002D1P1	
LSAMP_ID	T972746	T974409	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/21/97	06/26/97	
TEST_TIME	06:04	10:17	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	0.43	ND	
1,2,3,6,7,8-HxCDD	0.58	0.63	8.3%
1,2,3,7,8,9-HxCDD	1.1	1	9.5%
1,2,3,4,6,7,8-HpCDD	12.3	13.1	6.3%
1,2,3,4,6,7,8,9-OCDD	457	471	3.0%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	2.2	2.1	4.7%
1,2,3,6,7,8-HxCDF	0.23	ND	
2,3,4,6,7,8-HxCDF	0.44	0.61	32.4%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	1.4	1.8	25.0%
1,2,3,4,7,8,9-HpCDF	0.39	0.54	32.3%
1,2,3,4,6,7,8,9-OCDF	3.4	3.4	0.0%
Total TCDD	ND	ND	
Total PeCDD	ND	ND	
Total HxCDD	5.3	2.3	78.9%
Total HpCDD	29.4	31.1	5.6%
Total TCDF	0.75	0.71	5.5%
Total PeCDF	0.64	4.2	147.1%
Total HxCDF	3.2	0.44	151.6%
Total HpCDF	3.6	4	10.5%

BATCH_ID	41327B	41327B	
SAMP_ID	D6003D1P1	D6003D1P1	
LSAMP_ID	W971209	T974418	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/20/97	06/26/97	
TEST_TIME	21:54	16:21	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	0.49	ND	
1,2,3,7,8-PeCDD	1.6	ND	
1,2,3,4,7,8-HxCDD	3.2	3	6.5%
1,2,3,6,7,8-HxCDD	6.4	6.4	0.0%
1,2,3,7,8,9-HxCDD	7.2	5.7	23.3%
1,2,3,4,6,7,8-HpCDD	185	211	13.1%
1,2,3,4,6,7,8,9-OCDD	2050	2210	7.5%
2,3,7,8-TCDF	0.96	ND	
1,2,3,7,8-PeCDF	0.7	ND	
2,3,4,7,8-PeCDF	0.7	ND	
1,2,3,4,7,8-HxCDF	3.9	2.5	43.8%
1,2,3,6,7,8-HxCDF	1.7	1.5	12.5%
2,3,4,6,7,8-HxCDF	2.1	2.6	21.3%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	37.6	33.6	11.2%
1,2,3,4,7,8,9-HpCDF	2.3	3	26.4%
1,2,3,4,6,7,8,9-OCDF	84.6	97.6	14.3%
Total TCDD	1	ND	
Total PeCDD	3.4	ND	
Total HxCDD	73.2	55.3	27.9%
Total HpCDD	609	610	0.2%
Total TCDF	4.6	2.4	62.9%
Total PeCDF	19.6	13.1	39.8%
Total HxCDF	58.1	34.5	51.0%
Total HpCDF	108	104	3.8%

BATCH_ID	41327B	41327B	
SAMP_ID	D6004D1P1	D6004D1P1	
LSAMP_ID	W971207	T974416	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/20/97	06/26/97	
TEST_TIME	20:11	15:04	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	0.87	ND	
1,2,3,6,7,8-HxCDD	1.4	1.8	25.0%
1,2,3,7,8,9-HxCDD	2.1	1.8	15.4%
1,2,3,4,6,7,8-HpCDD	29.8	32	7.1%
1,2,3,4,6,7,8,9-OCDD	271	285	5.0%
2,3,7,8-TCDF	0.37	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	0.85	ND	
1,2,3,6,7,8-HxCDF	0.34	ND	
2,3,4,6,7,8-HxCDF	0.7	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	5.7	5	13.1%
1,2,3,4,7,8,9-HpCDF	0.43	ND	
1,2,3,4,6,7,8,9-OCDF	8.3	9.5	13.5%
Total TCDD	ND	0.61	
Total PeCDD	ND	ND	
Total HxCDD	12.5	9.6	26.2%
Total HpCDD	72.9	70.3	3.6%
Total TCDF	2.6	1.7	41.9%
Total PeCDF	1.9	2	5.1%
Total HxCDF	10.1	6	50.9%
Total HpCDF	13.6	13.1	3.7%

BATCH_ID	41327B	41327B	
SAMP_ID	D6005D1P1	D6005D1P1	
LSAMP_ID	W971208	T974417	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/20/97	06/26/97	
TEST_TIME	21:03	15:42	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	2.7	ND	
1,2,3,4,7,8-HxCDD	6.6	5.9	11.2%
1,2,3,6,7,8-HxCDD	17	18.6	9.0%
1,2,3,7,8,9-HxCDD	13.9	14.2	2.1%
1,2,3,4,6,7,8-HpCDD	311	332	6.5%
1,2,3,4,6,7,8,9-OCDD	1950	2160	10.2%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	1.3	ND	
2,3,4,7,8-PeCDF	1.3	ND	
1,2,3,4,7,8-HxCDF	12.2	7.9	42.8%
1,2,3,6,7,8-HxCDF	3.4	4.8	34.1%
2,3,4,6,7,8-HxCDF	4.1	3.9	5.0%
1,2,3,7,8,9-HxCDF	0.4	ND	
1,2,3,4,6,7,8-HpCDF	48.1	43.7	9.6%
1,2,3,4,7,8,9-HpCDF	3.3	3	9.5%
1,2,3,4,6,7,8,9-OCDF	64.7	76	16.1%
Total TCDD	ND	ND	
Total PeCDD	7.3	ND	
Total HxCDD	121	105	14.2%
Total HpCDD	724	704	2.8%
Total TCDF	6.6	ND	
Total PeCDF	33.6	16	71.0%
Total HxCDF	110	77.3	34.9%
Total HpCDF	119	110	7.9%

BATCH_ID	41327B	41327B	
SAMP_ID	D6006D1P1	D6006D1P1	
LSAMP_ID	W971210	T974419	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/20/97	06/26/97	
TEST_TIME	22:46	17:00	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	0.52	ND	
1,2,3,7,8-PeCDD	5.1	4.8	6.1%
1,2,3,4,7,8-HxCDD	8.5	6.7	23.7%
1,2,3,6,7,8-HxCDD	17	17.9	5.2%
1,2,3,7,8,9-HxCDD	17.6	17	3.5%
1,2,3,4,6,7,8-HpCDD	359	393	9.0%
1,2,3,4,6,7,8,9-OCDD	3220	3470	7.5%
2,3,7,8-TCDF	1.2	ND	
1,2,3,7,8-PeCDF	0.85	ND	
2,3,4,7,8-PeCDF	1.3	ND	
1,2,3,4,7,8-HxCDF	14.3	12.2	15.8%
1,2,3,6,7,8-HxCDF	3.5	3.9	10.8%
2,3,4,6,7,8-HxCDF	4.8	6.7	33.0%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	84.2	75.5	10.9%
1,2,3,4,7,8,9-HpCDF	5.5	7.9	35.8%
1,2,3,4,6,7,8,9-OCDF	258	312	18.9%
Total TCDD	0.52	ND	
Total PeCDD	14.6	4.8	101.0%
Total HxCDD	143	117	20.0%
Total HpCDD	761	789	3.6%
Total TCDF	13.8	2	149.4%
Total PeCDF	49.6	39.2	23.4%
Total HxCDF	110	96.1	13.5%
Total HpCDF	263	247	6.3%

BATCH_ID	41327C	41327C	
SAMP_ID	D5004W1P1	D5004W1P1	
LSAMP_ID	W971203	T974437	
SAMP_TYPE	WATER	WATER	
TESTED	04/20/97	06/27/97	
TEST_TIME	16:12	21:24	
Data Set	1	2	
Units	ppq	ppq	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	5.5	ND	
1,2,3,7,8,9-HxCDD	6	ND	
1,2,3,4,6,7,8-HpCDD	48.8	51.6	5.6%
1,2,3,4,6,7,8,9-OCDD	398	408	2.5%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	3.6	ND	
1,2,3,6,7,8-HxCDF	1.5	ND	
2,3,4,6,7,8-HxCDF	3.7	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	7.5	ND	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	16.2	ND	
Total TCDD	ND	ND	
Total PeCDD	ND	ND	
Total HxCDD	31.1	ND	
Total HpCDD	119	76.7	43.2%
Total TCDF	4	ND	
Total PeCDF	ND	ND	
Total HxCDF	21.2	ND	
Total HpCDF	15.5	14.8	4.6%

BATCH_ID	41327C	41327C	
SAMP_ID	D5007W1P1	D5007W1P1	
LSAMP_ID	W120201	T974436	
SAMP_TYPE	WATER	WATER	
TESTED	04/20/97	06/27/97	
TEST_TIME	14:29	20:42	
Data Set	1	2	
Units	ppq	ppq	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	71	89.4	22.9%
1,2,3,4,6,7,8,9-OCDD	497	563	12.5%
2,3,7,8-TCDF	2.7	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	10.1	10.3	2.0%
1,2,3,6,7,8-HxCDF	1.7	ND	
2,3,4,6,7,8-HxCDF	5.6	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	14.9	14.2	4.8%
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	24.8	40.3	47.6%
Total TCDD	ND	ND	
Total PeCDD	6	ND	
Total HxCDD	41.7	19.9	70.8%
Total HpCDD	146	168	14.0%
Total TCDF	2.7	ND	
Total PeCDF	19.5	ND	
Total HxCDF	44.5	24.8	56.9%
Total HpCDF	29.6	14.2	70.3%

BATCH_ID	41327A	41327A		41327A	41327A	
SAMP_ID	D6002D1MD	D6002D1MD		D6002D1MS	D6002D1MS	
LSAMP_ID	T972748	T974411		T972747	T974410	
SAMP_TYPE	SEDIMENT	SEDIMENT		SEDIMENT	SEDIMENT	
TESTED	04/21/97	06/26/97		04/21/97	06/26/97	
TEST_TIME	07:21	11:42		06:42	11:03	
Data Set	1	2		1	2	
Units	ppt	ppt	%RPD	ppt	ppt	%RPD
2,3,7,8-TCDD	31.6	31.1	1.6%	31.3	33.1	5.6%
1,2,3,7,8-PeCDD	157	151	3.9%	156	150	3.9%
1,2,3,4,7,8-HxCDD	158	150	5.2%	160	141	12.6%
1,2,3,6,7,8-HxCDD	182	185	1.6%	181	178	1.7%
1,2,3,7,8,9-HxCDD	162	166	2.4%	163	160	1.9%
1,2,3,4,6,7,8-HpCDD	196	191	2.6%	197	196	0.5%
1,2,3,4,6,7,8,9-OCDD	790	826	4.5%	923	947	2.6%
2,3,7,8-TCDF	35.6	34.1	4.3%	36.7	34.3	6.8%
1,2,3,7,8-PeCDF	177	168	5.2%	170	163	4.2%
2,3,4,7,8-PeCDF	156	156	0.0%	149	156	4.6%
1,2,3,4,7,8-HxCDF	179	175	2.3%	182	167	8.6%
1,2,3,6,7,8-HxCDF	188	182	3.2%	187	183	2.2%
2,3,4,6,7,8-HxCDF	188	181	3.8%	192	183	4.8%
1,2,3,7,8,9-HxCDF	186	188	1.1%	194	187	3.7%
1,2,3,4,6,7,8-HpCDF	153	149	2.6%	147	144	2.1%
1,2,3,4,7,8,9-HpCDF	183	170	7.4%	192	166	14.5%
1,2,3,4,6,7,8,9-OCDF	379	341	10.6%	401	348	14.2%

BATCH_ID	41327A	41327A		41327A	41327A	
SAMP_ID	TLI LCS	TLI LCS		TLI LCSD	TLI LCSD	
LSAMP_ID	T972750	T974413		T972751	T974414	
SAMP_TYPE	SEDIMENT	SEDIMENT		SEDIMENT	SEDIMENT	
TESTED	04/21/97	06/26/97		04/21/97	06/26/97	
TEST_TIME	08:39	12:59		09:17	13:38	
Data Set	1	2		1	2	
Units	ppt	ppt	%RPD	ppt	ppt	%RPD
2,3,7,8-TCDD	34.6	34.6	0.0%	34.8	32.8	5.9%
1,2,3,7,8-PeCDD	166	163	1.8%	168	160	4.9%
1,2,3,4,7,8-HxCDD	170	163	4.2%	170	166	2.4%
1,2,3,6,7,8-HxCDD	195	194	0.5%	196	192	2.1%
1,2,3,7,8,9-HxCDD	171	180	5.1%	172	202	16.0%
1,2,3,4,6,7,8-HpCDD	203	196	3.5%	194	191	1.6%
1,2,3,4,6,7,8,9-OCDD	389	406	4.3%	387	399	3.1%
2,3,7,8-TCDF	38.4	38	1.0%	39.6	34.7	13.2%
1,2,3,7,8-PeCDF	205	189	8.1%	191	177	7.6%
2,3,4,7,8-PeCDF	175	176	0.6%	170	169	0.6%
1,2,3,4,7,8-HxCDF	198	159	21.8%	194	153	23.6%
1,2,3,6,7,8-HxCDF	212	205	3.4%	206	199	3.5%
2,3,4,6,7,8-HxCDF	224	168	28.6%	209	169	21.2%
1,2,3,7,8,9-HxCDF	215	171	22.8%	205	182	11.9%
1,2,3,4,6,7,8-HpCDF	178	173	2.8%	171	169	1.2%
1,2,3,4,7,8,9-HpCDF	221	232	4.9%	201	213	5.8%
1,2,3,4,6,7,8,9-OCDF	420	422	0.5%	403	405	0.5%
Total TCDD						
Total PeCDD						
Total HxCDD						
Total HpCDD						
Total TCDF						
Total PeCDF						
Total HxCDF						
Total HpCDF						

BATCH_ID	41327A	41327A	
SAMP_ID	TLI Sediment Blank	TLI Sediment Blank	
LSAMP_ID	T972736	T974400	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/20/97	06/25/97	
TEST_TIME	20:03	21:31	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	ND	ND	
1,2,3,4,6,7,8,9-OCDD	1.9	6	103.8%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	ND	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	ND	ND	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	1.4	ND	
Total TCDD	ND	ND	
Total PeCDD	2.3	ND	
Total HxCDD	ND	ND	
Total HpCDD	ND	ND	
Total TCDF	ND	ND	
Total PeCDF	0.65	ND	
Total HxCDF	ND	ND	
Total HpCDF	ND	ND	

BATCH_ID	41327B	41327B	
SAMP_ID	TLI Sediment Blank	TLI Sediment Blank	
LSAMP_ID	W971206	T974415	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	04/20/97	06/26/97	
TEST_TIME	19:12	14:25	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	ND	ND	
1,2,3,4,6,7,8,9-OCDD	ND	3.6	
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	0.34	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	ND	ND	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	ND	ND	
Total TCDD	ND	ND	
Total PeCDD	ND	ND	
Total HxCDD	ND	ND	
Total HpCDD	ND	ND	
Total TCDF	ND	ND	
Total PeCDF	ND	ND	
Total HxCDF	0.34	ND	
Total HpCDF	ND	ND	

BATCH_ID	41530A	41530A	
SAMP_ID	C1001D1D1	C1001D1D1	
LSAMP_ID	W971542	T974743	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	05/08/97	07/11/97	
TEST_TIME	17:19	04:05	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	2.5	2.2	12.8%
1,2,3,4,7,8-HxCDD	3.6	2.7	28.6%
1,2,3,6,7,8-HxCDD	5.7	5.2	9.2%
1,2,3,7,8,9-HxCDD	6.6	5.3	21.8%
1,2,3,4,6,7,8-HpCDD	84.1	82.8	1.6%
1,2,3,4,6,7,8,9-OCDD	634	668	5.2%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	0.72	0.51	34.1%
1,2,3,4,7,8-HxCDF	4.8	4.6	4.3%
1,2,3,6,7,8-HxCDF	1.4	1.4	0.0%
2,3,4,6,7,8-HxCDF	2	0.97	69.4%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	23.3	18.2	24.6%
1,2,3,4,7,8,9-HpCDF	1.9	1.9	0.0%
1,2,3,4,6,7,8,9-OCDF	49.7	56.5	12.8%
Total TCDD	ND	ND	
Total PeCDD	6.6	2.2	100.0%
Total HxCDD	36.4	29.5	20.9%
Total HpCDD	153	150	2.0%
Total TCDF	3.3	2.6	23.7%
Total PeCDF	11.9	4.4	92.0%
Total HxCDF	38.4	27.5	33.1%
Total HpCDF	66.9	20.2	107.2%

BATCH_ID	41530A	41530A	
SAMP_ID	C1001D1P1	C1001D1P1	
LSAMP_ID	W971536	T974740	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	05/08/97	07/11/97	
TEST_TIME	12:24	02:06	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	3.8	1.9	66.7%
1,2,3,4,7,8-HxCDD	3.8	2.9	26.9%
1,2,3,6,7,8-HxCDD	6.2	6	3.3%
1,2,3,7,8,9-HxCDD	8.1	6	29.8%
1,2,3,4,6,7,8-HpCDD	92.6	98.2	5.9%
1,2,3,4,6,7,8,9-OCDD	762	749	1.7%
2,3,7,8-TCDF	ND	0.59	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	6.4	5.6	13.3%
1,2,3,6,7,8-HxCDF	1.4	1.6	13.3%
2,3,4,6,7,8-HxCDF	2.2	0.74	99.3%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	25.5	22.2	13.8%
1,2,3,4,7,8,9-HpCDF	1.9	2	5.1%
1,2,3,4,6,7,8,9-OCDF	50.1	51.6	2.9%
Total TCDD	0.85	ND	
Total PeCDD	7.7	1.7	127.7%
Total HxCDD	46.7	37.4	22.1%
Total HpCDD	176	184	4.4%
Total TCDF	3.8	3.3	14.1%
Total PeCDF	13.8	7.4	60.4%
Total HxCDF	45.5	30.8	38.5%
Total HpCDF	80.9	22.2	113.9%

BATCH_ID	41530A	41530A	
SAMP_ID	C1005D1P1	C1005D1P1	
LSAMP_ID	W971543	T974744	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	05/08/97	07/11/97	
TEST_TIME	18:47	04:44	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	1	0.86	15.1%
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	0.46	
1,2,3,6,7,8-HxCDD	1.2	1.2	0.0%
1,2,3,7,8,9-HxCDD	2.2	1.6	31.6%
1,2,3,4,6,7,8-HpCDD	40.4	41.6	2.9%
1,2,3,4,6,7,8,9-OCDD	392	413	5.2%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	1.3	ND	
1,2,3,6,7,8-HxCDF	0.52	ND	
2,3,4,6,7,8-HxCDF	0.95	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	6	5.2	14.3%
1,2,3,4,7,8,9-HpCDF	ND	0.77	
1,2,3,4,6,7,8,9-OCDF	18.6	18.8	1.1%
Total TCDD	1	0.86	15.1%
Total PeCDD	ND	1.1	
Total HxCDD	18	16	11.8%
Total HpCDD	162	170	4.8%
Total TCDF	ND	0.97	
Total PeCDF	4.8	1.9	86.6%
Total HxCDF	11.6	7.1	48.1%
Total HpCDF	22.4	5.2	124.6%

BATCH_ID	41530A	41530A	
SAMP_ID	C1006D1P1	C1006D1P1	
LSAMP_ID	W971544	T974745	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	05/08/97	07/11/97	
TEST_TIME	19:30	05:24	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	1.3	1.4	7.4%
1,2,3,4,6,7,8-HpCDD	11.9	13.1	9.6%
1,2,3,4,6,7,8,9-OCDD	142	151	6.1%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	1.1	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	ND	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	2.5	2.8	11.3%
1,2,3,4,7,8,9-HpCDF	ND	1	
1,2,3,4,6,7,8,9-OCDF	5	7	33.3%
Total TCDD	ND	ND	
Total PeCDD	ND	0.84	
Total HxCDD	11	5.8	61.9%
Total HpCDD	24.2	27.3	12.0%
Total TCDF	ND	ND	
Total PeCDF	ND	7	
Total HxCDF	2.3	5.9	87.8%
Total HpCDF	7.1	8	11.9%

BATCH_ID	41530B	41530B		41530B	41530B	
SAMP_ID	EE05DD1P1	EE05DD1P1		EE05DD1P1	EE05DD1P1	
LSAMP_ID	W971602	T974877		X971255	X972210	
SAMP_TYPE	SEDIMENT	SEDIMENT		SEDIMENT	SEDIMENT	
TESTED	05/12/97	07/16/97		05/10/97	07/17/97	
TEST_TIME	22:55	04:14		15:02	01:33	
Data Set	1	2		1	2	
Units	ppt	ppt	%RPD	ppt	ppt	%RPD
2,3,7,8-TCDD	44.4	42.4	4.6%			
1,2,3,7,8-PeCDD	1.8	2.8	43.5%			
1,2,3,4,7,8-HxCDD	4.6	3	42.1%			
1,2,3,6,7,8-HxCDD	9.5	9	5.4%			
1,2,3,7,8,9-HxCDD	11.3	9.2	20.5%			
1,2,3,4,6,7,8-HpCDD	241	244	1.2%			
1,2,3,4,6,7,8,9-OCDD	1860	1990	6.8%			
2,3,7,8-TCDF				8.1	8.7	7.1%
1,2,3,7,8-PeCDF	0.79	ND				
2,3,4,7,8-PeCDF	0.82	ND				
1,2,3,4,7,8-HxCDF	7.5	8.6	13.7%			
1,2,3,6,7,8-HxCDF	3.2	3.1	3.2%			
2,3,4,6,7,8-HxCDF	4.2	6	35.3%			
1,2,3,7,8,9-HxCDF	ND	ND				
1,2,3,4,6,7,8-HpCDF	54.8	44.9	19.9%			
1,2,3,4,7,8,9-HpCDF	4.3	ND				
1,2,3,4,6,7,8,9-OCDF	94.7	107	12.2%			
Total TCDD	47.4	42.4	11.1%			
Total PeCDD	14.4	7.3	65.4%			
Total HxCDD	93.2	72.7	24.7%			
Total HpCDD	514	548	6.4%			
Total TCDF	23.2	21.5	7.6%			
Total PeCDF	51	43.7	15.4%			
Total HxCDF	84	60.8	32.0%			
Total HpCDF	143	119	18.3%			

BATCH_ID	41530B	41530B		41530B	41530B	
SAMP_ID	EE05UD1P1	EE05UD1P1		EE05UD1P1	EE05UD1P1	
LSAMP_ID	W971610	T974878		X971256	X972211	
SAMP_TYPE	SEDIMENT	SEDIMENT		SEDIMENT	SEDIMENT	
TESTED	05/13/97	07/16/97		05/10/97	07/17/97	
TEST_TIME	07:23	04:53		15:47	02:33	
Data Set	1	2		1	2	
Units	ppt	ppt	%RPD	ppt	ppt	%RPD
2,3,7,8-TCDD	182	197	7.9%			
1,2,3,7,8-PeCDD	6.8	6.9	1.5%			
1,2,3,4,7,8-HxCDD	11.7	10.6	9.9%			
1,2,3,6,7,8-HxCDD	29.6	29.1	1.7%			
1,2,3,7,8,9-HxCDD	29.8	24.1	21.2%			
1,2,3,4,6,7,8-HpCDD	721	734	1.8%			
1,2,3,4,6,7,8,9-OCDD	5200	5750	10.0%			
2,3,7,8-TCDF				33.7	42.3	22.6%
1,2,3,7,8-PeCDF	ND	3.2				
2,3,4,7,8-PeCDF	2.8	2.4	15.4%			
1,2,3,4,7,8-HxCDF	20.3	19.1	6.1%			
1,2,3,6,7,8-HxCDF	9.3	10.1	8.2%			
2,3,4,6,7,8-HxCDF	8.4	14.6	53.9%			
1,2,3,7,8,9-HxCDF	ND	ND				
1,2,3,4,6,7,8-HpCDF	160	128	22.2%			
1,2,3,4,7,8,9-HpCDF	9.9	9.4	5.2%			
1,2,3,4,6,7,8,9-OCDF	279	339	19.4%			
Total TCDD	198	215	8.2%			
Total PeCDD	57.1	24.6	79.6%			
Total HxCDD	282	255	10.1%			
Total HpCDD	1640	1660	1.2%			
Total TCDF	120	117	2.5%			
Total PeCDF	172	150	13.7%			
Total HxCDF	252	218	14.5%			
Total HpCDF	433	349	21.5%			

BATCH_ID	41530B	41530B		41530B	41530B	
SAMP_ID	EEN1DD1P1	EEN1DD1P1		EEN1DD1P1	EEN1DD1P1	
LSAMP_ID	W971615	T974881		X971259	X972214	
SAMP_TYPE	SEDIMENT	SEDIMENT		SEDIMENT	SEDIMENT	
TESTED	05/13/97	07/16/97		05/10/97	07/17/97	
TEST_TIME	11:23	06:52		17:52	04:41	
Data Set	1	2		1	2	
Units	ppt	ppt	%RPD	ppt	ppt	%RPD
2,3,7,8-TCDD	259	243	6.4%			
1,2,3,7,8-PeCDD	4.2	7.1	51.3%			
1,2,3,4,7,8-HxCDD	ND	ND				
1,2,3,6,7,8-HxCDD	4	4.9	20.2%			
1,2,3,7,8,9-HxCDD	2.4	ND				
1,2,3,4,6,7,8-HpCDD	60.4	67.6	11.2%			
1,2,3,4,6,7,8,9-OCDD	516	572	10.3%			
2,3,7,8-TCDF				39.7	45.7	14.1%
1,2,3,7,8-PeCDF	ND	ND				
2,3,4,7,8-PeCDF	ND	ND				
1,2,3,4,7,8-HxCDF	4.4	ND				
1,2,3,6,7,8-HxCDF	2.1	ND				
2,3,4,6,7,8-HxCDF	4	ND				
1,2,3,7,8,9-HxCDF	ND	ND				
1,2,3,4,6,7,8-HpCDF	23.3	16.6	33.6%			
1,2,3,4,7,8,9-HpCDF	ND	ND				
1,2,3,4,6,7,8,9-OCDF	62	70.6	13.0%			
Total TCDD	285	256	10.7%			
Total PeCDD	21.8	11.8	59.5%			
Total HxCDD	37.9	38.3	1.0%			
Total HpCDD	159	179	11.8%			
Total TCDF	152	133	13.3%			
Total PeCDF	134	121	10.2%			
Total HxCDF	36.9	15.3	82.8%			
Total HpCDF	74.8	55.8	29.1%			

BATCH_ID	41530B	41530B		41530B	41530B	
SAMP_ID	EEN1UD1P1	EEN1UD1P1		EEN1UD1P1	EEN1UD1P1	
LSAMP_ID	W971616	T974882		X971260	X972215	
SAMP_TYPE	SEDIMENT	SEDIMENT		SEDIMENT	SEDIMENT	
TESTED	05/13/97	07/16/97		05/10/97	07/17/97	
TEST_TIME	12:06	07:32		18:36	06:02	
Data Set	1	2		1	2	
Units	ppt	ppt	%RPD	ppt	ppt	%RPD
2,3,7,8-TCDD	453	439	3.1%			
1,2,3,7,8-PeCDD	23	26.3	13.4%			
1,2,3,4,7,8-HxCDD	2.9	3.8	26.9%			
1,2,3,6,7,8-HxCDD	9.5	11	14.6%			
1,2,3,7,8,9-HxCDD	7.9	8	1.3%			
1,2,3,4,6,7,8-HpCDD	122	123	0.8%			
1,2,3,4,6,7,8,9-OCDD	833	885	6.1%			
2,3,7,8-TCDF				51.7	59.5	14.0%
1,2,3,7,8-PeCDF	1.5	4.1	92.9%			
2,3,4,7,8-PeCDF	3.4	4.8	34.1%			
1,2,3,4,7,8-HxCDF	7.4	9.4	23.8%			
1,2,3,6,7,8-HxCDF	1.4	2.8	66.7%			
2,3,4,6,7,8-HxCDF	4.9	ND				
1,2,3,7,8,9-HxCDF	ND	ND				
1,2,3,4,6,7,8-HpCDF	31.2	25	22.1%			
1,2,3,4,7,8,9-HpCDF	4.3	4.3	0.0%			
1,2,3,4,6,7,8,9-OCDF	72.1	77.6	7.3%			
Total TCDD	524	492	6.3%			
Total PeCDD	79.3	55.5	35.3%			
Total HxCDD	112	112	0.0%			
Total HpCDD	323	328	1.5%			
Total TCDF	303	286	5.8%			
Total PeCDF	311	284	9.1%			
Total HxCDF	70.3	57.4	20.2%			
Total HpCDF	89.1	66.1	29.6%			

BATCH_ID	41530B	41530B		41530B	41530B	
SAMP_ID	EEN2DD1P1	EEN2DD1P1		EEN2DD1P1	EEN2DD1P1	
LSAMP_ID	W971612	T974879		X971257	X972212	
SAMP_TYPE	SEDIMENT	SEDIMENT		SEDIMENT	SEDIMENT	
TESTED	05/13/97	07/16/97		05/10/97	07/17/97	
TEST_TIME	09:05	05:33		16:30	03:15	
Data Set	1	2		1	2	
Units	ppt	ppt	%RPD	ppt	ppt	%RPD
2,3,7,8-TCDD	575	637	10.2%			
1,2,3,7,8-PeCDD	8.2	7.7	6.3%			
1,2,3,4,7,8-HxCDD	15.2	13.1	14.8%			
1,2,3,6,7,8-HxCDD	43.3	40.7	6.2%			
1,2,3,7,8,9-HxCDD	37.3	31.9	15.6%			
1,2,3,4,6,7,8-HpCDD	2040	2160	5.7%			
1,2,3,4,6,7,8,9-OCDD	14260	15970	11.3%			
2,3,7,8-TCDF				31.8	38.8	19.8%
1,2,3,7,8-PeCDF	2.8	3	6.9%			
2,3,4,7,8-PeCDF	3.4	2.8	19.4%			
1,2,3,4,7,8-HxCDF	43.1	ND				
1,2,3,6,7,8-HxCDF	5.6	5.7	1.8%			
2,3,4,6,7,8-HxCDF	5	10	66.7%			
1,2,3,7,8,9-HxCDF	ND	ND				
1,2,3,4,6,7,8-HpCDF	150	124	19.0%			
1,2,3,4,7,8,9-HpCDF	13.1	8.8	39.3%			
1,2,3,4,6,7,8,9-OCDF	461	599	26.0%			
Total TCDD	599	670	11.2%			
Total PeCDD	55.4	21.2	89.3%			
Total HxCDD	862	787	9.1%			
Total HpCDD	10290	10750	4.4%			
Total TCDF	192	174	9.8%			
Total PeCDF	290	257	12.1%			
Total HxCDF	296	218	30.4%			
Total HpCDF	695	124	139.4%			

BATCH_ID	41530B	41530B		41530B	41530B	
SAMP_ID	EEN2UD1P1	EEN2UD1P1		EEN2UD1P1	EEN2UD1P1	
LSAMP_ID	W971614	T974880		X971258	X972213	
SAMP_TYPE	SEDIMENT	SEDIMENT		SEDIMENT	SEDIMENT	
TESTED	05/13/97	07/16/97		05/10/97	07/17/97	
TEST_TIME	10:33	06:13		17:11	03:57	
Data Set	1	2		1	2	
Units	ppt	ppt	%RPD	ppt	ppt	%RPD
2,3,7,8-TCDD	980	1020	4.0%			
1,2,3,7,8-PeCDD	13.8	13.8	0.0%			
1,2,3,4,7,8-HxCDD	14.9	10.6	33.7%			
1,2,3,6,7,8-HxCDD	26	25	3.9%			
1,2,3,7,8,9-HxCDD	31.8	24.3	26.7%			
1,2,3,4,6,7,8-HpCDD	694	706	1.7%			
1,2,3,4,6,7,8,9-OCDD	5410	6180	13.3%			
2,3,7,8-TCDF				49	59.1	18.7%
1,2,3,7,8-PeCDF	3.4	3	12.5%			
2,3,4,7,8-PeCDF	3.3	2.7	20.0%			
1,2,3,4,7,8-HxCDF	24.8	25.1	1.2%			
1,2,3,6,7,8-HxCDF	5.6	5.4	3.6%			
2,3,4,6,7,8-HxCDF	7.4	10.9	38.3%			
1,2,3,7,8,9-HxCDF	ND	ND				
1,2,3,4,6,7,8-HpCDF	116	92.3	22.8%			
1,2,3,4,7,8,9-HpCDF	9	7.4	19.5%			
1,2,3,4,6,7,8,9-OCDF	204	263	25.3%			
Total TCDD	1040	1080	3.8%			
Total PeCDD	84.4	50.7	49.9%			
Total HxCDD	339	290	15.6%			
Total HpCDD	1820	1910	4.8%			
Total TCDF	292	310	6.0%			
Total PeCDF	357	311	13.8%			
Total HxCDF	213	161	27.8%			
Total HpCDF	359	284	23.3%			

BATCH_ID	41530C	41530C	
SAMP_ID	L8007S1P1	L8007S1P1	
LSAMP_ID	W971591	T974889	
SAMP_TYPE	SOIL	SOIL	
TESTED	05/12/97	07/16/97	
TEST_TIME	14:18	12:49	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	0.84	ND	
1,2,3,6,7,8-HxCDD	1.2	ND	
1,2,3,7,8,9-HxCDD	1.7	ND	
1,2,3,4,6,7,8-HpCDD	32.8	35.1	6.8%
1,2,3,4,6,7,8,9-OCDD	271	268	1.1%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	2.6	3	14.3%
1,2,3,6,7,8-HxCDF	0.4	ND	
2,3,4,6,7,8-HxCDF	0.89	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	7	6.8	2.9%
1,2,3,4,7,8,9-HpCDF	0.54	ND	
1,2,3,4,6,7,8,9-OCDF	11.9	16.7	33.6%
Total TCDD	ND	ND	
Total PeCDD	0.97	1.9	64.8%
Total HxCDD	11.7	5.1	78.6%
Total HpCDD	63.5	68.7	7.9%
Total TCDF	1.4	ND	
Total PeCDF	5.1	3.2	45.8%
Total HxCDF	10.3	10.3	0.0%
Total HpCDF	7.5	6.8	9.8%

BATCH_ID	41530C	41530C	
SAMP_ID	L8008S1P1	L8008S1P1	
LSAMP_ID	W971592	T974890	
SAMP_TYPE	SOIL	SOIL	
TESTED	05/12/97	07/16/97	
TEST_TIME	15:02	13:29	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	3	2.5	18.2%
1,2,3,7,8-PeCDD	0.55	ND	
1,2,3,4,7,8-HxCDD	0.89	ND	
1,2,3,6,7,8-HxCDD	1.3	ND	
1,2,3,7,8,9-HxCDD	1.6	ND	
1,2,3,4,6,7,8-HpCDD	50.6	53.9	6.3%
1,2,3,4,6,7,8,9-OCDD	498	496	0.4%
2,3,7,8-TCDF	0.37	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	0.3	ND	
1,2,3,4,7,8-HxCDF	1.9	2.3	19.0%
1,2,3,6,7,8-HxCDF	0.48	ND	
2,3,4,6,7,8-HxCDF	1	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	9.6	9.2	4.3%
1,2,3,4,7,8,9-HpCDF	0.7	ND	
1,2,3,4,6,7,8,9-OCDF	25.1	28.9	14.1%
Total TCDD	3	2.5	18.2%
Total PeCDD	1.1	ND	
Total HxCDD	21.5	7.6	95.5%
Total HpCDD	203	227	11.2%
Total TCDF	2.2	1.6	31.6%
Total PeCDF	5.6	8.7	43.4%
Total HxCDF	11.9	9.8	19.4%
Total HpCDF	32.2	29.2	9.8%

BATCH_ID	41530C	41530C	
SAMP_ID	L8017S1P1	L8017S1P1	
LSAMP_ID	W971599	T974898	
SAMP_TYPE	SOIL	SOIL	
TESTED	05/12/97	07/16/97	
TEST_TIME	20:35	18:39	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	3.8	5	27.3%
1,2,3,7,8-PeCDD	0.72	ND	
1,2,3,4,7,8-HxCDD	1.3	ND	
1,2,3,6,7,8-HxCDD	3	2.9	3.4%
1,2,3,7,8,9-HxCDD	2.6	2.9	10.9%
1,2,3,4,6,7,8-HpCDD	72.4	79.7	9.6%
1,2,3,4,6,7,8,9-OCDD	659	696	5.5%
2,3,7,8-TCDF	0.55	ND	
1,2,3,7,8-PeCDF	0.5	ND	
2,3,4,7,8-PeCDF	0.65	ND	
1,2,3,4,7,8-HxCDF	5.6	ND	
1,2,3,6,7,8-HxCDF	2.4	2.2	8.7%
2,3,4,6,7,8-HxCDF	2.9	4	31.9%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	39.7	41.2	3.7%
1,2,3,4,7,8,9-HpCDF	1.9	ND	
1,2,3,4,6,7,8,9-OCDF	52.3	64.5	20.9%
Total TCDD	3.8	5	27.3%
Total PeCDD	1.4	ND	
Total HxCDD	28.8	23.9	18.6%
Total HpCDD	166	189	13.0%
Total TCDF	4.2	ND	
Total PeCDF	28	32.4	14.6%
Total HxCDF	54.7	50.9	7.2%
Total HpCDF	95.7	98.9	3.3%

BATCH_ID	41530C	41530C	
SAMP_ID	L8020S1D1	L8020S1D1	
LSAMP_ID	W971594	T974892	
SAMP_TYPE	SOIL	SOIL	
TESTED	05/12/97	07/16/97	
TEST_TIME	16:29	14:48	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	0.49	0.56	13.3%
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	0.26	ND	
1,2,3,7,8,9-HxCDD	0.57	ND	
1,2,3,4,6,7,8-HpCDD	6.1	6.8	10.9%
1,2,3,4,6,7,8,9-OCDD	278	282	1.4%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	0.62	ND	
1,2,3,6,7,8-HxCDF	0.23	ND	
2,3,4,6,7,8-HxCDF	0.67	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	2.6	2.8	7.4%
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	2	2.2	9.5%
Total TCDD	0.49	0.56	13.3%
Total PeCDD	ND	ND	
Total HxCDD	2.5	0.82	101.2%
Total HpCDD	14	16	13.3%
Total TCDF	1.4	1.4	0.0%
Total PeCDF	7.6	4.8	45.2%
Total HxCDF	6	5	18.2%
Total HpCDF	5	2.7	59.7%

BATCH_ID	41530C	41530C	
SAMP_ID	L8020S1P1	L8020S1P1	
LSAMP_ID	W971593	T974891	
SAMP_TYPE	SOIL	SOIL	
TESTED	05/12/97	07/16/97	
TEST_TIME	15:47	14:08	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	0.46	0.88	62.7%
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	0.6	ND	
1,2,3,4,6,7,8-HpCDD	7.2	7	2.8%
1,2,3,4,6,7,8,9-OCDD	317	311	1.9%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	0.6	0.8	28.6%
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	0.61	0.93	41.6%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	2.7	3.3	20.0%
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	1.7	2.1	21.1%
Total TCDD	0.46	0.88	62.7%
Total PeCDD	ND	ND	
Total HxCDD	1.5	ND	
Total HpCDD	15.9	19.3	19.3%
Total TCDF	0.55	1.5	92.7%
Total PeCDF	7.9	6.7	16.4%
Total HxCDF	6.7	7.4	9.9%
Total HpCDF	5.2	5.7	9.2%

BATCH_ID	41530C	41530C		41530C	41530C
SAMP_ID	L8026S1P1	L8026S1P1		L8026S1P1	L8026S1P1
LSAMP_ID	W971597	T974895		P972356	X972229
SAMP_TYPE	SOIL	SOIL		SOIL	SOIL
TESTED	05/12/97	07/16/97		05/14/97	07/17/97
TEST_TIME	18:52	16:47		23:37	17:23
Data Set	1	2		1	2
Units	ppt	ppt	%RPD	ppt	ppt
2,3,7,8-TCDD	163	174	6.5%		
1,2,3,7,8-PeCDD	1.7	2.1	21.1%		
1,2,3,4,7,8-HxCDD	2	3	40.0%		
1,2,3,6,7,8-HxCDD	3.6	4.5	22.2%		
1,2,3,7,8,9-HxCDD	3.8	5.2	31.1%		
1,2,3,4,6,7,8-HpCDD	106	116	9.0%		
1,2,3,4,6,7,8,9-OCDD	881	874	0.8%		
2,3,7,8-TCDF				8.7	8.7
1,2,3,7,8-PeCDF	0.69	1	36.7%		
2,3,4,7,8-PeCDF	1.4	1.5	6.9%		
1,2,3,4,7,8-HxCDF	4.8	5.1	6.1%		
1,2,3,6,7,8-HxCDF	2.1	2.4	13.3%		
2,3,4,6,7,8-HxCDF	3.1	ND			
1,2,3,7,8,9-HxCDF	ND	ND			
1,2,3,4,6,7,8-HpCDF	22.9	21.4	6.8%		
1,2,3,4,7,8,9-HpCDF	1	1.8	57.1%		
1,2,3,4,6,7,8,9-OCDF	45.4	59.4	26.7%		
Total TCDD	171	182	6.2%		
Total PeCDD	5.3	10.1	62.3%		
Total HxCDD	42	45.3	7.6%		
Total HpCDD	250	289	14.5%		
Total TCDF	59.6	54.8	8.4%		
Total PeCDF	155	127	19.9%		
Total HxCDF	75.3	67.9	10.3%		
Total HpCDF	70	64.8	7.7%		

BATCH_ID	41530C	41530C	
SAMP_ID	L8032S1P1	L8032S1P1	
LSAMP_ID	W971598	T974896	
SAMP_TYPE	SOIL	SOIL	
TESTED	05/12/97	07/16/97	
TEST_TIME	19:48	17:27	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	51.2	56.2	9.3%
1,2,3,7,8-PeCDD	0.53	ND	
1,2,3,4,7,8-HxCDD	0.93	ND	
1,2,3,6,7,8-HxCDD	2.2	ND	
1,2,3,7,8,9-HxCDD	2.1	ND	
1,2,3,4,6,7,8-HpCDD	76.2	79.6	4.4%
1,2,3,4,6,7,8,9-OCDD	892	985	9.9%
2,3,7,8-TCDF	1.5	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	2.3	ND	
1,2,3,6,7,8-HxCDF	0.36	ND	
2,3,4,6,7,8-HxCDF	0.82	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	18.2	20.4	11.4%
1,2,3,4,7,8,9-HpCDF	1.2	ND	
1,2,3,4,6,7,8,9-OCDF	57.4	101	55.1%
Total TCDD	54.1	56.2	3.8%
Total PeCDD	0.44	ND	
Total HxCDD	22.7	18.2	22.0%
Total HpCDD	186	203	8.7%
Total TCDF	7.8	ND	
Total PeCDF	15.4	7.9	64.4%
Total HxCDF	16.6	6.1	92.5%
Total HpCDF	67	68.8	2.7%

BATCH_ID	41530A	41530A	
SAMP_ID	WM001D1P1	WM001D1P1	
LSAMP_ID	W971546	T974747	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	05/08/97	07/11/97	
TEST_TIME	21:02	06:43	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	4.8	5.3	9.9%
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	3.3	ND	
1,2,3,6,7,8-HxCDD	6.9	7	1.4%
1,2,3,7,8,9-HxCDD	7.3	6.3	14.7%
1,2,3,4,6,7,8-HpCDD	194	201	3.5%
1,2,3,4,6,7,8,9-OCDD	1710	1740	1.7%
2,3,7,8-TCDF	1.5	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	8	7	13.3%
1,2,3,6,7,8-HxCDF	1.9	2.1	10.0%
2,3,4,6,7,8-HxCDF	2	3.6	57.1%
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	53.6	44.7	18.1%
1,2,3,4,7,8,9-HpCDF	3.5	3.5	0.0%
1,2,3,4,6,7,8,9-OCDF	152	164	7.6%
Total TCDD	6.1	5.3	14.0%
Total PeCDD	2.5	ND	
Total HxCDD	63.5	44.1	36.1%
Total HpCDD	447	478	6.7%
Total TCDF	9.2	4.3	72.6%
Total PeCDF	24.5	13.8	55.9%
Total HxCDF	75.4	56.8	28.1%
Total HpCDF	181	164	9.9%

BATCH_ID	41530A	41530A	
SAMP_ID	WM003D1P1	WM003D1P1	
LSAMP_ID	W971545	T974746	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	05/08/97	07/11/97	
TEST_TIME	20:19	06:04	
Data Set	1	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	4.1	3.3	21.6%
1,2,3,4,6,7,8-HpCDD	27.3	29.4	7.4%
1,2,3,4,6,7,8,9-OCDD	418	439	4.9%
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	ND	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	2.4	2.4	0.0%
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	4.1	4	2.5%
Total TCDD	3.4	4.3	23.4%
Total PeCDD	17.2	10.6	47.5%
Total HxCDD	108	88.8	19.5%
Total HpCDD	116	128	9.8%
Total TCDF	0.49	ND	
Total PeCDF	0.81	ND	
Total HxCDF	2.2	1.6	31.6%
Total HpCDF	6.8	5.7	17.6%

BATCH_ID	41530A	41530A		41530A	41530A	
SAMP_ID	C1001D1MD	C1001D1MD		C1001D1MS	C1001D1MS	
LSAMP_ID	W971541	T974742		W971537	T974741	
SAMP_TYPE	SEDIMENT	SEDIMENT		SEDIMENT	SEDIMENT	
TESTED	05/08/97	07/11/97		05/08/97	07/11/97	
TEST_TIME	16:33	03:25		13:09	02:45	
Data Set	1	2		1	2	
Units	ppt	ppt	%RPD	ppt	ppt	%RPD
2,3,7,8-TCDD	33.8	30.4	10.6%	32.3	32.6	0.9%
1,2,3,7,8-PeCDD	191	156	20.2%	197	168	15.9%
1,2,3,4,7,8-HxCDD	171	151	12.4%	185	154	18.3%
1,2,3,6,7,8-HxCDD	166	175	5.3%	175	190	8.2%
1,2,3,7,8,9-HxCDD	184	156	16.5%	191	163	15.8%
1,2,3,4,6,7,8-HpCDD	305	315	3.2%	257	263	2.3%
1,2,3,4,6,7,8,9-OCDD	1520	1520	0.0%	1030	1060	2.9%
2,3,7,8-TCDF	30.3	34.2	12.1%	35.5	36.1	1.7%
1,2,3,7,8-PeCDF	190	157	19.0%	208	171	19.5%
2,3,4,7,8-PeCDF	172	131	27.1%	178	148	18.4%
1,2,3,4,7,8-HxCDF	185	182	1.6%	188	187	0.5%
1,2,3,6,7,8-HxCDF	168	183	8.5%	175	192	9.3%
2,3,4,6,7,8-HxCDF	187	174	7.2%	194	183	5.8%
1,2,3,7,8,9-HxCDF	193	193	0.0%	186	193	3.7%
1,2,3,4,6,7,8-HpCDF	209	178	16.0%	216	174	21.5%
1,2,3,4,7,8,9-HpCDF	190	191	0.5%	190	194	2.1%
1,2,3,4,6,7,8,9-OCDF	424	456	7.3%	414	448	7.9%
Total TCDD						
Total PeCDD						
Total HxCDD						
Total HpCDD						
Total TCDF						
Total PeCDF						
Total HxCDF						
Total HpCDF						

BATCH_ID	41530C	41530C		41530C	41530C	
SAMP_ID	L8020S1MD	L8020S1MD		L8020S1MS	L8020S1MS	
LSAMP_ID	W971600	T974894		W971595	T974893	
SAMP_TYPE	SOIL	SOIL		SOIL	SOIL	
TESTED	05/12/97	07/16/97		05/12/97	07/16/97	
TEST_TIME	21:18	16:07		17:25	15:28	
Data Set	1	2		1	2	
Units	ppt	ppt	%RPD	ppt	ppt	%RPD
2,3,7,8-TCDD	33.7	37.1	9.6%	33.9	38.1	11.7%
1,2,3,7,8-PeCDD	159	163	2.5%	164	167	1.8%
1,2,3,4,7,8-HxCDD	199	181	9.5%	186	188	1.1%
1,2,3,6,7,8-HxCDD	175	182	3.9%	175	183	4.5%
1,2,3,7,8,9-HxCDD	176	177	0.6%	184	184	0.0%
1,2,3,4,6,7,8-HpCDD	188	196	4.2%	188	198	5.2%
1,2,3,4,6,7,8,9-OCDD	646	631	2.3%	607	600	1.2%
2,3,7,8-TCDF	32.8	35.8	8.7%	33.1	36.9	10.9%
1,2,3,7,8-PeCDF	186	180	3.3%	188	182	3.2%
2,3,4,7,8-PeCDF	167	157	6.2%	167	159	4.9%
1,2,3,4,7,8-HxCDF	185	182	1.6%	181	188	3.8%
1,2,3,6,7,8-HxCDF	183	184	0.5%	183	184	0.5%
2,3,4,6,7,8-HxCDF	197	155	23.9%	196	160	20.2%
1,2,3,7,8,9-HxCDF	209	167	22.3%	218	180	19.1%
1,2,3,4,6,7,8-HpCDF	213	208	2.4%	207	206	0.5%
1,2,3,4,7,8,9-HpCDF	230	202	13.0%	248	214	14.7%
1,2,3,4,6,7,8,9-OCDF	367	373	1.6%	341	404	16.9%
Total TCDD						
Total PeCDD						
Total HxCDD						
Total HpCDD						
Total TCDF						
Total PeCDF						
Total HxCDF						
Total HpCDF						

BATCH_ID	41530A	41530A		41530A	41530B	
SAMP_ID	TLI LCS	TLI LCS		TLI LCSD	TLI LCSD	
LSAMP_ID	W971547	T974748		W971548	W971590	
SAMP_TYPE	SEDIMENT	SEDIMENT		SEDIMENT	SEDIMENT	
TESTED	05/08/97	07/11/97		05/08/97	05/12/97	
TEST_TIME	21:44	07:23		22:34	13:33	
Data Set	1	2		1	1	
Units	ppt	ppt	%RPD	ppt	ppt	%RPD
2,3,7,8-TCDD	32.3	29.1	10.4%	32.9	31.8	3.4%
1,2,3,7,8-PeCDD	186	158	16.3%	186	167	10.8%
1,2,3,4,7,8-HxCDD	173	156	10.3%	177	188	6.0%
1,2,3,6,7,8-HxCDD	166	178	7.0%	164	175	6.5%
1,2,3,7,8,9-HxCDD	189	168	11.8%	191	190	0.5%
1,2,3,4,6,7,8-HpCDD	163	178	8.8%	146	185	23.6%
1,2,3,4,6,7,8,9-OCDD	369	355	3.9%	348	372	6.7%
2,3,7,8-TCDF	36.3	36.3	0.0%	36	36.4	1.1%
1,2,3,7,8-PeCDF	203	182	10.9%	211	193	8.9%
2,3,4,7,8-PeCDF	167	150	10.7%	176	165	6.5%
1,2,3,4,7,8-HxCDF	179	184	2.8%	176	192	8.7%
1,2,3,6,7,8-HxCDF	185	200	7.8%	179	196	9.1%
2,3,4,6,7,8-HxCDF	196	179	9.1%	194	212	8.9%
1,2,3,7,8,9-HxCDF	191	181	5.4%	180	215	17.7%
1,2,3,4,6,7,8-HpCDF	243	179	30.3%	338	220	42.3%
1,2,3,4,7,8,9-HpCDF	211	180	15.9%	317	226	33.5%
1,2,3,4,6,7,8,9-OCDF	336	363	7.7%	331	337	1.8%
Total TCDD						
Total PeCDD						
Total HxCDD						
Total HpCDD						
Total TCDF						
Total PeCDF						
Total HxCDF						
Total HpCDF						

BATCH_ID	41530B	41530B		41530B	41530A	
SAMP_ID	TLI LCS	TLI LCS		TLI LCSD	TLI LCSD	
LSAMP_ID	W971617	T974883		T974884	T974749	
SAMP_TYPE	SEDIMENT	SEDIMENT		SEDIMENT	SEDIMENT	
TESTED	05/13/97	07/16/97		07/16/97	07/11/97	
TEST_TIME	12:48	08:12		08:51	08:02	
Data Set	1	2		2	2	
Units	ppt	ppt	%RPD	ppt	ppt	%RPD
2,3,7,8-TCDD	34.9	43.8	22.6%	33.3	33.3	0.0%
1,2,3,7,8-PeCDD	157	174	10.3%	174	158	9.6%
1,2,3,4,7,8-HxCDD	173	153	12.3%	155	157	1.3%
1,2,3,6,7,8-HxCDD	169	177	4.6%	186	181	2.7%
1,2,3,7,8,9-HxCDD	162	159	1.9%	163	162	0.6%
1,2,3,4,6,7,8-HpCDD	173	179	3.4%	187	184	1.6%
1,2,3,4,6,7,8,9-OCDD	378	395	4.4%	379	377	0.5%
2,3,7,8-TCDF	33.5	35.5	5.8%	34.7	35.5	2.3%
1,2,3,7,8-PeCDF	194	181	6.9%	191	178	7.0%
2,3,4,7,8-PeCDF	179	158	12.5%	157	145	7.9%
1,2,3,4,7,8-HxCDF	183	174	5.0%	175	173	1.1%
1,2,3,6,7,8-HxCDF	188	192	2.1%	201	200	0.5%
2,3,4,6,7,8-HxCDF	181	152	17.4%	177	177	0.0%
1,2,3,7,8,9-HxCDF	193	175	9.8%	173	175	1.1%
1,2,3,4,6,7,8-HpCDF	214	173	21.2%	174	174	0.0%
1,2,3,4,7,8,9-HpCDF	233	197	16.7%	184	180	2.2%
1,2,3,4,6,7,8,9-OCDF	381	415	8.5%	385	350	9.5%
Total TCDD						
Total PeCDD						
Total HxCDD						
Total HpCDD						
Total TCDF						
Total PeCDF						
Total HxCDF						
Total HpCDF						

BATCH_ID	41530A	41530C	
SAMP_ID	TLI Sediment Blank	TLI Sediment Blank	
LSAMP_ID	W971540	W971601	
SAMP_TYPE	SEDIMENT	SOIL	
TESTED	05/08/97	05/12/97	
TEST_TIME	15:51	22:13	
Data Set	1	1	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	ND	ND	
1,2,3,4,6,7,8,9-OCDD	ND	ND	
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	ND	0.37	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	ND	ND	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	ND	ND	
Total TCDD	ND	ND	
Total PeCDD	ND	ND	
Total HxCDD	ND	ND	
Total HpCDD	ND	ND	
Total TCDF	ND	ND	
Total PeCDF	ND	ND	
Total HxCDF	ND	0.37	
Total HpCDF	ND	ND	

BATCH_ID	41530C	41530A	
SAMP_ID	TLI Sediment Blank	TLI Sediment Blank	
LSAMP_ID	T974876	T974739	
SAMP_TYPE	SOIL	SEDIMENT	
TESTED	07/16/97	07/11/97	
TEST_TIME	03:34	01:26	
Data Set	2	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	ND	ND	
1,2,3,4,6,7,8,9-OCDD	ND	ND	
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	ND	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	ND	ND	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	ND	ND	
Total TCDD	ND	ND	
Total PeCDD	ND	ND	
Total HxCDD	ND	ND	
Total HpCDD	ND	ND	
Total TCDF	ND	ND	
Total PeCDF	ND	ND	
Total HxCDF	ND	ND	
Total HpCDF	ND	ND	

BATCH_ID	41530B	41530A	
SAMP_ID	CleanUp Blk	CleanUp Blk	
LSAMP_ID	W971589	W971549	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	05/12/97	05/08/97	
TEST_TIME	12:44	23:16	
Data Set	1	1	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	ND	ND	
1,2,3,4,6,7,8,9-OCDD	0.47	ND	
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	ND	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	ND	ND	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	ND	ND	
Total TCDD	ND	ND	
Total PeCDD	ND	ND	
Total HxCDD	ND	ND	
Total HpCDD	ND	ND	
Total TCDF	ND	ND	
Total PeCDF	ND	ND	
Total HxCDF	ND	ND	
Total HpCDF	ND	ND	

BATCH_ID	41530A	41530B	
SAMP_ID	CleanUp Blk	CleanUp Blk	
LSAMP_ID	T974750	T974885	
SAMP_TYPE	SEDIMENT	SEDIMENT	
TESTED	07/11/97	07/16/97	
TEST_TIME	08:42	09:31	
Data Set	2	2	
Units	ppt	ppt	%RPD
2,3,7,8-TCDD	ND	ND	
1,2,3,7,8-PeCDD	ND	ND	
1,2,3,4,7,8-HxCDD	ND	ND	
1,2,3,6,7,8-HxCDD	ND	ND	
1,2,3,7,8,9-HxCDD	ND	ND	
1,2,3,4,6,7,8-HpCDD	ND	ND	
1,2,3,4,6,7,8,9-OCDD	ND	ND	
2,3,7,8-TCDF	ND	ND	
1,2,3,7,8-PeCDF	ND	ND	
2,3,4,7,8-PeCDF	ND	ND	
1,2,3,4,7,8-HxCDF	ND	ND	
1,2,3,6,7,8-HxCDF	ND	ND	
2,3,4,6,7,8-HxCDF	ND	ND	
1,2,3,7,8,9-HxCDF	ND	ND	
1,2,3,4,6,7,8-HpCDF	ND	ND	
1,2,3,4,7,8,9-HpCDF	ND	ND	
1,2,3,4,6,7,8,9-OCDF	ND	ND	
Total TCDD	ND	ND	
Total PeCDD	ND	ND	
Total HxCDD	ND	ND	
Total HpCDD	ND	ND	
Total TCDF	ND	ND	
Total PeCDF	ND	ND	
Total HxCDF	ND	ND	
Total HpCDF	ND	ND	

APPENDIX C-2

APPENDIX C-2

PARCC REPORT FOR PHASE II

PRECISION, ACCURACY, REPRESENTATIVENESS, COMPARABILITY, AND COMPLETENESS FOR NCBC GULFPORT

NAVAL CONSTRUCTION BATTALION CENTER GULFPORT, MISSISSIPPI

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December 1997

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NCBC Gulfport

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Appendix A
Rejected Data Summary

NCBC Gulfport

Tables	Title	Page No.
A-1	Dioxin/Furan Fraction, Rejected Data Summary	Appendix C

1.0 INTRODUCTION

Prior to evaluating the data for precision, accuracy, representativeness, comparability, and completeness (PARCC) criteria the laboratory reviewed the data package and the data also were independently reviewed and validated using the Naval Energy and Environmental and Support Activity (NEESA) guidance document 20.2-047B (1988) entitled, *Sampling and Chemical Analysis Quality Assurance Requirements for the Navy Installation Program*. Before the laboratory released the chemical analytical results, both the sample and laboratory QC data were carefully reviewed in order to verify sample identity, instrument calibration, detection limits, dilution factors, numerical computations, accuracy of transcriptions, and chemical interpretations. Additionally, the QC data were reduced and spike recoveries were included in control charts, and the resulting data were reviewed to ascertain whether they were within the laboratory defined limits for accuracy and precision. The data were compiled into NEESA Level D data packages and any nonconforming data were discussed in the data package cover letter and case narrative.

The Level D data packages were then reviewed and validated by Heartland Environmental Services, Inc., Missouri (Heartland). Data validation is the technical review of a data package using criteria established in the data quality objectives, the quality assurance project plan and guidance documents prepared by the United States Environmental Protection Agency (USEPA) for the validation of organic and inorganic analytical data (USEPA 1990a and 1990b) as specified by NEESA document 20.2-047B. The data review and validation process is independent of the laboratory's checks because it is impossible to repeat the review conducted by the laboratory.

Samples that did not meet the acceptance limit criteria were qualified with a flag; single letter abbreviations that indicate a problem with the data. Data qualifiers used by the validators when amending the data include the following.

U — Undetected. The analyte was not detected above the contract required quantitation limit (CRQL). The "U" designator also is used to qualify laboratory contaminants. The "U" designator is applied to an environmental sample when the laboratory contaminant is detected in an environmental sample at a concentration less than 5 times (10 X for common contaminants) the value of the concentration detected in any corresponding field QC blank, method blank or preparation blanks.

J — Estimated. The analyte was present, but the reported value may not be accurate or precise. The "J" designator is used to qualify an analyte that was present at a concentration between the CRQL and method detection limit (MDL) or the data "failed" some of the analytical validation criteria but did not require rejections of the data. When combined with the U designator, the quantitation limit is estimated.

R — Rejected. Data was rejected by the data validator during comparison of the NEESA Level D data package with the analytical functional guideline criteria. The "R" designator indicates a significant variance in acceptable laboratory performance. Either re-analysis or re-sampling and analysis would be necessary to determine the presence or absence of the target analyte(s).

Once the data were reviewed and validated according to the guidance presented in NEESA document 20.2-047B, the data were evaluated by Heartland using the PARCCs criteria included in the Data Quality Objectives (DQOs) of the Work Plan for Naval Construction Battalion Center (NCBC) Gulfport, Mississippi. The following sections present a brief description of PARCCs criteria.

Precision. Precision is a measure of the agreement or repeatability of a set of replicate results obtained from duplicate laboratory analyses of samples collected from the same location/depth interval. Precision was calculated from laboratory analytical data and cannot be measured directly. Precision is expressed as the Relative Percent

Difference (RPD) between analytical values for two samples divided by the average of their analytical values. Precision is calculated using the expression:

$$RPD = (D1-D2) / (\tfrac{1}{2}(D1+D2)) \times 100$$

D1 and D2 are the reported values for the duplicate sample pair. Precision was evaluated using field duplicate samples and laboratory split samples (for example, MS/MSD samples).

Precision for environmental samples and their duplicates was assessed using a maximum RPD of 35 Percent for the soil matrix. Precision for MS/MSD samples was assessed by using the target analyte specific RPD criteria for the spiked compounds and the sample duplicates.

Accuracy. Accuracy is a measure of the agreement between an experimental determination and the true value of the parameter being measured. Accuracy can be calculated from the analytical data and was not measured directly. Accuracy is used to identify the bias in a given measurement system (i.e. laboratory conditions, sample matrix, and sampling conditions). Accuracy is assessed by reviewing the Percent Recovery (%R) between the true value of the spike analyte and the actual analytical value. Accuracy is calculated using the equation:

$$\%R = ((A-B)/C) \times 100$$

A = Measured concentration of the spiked analyte.
B = Measured concentration of the spiked compound in the unspiked sample.
C = True concentration of the spiked analyte.

For the dioxin/furan analysis, each of the samples was spiked with internal standard compounds, and each chosen matrix spike and matrix duplicate pair was spiked with a known reference material before digestion. Each of these approaches provides a measure of the matrix effects on the analytical accuracy.

Representativeness. Representativeness is a qualitative measure of the degree to which sample data accurately and precisely represent a characteristic environmental condition. Representativeness is a subjective parameter and is used to evaluate the efficacy of the sampling plan design. Representativeness was evaluated using the field and laboratory QC blank sample results. QC blank samples are equipment rinseate blanks, field blanks, trip blanks, laboratory method blanks for organic analysis and laboratory preparation blanks for inorganic analysis. Positive detection of target analytes in the QC blank samples identify contaminants that possibly were introduced to the associated environmental sample during sample collection, transport or laboratory analysis. Representativeness was also evaluated used the defined extraction and analytical holding time requirements set forth in the Work Plan for NCBC Gulfport or the analytical methodology.

Comparability. Comparability is qualitative measure designed to express the confidence with which one data set may be compared to another. Factors that affect comparability are: sample collection and handling techniques, sample matrix type, and analytical method. Comparability is limited by the other PARCC parameters because only when precision and accuracy are known can data sets be compared with confidence.

Completeness. Completeness is defined as the percentage of measurements that are judged to be valid compared to the total number of measurements made. Valid usable data are values that were not qualified as rejected (R qualifier) during data validation. A goal of 95 percent usable data was established in the Work Plan for NCBC, Gulfport, Mississippi. Completeness equals the total number of analytes for each matrix minus the total number of rejected analytes divided by the total number of analytes multiplied by 100.

2.0 PRECISION

The following section describes the evaluation of precision for the dioxin/furan fraction. Duplicate samples are evaluated for precision only when contaminants are detected in both the environmental sample and the sample's duplicate. A ND in the RPD column of the spreadsheet indicates that a RPD calculation was not required because one result was a non-detect and the other result was less than the compound CRQL. Environmental samples and their respective duplicates may not exhibit positive results for all compounds found at or near the contract required quantitation limit (CRQL) because of low levels of contamination found at a site. Duplicates with Relative Percent Differences (RPDs) within control limits indicate adequate sampling practices and/or good analytical precision. Duplicates with RPDs outside the control limits may result from inappropriate sampling procedures, matrix interferences, or non-homogeneity of the sample matrix. In addition, poor precision can be attributed to deviation(s) from the analytical methodology or to poor reproducibility of target compound concentrations at or near the required quantitation (CRQLs). The acceptance criteria for evaluating precision of field duplicates analytical results is a RPD of 35 for the soil matrix.

The percent of duplicate samples collected for the analytical parameters and sample matrices was greater than ten percent (10%) for the soil matrix as specified in the Work Plan for NCBC Gulfport, Mississippi. The following Sections summarize the evaluation of analytical precision for the soil matrix for the following analytical groups:

- Dioxin/Furan congeners

For the dioxin/furan fraction, results may be reported as estimated maximum possible concentrations (EMPCs). A result is reported as an EMPC if any of the qualitative identification criteria is not met. Generally, when a result must be reported as an EMPC it is due to the matrix of the sample. Results reported as EMPCs can impact the field duplicate precision measurement because the result is report as the maximum *possible* concentration (estimated).

Duplicate precision was assessed using both environmental sample and associated duplicates and matrix spike (MS)/matrix spike duplicates (MSDs) pairs for the dioxin/furan fraction.

Tabulation of the results of assessing duplicate precision and duplicate frequency are presented in Table 2-1. The results of the evaluation of precision for MS/MSD samples is provided in Table 2-2.

In addition, to assess whether instrument calibration for dioxin/furan analytical method resulted in non-compliant duplicate precision, tables were made of initial and continuing calibration outliers for each sample delivery group (SDG) and are included in the Appendices. Calibration criteria was met in the dioxin/furan fraction. Therefore, tables of calibration criteria were not required.

2.1 Soil Matrix

The dioxin/furan analysis of the field duplicate pairs of samples DI017D2P1 (page 2-2) and WL015D2P1 (2-4) exhibited acceptable RPDs for the sixteen (16) congeners detected (Table 2-1).

The dioxin/furan analysis of the field duplicate pair of samples D2012D2P1 exhibited non-compliant RPDs for two (2) of the seventeen (17) congeners reported (Table 2-1, page 2-3). The non-compliant congener 1,2,3,4,7,8-HxCDF exhibited a RPD of 36%. The non-compliance was slight and may be attributed to laboratory inconsistencies. The non-compliant congener 1,2,7,8,9-HxCDF exhibited a RPD of 57%. The congener was reported as an estimated maximum possible concentration (EMPC). The non-compliance for the congener 1,2,7,8,9-HxCDF may be attributed to the field sampling inconsistencies or the sample matrix. The non-compliant congener OCDD exhibited a RPD of 52%. The native concentration of OCDD in the sample was high enough to saturate the detector which affected precision measurements. The non-compliance for the congener

TABLE 2 - 1
DIOXIN/FURANS
SOIL SAMPLE AND DUPLICATE PRECISION
NCBC GULFPORT

SDG	SAMPLE ID	MATRIX	NO. ASSC. SAMPLES	COMPOUND	SAMPLE CONC.	DUP CONC	MAX RPD	RPD
43591	DI017D2P1	SOIL	7	2,3,7,8-TCDD	16.4	19.8	35%	19%
				1,2,3,7,8-PeCDD	5.8	6.4	35%	10%
				1,2,3,4,7,8-HxCDD	14.3	17	35%	17%
				1,2,3,6,7,8-HxCDD	55	64.3	35%	16%
				1,2,3,7,8,9,-HxCDD	38.2	44	35%	14%
				1,2,3,4,6,7,8,-HpCDD	2270	2680	35%	17%
				1,2,3,4,6,7,8,9-OCDD	2005	2000	35%	0%
				2,3,7,8,-TCDF	3	3.3	35%	10%
				1,2,3,7,8,-PeCDF	1.2	1.4	35%	15%
				2,3,4,7,8,-PeCDF	2.2	2.7	35%	20%
				1,2,3,4,7,8,-HxCDF	12.9	16.7	35%	26%
				1,2,3,6,7,8-HxCDF	4.6	5.6	35%	20%
				2,3,4,6,7,8-HxCDF	10.9	11.8	35%	8%
				1,2,3,4,6,7,8-HpCDF	74.3	88.9	35%	18%
				1,2,3,4,7,8,9-HpCDF	5.5	6.5	35%	17%
				1,2,3,4,6,7,8,9-OCDF	177	222	35%	23%
	TOTAL SAMPLES		7					

TABLE 2 - 1, continued
DIOXIN/FURANS
SOIL SAMPLE AND DUPLICATE PRECISION
NCBC GULFPORT

SDG	SAMPLE ID	MATRIX	NO. ASSC. SAMPLES	COMPOUND	SAMPLE CONC.	DUP CONC	MAX RPD	RPD
43607	D2012D2P1		8	2,3,7,8-TCDD	757	555	35%	31%
				1,2,3,7,8-PeCDD	13.2	16.1	35%	20%
				1,2,3,4,7,8-HxCDD	29.5	37.9	35%	25%
				1,2,3,6,7,8-HxCDD	76.3	96.4	35%	23%
				1,2,3,7,8,9,-HxCDD	63.6	80	35%	23%
				1,2,3,4,6,7,8,-HpCDD	1930	2280	35%	17%
				1,2,3,4,6,7,8,9-OCDD *	8270	14060	35%	52%
				2,3,7,8,-TCDF	39.3	30.2	35%	26%
				1,2,3,7,8,-PeCDF	4.8	5.4	35%	12%
				2,3,4,7,8,-PeCDF	5.5	6	35%	9%
				1,2,3,4,7,8,-HxCDF	18.5	26.7	35%	36%
				1,2,3,6,7,8-HxCDF	15.2	18.7	35%	21%
				2,3,4,6,7,8-HxCDF	18.1	20.8	35%	14%
				1,2,3,7,8,9-HxCDF **	0.61	1.1	35%	57%
				1,2,3,4,6,7,8-HpCDF	350	390	35%	11%
				1,2,3,4,7,8,9-HpCDF	20.4	22.5	35%	10%
				1,2,3,4,6,7,8,9-OCDF	732	766	35%	5%
	TOTAL SAMPLES		8					

* - Detector was saturated by OCDD concentration.
** - Value in the field sample was reported as an EMPC.

TABLE 2 - 1, continued
DIOXIN/FURANS
SOIL SAMPLE AND DUPLICATE PRECISION
NCBC GULFPORT

SDG	SAMPLE ID	MATRIX	NO. ASSC. SAMPLES	COMPOUND	SAMPLE CONC.	DUP CONC	MAX RPD	RPD
43622	WL015D2P1	SOIL	11	2,3,7,8-TCDD	55.1	51.9	35%	6%
				1,2,3,7,8-PeCDD	2.8	2.5	35%	11%
				1,2,3,4,7,8-HxCDD	4.8	4.6	35%	4%
				1,2,3,6,7,8-HxCDD	11.8	11.9	35%	1%
				1,2,3,7,8,9,-HxCDD	13.2	13.2	35%	0%
				1,2,3,4,6,7,8,-HpCDD	315	302	35%	4%
				1,2,3,4,6,7,8,9-OCDD	2700	2560	35%	5%
				2,3,7,8,-TCDF	8.7	7.6	35%	13%
				1,2,3,7,8,-PeCDF	0.99	1	35%	1%
				2,3,4,7,8,-PeCDF	1.8	1.3	35%	32%
				1,2,3,4,7,8,-HxCDF	6.7	5.3	35%	23%
				1,2,3,6,7,8-HxCDF	3.4	3.4	35%	0%
				2,3,4,6,7,8-HxCDF	4	4	35%	0%
				1,2,3,4,6,7,8-HpCDF	99.5	89.1	35%	11%
				1,2,3,4,7,8,9-HpCDF	5.7	4.8	35%	17%
				1,2,3,4,6,7,8,9-OCDF	195	207	35%	6%
	TOTAL SAMPLES		11					

% OF DUPLICATES COLLECTED	RPD IN	RPD OUT	% WITHIN RPD LIMIT
11.5%	46	3	93.9%

TABLE 2 - 2
DIOXIN/FURANS
SOIL SAMPLE MATRIX SPIKE/MATRIX SPIKE DUPLICATES
NCBC GULFPORT

MS = MATRIX SPIKE *SAMPLE DI017D2*		SDG 43591		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
D/F COMPOUNDS	UNITS			
2, 3, 7, 8 -TCDD	ppt	117	103	12.7
1, 2, 3, 7, 8-PECDD	ppt	95.3	90.4	5.28
1, 2, 3, 4, 7, 8-HXCDD	ppt	91.5	91.7	0.22
1, 2, 3, 6, 7, 8-HXCDD	ppt	112	103	8.37
1, 2, 3, 7, 8, 9-HXCDD	ppt	101	92.1	9.22
1, 2, 3, 4, 6, 7, 8-HPCDD	ppt	365*	224*	47.9*
OCDD	ppt	1000*	1300*	26.1*
2, 3, 7, 8-TCDF	ppt	96.3	97.7	1.44
1, 2, 3, 7, 8-PECDF	ppt	95.5	91.5	4.28
2, 3, 4, 7, 8-PECDF	ppt	89.6	89.4	0.22
1, 2, 3, 4, 7, 8-HXCDF	ppt	103	112	8.37
1, 2, 3, 6, 7, 8-HXCDF	ppt	106	104	1.9
2, 3, 4, 6, 7, 8-HXCDF	ppt	98.9	113	13.3
1, 2, 3, 7, 8, 9-HXCDF	ppt	98.5	108	9.2
1, 2, 3, 4, 6, 7, 8-HPCDF	ppt	92.6	85.8	7.62
1, 2, 3, 4, 7, 8, 9-HPCDF	ppt	88.4	85.4	3.45
OCDF	ppt	120	101	17.2

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

43591: DI019D2PI, DI020D2PI, DI018D2PI, DI017D2PI, DI017D2DI, DI021D2PI, DI023D2PI, DI022D2PI

COMPOUND	ADVISORY LIMITS		RPD
	%R SOIL		SOIL
ALL COMPOUNDS	70%-130%		20

TABLE 2 - 2
DIOXIN/FURANS
SOIL SAMPLE MATRIX SPIKE/MATRIX SPIKE DUPLICATES
NCBC GULFPORT

MS = MATRIX SPIKE *SAMPLE WL015D2*		SDG 43622		
MSD = MATRIX SPIKE DUPLICATE		MS	MSD	
RPD = RELATIVE PERCENT DIFFERENCE		%R	%R	%RPD
D/F COMPOUNDS	UNITS			
2, 3, 7, 8 -TCDD	ppt	99.8	105	5.08
1, 2, 3, 7, 8-PECDD	ppt	98	101	3.02
1, 2, 3, 4, 7, 8-HXCDD	ppt	95.1	94.6	0.53
1, 2, 3, 6, 7, 8-HXCDD	ppt	93.6	92.1	1.62
1, 2, 3, 7, 8, 9-HXCDD	ppt	91.2	89.8	1.55
1, 2, 3, 4, 6, 7, 8-HPCDD	ppt	89	99.1	10.7
OCDD	ppt	132*	151*	13.4
2, 3, 7, 8-TCDF	ppt	97.6	101	3.42
1, 2, 3, 7, 8-PECDF	ppt	98.8	97.4	1.43
2, 3, 4, 7, 8-PECDF	ppt	103	105	1.92
1, 2, 3, 4, 7, 8-HXCDF	ppt	97.3	97.6	0.31
1, 2, 3, 6, 7, 8-HXCDF	ppt	93.9	90.6	3.58
2, 3, 4, 6, 7, 8-HXCDF	ppt	105	101	3.88
1, 2, 3, 7, 8, 9-HXCDF	ppt	101	86.7	15.2
1, 2, 3, 4, 6, 7, 8-HPCDF	ppt	90.6	88.4	2.46
1, 2, 3, 4, 7, 8, 9-HPCDF	ppt	87.8	90.8	3.36
OCDF	ppt	68.1*	69.3*	1.75

*** DENOTES VALUE NOT WITHIN QA/QC ADVISORY LIMITS**

CORRESPONDING SDG'S AND ASSOCIATED SAMPLES

43622: WL011D2P1, WL012D2P1, WL013D2P1, WL014D2P1, WL015D2P1, WL016D2P1, WL017D2P1, WL018D2P1, WL019D2P1, WL020D2P1, WL021D2P1, WL015D2D1

COMPOUND	ADVISORY LIMITS		RPD
	%R SOIL		SOIL
ALL COMPOUNDS	70%-130%		20

OCDD may be attributed to the high native concentration of OCDD which affected the capacity of the laboratory instrumentati

The dioxin/furan analysis of the MS/MSD pair of sample DI017D2 exhibited non-compliant RPDs for the congeners 1,2,3,4,6,7,8-HpCDD and OCDD (Table 2-2). However, based on the assessment of additional QC criteria, the analytical data did not require qualification.

The dioxin/furan analysis of the MS/MSD pair of sample WL015D2 exhibited acceptable RPDs for all congeners (Table 2-2).

Based on assessment of duplicate precision evaluation criteria, the soil matrix analytical data was acceptable for each SDG with the noted potential for bias in samples D2012D2P1 and D2012D2P2 for the congener OCDD.

3.0 ACCURACY

The assessment of accuracy is evaluated by comparison of the percent recovery (%R) computed from the known concentration of analyte spikes and their recovered concentration versus the analytical method acceptance criteria. Spike recoveries provide an indication of bias, where the reported data may either overestimate or underestimate the actual concentration of detected compounds and/or the detection limits. Recoveries outside acceptable criteria may be caused by factors such as matrix interference, poor analytical precision, or instrument calibration.

The following Sections summarize the evaluation of analytical accuracy for the water matrix for the following analytical groups:

- Dioxin/Furan Fraction

Accuracy was assessed using MS and MSD samples as well as internal standard recoveries for the dioxin/furan fraction. The results of the evaluation of accuracy for the MS/MSD samples is provided in Table 2-2 for soil matrix. The results of the evaluation of accuracy for the internal standard recoveries in the samples are provided in Table 3-1 for the soil matrix.

3.1 Water Matrix

The water matrix for this sampling event consisted of field QC blanks only. All of the internal standard recoveries for the water samples exhibited acceptable recoveries (Table 3-1).

3.2 Soil Matrix

The MS/MSD pair of sample DI017D2 analyzed for the dioxin/furan fraction exhibited non-compliant recoveries for the congeners 1,2,3,4,6,7,8-HpCDD and OCDD (Table 2-2). The native concentrations of both congeners were high. Based on the assessment of additional QC criteria, the analytical data did not require qualification.

The MS/MSD pair of sample WL015D2 analyzed for the dioxin/furan fraction exhibited non-compliant recoveries for the congeners OCDD and OCDF (Table 2-2). However, based on the assessment of additional QC criteria, the analytical data did not require qualification.

One (1) sample analyzed for the dioxin/furan fraction exhibited an 13C12-1,2,3,4,6,7,8,9-OCDD recovery which was below the QC limits (Table 3-2). This indicates that reported results in the sample for the congeners OCDD and OCDF may be underestimated. Therefore, reported positive and non-detect results for the congeners OCDD and OCDF in sample DI019D2P1(SDG 43591) were appropriately qualified as estimated, J/UJ.

Eight (8) samples analyzed for the dioxin/furan fraction exhibited 13C12-1,2,3,4,6,7,8,9-OCDD recoveries which were above the QC limits (Table 3-2). This indicates that reported results in the samples for the congeners OCDD and OCDF may be overestimated. Therefore, reported positive results for the congeners OCDD and OCDF in samples WL012D2P1, WL013D2P1, WL015D2P1, WL016D2P1, and WL017D2P1 in SDG 43622, and samples BB007D2P1, BB009D2P1 and BB005D2P1 in SDG 43644 were appropriately qualified as estimated, J.

Two (2) samples analyzed for the dioxin/furan fraction exhibited 13C12-1,2,3,4,6,7,8-HpCDD and 13C12-1,2,3,4,6,7,8,9-OCDD recoveries which were above the QC limits (Table 3-2). This indicates that reported results in the sample for the congeners HpCDD, OCDD, and OCDF may be overestimated. Therefore, reported positive results for the congeners HpCDD, OCDD and OCDF in samples WL018D2P1 in SDG 43622 and WL018D2P1 in SDG 43644 were appropriately qualified as estimated, J.

TABLE 3 - 1
WATER SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT

	SDG 43591		SDG 43622	
	QARI114	QARI105	QADI106	QARI115
I.S. COMPOUND				
13C12-2, 3, 7, 8-TCDF	78.5	58.8	92.6	99.3
13C12-2, 3, 7, 8-TCDD	71.6	54.9	84.2	94
13C12-1, 2, 3, 7, 8,-PECDF	72.7	63	85.6	93.7
13C12-1, 2, 3, 7, 8-PECDD	77.6	67.5	90.9	95.4
13C12-1, 2, 3, 6, 7, 8-HXCDF	97.5	98.7	95.1	99.9
13C12-1, 2, 3, 6, 7, 8-HXCDD	95.2	94.2	104	109
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	75.6	93.2	88.3	104
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	77	94.9	92.6	105
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	75.6	101	70.8	76.9
TOTAL OUT	0	0	0	0

COMPOUND	QC LIMITS
	%R WATER
13C12-2, 3, 7, 8-TCDF	40%-135%
13C12-2, 3, 7, 8-TCDD	40%-135%
13C12-1, 2, 3, 7, 8,-PECDF	40%-135%
13C12-1, 2, 3, 7, 8-PECDD	40%-135%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-135%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-135%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	40%-135%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	40%-135%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	40%-135%

* - VALUE OUTSIDE OF QC LIMITS

# SAMPLES	% REC IN	% REC OUT	% TOTAL IN
4	36	0	100.0%

TABLE 3 - 2
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT

	SDG 43591							
	DI019D2PI	DI020D2PI	DI018D2PI	DI017D2PI	DI017D2DI	DI017D2MS	DI017D2MD	DI021D2PI
I.S. COMPOUND								
13C12-2, 3, 7, 8-TCDF	51.2	60.8	73.6	77.3	58.8	62.0	69.4	63.6
13C12-2, 3, 7, 8-TCDD	48.6	62.3	75.4	71.4	55.7	58.2	65.9	64.3
13C12-1, 2, 3, 7, 8,-PECDF	44.4	58.5	71.2	80.0	66.7	56.8	61.2	67.2
13C12-1, 2, 3, 7, 8-PECDD	45.2	72.7	71.4	84.9	73.1	55.3	65.1	73.2
13C12-1, 2, 3, 6, 7, 8-HXCDF	53.3	58.0	83.5	66.2	56.9	62.3	58.2	60.5
13C12-1, 2, 3, 6, 7, 8-HXCDD	53.6	73.0	74.4	79.4	61.8	65.1	72.9	65.6
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	39.8	58.0	63.1	66.1	51.4	57.1	52.6	66.5
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	36.9	65.0	56.7	66.1	48.9	55.8	51.3	71.8
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	23.2*	50.7	37.3	48.7	35.2	37.6	27.6	97.7
TOTAL OUT	1	0	0	0	0	0	0	0

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-135%
13C12-2, 3, 7, 8-TCDD	40%-135%
13C12-1, 2, 3, 7, 8,-PECDF	40%-135%
13C12-1, 2, 3, 7, 8-PECDD	40%-135%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-135%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-135%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	40%-135%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	40%-135%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	40%-135%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT

	SDG 43591(CONTINUED)		SDG 43607					
	DI023D2PI	DI022D2PI	D5018D2P1	D5020D2P1	D5021D2P1	D5019D2P1	D2010D2P1	D2011D2P1
I.S. COMPOUND								
13C12-2, 3, 7, 8-TCDF	69.9	45.0	72.6	61.7	81.9	81.8	76.0	82.2
13C12-2, 3, 7, 8-TCDD	70.1	44.0	76.6	62.6	79.6	76.3	76.5	81.7
13C12-1, 2, 3, 7, 8,-PECDF	74.4	47.9	75.0	61.5	85.8	80.3	74.8	87.0
13C12-1, 2, 3, 7, 8-PECDD	90.3	51.4	83.2	65.2	92.0	88.9	81.7	97.7
13C12-1, 2, 3, 6, 7, 8-HXCDF	65.2	41.4	75.1	63.0	83.5	86.4	81.8	78.1
13C12-1, 2, 3, 6, 7, 8-HXCDD	75.9	45.4	83.9	67.2	81.3	86.0	81.2	81.8
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	78.2	41.9	73.5	59.6	76.8	88.3	84.6	82.9
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	84.7	47.3	84.0	66.9	85.0	93.2	90.5	91.9
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	106.0	58.3	96.4	54.2	93.3	99.7	103.0	96.8
TOTAL OUT	0	0	0	0	0	0	0	0

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-135%
13C12-2, 3, 7, 8-TCDD	40%-135%
13C12-1, 2, 3, 7, 8,-PECDF	40%-135%
13C12-1, 2, 3, 7, 8-PECDD	40%-135%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-135%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-135%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	40%-135%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	40%-135%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	40%-135%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT

	SDG 43607 (CONTINUED)			SDG 43622				
	D2012D2P1	D2012D2D1	D2013D2P1	WL011D2P1	WL012D2P1	WL013D2P1	WL014D2P1	WL015D2P1
I.S. COMPOUND								
13C12-2, 3, 7, 8-TCDF	73.4	77.7	74.6	76.7	86.9	91.6	73.7	89.1
13C12-2, 3, 7, 8-TCDD	75.5	78.7	73.6	81.3	91.2	90.8	74.6	90.8
13C12-1, 2, 3, 7, 8,-PECDF	83.8	79.6	73.6	73.0	90.0	90.9	73.7	88.0
13C12-1, 2, 3, 7, 8-PECDD	97.5	84.7	78.8	87.5	95.6	95.0	76.9	93.6
13C12-1, 2, 3, 6, 7, 8-HXCDF	68.6	79.7	84.5	82.8	90.5	97.4	79.5	89.6
13C12-1, 2, 3, 6, 7, 8-HXCDD	73.2	82.1	81.0	96.5	97.2	104.0	83.6	96.9
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	73.5	80.9	82.6	93.1	103.0	107.0	88.9	100.0
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	81.8	86.4	78.5	109.0	118.0	120.0	96.2	113.0
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	87.2	93.0	75.9	130.0	144*	148*	114.0	140*
TOTAL OUT	0	0	0	0	1	1	0	1

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-135%
13C12-2, 3, 7, 8-TCDD	40%-135%
13C12-1, 2, 3, 7, 8,-PECDF	40%-135%
13C12-1, 2, 3, 7, 8-PECDD	40%-135%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-135%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-135%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	40%-135%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	40%-135%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	40%-135%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT

	SDG 43622 (CONTINUED)							
	WL016D2P1	WL017D2P1	WL018D2P1	WL019D2D1	WL020D2P1	WL021D2P1	WL015D2D1	WL015D2MS
I.S. COMPOUND								
13C12-2, 3, 7, 8-TCDF	96.5	98.4	107.0	74.3	108.0	91.4	87.9	117.0
13C12-2, 3, 7, 8-TCDD	97.8	94.7	105.0	77.5	106.0	93.9	86.1	86.4
13C12-1, 2, 3, 7, 8,-PECDF	98.2	96.4	119.0	77.9	109.0	99.2	94.2	106.0
13C12-1, 2, 3, 7, 8-PECDD	102.0	98.7	127.0	86.5	115.0	104.0	101.0	114.0
13C12-1, 2, 3, 6, 7, 8-HXCDF	100.0	107.0	103.0	89.3	112.0	99.7	97.9	98.4
13C12-1, 2, 3, 6, 7, 8-HXCDD	109.0	111.0	111.0	96.4	112.0	104.0	103.0	101.0
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	110.0	114.0	121.0	96.0	101.0	105.0	104.0	110.0
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	122.0	122.0	138*	106.0	105.0	112.0	111.0	104.0
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	153*	149*	181*	123.0	90.3	113.0	120.0	93.1
TOTAL OUT	1	1	2	0	0	0	0	0

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-135%
13C12-2, 3, 7, 8-TCDD	40%-135%
13C12-1, 2, 3, 7, 8,-PECDF	40%-135%
13C12-1, 2, 3, 7, 8-PECDD	40%-135%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-135%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-135%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	40%-135%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	40%-135%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	40%-135%

* - VALUE OUTSIDE OF QC LIMITS

TABLE 3 - 2
SOIL SAMPLE INTERNAL STANDARDS % RECOVERIES
DIOXIN/FURAN
NCBC GULFPORT

	43622 (CONT'D)	SDG 43644						
	WL015D2MD	BB006D2P1	BB007D2P1	BB008D2P1	BB009D2P1	BB005D2P1	BC006D2P1	BC007D2P1
I.S. COMPOUND								
13C12-2, 3, 7, 8-TCDF	109.0	110.0	115.0	67.7	108.0	106.0	119.0	123.0
13C12-2, 3, 7, 8-TCDD	96.8	85.8	94.3	63.0	86.4	92.1	97.0	99.5
13C12-1, 2, 3, 7, 8,-PECDF	115.0	102.0	110.0	70.6	109.0	114.0	129.0	132.0
13C12-1, 2, 3, 7, 8-PECDD	116.0	105.0	117.0	75.8	112.0	120.0	131.0	133.0
13C12-1, 2, 3, 6, 7, 8-HXCDF	115.0	88.9	88.4	61.5	83.4	87.4	95.6	103.0
13C12-1, 2, 3, 6, 7, 8-HXCDD	114.0	88.6	89.5	63.3	81.3	92.7	93.0	100.0
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	111.0	135.0	111.0	82.8	108.0	111.0	100.0	112.0
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	124.0	150*	132.0	91.1	120.0	113.0	101.0	106.0
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	121.0	228*	177*	124.0	153*	138*	93.4	96.5
TOTAL OUT	0	2	1	0	1	1	0	0

COMPOUND	QC LIMITS
	%R SOIL
13C12-2, 3, 7, 8-TCDF	40%-135%
13C12-2, 3, 7, 8-TCDD	40%-135%
13C12-1, 2, 3, 7, 8,-PECDF	40%-135%
13C12-1, 2, 3, 7, 8-PECDD	40%-135%
13C12-1, 2, 3, 6, 7, 8-HXCDF	40%-135%
13C12-1, 2, 3, 6, 7, 8-HXCDD	40%-135%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDF	40%-135%
13C12-1, 2, 3, 4, 6, 7, 8-HPCDD	40%-135%
13C12-1, 2, 3, 4, 6, 7, 8, 9-OCDD	40%-135%

* - VALUE OUTSIDE OF QC LIMITS

# SAMPLES	% REC IN	% REC OUT	% TOTAL IN
40	347	13	96.4%

Based on assessment of MS/MSD and internal standard accuracy evaluation criteria, the soil matrix analytical data was acceptable for each SDG with the noted potential for over- or underestimation in the noted samples due to non-compliant internal standard recoveries.

4.0 REPRESENTATIVENESS

Representativeness of the environmental sample analytical data was assessed using trip blanks, field blanks, equipment rinseate blanks, and laboratory method blanks. The environmental samples and associated blanks were analyzed for the following target analyte groups:

- Dioxin/Furan Fraction

Field blanks, equipment rinseate blanks, and laboratory method blanks were analyzed for target congeners in the listed category. The assessment of representativeness is summarized in tabular form for those blanks which exhibited contamination causing impact on the field sample results. Method blank results are presented in Table 4-1. The field and equipment rinseate blanks did not exhibit contamination.

If contaminants were detected in a blank, corrective actions were made for the chemical analytical data during data validation by Heartland. The corrective action consisted of amending the laboratory reported results for organic and inorganic target analytes by the criteria. The following describes the Validation Qualifier code in the blank summary tables.

Organic Target Analytes

- CRDL Validation Qualifier. If a sample result for the blank contaminant was less than the CRQL and less than 5 times the blank value (10 times for common laboratory contaminants), the sample result was rejected and amended as estimated non-detected at the CRQL for the target compound.

- U Validation Qualifier. If a sample result for the blank contaminant was greater than the sample CRQL and less than 5 times the blank value (10 times for common laboratory contaminants), the sample result for the blank contaminant was amended as non detect at the concentration reported in the sample results.

- No Action (NA). If a sample result for the blank contaminant was greater than the CRQL and 5 time the blank value (10 times for common laboratory contaminants), the result was not amended.

4.1 Method Blanks

The method blanks were samples of deionized water prepared by the laboratory at the time of analysis. Method blanks undergo the same analytical process as the corresponding environmental samples and associated field blanks. The purpose of the method blank is to assess the potential for target compounds and analytes to "contaminate" the sample during analysis.

Target congeners detected in the method blank samples and requiring qualification of field samples consisted of:

- Dioxin/Furans (Table 4-1)
  2,3,4,6,7,8-HxCDF
  1,2,3,4,7,8-HxCDF
  1,2,3,6,7,8-HxCDF
  1,2,3,4,6,7,8,9-OCDF
  2,3,7,8-TCDF
  1,2,3,4,6,7,8-HpCDF
  1,2,3,4,6,7,8,9-OCDD
  1,2,3,7,8,9-HxCDF

TABLE 4 - 1
DIOXIN/FURANS DETECTED IN METHOD BLANKS
NCBC GULFPORT

SDG NUMBER	BLANK ID	RELATED ENVIRONMENTAL SAMPLES	CONTAMINANT	MB CONC.	UNITS	VAL QUAL
43591	TLI WATER BLANK	QARI114	2,3,4,6,7,8-HxCDF	7.8	ppq	U
	TLI SOLID BLANK	DI020D2PI	1,2,3,4,7,8-HcCDF	0.23	ppt	U
			1,2,3,6,7,8-HxCDF	0.09	ppt	U
			2,3,4,6,7,8-HxCDF	0.53	ppt	U
			1,2,3,4,6,7,8,9-OCDF	0.57	ppt	U
	TLI SOLID BLANK	DI018D2PI, DI021D2PI, DI022D2PI, DI023D2PI	2,3,7,8-TCDF	0.37	ppt	U
		DI018D2PI, DI023D2PI	1,2,3,4,7,8-HxCDF	0.32	ppt	U
		DI018D2PI, DI023D2PI	2,3,4,6,7,8-HxCDF	0.60	ppt	U
		DI023D2PI	1,2,3,4,6,7,8-HpCDF	1.8	ppt	U
		DI023D2PI	1,2,3,4,6,7,8,9-OCDF	2.4	ppt	U
43622	TLI WATER BLANK	QADI106, QARI115	1,2,3,4,6,7,8-HpCDD	1.5	ppq	U
			1,2,3,4,6,7,8,9-OCDD	14.1	ppq	U
			1,2,3,4,7,8-HxCDF	1.4	ppq	U
			1,2,3,6,7,8-HxCDF	0.53	ppq	U
			2,3,4,6,7,8-HxCDF	3.7	ppq	U
			1,2,3,7,8,9-HxCDF	0.96	ppq	U
43664	TLI SOLID BLANK	BB006D2P1, BB007D2P1, BB008D2P1, BB009D2P1, BB005D2P1, BC006D2P1, BC007D2P1	2,3,7,8-TCDF	0.50	ppt	U
		BB007D2P1, BB005D2P1, BC007D2P1	2,3,4,6,7,8-HxCDF	0.62	ppt	U

The dioxin/furan contamination is not commonly found in the laboratory. This contamination may be attributed to the glassware used in sample preparation.

Due to contamination, some of the dioxin/furan analytical data required qualifications. However, based on assessment of method blanks for representativeness the analytical data was acceptable for the SDG.

4.4 Holding Times

Holding times requirements are utilized in an effort to minimize the degradation or concentration of constituents in a particular matrix over time. The stability of the constituents is determined to the best extent and then a reasonable time limit is imposed under which the samples must be extracted or prepared and then analyzed. The holding times regulations assume that the samples have been properly preserved according to the guidelines, either at the laboratory or in the field. Analytical results from samples with holding time violations are qualified as estimated, J/UJ, due to the potential for compromising the integrity of the samples.

All holding times requirements, extraction and analytical, were met for all samples, for the dioxin/furan analytical fraction.

5.0 COMPARABILITY

Comparability is qualitative measure designed to express the confidence with which one data set may be compared to another. The analytical samples were collected and transported to the chemical analytical laboratory in accordance with standard procedures and were analyzed in conformance with acceptable USEPA procedures (Refer to Table 5-1 below). The analytical data are reported in standard units (micrograms per liter, micrograms per kilogram, etc.).

The methods used to collect the environmental samples and the methods used to analyze the samples should assure comparability of the analytical data.

TABLE 5-1
USEPA Procedures (CLP or SW-846 Methodologies)

U.S. EPA Method	Description
SW-846, Method 8290	Dioxin/Furan Fraction

6.0 COMPLETENESS

Completeness is the quantitative measure of the amount of data obtained from a measurement process compared with the amount expected to be obtained under the conditions of measurement. The completeness goal for laboratory analysis for this project was 95 percent useable data. Unusable analytical data are those results reported by the laboratory but rejected during the data validation process. A summary of the completeness goal for NCBC Gulfport is provided in Table 6-1. For more detailed completeness goal tables, please refer to Appendix C.

TABLE 6-1
COMPLETION GOAL (>95%)

	QC	S	OVERALL
Dioxin/Furans	100.0	100.0	100.0

MATRIX KEY

QC = QC Samples
S = Soil Samples

The analytical data met the 85 percent completeness goal for the fraction. The narrative following describes any extenuating factors involved in the data resolution.

The following narrative is a detailed description of situations in data resolution not previously discussed.

Dioxin/Furans

Samples D2012D2P1/D2012D2D1 in SDG 43607 reported a "greater than concentration" for OCDD instead of quantitatable results. This "greater than concentration" was due to the fact that the mass spectrometer was saturated with native OCDD. However, the laboratory should have adjusted the sample aliquot to reflect the concentration of OCDD and re-extracted the sample.

7.0 PARCC SUMMARY

The purpose of evaluating the quality of the analytical data using the PARCC criteria was to address the qualification of the data in regards to evaluation of the presence, magnitude and characteristics of hazardous substances at NCBC Gulfport. Overall, the chemical analytical data are acceptable and exceeded the completion goal of 95 percent for all fractions except cyanide. Tables 7-1 and 7-2 provides a tabulation of the assessment of PARCC criteria for the SDGs for the soil samples and quality control samples, respectively.

7.1 Soil Samples

No data points were rejected. The completion goal was met.

7.2 Quality Control Samples (Field QC Blanks and Field Duplicates)

No data points were rejected. The completion goal was met.

TABLE 7 - 1
PARCC CRITERIA SUMMARY
SOIL SAMPLES
NCBC GULFPORT

SDGs	PRECISION	ACCURACY	REPRESENT-ATIVENESS	COMPARABILITY	COMPLETENESS
43591	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
43607	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
43622	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
43644	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE

TABLE 7 - 2
PARCC CRITERIA SUMMARY
QUALITY CONTROL SAMPLES
NCBC GULFPORT

SDGs	PRECISION	ACCURACY	REPRESENT-ATIVENESS	COMPARABILITY	COMPLETENESS
43591	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
43607	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE
43622	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE

REFERENCES

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APPENDIX A

REJECTED DATA SUMMARY

TABLE A - 1
DIOXIN/FURANS - REJECTED DATA
NCBC GULFPORT

SDG	# SAMPLES/MATRIX			# OF COMPOUNDS REJECTED PER MATRIX		
	QC	SOIL	H20	QC	SOIL	H20
43591	3	7	0	0	0	0
43607	1	8	0	0	0	0
43622	3	11	0	0	0	0
43644	0	7	0	0	0	0
GRAND TOTAL	7	33	0	0	0	0
COMPLETION GOAL 95%				100.0%	100.0%	100.0%

OVERALL COMPLETENESS
100.0%

MATRIX KEY

QC = QC SAMPLES (RINSEATE BLANKS, TRIP BLANKS, FIELD BLANKS & FIELD DUPLICATES)
SOIL = SOIL & SEDIMENT SAMPLES
H20 = GROUNDWATER & SURFACE WATER SAMPLE

* 17 TARGET COMPOUNDS PER SAMPLE