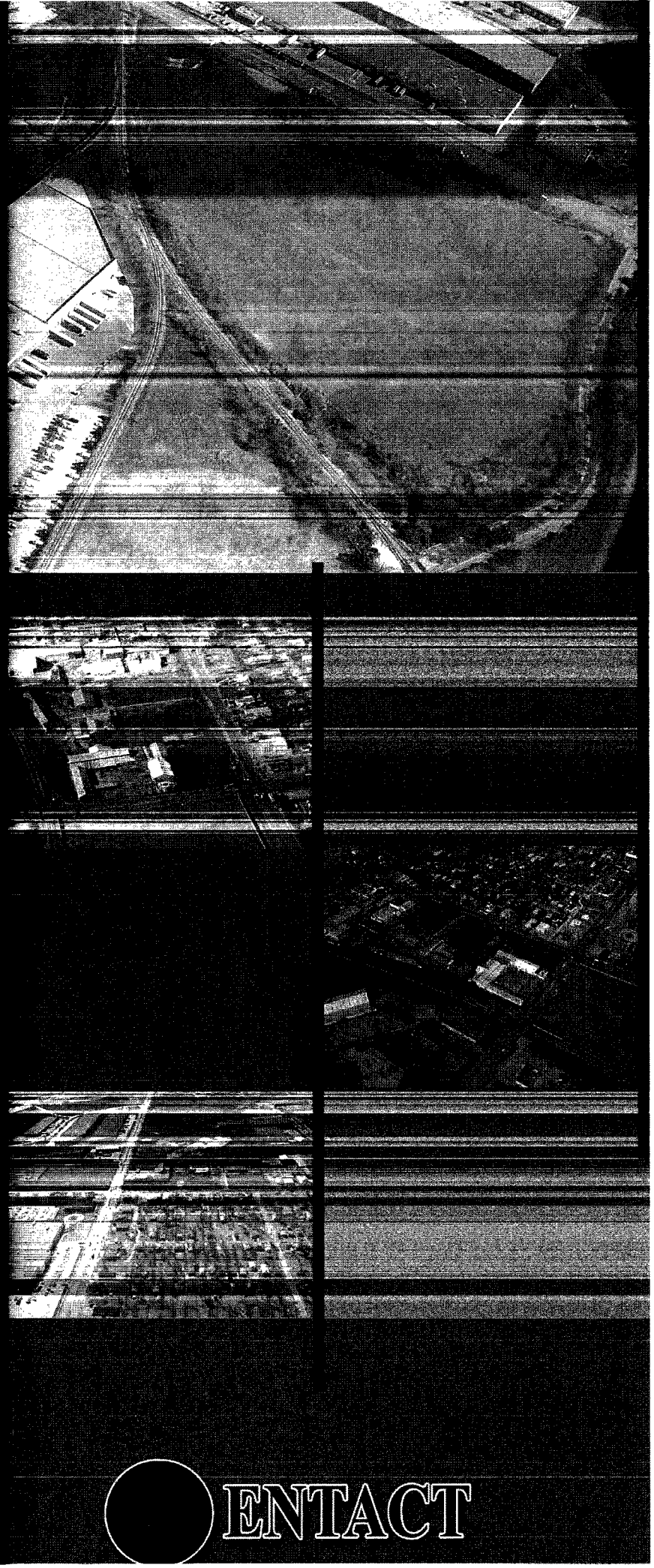

RSR CORPORATION

DRAFT REMEDIAL ACTION REPORT

RSR Corporation
Superfund Site
Subareas 2, 3 and 4
Operable Unit No. 5
Dallas, Texas

Transmittal Document No. 54.1

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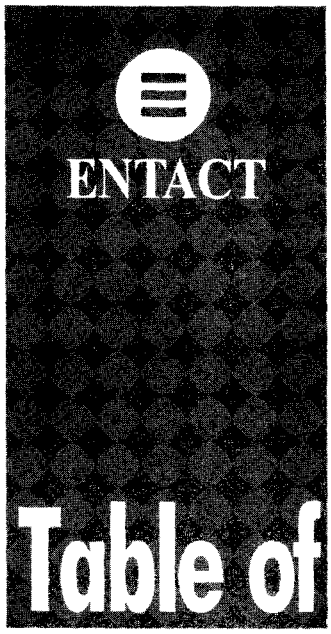
December 19, 2003

ENTACT



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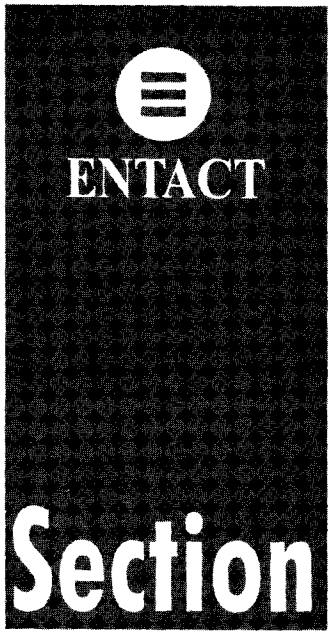
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INTRODUCTION 1.0

In accordance with the April 3, 1997 Record of Decision (ROD) (U.S. EPA, 1997), the June 19, 2003 Final Remedial Design/Remedial Action (RD/RA) Workplan (ENTACT, 2003) and the July 21, 2003 Consent Decree for Quemetco Metals Limited, Inc., Quemetco, Inc., and RSR Corporation (U.S. EPA, 2003), ENTACT has developed this Remedial Action Report to describe activities implemented as part of the remedial action at the RSR Corporation Superfund Site, Operable Unit No. 5, Subareas 2, 3 and 4 (RSR OU5 Site) located in Dallas, Texas. This Remedial Action Report includes a description of the remedial action activities performed at the RSR OU5 Site to address the existing landfill and other contaminated soils from the initiation of remedial activities in June 2003 to the completion of remedial activities in October 2003.

This report consists of six sections, as summarized below:

- Section 1.0: Describes the site location and regulatory history, and provides a summary of the remedial action objectives and the remedial action activities executed at the RSR OU5 Site.
- Section 2.0: Describes the mobilization, site preparation and remedial action activities conducted during the remedial action.
- Section 3.0: Describes the project reporting activities.
- Section 4.0: Describes the operation and maintenance activities to be conducted.
- Section 5.0: Includes the signed certification statement for the completion of remedial action activities.
- Section 6.0: Includes references.

1.1 Site Location and Description

The RSR Corporation Superfund Site is located in Dallas, Texas and encompasses an area approximately 13.6 square miles in size. The Site is divided into five operable units: OU1 comprises the privately owned residential property; OU2 comprises the Dallas Housing Authority public housing development; OU3 comprises the former landfills and smelter waste disposal areas; OU4 comprises the secondary lead smelter property; and OU5 comprises the battery breaking facility and other industrial properties. OU5 is the subject of this Remedial Action Report and consists of the industrial property located across the street from the former secondary lead smelter (OU4). OU5 is divided into four Subareas. This Remedial Action Report covers the remedial activities conducted at Subareas 2, 3 and 4 of OU5.

Subarea 2 consists of approximately 23 acres of land bounded on the east by Westmoreland Road, on the north and west by a railroad track, and on the south by La Reunion Parkway. Located within Subarea 2 is a landfill that covers approximately 12 acres. Materials found within the landfill include shredded car parts, slag, battery chips, municipal waste, and other industrial waste materials. Subarea 3 consists of approximately 12 acres of land located south of La Reunion Parkway. Approximately 1 acre of the 12-acre lot was addressed during the remedial action. Subarea 4A is located at the southwest corner of Singleton Boulevard and Westmoreland Road and consists of approximately one acre. Two additional properties (4B and 4C) located adjacent to and west of 4A, consisting of approximately 5 acres, were identified by the RSR Corporation as OU5 associated properties. These additional properties were voluntarily included in the OU5 remedial action. The general location of Subareas 2, 3 and 4 of OU5 are shown on Figure 1. The layout of each subarea is shown on Figure 2.

1.2 Site History

A number of activities were conducted at OU5 in support of operation of the secondary lead smelter located across Westmoreland Road in OU4. Among other things, batteries were disassembled at the battery breaking facility located in OU5 using hammer mills to break the batteries into small pieces. The lead posts and grids were then sent across the street to the smelter facility to produce soft pure lead or specialty alloys. Vehicle maintenance and waste handling and disposal activities, including operation of a surface impoundment, landfill and other slag burial areas occurred at OU5.

During 1984 and 1985, the Texas Commission on Environmental Quality (TCEQ) conducted inspections of the smelter and battery breaking facilities and identified several violations that involved the treatment, storage or disposal of hazardous waste. In 1986, TCEQ approved a closure plan to be implemented by the Murmur Corporation for portions of the battery breaking facility located at OU5. However, Murmur was unable to obtain certification by TCEQ of final closure, due to a dispute between Murmur and its contractor. In June 1991, the State of Texas referred the case, regarding the closure of OU5, to the U.S. EPA Superfund program for assessment. Immediately following this referral, TCEQ began receiving complaints from residents alleging that slag and battery chips were disposed of on their properties.

In 1991, the U.S. Environmental Protection Agency (EPA) began soil sampling in the area to determine if soil lead contamination was present. The results indicated that lead contamination existed in some residential areas (OU1) near the smelter, where fallout of emissions contamination from the smelter stack had occurred and where battery chips or slag was used as fill in residential yards and driveways. As a result of the findings of the investigation, U.S. EPA conducted an emergency removal action in the residential areas, which consisted of the removal and off-site disposal of contaminated soil and debris in excess of the removal action cleanup levels. This removal action was completed in June 1994.

In 1993, an investigation and removal action at the public housing residential area (OU2) was undertaken by the Dallas Housing Authority under U.S. EPA oversight pursuant to a Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Administrative Order on Consent. In 1993, U.S. EPA also initiated remedial investigations (RI) and feasibility studies (FS) of the smelter and related properties (OUs 4 and 5) and several alleged smelter waste disposal areas (OU3) pursuant to CERCLA and the National Contingency Plan, 40 CFR 300. The purpose of the RI was to characterize the nature and extent of contamination and develop sufficient information to make remedial alternative selections that would eliminate, reduce or control risks to human health and the environment. On May 10, 1993, U.S. EPA proposed the addition of the RSR Site to the National Priorities List (NPL) of Superfund sites (58 Fed. Reg. 27507).

U.S. EPA conducted a field investigation of OUs 4 and 5 in the spring of 1994. During the field investigation, three areas of immediate concern were identified. The three areas of immediate concern consisted of more than 500 drums of waste, 73 uncontained piles of residual waste/debris and approximately 50 laboratory chemical containers. Analytical results from drum samples showed the presence of various organic contaminants and high concentrations of lead (up to 50,000 ppm), arsenic (up to 60,000 ppm) and cadmium (up to 1,100 ppm). Results from the residual waste/debris samples also showed high concentrations of lead (up to 143,500 ppm), arsenic (up to 11,150 ppm) and cadmium (up to 4,400 ppm). In July 1994, U.S. EPA authorized the preparation of an Engineering Evaluation/Cost Analysis (EE/CA) report to support the conduct of a non-time critical removal action to abate the immediate threat to human health and environment posed by the presence of the drums, residual waste/debris piles and laboratory containers at OU4 and Subarea 1 of OU5. In September 1994, U.S. EPA proposed for public comment a removal action that entailed the removal and off-site treatment and disposal of all drums, residual waste/debris piles and laboratory containers. Following the comment period, an Action Memorandum authoriz-

ing the removal action was signed on December 22, 1994. U.S. EPA commenced the non-time critical removal action on May 30, 1995 and completed these activities by July 14, 1995. The action consisted of the removal of 600 drums of waste material, 90 debris piles and 60 laboratory containers present inside and outside of the structures and buildings at OUs 4 and 5.

On September 29, 1995, the RSR Corporation Superfund Site was finalized on the NPL (60 Fed. Reg. 50435). U.S. EPA conducted a RI/FS for OUs 4 and 5 in March 1995 and signed the Record of Decision for OU5 on April 3, 1997. The ROD for OU5 summarizes the findings of the comprehensive field investigation. Pursuant to Section 117 of CERCLA, 42 USC 9617, U.S. EPA published a notice of the proposed plan for remedial action for OU5 and provided opportunity for public comment on the proposed remedial action. The decision by EPA on the remedial action to be implemented at OU5 is embodied in a final ROD, executed on April 3, 1997, on which the State has given its concurrence.

On May 15, 2003, U.S. EPA and the RSR Corporation lodged a Consent Decree for remedial design and remedial action for Subareas 2, 3 and 4 of RSR OU5. The Court entered the Consent Decree on July 21, 2003.

1.3 Summary of Remedial Action Objectives and Remedial Action Activities

1.3.1 Remedial Action Objectives

The major component of the remedy selected by U.S. EPA for Subareas 2, 3 and 4 of OU5 includes:

- Containment of the former landfill and other impacted soils exceeding the remedial action goals developed for OU5.

The selected remedy was designed to eliminate or minimize the threat of exposure to lead, arsenic, antimony, and other contaminants through direct contact, inhalation and ingestion by on-site containment of the contamination. In order to meet these remedial objectives, remedial action goals were established for the former landfill area and the other impacted soils located outside of the former landfill area. These goals are as follows:

Former Landfill
- Lead: 2,000 ppm
- Arsenic: 32.7 ppm
- Antimony: 818 ppm

Other Soils
- Lead: 2,000 ppm
- Arsenic: 32.7 ppm

Remedial activities associated with Subareas 2, 3 and 4 of OU5 accomplished the ROD remedy by the consolidation of impacted soils and containment of the former landfill and soils using a clay cover to meet the applicable remedial action goals. This Remedial Action Report addresses only the ROD remedy for Subareas 2, 3 and 4 of OU5.

1.3.2 Remedial Action Activities

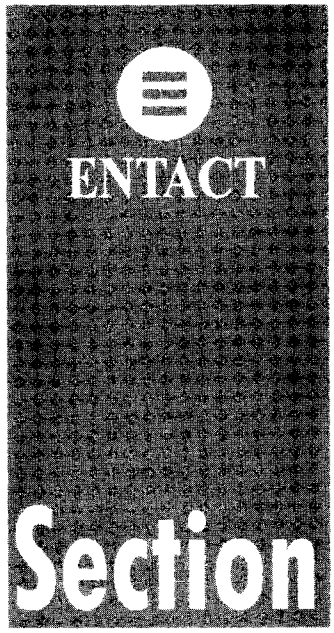
Mobilization and site preparation activities were initiated at the Site in June 2003. Mobilization procedures included installing temporary support facilities and utilities; establishing erosion, sedimentation, stormwater, and dust control measures; constructing temporary site access roads for trucks and equipment; mobilizing the necessary personnel and equipment; identifying the locations of on-site utilities; procuring access agreements for off-site air samplers; initiating baseline time-integrated air monitoring; conducting surface preparation activities; and establishing initial survey controls and limits of the ROD landfill in Subarea 2 and the ROD sample location in Subarea 3.

Remedial action activities were initiated at the Site in July 2003. Remedial activities included the installation of 21 investigative trenches along the field-located limit of the ROD landfill in Subarea 2 to verify the actual landfill location; investigation of Subareas 4A, 4B and 4C to determine if impacted soils with lead and arsenic concentrations which exceeded the remedial action goals were present; investigation of the ROD sample location in

Subarea 3 to verify the presence or absence of soils with lead and arsenic concentrations which exceeded the remedial action goals for other soils; excavation of impacted soils with lead, arsenic and/or antimony concentrations which exceeded the remedial action goals from the Subarea 2 drainage channel, from impacted grids in Subareas 4A and 4B, and from non-contiguous grids in Subarea 2; consolidation of excavated soils from Subareas 4A and 4B and non-contiguous grids in Subarea 2 into the Subarea 2 landfill; installation of the final cover on the verified limit of the landfill and adjacent grids with soil concentrations that exceeded the remedial action goals; installation of a cover on the impacted grids in the northern impacted area of Subarea 2; restoration of excavated grids in Subareas 2, 3, 4A, and 4B; and off-site disposal or recycling of oversized vegetative debris and scrap tires, as appropriate.

A pre-final inspection of the RSR OU5 Site was conducted on October 20, 2003. In attendance were representatives of the RSR Corporation, U.S. EPA, TCEQ, and ENTACT. No outstanding remedial action issues were identified during this inspection. For this reason, the pre-final inspection also served as the final inspection.

Demobilization activities were completed prior to the pre-final/final inspection.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REMEDIAL ACTION 2.0

2.1 Mobilization and Site Preparation

In June 2003, ENTACT initiated mobilization and site preparation activities at the RSR OU5 Site. Mobilization activities included, but were not limited to, the following:

- Mobilization of personnel, equipment and temporary facilities;
- Implementation of the Site-Specific Health and Safety Plan;
- Installation of erosion, sedimentation, stormwater, and dust control measures;
- Construction of work zones, equipment decontamination areas and site haul roads;
- Establishment of support facilities, air monitoring systems and the meteorological data collection center;
- Location of site utilities; and
- Establishment of initial survey controls and the limits of the Subarea 2 landfill.

2.1.1 Site Health and Safety

Upon mobilization to the RSR OU5 Site, ENTACT implemented the Site-specific Health and Safety Plan (HASP).

At the initiation of on-site activities, an orientation session was held at the RSR OU5 Site for all ENTACT personnel to discuss the essential elements of the HASP. ENTACT personnel acknowledged acceptance of the HASP by signing the on-site Health and Safety Officer's copy of the HASP.

2.1.2 Support Facilities

Support facilities for the RSR OU5 Site included an administrative support facility, supply storage area, and personnel and equipment decontamination areas. Support facilities were located within the property boundary of Subarea 2 near the entrance gate that faced Westmoreland Road.

Temporary office facilities were utilized during remediation activities and utility services were established to support administrative operations. The facility was equipped with computer systems, facsimile capability and telephone service. Sanitary facilities were provided in the support zone.

Equipment and supply storage areas were established adjacent to the appropriate work areas or support facilities. Personnel and equipment decontamination areas were constructed and identified in accordance with the Site-specific HASP requirements.

2.1.3 Work Zones

Work zones were established during remedial action activities. Excavation, consolidation, and cover areas were identified as the Exclusion Zone and were marked with signs, barricade tape, fencing, or other physical barriers.

Decontamination Zones for personnel and equipment were constructed in central locations adjacent to work areas. A personnel decontamination trailer was established adjacent to the support facilities. Clean changing rooms and personal protective equipment storage were provided in this trailer. All decontamination procedures conformed to methods outlined in the Site-specific HASP.

The Support Zone consisted of the support/administrative facilities, sanitary facilities and parking areas.

2.1.4 Site Security

Each subarea of the RSR OU5 Site was enclosed by the existing perimeter chain-link fence to prevent entry of unauthorized personnel. The fence was inspected and maintained throughout the duration of the project. Any fencing that was removed or damaged during excavation was replaced when the work was completed.

Security was also provided at Subarea 2 by an on-site security contractor during non-working hours. The presence of ENTACT associates at the Site during working hours negated the need for a formal security officer during working hours. Visitors to the Site were required to sign the Visitor Logbook located in the ENTACT administrative office trailer prior to entry to the RSR OU5 Site.

2.1.5 Erosion, Sedimentation, Stormwater, and Dust Control Measures

Temporary erosion, sedimentation and stormwater control measures for the RSR OU5 Site consisted of silt fencing and stabilized construction entrances. Installation of these control measures was completed in accordance with the RD/RA Workplan. The control measures were designed and installed to reduce sediment-laden stormwater run-off from leaving each subarea and prevent stormwater run-on from off-site areas from entering each subarea. These temporary control measures were constructed prior to the start of remedial action activities in each subarea and remained in place until restoration activities at each subarea were completed.

Stabilized construction entrance areas were also constructed at each subarea to prevent sediment transfer during traffic flow to and from the subarea. Silt fencing was installed near vehicle entrance areas along with compacted road base material.

Inspections of the erosion, sedimentation and stormwater control measures were conducted by ENTACT personnel to ensure that the control measures were functioning properly and were adequately positioned for the control of runoff and sediment removal. If the control measures were damaged or missing due to storm events or remedial action activities, the control measures were promptly repaired or replaced.

During all phases of remediation, airborne dust emissions were controlled. Dust suppression systems were installed in designated work areas for dust control. These systems consisted of water misting or spraying devices, such as pressure washers and water trucks with 180-degree spray-bars, and were used to minimize airborne releases.

To ensure that dust suppression activities were continually effective, real-time air monitoring was utilized during work activities. Portable data random air monitors (RAM) or PDRs were used to measure particulate concentrations in the air. Additional dust control procedures were implemented when PDR particulate concentrations at the work zone perimeter exceeded 150 ug/m^3.

When required, dust control procedures consisted of additional water misting and spraying in work zones, on travel paths, haul roads, and in load out areas; and covering of excavated material stockpiles.

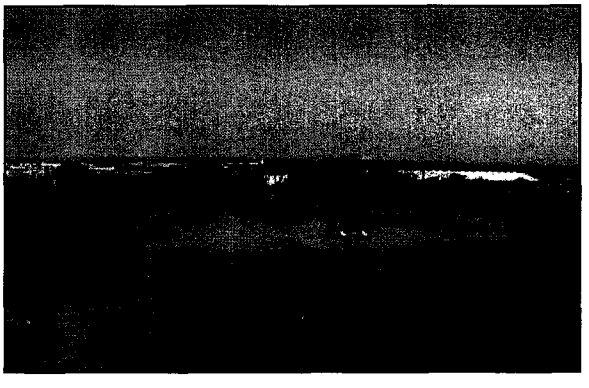
2.1.6 Temporary Access Roads

Temporary access roads were constructed to access portions of each subarea during remedial action activities. The temporary roads were maintained as needed throughout the duration of field activities. Truck haul routes were established within Subarea 2 for the trucks transferring excavated soils for consolidation and for trucks transporting topsoil. Entrance and exit gates were constructed on the haul route at the property boundary. Trucks used to transfer excavated soil were required to stay on the haul roads established at each subarea.

2.1.7 Surface Preparation

Trees, brush and undergrowth were cleared from the work areas within each subarea prior to the start of remedial

action activities with minimal disturbance to existing soils. Trees were cut at the base and mulched in place using a Bushwacker Tractor Services forestry mower/mulcher. Oversized tree stumps were removed, as necessary, using excavation equipment to assure proper compaction of the cover materials. Vegetative debris too large to be handled by the forestry mower/mulcher were transferred to a centralized stockpile area pending load-out for off-site disposal at the Waste Management Skyline Facility located in Ferris, Texas.



Surface debris present within the work areas of each subarea were collected and incorporated into the existing landfill at Subarea 2. Scrap tires present at the surface of the work areas in Subarea 2 were collected and stockpiled in a centralized location pending load-out for off-side recycling at the Safe Tire Disposal Corporation of Texas facility in Midlothian, Texas.

2.1.8 Surveying and Coordinate Grid System

The limits of the landfill depicted in the ROD, the northern impacted area in Subarea 2 and the RI/FS sampling locations in Subarea 3 were field located by a professional land surveyor using the information provided in Figures 8 and 13 of the ROD, respectively. The surveyed locations were marked in the field using stakes and pin flags.

A coordinate grid system was also established in each subarea in order to provide a system for tracking excavation, XRF field screening and post-excavation confirmation sampling activities in the field. A 50-foot by 50-foot grid system was installed in Subareas 2, 3 and 4A. A 100-foot by 100-foot grid system was installed in Subareas 4B and 4C for investigative purposes. Grid corners were marked in the field with wooden stakes and pin flags.

The elevation of the center of each grid was determined prior to excavation or consolidation and after the placement of backfill or cover material. The elevation data were used to track the thickness of the cover on the landfill and northern impacted area in Subarea 2.

2.1.9 XRF Field Screening and XRF Field Screening Concentration Numbers

To ensure that the XRF readings were accurate for the conditions they represented, ENTACT collected 33 soil samples from Subarea 2 for analysis. Each sample was divided into 2 portions: One portion of the sample was field screened using the XRF unit and the remaining portion was submitted to Severn-Trent Laboratories, Inc. (STL) for analysis of total lead, arsenic and antimony. Using the XRF field screening results and the laboratory analytical results, the relative percent difference (%RPD) was calculated for each sample. An average standard deviation was then calculated for each metal. Based on this data, a metals-in-soil XRF field screening concentration number was determined for each metal. This XRF field screening concentration number was used during XRF field screening activities, as approved by U.S. EPA, to indicate when soils were assumed to contain metals concentrations which exceeded the remedial action goals and subsequently required consolidation and/or placement beneath the soil cover. As additional data was collected, i.e., XRF field screening results and laboratory analytical results for additional samples, the correlation calculations were updated to provide a more accurate XRF field screening concentration number for each metal.

The XRF field screening concentration numbers were used in the field as follows:

- If XRF field screening results were below the XRF field screening concentration number, then the area represented by that sample was considered clean and no remedial action was required.

- If the XRF field screening results were between the XRF field screening concentration number and the applicable remedial action goal, a laboratory sample was collected and submitted for analysis to verify that the metal concentration was below the applicable remedial action goal.
- If the XRF field screening results exceeded the XRF field screening concentration number and the applicable remedial action goal, then the area represented by that sample was remediated as appropriate.

2.1.10 Utility Identification

Identification of site utilities was conducted by the appropriate utility location services to mark and/or locate the following utilities:

- Electric utility lines;
- Telephone lines;
- Fiber optic lines;
- Sanitary sewer lines;
- Stormwater drains and systems; and
- Water lines.

Each utility was identified with individual flags, signs or other devices, as necessary.

2.1.11 Air Monitoring

Air monitoring activities were conducted throughout remedial action activities to monitor contaminant concentrations in the air in the work zone and at the site boundary. Air monitoring equipment included the following:

- Real-time, direct reading air monitoring using PDR units to monitor particulate concentrations in the air within the work zone and at the Subarea 3, 4A, 4B, and 4C perimeters;
- Low-volume air monitoring using personal air monitoring (PAM) units and 37 mm cassettes to monitor lead, arsenic and/or antimony concentrations in the air within the work zone; and
- Time-integrated perimeter air monitoring using high-volume PM_{10} and total suspended particulate (TSP) samplers to monitor particulate matter less than 10 microns in size, total lead, total arsenic, and/or total antimony concentrations in the air at the Subarea 2 perimeter and at a designated off-site location.

2.1.11.1 Real-time Air Monitoring

Real-time, direct reading air monitoring was conducted during excavation, loadout and backfilling activities at the subareas to assess the effectiveness of engineering controls in reducing visible dust emissions. PDR units were used to collect measurements of particulate concentrations at the work zone perimeter and/or subarea perimeter on an hourly basis. Additional dust control measures were implemented during work activities if work zone perimeter particulate concentrations exceeded 150 ug/m^3.

2.1.11.2 Low-flow Air Monitoring

Personal air monitoring was conducted during remedial action activities to observe and ensure the safety of all ENTACT personnel. PAM samples were collected using low-volume pumps and cassettes, in accordance with the procedures described in the Site-specific HASP. The samples were submitted to Pace Analytical Services, Inc. in Indianapolis, Indiana for analysis of lead, arsenic and/or antimony. The frequency of sample collection and quantity of constituents analyzed were modified in the field, as necessary, depending on work activities. A summary of the PAM analytical results is presented on Table 1. Copies of the laboratory analytical reports are included in Appendix A.

2.1.11.3 Time-Integrated Perimeter Air Monitoring

Time-integrated perimeter air monitoring using high-volume PM_{10} and TSP sampling units was conducted prior to the start of remedial action activities to establish baseline conditions and on a daily basis during excavation, backfilling, consolidation, and grading activities at Subarea 2 and a designated off-site location (Amelia Earhart Learning Center). One PM_{10} and one TSP sampling unit were placed at each of the five air monitoring locations associated with the RSR OU5 Site (Figure 3). An additional PM10 and TSP sampling unit were placed at the Amelia Earhart Learning Center to serve as duplicate samplers.

The sampling units were placed on elevated platforms at the north, south and west perimeters of Subarea 2 and on building roofs at the east perimeter and Amelia Earhart Learning Center. The sampling units operated 24 hours per day and 5 days per week in accordance with the requirements of the U.S. EPA-approved Air Quality Monitoring Plan. Samples were submitted to Pace Analytical Services, Inc. for analysis of PM_{10}, total lead, total arsenic, and/or total antimony. The time-integrated perimeter air monitoring results are summarized on Table 2. Copies of the laboratory analytical reports are included in Appendix B.

Corrective actions were implemented when visible dust emissions were observed. These actions included additional water misting and spraying in work zones, on travel paths and in load-out areas. Daily and quarterly air monitoring action levels were not exceeded during the remedial action activities.

Time-integrated perimeter air monitoring using the TSP units was discontinued once the placement of the clay cover materials was completed at Subarea 2. Duplicate air monitoring activities were ceased after the first month of remedial action activities. The discontinuation of time-integrated perimeter air monitoring was approved by U.S. EPA and conducted in accordance with the Air Quality Monitoring Plan.

2.1.12 Analytical and Geotechnical Laboratories

Analytical laboratories used during remedial action activities included the following: Severn-Trent Laboratories, Inc. (STL) in Corpus Christi, Texas for the analysis of soil samples; Pace Analytical Services, Inc. in Indianapolis, Indiana for the analysis of air samples; and Alpha Testing in Dallas, Texas for physical soil testing and field compaction tests.

2.2 Remedial Action and Quality Control

2.2.1 Subarea 2

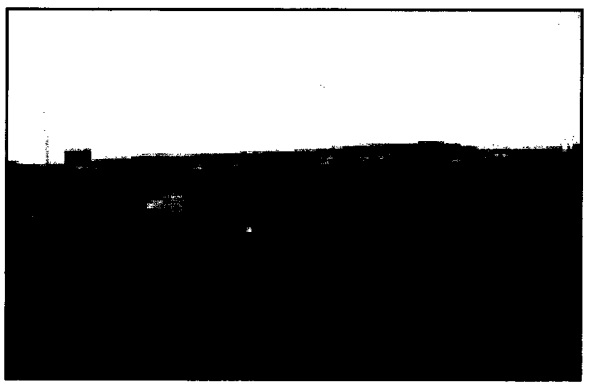
2.2.1.1 Delineation of the Landfill

The limits of the Subarea 2 landfill, as depicted in Figure 8 of the ROD, were field-located by a professional land surveyor in June 2003. To verify the presence of landfill materials in this area, ENTACT installed 21 investigative trenches along the field-located limits of the ROD landfill. The trenches were installed using an excavator to an approximate depth of 5 feet beginning at a distance of 5 to 10 feet from the landfill boundary and extending outward until visual observation of the landfill material ceased. When landfill materials were no longer observed in the investigative trench, the location was marked with stakes and pin flags. The verified limits of the landfill were then surveyed by a professional land surveyor and the new limits were incorporated into the Subarea 2 layout maps. Refer to Figure 4 for the locations of the ROD landfill limit and the field verified landfill limit.

A 50-ft by 50-ft coordinate grid system was established around the limits of the verified landfill to further define the horizontal extent of lead, arsenic and antimony contamination in soils that exceeded the remedial action goals. A composite sample consisting of four parts was collected from each of these grids for XRF field screening. One part of each composite was collected from the surface of each of the four corners of the grid. The individual grab samples were then composited and homogenized and an aliquot of the composite was field screened for total lead, arsenic and antimony using the XRF unit. The results of the XRF field screening were then used to determine which grids surrounding the verified limits of the landfill required remediation, i.e., excavation and consolidation of the impacted grid in the landfill or expansion of the landfill cover to incorporate the impacted grids. Refer to Table 3 for the XRF field screening results.

2.2.1.2 Consolidation in and Cover of the Landfill

Excavated soils from Subareas 4A and 4B and the localized grids in Subarea 2 were placed in the southern portion of the Subarea 2 landfill for consolidation beginning in July 2003. The material was hauled to the truck dump area located in the southeastern corner of the landfill and deposited. A D6 bulldozer was used to spread the material to the required fill locations in order to facilitate the design contours for Subarea 2. A sheepsfoot vibratory compactor was used to compact the material in each lift.



Pending the completion of consolidation activities, the final cover was installed on the landfill and those grids located adjacent to and outside of the landfill where lead, arsenic or antimony concentrations exceeded the remedial action goals (see Figure 5). The final cover consisted of a minimum of 24 inches of compacted clean clay material and 3 inches of non-compacted topsoil.

The cover material was obtained from a source located in Irving, Texas. The cover material was classified as a high plasticity clay and contained limited organic matter and no sticks, rocks larger than 2 inches in diameter, toxic substances, or other deleterious materials. The cover source was sampled prior to the initiation of remedial action activities for laboratory analysis of total RCRA 8 metals and antimony, total petroleum hydrocarbons, semi-volatile organic compounds, and volatile organic compounds. In addition, samples were collected for geotechnical testing to ensure that a permeability of $\leq 1 \times 10^{-7}$ cm/sec could be achieved, as required in the RD/RA Workplan. The laboratory analytical results are provided in Table 4 and the soil physical test results are presented in Table 5. Copies of the laboratory reports are included in Appendices C and D, respectively. Sampling activities were conducted in accordance with the requirements of the RD/RA Workplan.

The cover material was placed in horizontal lifts not exceeding 9 inches in loose thickness using off-road trucks and the D6 bulldozer. Each lift was compacted to a minimum of 95% of the material's maximum dry density, as measured by ASTM Method D698, when the clay was within -2 to +4 percentage points of optimum moisture content. Moisture was enhanced, where needed, with the use of a water truck. Compaction testing was conducted by Alpha Testing, Inc. at a frequency of 1 test per 10,000 square foot area per lift to ensure that the compaction criteria had been achieved. Any area that failed to meet the compaction acceptance criteria was reworked until subsequent tests showed acceptable results. The field compaction test results are presented on Table 6 and copies of the laboratory results are included in Appendix E.

The landfill cover was tied into the existing grade at the property boundary where necessary. The remainder of the landfill cover was tied into the grade of the transition areas. Additional material was added to the transition areas, where needed, in order to facilitate the final grade of the subarea and prevent the ponding of water.

Topsoil from an off-site source located in Grand Prairie, Texas was transported to the subarea for placement pend-

ing the completion of cover placement activities. The topsoil material consisted of a natural, friable soil free from admixture or objects larger than 2 inches in diameter, toxic substances, or any other deleterious material that would be harmful to plant growth or a hindrance to grading, planting and maintenance operations. U.S. EPA approved a modification to the RD/RA Workplan for the use of the topsoil source based on the seeding contractor's recommendations. Representative samples of the topsoil source were collected prior to placement for laboratory analysis of the constituents previously mentioned. The laboratory analytical results for topsoil materials are provided in Table 4 and copies of the laboratory reports are included in Appendix C. Sampling activities were conducted in accordance with the requirements of the RD/RA Workplan.

The topsoil was placed in a 3-inch loose lift over the extent of the landfill area. The topsoil was vegetated with a seed mixture composed of native grasses based on the recommendations for seed type and seed ratios from the local soil conservation district and the seeding contractor. The seed mixture was applied to the topsoil using hydroseeding by Western Farm and Garden, Inc. of Flower Mound, Texas. Stormwater controls remained in place to minimize sediment-laden run-off from the subarea until vegetation was established on a minimum of 70% of the vegetated area. A final topographic survey map for Subarea 2 is presented as Figure 6a.

2.2.1.3 Excavation and Cover of the Northern Impacted Area

XRF field screening activities were conducted in the northern impacted area in July 2003 to verify the lead and arsenic concentrations documented in the ROD for surface soils. The results of the XRF field screening activities were used to determine if the screened grids required remedial action.

Based on the results of XRF field screening and the horizontal extent of impacted soils, the northern impacted area (except as described below) was covered with a minimum of 24 inches of compacted, clean clay material and 3 inches of non-compacted topsoil. The clay material was placed as received, graded to promote positive drainage and compacted by three passes of the sheepsfoot vibratory compactor. The clay and topsoil materials met the specifications previously described in Section 2.2.1.2.

The northern impacted area cover was tied into the existing grade at the southeastern corner and the landfill grade at the southwestern corner. Additional material was added to the transition area, where needed, in order to facilitate the final grade of the subarea and prevent the ponding of water.

During the clearing activities conducted in the northern impacted area, a drainage culvert and channel were uncovered. In order to promote the drainage of the area for the initiation of remedial activities, the culvert and channel were cleared of all debris and vegetation. The bank slope and bottom of the exposed drainage channel were then field screened using the XRF (Refer to Table 3). Based on the results of the XRF field screening, impacted soils were excavated from the drainage channel and transferred to the landfill for consolidation in lieu of cover placement in this area. Excavation activities on each bank were considered complete when XRF screening results indicated that the total lead, arsenic and antimony concentrations were below the XRF field screening concentration numbers. The drainage channel banks were then graded and rip-rap material was placed along the bottom of the channel to prevent the erosion of soils during storm events.

2.2.1.4 Excavation and Restoration of Impacted Grids

XRF field screening activities were conducted in the backfill storage area of Subarea 2 prior to the start of remedial activities. The XRF field screening results indicated that the lead and/or arsenic concentrations in 4 grids (B26, A10, E11, and E12) exceeded the XRF field screening concentration numbers. To confirm these results, a 4-point composite sample was collected from each grid and submitted for laboratory analysis. The laboratory analytical results for 3 of the 4 grids (B26, E11 and E12) indicated that lead and/or arsenic concentrations exceeded the remedial action goals for other soils. Due to the non-contiguous location of these grids in relation to the landfill and the northern impacted area, the grids were excavated. Excavation activities were conducted using a hydraulic excavator and the excavation was guided by the use of the XRF unit. The grids were excavated to an approximate depth of 1 foot below ground surface and excavation activities in each grid were considered complete when the XRF screening results indicated that the total lead, arsenic and antimony concentrations were below the XRF field screening concentration numbers. The excavated soils were transferred to the Subarea 2 landfill for consolidation. Post-excavation confirmation sampling, consisting of one 4-point composite sample per grid, was conducted. The samples were submitted for laboratory analysis of total lead, arsenic and antimony to ensure that the remedial action goals had been achieved. The XRF field screening results and investigation sample results are presented on Table 3. The post-excavation confirmation sample results are presented on Table 7. Copies of the investigation and post-excavation sample laboratory reports are included in Appendix F. Refer to Figure 7 for the post-excavation confirmation sampling locations.

When post-excavation confirmation sampling indicated that excavation activities were complete, a post-excavation survey was completed to document the depth and extent of excavation across the subarea. The excavated grids were then backfilled with clay material, if necessary to restore the grid to original grade, compacted and graded to promote positive drainage. Three inches of topsoil was placed as a single lift which covered the extent of the area disturbed by the excavation. The topsoil was vegetated with the appropriate amount of seed mixture to promote the growth of native grassess. Stormwater controls remained in place to minimize sediment-laden run-off from the subarea until vegetation had established on a minimum of 70% of the vegetated area. The clay and topsoil materials met the specifications previously described in Section 2.2.1.2 and were installed per the requirements of the RD/RA Workplan.

2.2.2 Subarea 3

2.2.2.1 Investigation

The sample location depicted in Figure 13 of the ROD with lead and arsenic concentrations which exceeded the remedial action goals for other soils was field located by a professional land surveyor prior to the start of investigative activities. To verify the presence of the elevated concentrations, ENTACT installed a test pit at this surveyed location in August 2003. The test pit was installed using a backhoe to an approximate depth of 6 feet below ground surface. Grab samples were collected from the surface of the test pit, at 2-foot depth intervals from each of the 4 sidewalls and at the terminating bottom of the test pit for XRF field screening. The XRF field screening results indicated that an elevated concentration of arsenic, i.e., above the XRF field screening concentration number, was present only in the surface sample and not at depth as indicated in the ROD. To further confirm these results, five samples (the surface and the 4-6 foot interval from the north, south, east, and west sidewalls) were submitted for laboratory analysis of total lead and arsenic.

A 50-foot by 50-foot grid system was created around the test pit location (with the test pit as the center of the first grid). One 4-point composite sample was collected from the surface soil of each of the 9 surrounding grids for XRF field screening. The XRF field screening results indicated that three of the nine samples exceeded the XRF field screening concentration number for arsenic. Therefore, one 4-point composite sample was collected from the surface of each of the three grids for laboratory analysis of total lead and arsenic. The laboratory analytical results for all of the samples submitted from Subarea 3 indicated that neither lead nor arsenic concentrations exceeded the remedial action goals for other soils. Refer to Table 3 for the investigation sample results and Figure 7 for the sampling locations. Copies of the laboratory analytical reports are included in Appendix F.

The results of the investigation were presented to the U.S. EPA during the August 25, 2003 weekly meeting. Based on the results, U.S. EPA confirmed that remedial action activities were not required at Subarea 3. Therefore, the test pit was backfilled with the excavated material and the area was re-seeded, as necessary.

2.2.3 Subarea 4

2.2.3.1 Investigation

In July 2003, an investigation of Subareas 4A, 4B and 4C was conducted to assess whether soils with elevated levels of lead or arsenic were present in concentrations which exceeded the remedial action goals. Characterization test pits were installed using a backhoe in these subareas at a frequency of one test pit per 50-foot grid area in 4A and one test pit per 100-foot grid area in 4B and 4C using a backhoe. (Each test pit was intended to represent the entire grid). XRF field screening was conducted at 1-foot depth intervals on a sidewall of each test pit. The results of XRF field screening indicated that lead and/or arsenic concentrations exceeded the XRF field screening concentration number in 11 test pits in 4B and 4C and most of the test pits in 4A. Grab samples were collected from specific depth intervals of the test pits in 4B and 4C for laboratory analysis of total lead and/or arsenic to verify the XRF field screening results which exceeded the XRF field screening concentration numbers. (Laboratory samples were not collected from those test pits in 4A and 4B where the XRF field screening results exceeded the remedial action goals). The laboratory analytical results for the samples collected from 4C indicated that neither lead nor arsenic concentrations exceeded the remedial action goals. Refer to Table 3 for the investigation sample results and Appendix F for copies of the laboratory analytical reports.

2.2.3.2 Excavation

The grids with XRF field screening results which exceeded the remedial action goals for other soils were excavated in July 2003. The excavation sequence began in 4B and progressed eastward toward 4A. The grids were excavated using a hydraulic excavator and the excavation was further guided by the use of the XRF unit. Four grids in 4B were excavated to an approximate depth of 0.25 to 0.66 feet below ground surface and 18 grids in 4A were excavated to an approximate depth of 0.5 feet below ground surface. Excavation activities in each grid were considered complete when the XRF screening results indicated that the total lead and arsenic concentrations were below the XRF field screening concentration numbers. Post-excavation confirmation samples, consisting of 4-point composites, were then collected from the base of each excavated grid and submitted for laboratory analysis to confirm that the total lead and arsenic concentrations met the remedial action goals. The results of post-excavation confirmation sampling are presented Table 7. The sampling locations are depicted on Figure 7. Sampling activities were conducted in accordance with the Field Sampling Plan included as Appendix D to the RD/RA Workplan.

The excavated soils were stockpiled in the northeast corner of Subarea 4A. The stockpiles were covered with polyethlyene sheeting when not in use and surrounded by silt fencing to prevent the migration of the excavated material. When excavation activities encroached upon the stockpile area, the stockpiled soil was loaded into trucks and transferred to Subarea 2 for consolidation in the landfill. The remaining grids were then excavated and directly loaded into the trucks for transfer to Subarea 2.

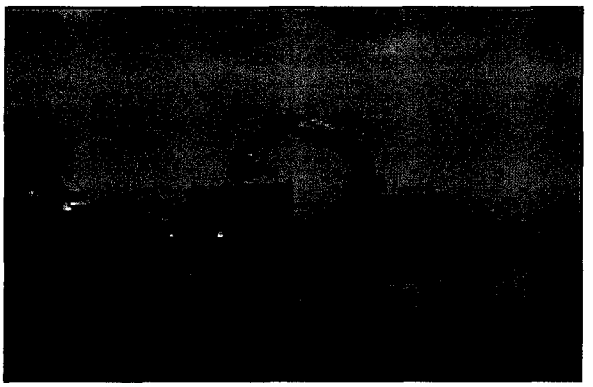
2.2.3.3 Restoration

When post-excavation confirmation sampling indicated that excavation activities were complete, the excavated grids were backfilled with clay material, if necessary to restore to original grade, compacted and graded to promote positive drainage. Three inches of topsoil was placed as a single lift and covered the extent of the area disturbed by the excavation. The topsoil was vegetated with the appropriate amount of seed mixture to promote the growth of native grassess. Stormwater controls remained in place to minimize sediment-laden run-off from the subarea until vegetation had established on a minimum of 70% of the vegetated area. The clay and topsoil materials met the specifications previously described in Section 2.2.1.2 and were installed per the requirements of the RD/RA Workplan. A final topographic survey map for Subareas 4A and 4B is presented as Figure 6b.

2.2.4 Transportation and Disposal/Recycling

2.2.4.1 Vegetation

Oversized vegetative debris generated during mobilization and site preparation activities were transferred to a centralized stockpile area in Subarea 2 for loadout. The vegetative debris was transported to the Waste Management Skyline Facility landfill in Ferris, Texas for disposal. Approximately 550 cubic yards of vegetative debris was disposed off-site. Refer to Table 8a for the off-site disposal record and Appendix G for copies of the waste disposal manifests.



2.2.4.2 Tires

Scrap tires present at the surface of the work areas in Subarea 2 were collected and stockpiled during mobilization and site preparation activities. The scrap tires were stockpiled in a centralized location at Subarea 2 adjacent to the haul road for loadout. Approximately 1,169 tires were transported off-site to the Safe Tire Disposal Corporation of Texas facility in Midlothian, Texas for recycling. Refer to Table 8b for the off-site recycling record and Appendix G for copies of the scrap tire manifests.

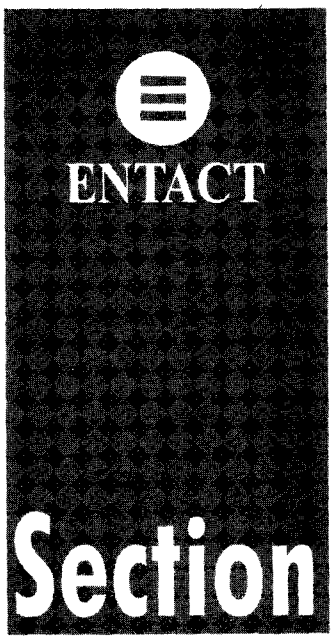
2.3 Demobilization Activities

2.3.1 Pre-final and Final Inspections

A pre-final inspection of the Site was conducted on October 20, 2003. In attendance were representatives of the RSR Corporation, U.S. EPA, TCEQ, and ENTACT. A walk-through of each subarea was conducted to determine if any outstanding remedial action items existed. All parties in attendance confirmed that no outstanding remedial action items existed and that remedial action activities at the RSR OU5 Site were complete. For this reason, the pre-final inspection also served as the final inspection.

2.3.2 Demobilization

ENTACT completed demobilization activities from the RSR OU5 Site in October 2003 prior to the completion of the pre-final/final inspection. All temporary construction facilities were removed and all utilities disconnected. All equipment was decontaminated using a high-pressure wash prior to off-site shipment. Erosion and sedimentation control devices, such as silt fencing, were left in place until vegetation was established on a minimum of 70% of the vegetated area.


ENTACT
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three

PROJECT REPORTING 3.0

During remedial action activities at the RSR OU5 Site, ENTACT prepared and maintained a daily work journal that included a listing of on-site personnel, equipment utilized, work performed, problems encountered, if any, resolutions to any problems, and related information. ENTACT also prepared and distributed weekly reports to summarize all activities performed during the previous week. On a monthly basis, ENTACT, on behalf of the RSR Corporation, submitted a progress report to U.S. EPA to summarize actions taken to comply with the Consent Decree.

Photographic documentation was performed by ENTACT during the implementation of remedial action activities. Photographs of major activities conducted during remedial action activities are included throughout this Remedial Action Report. A chronology of events (Table 9) is also included in this report that summarizes the time frame for completing major work activities conducted at the RSR OU5 Site.

WEEKLY REPORT

RSR OU5 • D959 • 2401 Westmoreland Rd • Dallas, TX

Week of 08/04/03 - 08/10/03

Weather Conditions:
- Average Daily Temperature: 91 degrees Fahrenheit
- Rainfall: 0.99 inches total
- Barometric Pressure: 29.89 to 29.90 inches Hg
- Wind Direction and Speed: Predominantly from the E at 6 mph

This Week's Activities:
- Continued air monitoring activities. Refer to the Air Monitoring section.
- Completed the re-sample and XRF field screening of grid rows 10-20 and A-F.
- Completed the excavation of impacted soil from Subareas 4A and 4B and the stockpiling of excavated soil in Subarea 4A.
- Began the loadout and transfer of excavated soil from Subarea 4A to the landfill in Subarea 2 for consolidation.
- Began the collection of post-excavation confirmation samples from excavated grids in Subareas 4A and 4B.
- Continued the installation of the coordinate grid system and survey of the grids in the south section of the landfill area in Subarea 2.

Next Week's Activities:
- Continue weekly air monitoring activities.
- Mobilize equipment to Subarea 3.
- Begin the backfilling of excavated grids in Subareas 4A and 4B pending the receipt and review of post-excavation confirmation sample analytical results.

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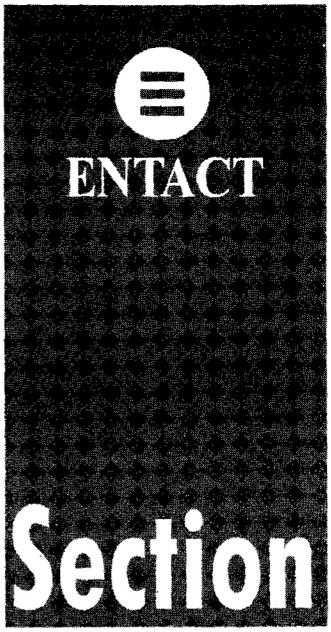
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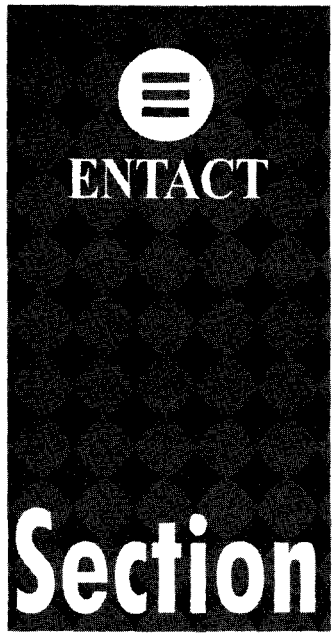
four

OPERATION AND MAINTENANCE 4.0

Operation and maintenance requirements associated with the RSR OU5 remedial activities consist of the following:

- Monitoring and maintenance of the Subarea 2 soil and vegetative cover;
- Monitoring the integrity of the Subarea 2 fencing and performing any repairs to the fence as needed;
- Closure of the existing monitoring wells at Subareas 2 and 3; and
- Deed restriction of Subareas 2, 3, 4A, 4B, and 4C for commercial/ industrial use.

Operation and maintenance activities are defined in additional detail in the Operation and Maintenance Plan dated December 16, 2003.


ENTACT
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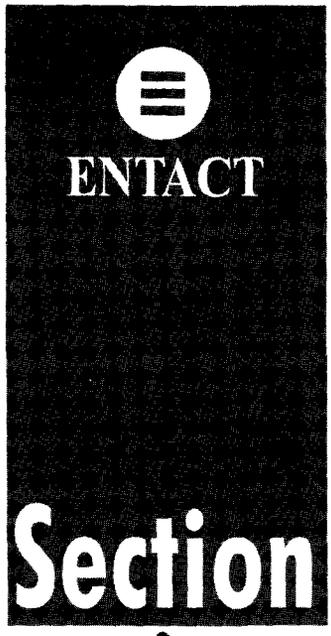
five

CERTIFICATION 5.0

"To the best of my knowledge, after thorough investigation, I certify that the information contained in or accompanying this submission is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Homer Hine
Vice President
RSR Corporation

Gregory Tunstall, P.E.
Project Engineer
ENTACT Services LLC


ENTACT
Section
six

REFERENCES 6.0

United States Environmental Protection Agency. Record of Decision for RSR Corporation Superfund Site Operable Unit No. 5. Dallas, Texas: United States Environmental Protection Agency Region 6, 1997.

United States Environmental Protection Agency. Consent Decree for Quemetco Metals Limited, Inc., Quemetco, Inc., and RSR Corporation. United States District Court for the Northern District of Texas, Dallas Division, 2003.

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ENTACT Services LLC. Final Operation and Maintenance Plan. Irving, Texas: ENTACT Services LLC, 2003.

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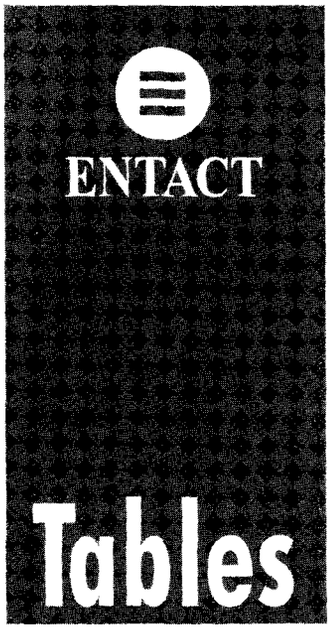
ENTACT
Tables

TABLE 1: PERSONAL AIR MONITORING ANALYTICAL RESULTS
RSR CORPORATION SUPERFUND SITE, OPERABLE UNIT NO. 5
SUBAREAS 2, 3 AND 4, DALLAS, TEXAS

Sample Date	Sample ID No.	Laboratory Report No.	Task	Total Antimony (ug/m^3)	Total Arsenic (ug/m^3)	Total Lead (ug/m^3)
Action Limit				**5.00**	**5.00**	**30.00**
PAM #1						
07/01/03	PAM1-001	Pace 5028507	Tree/brush clearing	<2.0	<2.0	<2.0
07/03/03	PAM1-002	Pace 5028581	Tech work	<2.0	<2.0	3.23
07/07/03	PAM1-003	Pace 5028581	Support zone	<2.0	<2.0	<2.0
07/08/03	PAM1-004	Pace 5028673	Hauling debris	<2.0	<2.0	3.15
07/09/03	PAM1-005	Pace 5028673	Excavating/Loading	<2.0	<2.0	2.69
07/10/03	PAM1-006	Pace 5028711	Dozer	<2.0	<2.0	40.00
07/11/03	PAM1-007	Pace 5028711	E. perimeter Sub 2	<2.0	<2.0	<2.0
07/14/03	PAM1-008	Pace 5028836	Dozer in landfill	<2.0	<2.0	18.60
07/15/03	PAM1-009	Pace 5028836	Excavator/Hauling clay	<2.0	<2.0	<2.0
07/16/03	PAM1-010	Pace 5028836	Hauling impacted soil	<2.0	<2.0	<2.0
07/17/03	PAM1-011	Pace 5028886	Water truck	<2.0	<2.0	<2.0
07/18/03	PAM1-012	Pace 5028886	Excavating drainage area	<2.0	<2.0	<2.0
07/21/03	PAM1-013	Pace 5028935	Excavating test trenches	<2.0	<2.0	<2.0
07/22/03	PAM1-014	Pace 5028935	Excavator loading clay	<2.0	<2.0	<2.0
07/23/03	PAM1-015	Pace 5029040	Excavator	<2.0	<2.0	<2.0
07/24/03	PAM1-016	Pace 5029040	Excavator loading clay	<2.0	<2.0	<2.0
07/25/03	PAM1-017	Pace 5029040	Excavator loading clay	<2.0	<2.0	<2.0
07/29/03	PAM1-018	Pace 5029189	Loading trees/brush			<2.0
07/30/03	PAM1-019	Pace 5029189	Loading trees/brush			<2.0
07/31/03	PAM1-020	Pace 5029189	Loader Subarea 4			<2.0
08/01/03	PAM1-021	Pace 5029189	Excavating impacted soil			<2.0
08/04/03	PAM1-022	Pace 5029223	Excavating in Subarea 4			<2.0
08/05/03	PAM1-023	Pace 5029223	Excavating impacted soil			15.80
08/06/03	PAM1-024	Pace 5029320	Loading trucks at Subarea 4			4.90
08/07/03	PAM1-025	Pace 5029320	Excavating in Subarea 4			<2.0
08/08/03	PAM1-026	Pace 5029320	Excavating in Subarea 4			<2.0
08/11/03	PAM1-027	Pace 5029361	Excavator/Dozer in Sub 4			<2.0
08/12/03	PAM1-028	Pace 5029361	Excavating in Subarea 4			<2.0
PAM #6 / 4						
07/01/03	PAM6-001	Pace 5028507	Excavator	<2.0	<2.0	2.13
07/03/03	PAM6-002	Pace 5028581	Tech work	<2.0	<2.0	2.63
07/07/03	PAM6-003	Pace 5028581	Excavator	<2.0	<2.0	<2.0
07/08/03	PAM6-004	Pace 5028673	Excavating/Loading	<2.0	<2.0	12.00
07/09/03	PAM6-005	Pace 5028673	Hauling	<2.0	<2.0	4.46
07/10/03	PAM6-006	Pace 5028711	Excavator	<2.0	<2.0	4.70
07/11/03	PAM6-007	Pace 5028711	Excavator/Dozer	<2.0	<2.0	<2.0
07/14/03	PAM6-008	Pace 5028836	Moving rock	<2.0	<2.0	3.10
07/15/03	PAM6-009	Pace 5028836	Excavator/Loading clay	<2.0	<2.0	2.92
07/16/03	PAM6-010	Pace 5028836	Dozer in landfill	<2.0	<2.0	<2.0
07/17/03	PAM6-011	Pace 5028886	Dozer in landfill	<2.0	<2.0	<2.0
07/18/03	PAM6-012	Pace 5028886	Dozer	<2.0	<2.0	2.56
07/21/03	PAM6-013	Pace 5028935	Dozer in clean area	<2.0	<2.0	<2.0
07/22/03	PAM4-014	Pace 5028935	Dozer grading	<2.0	<2.0	3.84
07/23/03	PAM4-015	Pace 5029040	Dozer grading	<2.0	<2.0	<2.0
07/24/03	PAM4-016	Pace 5029040	Dozer moving clay	<2.0	<2.0	<2.0
07/25/03	PAM4-017	Pace 5029040	Dozer moving clay	<2.0	<2.0	<2.0
07/31/03	PAM4-018	Pace 5029189	Excavator Subarea 4			<2.0
08/01/03	PAM4-019	Pace 5029189	Laborer in Subarea 4			<2.0
08/04/03	PAM4-020	Pace 5029223	Loader in Subarea 4			2.65

TABLE 1: PERSONAL AIR MONITORING ANALYTICAL RESULTS
RSR CORPORATION SUPERFUND SITE, OPERABLE UNIT NO. 5
SUBAREAS 2, 3 AND 4, DALLAS, TEXAS

Sample Date	Sample ID No.	Laboratory Report No.	Task	Total Antimony (ug/m^3)	Total Arsenic (ug/m^3)	Total Lead (ug/m^3)
08/05/03	PAM4-021	Pace 5029223	Loader moving impacted soil			<2.0
08/06/03	PAM4-022	Pace 5029320	Dust control in Subarea 4			2.39
08/07/03	PAM4-023	Pace 5029320	Laborer at truck dump area			<2.0
08/08/03	PAM4-024	Pace 5029320	Dust control in Subarea 4			3.04
08/11/03	PAM4-025	Pace 5029361	Loader moving impacted soil			2.19
08/12/03	PAM4-026	Pace 5029361	Dust control in Subarea 4			<2.0
PAM #9						
07/01/03	PAM9-001	Pace 5028507	Hauling material	<2.0	<2.0	<2.0
07/03/03	PAM9-002	Pace 5028581	Excavator	<2.0	<2.0	15.10
07/07/03	PAM9-003	Pace 5028581	Clearing trees	<2.0	<2.0	<2.0
07/08/03	PAM9-004	Pace 5028673	Cutting trees	<2.0	<2.0	6.06
07/09/03	PAM9-005	Pace 5028673	Dozer	<2.0	<2.0	<2.0
07/10/03	PAM9-006	Pace 5028711	Loader	<2.0	<2.0	<2.0
07/11/03	PAM9-007	Pace 5028711	Install silt fencing	<2.0	<2.0	<2.0
07/14/03	PAM9-008	Pace 5028836	Tech work	<2.0	<2.0	5.99
07/15/03	PAM9-009	Pace 5028836	Dozer/cover	<2.0	<2.0	<2.0
07/16/03	PAM9-010	Pace 5028836	Water truck	<2.0	<2.0	<2.0
07/17/03	PAM9-011	Pace 5028886	Hauling material	<2.0	<2.0	<2.0
07/18/03	PAM9-012	Pace 5028886	Compactor on clean fill	<2.0	<2.0	<2.0
07/21/03	PAM9-013	Pace 5028935	Water truck/Laborer	<2.0	<2.0	<2.0
07/22/03	PAM9-014	Pace 5028935	Off-road truck	<2.0	<2.0	<2.0
07/23/03	PAM9-015	Pace 5029040	Water truck/Laborer	<2.0	<2.0	<2.0
07/24/03	PAM9-016	Pace 5029040	Hauling clean clay	<2.0	<2.0	<2.0
07/25/03	PAM9-017	Pace 5029040	Hauling clean clay	<2.0	<2.0	<2.0
07/30/03	PAM9-018	Pace 5029189	Install silt fencing Sub 4			<2.0
07/31/03	PAM9-019	Pace 5029189	Loading trees/brush			<2.0
08/01/03	PAM9-020	Pace 5029189	Loader moving impacted soil			<2.0
08/04/03	PAM9-021	Pace 5029223	Laborer in landfill			<2.0
08/05/03	PAM9-022	Pace 5029223	Laborer			20.60
08/06/03	PAM9-023	Pace 5029320	Excavating in Subarea 4			<2.0
08/07/03	PAM9-024	Pace 5029320	Loader moving impacted soil			<2.0
08/08/03	PAM9-025	Pace 5029320	Laborer at truck dump area			<2.0
08/11/03	PAM9-026	Pace 5029361	Laborer			<2.0
08/12/03	PAM9-027	Pace 5029361	Laborer at truck dump area			<2.0
PAM Field Blanks						
07/09/03	TP-FB-001	Pace 5028673		<2.0	<2.0	<2.0
07/10/03	TP-FB-002	Pace 5028711		<2.0	<2.0	3.50
07/16/03	TP-FB-003	Pace 5028836		<2.0	<2.0	<2.0
07/18/03	TP-FB-004	Pace 5028886		<2.0	<2.0	<2.0
07/22/03	TP-FB-005	Pace 5028935		<2.0	<2.0	<2.0
07/23/03	TP-FB-006	Pace 5029040		<2.0	<2.0	<2.0
08/01/03	TP-FB-007	Pace 5029189				<2.0

TABLE 2: PERIMETER AIR MONITORING ANALYTICAL RESULTS
RSR CORPORATION SUPERFUND SITE, OPERABLE UNIT NO. 5
SUBAREAS 2, 3 AND 4, DALLAS, TEXAS

Sample Date	Sample ID No.	Filter ID No.	Lab Report No.	Flow Average (m^3/min)	Total Volume (m^3)	Total Lead (ug/m^3)	Total Lead Quarterly Average	Total Arsenic (ug/m^3)	Total Arsenic Quarterly Average	Total Antimony (ug/m^3)	Total Antimony Quarterly Average	Daily PM_{10} (ug/m^3)	PM_{10} Quarterly Average
Action Limit						**1.5000**	**1.50**	**0.100**	**0.10**	**5.000**	**5.00**	**100.00**	**150.00**
TSP-5 East Perimeter of Subarea 2													
06/23/03	TSP5-01		Pace 5028316	1.215	1732	<0.05		<0.05		<0.05			
06/24/03	TSP5-02		Pace 5028316	1.385	1994	<0.05		<0.05		<0.05			
06/25/03	TSP5-03		Pace 5028449	1.383	2033	0.1300		<0.05		<0.05			
06/26/03	TSP5-04		Pace 5028449	1.403	1971	<0.05		<0.05		<0.05			
06/27/03	TSP5-05		Pace 5028449	1.387	1997	<0.05		<0.05		<0.05			
06/30/03	TSP5-06		Pace 5028510	1.402	2019	<0.05		<0.05		<0.05			
07/01/03	TSP5-07		Pace 5028510	1.363	1962	<0.05		<0.05		<0.05			
07/02/03	TSP5-08		Pace 5028573	1.393	2006	0.4130		<0.05		<0.05			
07/07/03	TSP5-09		Pace 5028573	1.369	1985	<0.05		<0.05		<0.05			
07/08/03	TSP5-10		Pace 5028674	1.281	1844	0.0770		<0.05		<0.05			
07/09/03	TSP5-11	Invalid Sample- Monitor not running.											
07/21/03	TSP5-11		Pace 5028934	1.298	1849	0.0930		<0.05		<0.05			
07/22/03	TSP5-12		Pace 5028934	1.350	1924	0.1880		<0.05		<0.05			
07/23/03	TSP5-13		Pace 5029050	1.375	1959	<0.05		<0.05		<0.05			
07/24/03	TSP5-14		Pace 5029050	1.363	1895	<0.05		<0.05		<0.05			
07/25/03	TSP5-15		Pace 5029050	1.421	2075	<0.05		<0.05		<0.05			
07/28/03	TSP5-16		Pace 5029111	1.37	2014	<0.05		<0.05		<0.05			
07/29/03	TSP5-17		Pace 5029111	1.438	2100	0.9030		<0.05		<0.05			
07/30/03	TSP5-18		Pace 5029187	1.499	2136	0.0760		<0.05		<0.05			
07/31/03	TSP5-19		Pace 5029187	1.443	2064	0.0780		<0.05		<0.05			
08/01/03	TSP5-20		Pace 5029220	1.354	1943	<0.05		<0.05		<0.05			
08/04/03	TSP5-21		Pace 5029220	1.408	1999	0.0680		<0.05		<0.05			
08/05/03	TSP5-22		Pace 5029321	1.346	1932	<0.05		<0.05		<0.05			
08/06/03	TSP5-23		Pace 5029321	1.423	2071	0.0560		<0.05		<0.05			
08/07/03	TSP5-24		Pace 5029321	1.429	2064	0.0580		<0.05		<0.05			
08/08/03	TSP5-25		Pace 5029362	1.42	2002	<0.05		<0.05		<0.05			
08/11/03	TSP5-26		Pace 5029362	1.425	2038	<0.05		<0.05		<0.05			
08/12/03	TSP5-27		Pace 5029463	1.418	1999	0.1060		<0.05		<0.05			
08/13/03	TSP5-28		Pace 5029463	1.453	2078	<0.05		<0.05		<0.05			
08/14/03	TSP5-29		Pace 5029463	1.432	2098	<0.05		<0.05		<0.05			
08/15/03	TSP5-30		Pace 5029497	1.461	2112	<0.05		<0.05		<0.05			
08/18/03	TSP5-31		Pace 5029497	1.429	1994	<0.05		<0.05		<0.05			
08/19/03	TSP5-32		Pace 5029590	1.453	2128	<0.05		<0.05		<0.05			
08/20/03	TSP5-33		Pace 5029590	1.445	2037	<0.05		<0.05		<0.05			
08/21/03	TSP5-34		Pace 5029590	1.438	2035	<0.05		<0.05		<0.05			
08/22/03	TSP5-35		Pace 5029774	1.454	2086	<0.05		<0.05		<0.05			

TABLE 2: PERIMETER AIR MONITORING ANALYTICAL RESULTS
RSR CORPORATION SUPERFUND SITE, OPERABLE UNIT NO. 5
SUBAREAS 2, 3 AND 4, DALLAS, TEXAS

Sample Date	Sample ID No.	Filter ID No.	Lab Report No.	Flow Average (m^3/min)	Total Volume (m^3)	Total Lead (ug/m^3)	Total Lead Quarterly Average	Total Arsenic (ug/m^3)	Total Arsenic Quarterly Average	Total Antimony (ug/m^3)	Total Antimony Quarterly Average	Daily PM_{10} (ug/m^3)	PM_{10} Quarterly Average
08/25/03	EPA approved discontinuing TSP monitoring.						**0.10**		**<0.05**		**<0.05**		
TSP-7 North Perimeter of Subarea 2													
06/23/03	TSP7-01		Pace 5028316	1.289	1856	<0.05		<0.05		<0.05			
06/24/03	TSP7-02		Pace 5028316	1.255	1807	0.0500		<0.05		<0.05			
06/25/03	TSP7-03		Pace 5028449	1.307	1902	0.0650		<0.05		<0.05			
06/26/03	TSP7-04		Pace 5028449	1.124	1619	<0.05		<0.05		<0.05			
06/27/03	TSP7-05		Pace 5028449	1.198	1726	<0.05		<0.05		<0.05			
06/30/03	TSP7-06		Pace 5028510	1.299	1871	<0.05		<0.05		<0.05			
07/01/03	TSP7-07		Pace 5028510	1.179	1697	0.1910		<0.05		<0.05			
07/02/03	TSP7-08		Pace 5028573	1.291	1859	0.1840		<0.05		<0.05			
07/07/03	TSP7-09		Pace 5028573	1.421	2047	0.0778		<0.05		<0.05			
07/08/03	TSP7-10		Pace 5028674	1.183	1709	0.6610		<0.05		<0.05			
07/09/03	TSP7-11		Pace 5028674	1.109	1559	0.5960		<0.05		<0.05			
07/10/03	TSP7-12		Pace 5028709	1.146	1650	0.1580		<0.05		<0.05			
07/11/03	TSP7-13		Pace 5028709	1.413	2077	<0.05		<0.05		<0.05			
07/14/03	TSP7-14		Pace 5028840	1.364	1944	1.0800		<0.05		<0.05			
07/15/03	TSP7-15		Pace 5028840	1.444	2058	0.5550		<0.05		<0.05			
07/16/03	TSP7-16		Pace 5028840	1.535	2234	1.2500		<0.05		<0.05			
07/17/03	TSP7-17		Pace 5028885	1.438	2049	0.0688		<0.05		<0.05			
07/18/03	TSP7-18		Pace 5028885	1.386	2003	<0.05		<0.05		<0.05			
07/21/03	TSP7-19		Pace 5028934	1.423	2049	<0.05		<0.05		<0.05			
07/22/03	TSP7-20		Pace 5028934	1.400	1995	0.5640		<0.05		<0.05			
07/23/03	TSP7-21		Pace 5029050	1.413	1992	<0.05		<0.05		<0.05			
07/24/03	TSP7-22		Pace 5029050	1.423	2006	<0.05		<0.05		<0.05			
07/25/03	TSP7-23		Pace 5029050	1.399	2056	<0.05		<0.05		<0.05			
07/28/03	TSP7-24		Pace 5029111	1.388	2041	<0.05		<0.05		<0.05			
07/29/03	TSP7-25		Pace 5029111	1.409	2071	<0.05		<0.05		<0.05			
07/30/03	TSP7-26		Pace 5029187	1.383	2033	0.1300		<0.05		<0.05			
07/31/03	TSP7-27		Pace 5029187	1.405	2016	<0.05		<0.05		<0.05			
08/01/03	TSP7-28		Pace 5029220	1.415	2037	<0.05		<0.05		<0.05			
08/04/03	TSP7-29		Pace 5029220	1.413	2007	<0.05		<0.05		<0.05			
08/05/03	TSP7-30		Pace 5029321	1.373	1970	<0.05		<0.05		<0.05			
08/06/03	TSP7-31		Pace 5029321	1.374	2012	0.0500		<0.05		<0.05			
08/07/03	TSP7-32		Pace 5029321	1.419	2015	<0.05		<0.05		<0.05			
08/08/03	TSP7-33		Pace 5029362	1.424	2036	<0.05		<0.05		<0.05			
08/11/03	TSP7-34		Pace 5029362	1.421	2011	<0.05		<0.05		<0.05			
08/12/03	TSP7-35		Pace 5029463	1.427	2041	0.0570		<0.05		<0.05			
08/13/03	TSP7-36		Pace 5029463	1.415	2031	<0.05		<0.05		<0.05			

TABLE 2: PERIMETER AIR MONITORING ANALYTICAL RESULTS
RSR CORPORATION SUPERFUND SITE, OPERABLE UNIT NO. 5
SUBAREAS 2, 3 AND 4, DALLAS, TEXAS

Sample Date	Sample ID No.	Filter ID No.	Lab Report No.	Flow Average (m^3/min)	Total Volume (m^3)	Total Lead (ug/m^3)	Total Lead Quarterly Average	Total Arsenic (ug/m^3)	Total Arsenic Quarterly Average	Total Antimony (ug/m^3)	Total Antimony Quarterly Average	Daily PM_{10} (ug/m^3)	PM_{10} Quarterly Average
08/14/03	TSP7-37		Pace 5029463	1.418	2070	<0.05		<0.05		<0.05			
08/15/03	TSP7-38		Pace 5029497	1.401	2024	<0.05		<0.05		<0.05			
08/18/03	TSP7-39		Pace 5029497	1.412	1977	<0.05		<0.05		<0.05			
08/19/03	TSP7-40		Pace 5029590	1.398	2040	<0.05		<0.05		<0.05			
08/20/03	TSP7-41		Pace 5029590	1.411	2032	<0.05		<0.05		<0.05			
08/21/03	TSP7-42		Pace 5029590	1.391	1989	<0.05		<0.05		<0.05			
08/22/03	TSP7-43		Pace 5029774	1.405	2024	<0.05		<0.05		<0.05			
08/25/03	EPA approved discontinuing TSP monitoring.						**0.16**		**<0.05**		**<0.05**		
TSP-9 South Perimeter of Subarea 2													
06/23/03	TSP9-01		Pace 5028316	1.303	1818	<0.05		<0.05		<0.05			
06/24/03	TSP9-02		Pace 5028316	1.581	2269	0.0710		<0.05		<0.05			
06/25/03	TSP9-03		Pace 5028449	1.436	2125	<0.05		<0.05		<0.05			
06/26/03	TSP9-04		Pace 5028449	1.644	2375	<0.05		<0.05		<0.05			
06/27/03	TSP9-05		Pace 5028449	1.572	2264	<0.05		<0.05		<0.05			
06/30/03	TSP9-06		Pace 5028510	1.362	1961	<0.05		<0.05		<0.05			
07/01/03	TSP9-07		Pace 5028510	1.535	2210	<0.05		<0.05		<0.05			
07/02/03	TSP9-08		Pace 5028573	1.470	2117	<0.05		<0.05		<0.05			
07/07/03	TSP9-09		Pace 5028573	1.510	2144	<0.05		<0.05		<0.05			
07/08/03	Unit replaced by TSP #11												
TSP-11 South Perimeter of Subarea 2 (Replaced TSP #9)													
07/09/03	TSP11-10		Pace 5028674	1.555	2232	<0.05		<0.05		<0.05			
07/10/03	TSP11-11		Pace 5028709	1.540	2202	0.5130		<0.05		<0.05			
07/11/03	TSP11-12		Pace 5028709	1.425	2024	<0.05		<0.05		<0.05			
07/14/03	TSP11-13		Pace 5028840	1.257	1773	<0.05		<0.05		<0.05			
07/15/03	TSP11-14		Pace 5028840	1.450	2074	<0.05		<0.05		<0.05			
07/16/03	TSP11-15		Pace 5028840	1.410	2066	<0.05		<0.05		<0.05			
07/17/03	TSP11-16		Pace 5028885	1.374	1965	0.0535		<0.05		<0.05			
07/18/03	TSP11-17		Pace 5028885	1.240	1797	<0.05		<0.05		<0.05			
07/23/03	TSP11-18		Pace 5029050	1.434	2015	<0.05		<0.05		<0.05			
07/24/03	TSP11-19		Pace 5029050	1.451	2068	<0.05		<0.05		<0.05			
07/25/03	TSP11-20		Pace 5029050	1.275	1887	<0.05		<0.05		<0.05			
07/28/03	TSP11-21		Pace 5029111	1.339	1968	0.0870		<0.05		<0.05			
07/29/03	TSP11-22		Pace 5029111	1.382	1949	0.1600		<0.05		<0.05			
07/30/03	TSP11-23		Pace 5029187	1.297	1907	0.0680		<0.05		<0.05			
07/31/03	TSP11-24		Pace 5029187	1.481	2110	0.0670		<0.05		<0.05			
08/01/03	TSP11-25		Pace 5029220	1.267	1857	<0.05		<0.05		<0.05			
08/04/03	TSP11-26		Pace 5029220	1.282	1820	<0.05		<0.05		<0.05			
08/05/03	TSP11-27		Pace 5029321	1.484	2129	0.1080		<0.05		<0.05			

TABLE 2: PERIMETER AIR MONITORING ANALYTICAL RESULTS
RSR CORPORATION SUPERFUND SITE, OPERABLE UNIT NO. 5
SUBAREAS 2, 3 AND 4, DALLAS, TEXAS

Sample Date	Sample ID No.	Filter ID No.	Lab Report No.	Flow Average (m^3/min)	Total Volume (m^3)	Total Lead (ug/m^3)	Total Lead Quarterly Average	Total Arsenic (ug/m^3)	Total Arsenic Quarterly Average	Total Antimony (ug/m^3)	Total Antimony Quarterly Average	Daily PM_{10} (ug/m^3)	PM_{10} Quarterly Average
08/06/03	TSP11-28		Pace 5029321	1.443	2107	0.0740		<0.05		<0.05			
08/07/03	TSP11-29		Pace 5029321	1.427	2027	<0.05		<0.05		<0.05			
08/08/03	TSP11-30		Pace 5029362	1.375	2001	<0.05		<0.05		<0.05			
08/11/03	TSP11-31		Pace 5029362	1.394	1951	<0.05		<0.05		<0.05			
08/12/03	TSP11-32		Pace 5029463	1.464	2093	<0.05		<0.05		<0.05			
08/13/03	TSP11-33		Pace 5029463	1.438	2078	<0.05		<0.05		<0.05			
08/14/03	TSP11-34		Pace 5029463	1.483	2165	<0.05		<0.05		<0.05			
08/15/03	TSP11-35		Pace 5029497	1.341	1944	<0.05		<0.05		<0.05			
08/18/03	TSP11-36		Pace 5029497	1.385	1932	<0.05		<0.05		<0.05			
08/19/03	TSP11-37		Pace 5029590	1.377	2017	<0.05		<0.05		<0.05			
08/20/03	TSP11-38		Pace 5029590	1.521	2190	<0.05		<0.05		<0.05			
08/21/03	TSP11-39		Pace 5029590	1.302	1862	<0.05		<0.05		<0.05			
08/22/03	TSP11-40		Pace 5029774	1.406	2039	<0.05		<0.05		<0.05			
08/25/03	EPA approved discontinuing TSP monitoring.						**0.07**		**<0.05**		**<0.05**		
TSP-10 West Perimeter of Subarea 2													
06/23/03	TSP10-01		Pace 5028316	1.294	1805	<0.05		<0.05		<0.05			
06/24/03	TSP10-02		Pace 5028316	1.132	1625	0.0710		<0.05		<0.05			
06/25/03	TSP10-03		Pace 5028449	1.157	1706	0.0600		<0.05		<0.05			
06/26/03	TSP10-04		Pace 5028449	1.291	1859	<0.05		<0.05		<0.05			
06/27/03	TSP10-05		Pace 5028449	1.411	2032	<0.05		<0.05		<0.05			
06/30/03	TSP10-06		Pace 5028510	1.333	1920	0.2870		<0.05		<0.05			
07/01/03	TSP10-07		Pace 5028510	1.418	2041	0.1690		<0.05		<0.05			
07/02/03	TSP10-08		Pace 5028573	1.361	1960	<0.05		<0.05		<0.05			
07/07/03	TSP10-09		Pace 5028573	1.590	2273	0.0544		<0.05		<0.05			
07/08/03	TSP10-10		Pace 5028674	1.907	2736	0.0920		<0.05		<0.05			
07/09/03	TSP10-11		Pace 5028674	1.842	2541	0.2700		<0.05		<0.05			
07/10/03	TSP10-12		Pace 5028709	1.546	2272	0.1220		<0.05		<0.05			
07/11/03	TSP10-13		Pace 5028709	1.596	2346	<0.05		<0.05		<0.05			
07/14/03	TSP10-14		Pace 5028840	1.504	2143	0.053		<0.05		<0.05			
07/15/03	TSP10-15		Pace 5028840	1.457	2084	0.258		<0.05		<0.05			
07/16/03	TSP10-16		Pace 5028840	1.411	2060	0.499		<0.05		<0.05			
07/17/03	TSP10-17		Pace 5028885	1.616	2303	<0.05		<0.05		<0.05			
07/18/03	TSP10-18		Pace 5028885	1.416	2053	<0.05		<0.05		<0.05			
07/21/03	TSP10-19		Pace 5028934	1.583	2232	<0.05		<0.05		<0.05			
07/22/03	TSP10-20		Pace 5028934	1.456	2089	0.076		<0.05		<0.05			
07/23/03	TSP10-21		Pace 5029050	1.460	2081	<0.05		<0.05		<0.05			
07/24/03	TSP10-22		Pace 5029050	1.471	2060	<0.05		<0.05		<0.05			
07/25/03	TSP10-23		Pace 5029050	1.564	2314	<0.05		<0.05		<0.05			

TABLE 2: PERIMETER AIR MONITORING ANALYTICAL RESULTS
RSR CORPORATION SUPERFUND SITE, OPERABLE UNIT NO. 5
SUBAREAS 2, 3 AND 4, DALLAS, TEXAS

Sample Date	Sample ID No.	Filter ID No.	Lab Report No.	Flow Average (m^3/min)	Total Volume (m^3)	Total Lead (ug/m^3)	Total Lead Quarterly Average	Total Arsenic (ug/m^3)	Total Arsenic Quarterly Average	Total Antimony (ug/m^3)	Total Antimony Quarterly Average	Daily PM_{10} (ug/m^3)	PM_{10} Quarterly Average
07/28/03	TSP10-24		Pace 5029111	1.473	2158	<0.05		<0.05		<0.05			
07/29/03	TSP10-25		Pace 5029111	1.504	2211	<0.05		<0.05		<0.05			
07/30/03	TSP10-26		Pace 5029187	1.544	2207	<0.05		<0.05		<0.05			
07/31/03	TSP10-27		Pace 5029187	1.554	2222	<0.05		<0.05		<0.05			
08/01/03	TSP10-28		Pace 5029220	1.565	2254	<0.05		<0.05		<0.05			
08/04/03	TSP10-29		Pace 5029220	1.426	2010	<0.05		<0.05		<0.05			
08/05/03	TSP10-30		Pace 5029321	1.519	2187	<0.05		<0.05		<0.05			
08/06/03	TSP10-31		Pace 5029321	1.502	2200	<0.05		<0.05		<0.05			
08/07/03	TSP10-32		Pace 5029321	1.457	2077	<0.05		<0.05		<0.05			
08/08/03	TSP10-33		Pace 5029362	1.500	2168	0.077		<0.05		<0.05			
08/11/03	TSP10-34		Pace 5029362	1.582	2215	<0.05		<0.05		<0.05			
08/12/03	TSP10-35		Pace 5029463	1.550	2224	0.054		<0.05		<0.05			
08/13/03	TSP10-36		Pace 5029463	1.551	2233	<0.05		<0.05		<0.05			
08/14/03	TSP10-37		Pace 5029463	1.451	2111	<0.05		<0.05		<0.05			
08/15/03	TSP10-38		Pace 5029497	1.501	2168	<0.05		<0.05		<0.05			
08/18/03	TSP10-39		Pace 5029497	1.495	2092	<0.05		<0.05		<0.05			
08/19/03	TSP10-40		Pace 5029590	1.421	2075	<0.05		<0.05		<0.05			
08/20/03	TSP10-41		Pace 5029590	1.550	2170	<0.05		<0.05		<0.05			
08/21/03	TSP10-42		Pace 5029590	1.473	2106	<0.05		<0.05		<0.05			
08/22/03	TSP10-43		Pace 5029774	1.570	2285	<0.05		<0.05		<0.05			
08/25/03	EPA approved discontinuing TSP monitoring.						**0.08**		**<0.05**		**<0.05**		
TSP-8 Amelia Earhart School (Became Duplicate on 7/10/03)													
06/25/03	TSP8-01		Pace 5028449	1.364	1944	<0.05		<0.05		<0.05			
06/26/03	TSP8-02		Pace 5028449	1.405	2023	<0.05		<0.05		<0.05			
06/27/03	TSP8-03		Pace 5028449	1.274	1796	<0.05		<0.05		<0.05			
06/30/03	TSP8-04		Pace 5028510	1.196	1722	<0.05		<0.05		<0.05			
07/01/03	TSP8-05		Pace 5028510	1.113	1608	<0.05		<0.05		<0.05			
07/02/03	TSP8-06		Pace 5028573	1.392	2005	<0.05		<0.05		<0.05			
07/07/03	TSP8-07		Pace 5028573	1.426	2071	<0.05		<0.05		<0.05			
07/08/03	TSP8-08		Pace 5028674	1.317	1936	<0.05		<0.05		<0.05			
07/09/03	TSP8-09		Pace 5028674	1.377	1941	<0.05		<0.05		<0.05			
07/25/03	TSP8-10		Pace 5029050	1.425	1995	<0.05		<0.05		<0.05			
07/28/03	TSP8-11		Pace 5029111	1.462	2120	<0.05		<0.05		<0.05			
08/18/03	EPA approved discontinuing duplicate air monitoring.						**<0.05**		**<0.05**		**<0.05**		
TSP-6 Amelia Earhart School (Duplicate 6/25 - 7/9)													
06/25/03	TSP6-01		Pace 5028449	1.354	1929	<0.05		<0.05		<0.05			
06/26/03	TSP6-02		Pace 5028449	1.355	1951	<0.05		<0.05		<0.05			
06/27/03	TSP6-03		Pace 5028449	1.203	1697	<0.05		<0.05		<0.05			

TABLE 2: PERIMETER AIR MONITORING ANALYTICAL RESULTS
RSR CORPORATION SUPERFUND SITE, OPERABLE UNIT NO. 5
SUBAREAS 2, 3 AND 4, DALLAS, TEXAS

Sample Date	Sample ID No.	Filter ID No.	Lab Report No.	Flow Average (m^3/min)	Total Volume (m^3)	Total Lead (ug/m^3)	Total Lead Quarterly Average	Total Arsenic (ug/m^3)	Total Arsenic Quarterly Average	Total Antimony (ug/m^3)	Total Antimony Quarterly Average	Daily PM_{10} (ug/m^3)	PM_{10} Quarterly Average
06/30/03	TSP6-04		Pace 5028510	1.147	1652	<0.05		<0.05		<0.05			
07/01/03	TSP6-05		Pace 5028510	1.398	2013	<0.05		<0.05		<0.05			
07/08/03	TSP6-06		Pace 5028674	1.147	1686	<0.05		<0.05		<0.05			
07/09/03	TSP6-07		Pace 5028674	1.330	1842	<0.05		<0.05		<0.05			
07/10/03	TSP6-08		Pace 5028709	1.307	1849	<0.05		<0.05		<0.05			
07/11/03	TSP6-09		Pace 5028709	1.314	1919	<0.05		<0.05		<0.05			
07/14/03	TSP6-10		Pace 5028840	1.075	1548	<0.05		<0.05		<0.05			
07/15/03	TSP6-11		Pace 5028840	1.367	1982	<0.05		<0.05		<0.05			
07/16/03	TSP6-12		Pace 5028840	1.354	1936	<0.05		<0.05		<0.05			
07/17/03	TSP6-13		Pace 5028885	1.384	1978	<0.05		<0.05		<0.05			
07/18/03	TSP6-14		Pace 5028885	1.353	1956	<0.05		<0.05		<0.05			
07/21/03	TSP6-15		Pace 5028934	1.346	1892	<0.05		<0.05		<0.05			
07/22/03	TSP6-16		Pace 5028934	1.343	1981	<0.05		<0.05		<0.05			
07/23/03	TSP6-17		Pace 5029050	1.383	2005	<0.05		<0.05		<0.05			
07/24/03	TSP6-18		Pace 5029050	1.378	1943	<0.05		<0.05		<0.05			
07/25/03	TSP6-19		Pace 5029050	1.349	1889	<0.05		<0.05		<0.05			
07/28/03	TSP6-20		Pace 5029111	1.369	1991	<0.05		<0.05		<0.05			
07/29/03	TSP6-21		Pace 5029111	1.348	1961	<0.05		<0.05		<0.05			
07/30/03	TSP6-22		Pace 5029187	1.35	1971	<0.05		<0.05		<0.05			
07/31/03	TSP6-23		Pace 5029187	1.409	1972	<0.05		<0.05		<0.05			
08/01/03	TSP6-24		Pace 5029220	1.361	1954	<0.05		<0.05		<0.05			
08/04/03	TSP6-25		Pace 5029220	1.372	1934	<0.05		<0.05		<0.05			
08/05/03	TSP6-26		Pace 5029321	1.395	1994	<0.05		<0.05		<0.05			
08/06/03	TSP6-27		Pace 5029321	1.374	2019	<0.05		<0.05		<0.05			
08/07/03	TSP6-28		Pace 5029321	1.361	1960	<0.05		<0.05		<0.05			
08/08/03	TSP6-29		Pace 5029362	1.377	1941	<0.05		<0.05		<0.05			
08/11/03	TSP6-30		Pace 5029362	1.379	1968	<0.05		<0.05		<0.05			
08/12/03	TSP6-31		Pace 5029463	1.406	1996	<0.05		<0.05		<0.05			
08/13/03	TSP6-32		Pace 5029463	1.412	2012	<0.05		<0.05		<0.05			
08/14/03	TSP6-33		Pace 5029463	1.446	2119	<0.05		<0.05		<0.05			
08/18/03	TSP6-34		Pace 5029497	1.257	1791	<0.05		<0.05		<0.05			
08/19/03	TSP6-35		Pace 5029590	1.291	1852	<0.05		<0.05		<0.05			
08/20/03	TSP6-36		Pace 5029590	1.396	1955	<0.05		<0.05		<0.05			
08/21/03	TSP6-37		Pace 5029590	1.373	1984	<0.05		<0.05		<0.05			
08/22/03	TSP6-38		Pace 5029774	1.392	1948	<0.05		<0.05		<0.05			
08/25/03	EPA approved discontinuing TSP monitoring.						**<0.05**		**<0.05**		**<0.05**		
PM-1935 East Perimeter of Subarea 2													
06/23/03	PM1935-01	7454257	Pace 5028316	1.197	1676							32.20	

TABLE 2: PERIMETER AIR MONITORING ANALYTICAL RESULTS
RSR CORPORATION SUPERFUND SITE, OPERABLE UNIT NO. 5
SUBAREAS 2, 3 AND 4, DALLAS, TEXAS

Sample Date	Sample ID No.	Filter ID No.	Lab Report No.	Flow Average (m^3/min)	Total Volume (m^3)	Total Lead (ug/m^3)	Total Lead Quarterly Average	Total Arsenic (ug/m^3)	Total Arsenic Quarterly Average	Total Antimony (ug/m^3)	Total Antimony Quarterly Average	Daily PM_{10} (ug/m^3)	PM_{10} Quarterly Average
06/24/03	PM1935-02	7454267	Pace 5028316	1.171	1651							26.20	
06/25/03	PM1935-03	7454275	Pace 5028449	1.190	1713							42.20	
06/26/03	PM1935-04	7454287	Pace 5028449	1.192	1670							21.20	
06/27/03	PM1935-05	7443176	Pace 5028449	1.184	1682							19.70	
06/30/03	PM1935-06	7443186	Pace 5028510	1.179	1653							47.50	
07/01/03	PM1935-07	7453638	Pace 5028510	1.188	1660							10.20	
07/02/03	PM1935-08	7453628	Pace 5028573	1.189	1656							13.50	
07/07/03	PM1935-09	7453622	Pace 5028573	1.188	1687							27.60	
07/08/03	PM1935-10	7453673	Pace 5028674	1.189	1661							9.99	
07/09/03	PM1935-11	7453666	Pace 5028674	1.186	1618							43.20	
07/10/03	PM1935-12	7453652	Pace 5028709	1.189	1671							33.60	
07/11/03	PM1935-13	7453700	Pace 5028709	1.184	1623							11.90	
07/14/03	PM1935-14	7453690	Pace 5028840	1.189	1664							55.10	
07/15/03	PM1935-15	7453651	Pace 5028840	1.188	1647							61.90	
07/16/03	PM1935-16	7453602	Pace 5028840	1.195	1686							47.70	
07/17/03	PM1935-17	7448208	Pace 5028885	1.189	1651							54.00	
07/18/03	PM1935-18	7448222	Pace 5028885	1.189	1651							40.50	
07/21/03	PM1935-19	7448227	Pace 5028934	1.191	1633							49.50	
07/22/03	PM1935-20	7448243	Pace 5028934	1.193	1636							57.30	
07/23/03	PM1935-21	7448281	Pace 5029050	1.197	1630							47.10	
07/24/03	PM1935-22	7448290	Pace 5029050	1.194	1617							36.90	
07/25/03	PM1935-23	7460905	Pace 5029050	1.185	1679							24.70	
07/28/03	PM1935-24	7448242	Pace 5029111	1.195	1709							56.30	
07/29/03	PM1935-25	7460925	Pace 5029111	1.187	1680							76.50	
07/30/03	PM1935-26	7460937	Pace 5029187	1.185	1640							69.90	
07/31/03	PM1935-27	7460946	Pace 5029187	1.183	1641							61.70	
08/01/03	PM1935-28	7460960	Pace 5029220	1.192	1664							26.40	
08/04/03	PM1935-29	7460965	Pace 5029220	1.191	1651							56.00	
08/05/03	PM1935-30	7460982	Pace 5029321	1.195	1674							43.50	
08/06/03	PM1935-31	7460992	Pace 5029321	1.198	1691							50.90	
08/07/03	PM1935-32	7458052	Pace 5029321	1.194	1676							61.00	
08/08/03	PM1935-33	7458062	Pace 5029362	1.193	1644							15.60	
08/11/03	PM1935-34	7458069	Pace 5029362	1.191	1678							36.20	
08/12/03	PM1935-35	7458086	Pace 5029463	1.183	1655							32.00	
08/13/03	PM1935-36	7458098	Pace 5029463	1.188	1697							39.30	
08/14/03	PM1935-37	7501408	Pace 5029463	1.188	1739							39.30	
08/15/03	PM1935-38	7501418	Pace 5029497	1.186	1704							16.50	
08/18/03	PM1935-39	7458089	Pace 5029497	1.193	1630							42.90	

TABLE 2: PERIMETER AIR MONITORING ANALYTICAL RESULTS
RSR CORPORATION SUPERFUND SITE, OPERABLE UNIT NO. 5
SUBAREAS 2, 3 AND 4, DALLAS, TEXAS

Sample Date	Sample ID No.	Filter ID No.	Lab Report No.	Flow Average (m^3/min)	Total Volume (m^3)	Total Lead (ug/m^3)	Total Lead Quarterly Average	Total Arsenic (ug/m^3)	Total Arsenic Quarterly Average	Total Antimony (ug/m^3)	Total Antimony Quarterly Average	Daily PM_{10} (ug/m^3)	PM_{10} Quarterly Average
08/19/03	PM1935-40	7501438	Pace 5029590	1.190	1715							44.70	
08/20/03	PM1935-41	7501447	Pace 5029590	1.190	1644							32.70	
08/21/03	PM1935-42	7501458	Pace 5029590	1.191	1653							41.10	
08/22/03	PM1935-43	7501468	Pace 5029774	1.191	1667							20.50	
08/25/03	EPA approved discontinuing PM10 monitoring except North and South stations at Subarea 2.												**38.99**
PM-1958 South Perimeter of Subarea 2													
06/23/03	PM1958-01	7454253	Pace 5028316	1.197	1641							25.60	
06/24/03	PM1958-02	7454261	Pace 5028316	1.199	1685							<1.00	
06/25/03	PM1958-03	7454269	Pace 5028449	1.201	1741							3.62	
06/26/03	PM1958-04	7454281	Pace 5028449	1.198	1731							15.80	
06/27/03	PM1958-05	7443174	Pace 5028449	1.194	1697							27.50	
06/30/03	PM1958-06	7443184	Pace 5028510	1.192	1671							35.80	
07/01/03	PM1958-07	7443199	Pace 5028510	1.192	1666							40.70	
07/02/03	PM1958-08	7453630	Pace 5028573	1.197	1667							3.66	
07/07/03	PM1958-09	7453620	Pace 5028573	1.198	1672							16.60	
07/08/03	PM1958-10	7453679	Pace 5028674	1.199	1669							20.80	
07/09/03	PM1958-11	7453663	Pace 5028674	1.196	1678							30.50	
07/10/03	PM1958-12	7453646	Pace 5028709	1.199	1656							36.80	
07/11/03	PM1958-13	7453699	Pace 5028709	1.194	1666							13.70	
07/14/03	PM1958-14	7453690	Pace 5028840	1.199	1638							37.80	
07/15/03	PM1958-15	7453685	Pace 5028840	1.197	1683							53.40	
07/16/03	PM1958-16	7453607	Pace 5028840	1.199	1686							31.30	
07/17/03	PM1958-17	7448203	Pace 5028885	1.201	1680							35.10	
07/18/03	PM1958-18	7448217	Pace 5028885	1.198	1675							6.45	
07/23/03	PM1958-19	7448233	Pace 5029050	1.200	1692							26.50	
07/24/03	PM1958-20	7448292	Pace 5029050	1.202	1657							26.10	
07/25/03	PM1958-21	7448299	Pace 5029050	1.201	1725							17.40	
07/28/03	PM1958-22	7448285	Pace 5029111	1.209	1717							42.20	
07/29/03	PM1958-23	7460919	Pace 5029111	1.200	1699							40.60	
07/30/03	PM1958-24	7460931	Pace 5029187	1.194	1635							38.00	
07/31/03	PM1958-25	7460941	Pace 5029187	1.195	1652							36.40	
08/01/03	PM1958-26	7460917	Pace 5029220	1.197	1694							18.20	
08/04/03	PM1958-27	7460966	Pace 5029220	1.202	1666							48.00	
08/05/03	PM1958-28	7460976	Pace 5029321	1.202	1678							20.40	
08/06/03	PM1958-29	7460986	Pace 5029321	1.207	1715							36.60	
08/07/03	PM1958-30	7460996	Pace 5029321	1.206	1710							41.90	
08/08/03	PM1958-31	7458056	Pace 5029362	1.202	1703							12.20	
08/11/03	PM1958-32	7458070	Pace 5029362	1.201	1651							30.80	

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RSR CORPORATION SUPERFUND SITE, OPERABLE UNIT NO. 5
SUBAREAS 2, 3 AND 4, DALLAS, TEXAS

Sample Date	Sample ID No.	Filter ID No.	Lab Report No.	Flow Average (m^3/min)	Total Volume (m^3)	Total Lead (ug/m^3)	Total Lead Quarterly Average	Total Arsenic (ug/m^3)	Total Arsenic Quarterly Average	Total Antimony (ug/m^3)	Total Antimony Quarterly Average	Daily PM_{10} (ug/m^3)	PM_{10} Quarterly Average
08/12/03	PM1958-33	7458080	Pace 5029463	1.198	1706							22.20	
08/13/03	PM1958-34	7458092	Pace 5029463	1.197	1728							35.20	
08/14/03	PM1958-35	7501402	Pace 5029463	1.196	1739							28.80	
08/15/03	PM1958-36	7501412	Pace 5029497	1.195	1723							15.70	
08/18/03	PM1958-37	7501421	Pace 5029497	1.202	1636							35.70	
08/19/03	PM1958-38	7504432	Pace 5029590	1.202	1720							32.40	
08/20/03	PM1958-39	7501441	Pace 5029590	1.201	1648							23.10	
08/21/03	PM1958-40	7501452	Pace 5029590	1.202	1686							28.40	
08/22/03	PM1958-41	7501462	Pace 5029774	1.202	1706							13.40	
08/25/03	PM1958-42	7501475	Pace 5029774	1.205	1673							42.00	
08/26/03	PM1958-43	7501486	Pace 5029774	1.209	1701							39.00	
08/28/03	PM1958-44	7501494	Pace 5029774	1.200	1678							24.10	
09/03/03	PM1958-45	7501500	Pace 5029977	1.189	1683							15.80	
09/04/03	PM1958-46	7502402	Pace 5029977	1.194	1715							23.70	
09/05/03	PM1958-47	7502404	Pace 5029977	1.192	1683							12.70	
09/08/03	PM1958-48	7502406	Pace 5029977	1.193	1674							35.80	
09/09/03	PM1958-49	7502408	Pace 5030127	1.192	1714							40.00	
09/10/03	PM1958-50	7502416	Pace 5030127	1.192	1689							25.60	
09/15/03	EPA approved discontinuing PM10 monitoring.												**27.30**
PM-2587 North Perimeter of Subarea 2													
06/23/03	PM2587-01	7454251	Pace 5028316	1.198	1695							22.60	
06/24/03	PM2587-02	7454265	Pace 5028316	1.203	1696							24.40	
06/25/03	PM2587-03	7454273	Pace 5028449	1.180	1682							29.00	
06/26/03	PM2587-04	7454285	Pace 5028449	1.177	1690							16.20	
06/27/03	PM2587-05	7443170	Pace 5028449	1.173	1672							25.20	
06/30/03	PM2587-06	7443182	Pace 5028510	1.171	1642							33.60	
07/01/03	PM2587-07	7453637	Pace 5028510	1.177	1645							36.40	
07/02/03	PM2587-08	7453625	Pace 5028573	1.178	1641							44.40	
07/07/03	PM2587-09	7453617	Pace 5028573	1.178	1667							22.70	
07/08/03	PM2587-10	7453674	Pace 5028674	1.186	1669							25.70	
07/09/03	PM2587-11	7453664	Pace 5028674	1.177	1600							37.80	
07/10/03	PM2587-12	7453650	Pace 5028709	1.179	1645							24.00	
07/11/03	PM2587-13	7453642	Pace 5028709	1.172	1693							9.86	
07/14/03	PM2587-14	7453686	Pace 5028840	1.177	1613							38.00	
07/15/03	PM2587-15	7453683	Pace 5028840	1.176	1642							58.20	
07/16/03	PM2587-16	7453603	Pace 5028840	1.178	1656							43.50	
07/17/03	PM2587-17	7448207	Pace 5028885	1.179	1643							31.70	
07/18/03	PM2587-18	7448220	Pace 5028885	1.179	1643							16.10	

TABLE 2: PERIMETER AIR MONITORING ANALYTICAL RESULTS
RSR CORPORATION SUPERFUND SITE, OPERABLE UNIT NO. 5
SUBAREAS 2, 3 AND 4, DALLAS, TEXAS

Sample Date	Sample ID No.	Filter ID No.	Lab Report No.	Flow Average (m^3/min)	Total Volume (m^3)	Total Lead (ug/m^3)	Total Lead Quarterly Average	Total Arsenic (ug/m^3)	Total Arsenic Quarterly Average	Total Antimony (ug/m^3)	Total Antimony Quarterly Average	Daily PM_{10} (ug/m^3)	PM_{10} Quarterly Average
07/21/03	PM2587-19	7448229	Pace 5028934	1.180	1635							3.91	
07/22/03	PM2587-20	7448247	Pace 5028934	1.183	1617							27.70	
07/23/03	PM2587-21	7448235	Pace 5029050	1.183	1685							26.60	
07/24/03	PM2587-22	7448296	Pace 5029050	1.181	1628							29.40	
07/25/03	PM2587-23	7460903	Pace 5029050	1.174	1686							20.00	
07/28/03	PM2587-24	7460908	Pace 5029111	1.179	1675							41.10	
07/29/03	PM2587-25	7460923	Pace 5029111	1.177	1666							37.60	
07/30/03	PM2587-26	7460935	Pace 5029187	1.176	1627							35.10	
07/31/03	PM2587-27	7460947	Pace 5029187	1.174	1634							36.70	
08/01/03	PM2587-28	7460958	Pace 5029220	1.182	1656							16.20	
08/04/03	PM2587-29	7460968	Pace 5029220	1.181	1626							45.30	
08/05/03	PM2587-30	7460980	Pace 5029321	1.183	1651							31.40	
08/06/03	PM2587-31	7460990	Pace 5029321	1.185	1673							36.30	
08/07/03	PM2587-32	7458060	Pace 5029321	1.184	1627							7.87	
08/08/03	PM2587-33	7458060	Pace 5029362	1.181	1662							11.40	
08/11/03	PM2587-34	7458071	Pace 5029362	1.181	1647							25.00	
08/12/03	PM2587-35	7458085	Pace 5029463	1.178	1672							22.10	
08/13/03	PM2587-36	7458096	Pace 5029463	1.176	1680							31.10	
08/14/03	PM2587-37	7501406	Pace 5029463	1.176	1722							26.40	
08/15/03	PM2587-38	7501416	Pace 5029497	1.176	1690							12.30	
08/18/03	PM2587-39	7501422	Pace 5029497	1.182	1615							30.80	
08/19/03	PM2587-40	7501436	Pace 5029590	1.181	1696							29.40	
08/20/03	PM2587-41	7501445	Pace 5029590	1.181	1620							21.70	
08/21/03	PM2587-42	7501456	Pace 5029590	1.183	1653							23.80	
08/22/03	PM2587-43	7501466	Pace 5029774	1.183	1662							7.88	
08/25/03	PM2587-44	7501477	Pace 5029774	1.183	1660							38.50	
08/26/03	PM2587-45	7501489	Pace 5029774	1.179	1653							30.70	
08/28/03	PM2587-46	7501495	Pace 5029774	1.178	1647							19.10	
09/03/03	PM2587-47	7502401	Pace 5029977	1.169	1643							14.60	
09/04/03	PM2587-48	7502403	Pace 5029977	1.171	1694							21.70	
09/05/03	PM2587-49	7502405	Pace 5029977	1.170	1657							9.90	
09/08/03	PM2587-50	7502407	Pace 5029977	1.170	1641							48.60	
09/09/03	PM2587-51	7502409	Pace 5030127	1.170	1647							41.30	
09/10/03	PM2587-52	7502415	Pace 5030127	1.171	1665							27.10	
09/15/03	EPA approved discontinuing PM10 monitoring.												**27.46**
PM-2901 West Perimeter of Subarea 2													
06/23/03	PM2901-01	7454255	Pace 5028316	1.196	1640							22.10	
06/24/03	PM2901-02	7454263	Pace 5028316	1.199	1691							<1.00	

TABLE 2: PERIMETER AIR MONITORING ANALYTICAL RESULTS
RSR CORPORATION SUPERFUND SITE, OPERABLE UNIT NO. 5
SUBAREAS 2, 3 AND 4, DALLAS, TEXAS

Sample Date	Sample ID No.	Filter ID No.	Lab Report No.	Flow Average (m^3/min)	Total Volume (m^3)	Total Lead (ug/m^3)	Total Lead Quarterly Average	Total Arsenic (ug/m^3)	Total Arsenic Quarterly Average	Total Antimony (ug/m^3)	Total Antimony Quarterly Average	Daily PM_{10} (ug/m^3)	PM_{10} Quarterly Average
06/25/03	PM2901-03	7454271	Pace 5028449	1.181	1706							28.20	
06/26/03	PM2901-04	7454283	Pace 5028449	1.177	1696							18.00	
06/27/03	PM2901-05	7443172	Pace 5028449	1.173	1661							24.90	
06/30/03	PM2901-06	7443188	Pace 5028510	1.172	1643							49.30	
07/01/03	PM2901-07	7443200	Pace 5028510	1.177	1645							34.80	
07/02/03	PM2901-08	7453626	Pace 5028573	1.177	1640							31.20	
07/07/03	PM2901-09	7453616	Pace 5028573	1.178	1662							21.20	
07/08/03	PM2901-10	7453677	Pace 5028674	1.179	1653							19.10	
07/09/03	PM2901-11	7453662	Pace 5028674	1.177	1594							44.00	
07/10/03	PM2901-12	7453648	Pace 5028709	1.179	1668							31.40	
07/11/03	PM2901-13	7453644	Pace 5028709	1.185	1648							8.86	
07/14/03	PM2901-14	7453688	Pace 5028840	1.188	1634							32.10	
07/15/03	PM2901-15	7453615	Pace 5028840	1.179	1646							54.40	
07/16/03	PM2901-16	7453605	Pace 5028840	1.179	1652							40.10	
07/17/03	PM2901-17	7448205	Pace 5028885	1.180	1650							31.60	
07/18/03	PM2901-18	7448218	Pace 5028885	1.180	1645							14.50	
07/21/03	PM2901-19	7448229	Pace 5028934	1.182	1638							27.20	
07/22/03	PM2901-20	7448247	Pace 5028934	1.183	1611							26.10	
07/23/03	PM2901-21	7448237	Pace 5029050	1.182	1684							32.60	
07/24/03	PM2901-22	7448294	Pace 5029050	1.182	1618							29.50	
07/25/03	PM2901-23	7460901	Pace 5029050	1.176	1689							18.40	
07/28/03	PM2901-24	7460921	Pace 5029111	1.180	1665							40.50	
07/29/03	PM2901-25	7460921	Pace 5029111	1.180	1682							38.40	
07/30/03	PM2901-26	7460933	Pace 5029187	1.174	1624							33.60	
07/31/03	PM2901-27	7460943	Pace 5029187	1.174	1629							36.30	
08/01/03	PM2901-28	7460956	Pace 5029220	1.182	1661							15.40	
08/04/03	PM2901-29	7460969	Pace 5029220	1.182	1627							18.80	
08/05/03	PM2901-30	7460978	Pace 5029321	1.180	1653							34.80	
08/06/03	PM2901-31	7460988	Pace 5029321	1.187	1681							38.30	
08/07/03	PM2901-32	7460998	Pace 5029321	1.186	1636							41.30	
08/08/03	PM2901-33	7458058	Pace 5029362	1.182	1669							11.90	
08/11/03	PM2901-34	7458073	Pace 5029362	1.180	1634							27.00	
08/12/03	PM2901-35	7458082	Pace 5029463	1.177	1670							26.00	
08/13/03	PM2901-36	7458094	Pace 5029463	1.175	1684							34.60	
08/14/03	PM2901-37	7501414	Pace 5029463	1.175	1714							29.80	
08/15/03	PM2901-38	7501414	Pace 5029497	1.175	1688							13.30	
08/18/03	PM2901-39	7501423	Pace 5029497	1.183	1616							37.40	
08/19/03	PM2901-40	7501434	Pace 5029590	1.181	1696							5.66	

TABLE 2: PERIMETER AIR MONITORING ANALYTICAL RESULTS
RSR CORPORATION SUPERFUND SITE, OPERABLE UNIT NO. 5
SUBAREAS 2, 3 AND 4, DALLAS, TEXAS

Sample Date	Sample ID No.	Filter ID No.	Lab Report No.	Flow Average (m^3/min)	Total Volume (m^3)	Total Lead (ug/m^3)	Total Lead Quarterly Average	Total Arsenic (ug/m^3)	Total Arsenic Quarterly Average	Total Antimony (ug/m^3)	Total Antimony Quarterly Average	Daily PM_{10} (ug/m^3)	PM_{10} Quarterly Average
08/20/03	PM2901-41	7501443	Pace 5029590	1.182	1616							4.70	
08/21/03	PM2901-42	7501454	Pace 5029590	1.187	1664							5.95	
08/22/03	PM2901-43	7501464	Pace 5029774	1.193	1688							5.98	
08/25/03	EPA approved discontinuing PM10 monitoring except North and South stations at Subarea 2.												**26.52**
PM-2084 Amelia Earhart School													
06/25/03	PM2084-01	7454279	Pace 5028449	1.192	1635							<1.0	
06/26/03	PM2084-02	7443169	Pace 5028449	1.183	1698							2.24	
06/27/03	PM2084-03	7443179	Pace 5028449	1.184	1647							25.10	
06/30/03	PM2084-04	7443191	Pace 5028510	1.183	1659							31.60	
07/01/03	PM2084-05	7443194	Pace 5028510	1.185	1656							35.50	
07/02/03	PM2084-06	7453633	Pace 5028573	1.189	1656							35.70	
07/07/03	PM2084-07	7453632	Pace 5028573	1.190	1655							18.70	
07/08/03	PM2084-08	7453671	Pace 5028674	1.191	1693							16.30	
07/09/03	PM2084-09	7453659	Pace 5028674	1.197	1621							21.20	
07/10/03	PM2084-10	7453655	Pace 5028709	1.191	1685							12.60	
07/11/03	PM2084-11	7453696	Pace 5028709	1.185	1689							6.75	
07/14/03	PM2084-12	7453669	Pace 5028840	1.190	1660							30.50	
07/15/03	PM2084-13	7453684	Pace 5028840	1.189	1677							53.70	
07/16/03	PM2084-14	7453601	Pace 5028840	1.191	1651							25.70	
07/17/03	PM2084-15	7448210	Pace 5028885	1.191	1648							30.90	
07/18/03	PM2084-16	7448224	Pace 5028885	1.191	1666							10.90	
07/21/03	PM2084-17	7448226	Pace 5028934	1.192	1617							27.70	
07/22/03	PM2084-18	7448245	Pace 5028934	1.195	1679							23.40	
07/23/03	PM2084-19	7448283	Pace 5029050	1.195	1685							20.30	
07/24/03	PM2084-20	7448288	Pace 5029050	1.194	1635							24.60	
07/25/03	PM2084-21	7460907	Pace 5029050	1.187	1613							8.00	
07/28/03	PM2084-22	7448297	Pace 5029111	1.196	1676							38.40	
07/29/03	PM2084-23	7460927	Pace 5029111	1.185	1666							37.40	
07/30/03	PM2084-24	7460938	Pace 5029187	1.187	1677							31.40	
07/31/03	PM2084-25	7460952	Pace 5029187	1.186	1611							39.00	
08/01/03	PM2084-26	7460962	Pace 5029220	1.193	1665							12.90	
08/04/03	PM2084-27	7460967	Pace 5029220	1.192	1641							10.10	
08/05/03	PM2084-28	7460984	Pace 5029321	1.196	1675							33.10	
08/06/03	PM2084-29	7460994	Pace 5029321	1.198	1697							36.90	
08/07/03	PM2084-30	7458054	Pace 5029321	1.195	1666							40.80	
08/08/03	PM2084-31	7458064	Pace 5029362	1.193	1638							10.00	
08/11/03	PM2084-32	7458072	Pace 5029362	1.191	1672							24.80	
08/12/03	PM2084-33	7458088	Pace 5029463	1.189	1675							21.30	

TABLE 2: PERIMETER AIR MONITORING ANALYTICAL RESULTS
RSR CORPORATION SUPERFUND SITE, OPERABLE UNIT NO. 5
SUBAREAS 2, 3 AND 4, DALLAS, TEXAS

Sample Date	Sample ID No.	Filter ID No.	Lab Report No.	Flow Average (m^3/min)	Total Volume (m^3)	Total Lead (ug/m^3)	Total Lead Quarterly Average	Total Arsenic (ug/m^3)	Total Arsenic Quarterly Average	Total Antimony (ug/m^3)	Total Antimony Quarterly Average	Daily PM_{10} (ug/m^3)	PM_{10} Quarterly Average
08/13/03	PM2084-34	7458100	Pace 5029463	1.188	1697							28.60	
08/14/03	PM2084-35	7501410	Pace 5029463	1.188	1733							23.80	
08/18/03	PM2084-36	7501420	Pace 5029497	1.193	1659							30.90	
08/19/03	PM2084-37	7501428	Pace 5029590	1.192	1683							26.40	
08/20/03	PM2084-38	7501449	Pace 5029590	1.193	1637							21.60	
08/21/03	PM2084-39	7501460	Pace 5029590	1.193	1685							25.80	
08/22/03	PM2084-40	7501470	Pace 5029774	1.192	1628							10.90	
08/25/03	EPA approved discontinuing PM10 monitoring except North and South stations at Subarea 2.												**24.16**
PM-1957 Amelia Earhart School (Duplicate)													
06/25/03	PM1957-01	7454278	Pace 5028449	1.191	1633							23.30	
06/26/03	PM1957-02	7443168	Pace 5028449	1.179	1693							15.70	
06/27/03	PM1957-03	7443178	Pace 5028449	1.184	1647							24.30	
06/30/03	PM1957-04	7443190	Pace 5028510	1.182	1657							32.50	
07/01/03	PM1957-05	7443195	Pace 5028510	1.182	1652							35.80	
07/08/03	PM1957-06	7453682	Pace 5028674	1.190	1686							16.30	
07/09/03	PM1957-07	7453660	Pace 5028674	1.186	1600							27.50	
07/23/03	PM1957-08	7448284	Pace 5029050	1.193	1682							21.30	
07/24/03	PM1957-09	7448287	Pace 5029050	1.193	1633							24.90	
08/18/03	EPA approved discontinuing duplicate air monitoring.												**24.62**
TP Field Blanks													
07/09/03	TP-FB-001		Pace 5028674			<0.05		<0.05		<0.05			
07/10/03	TP-FB-002		Pace 5028709			<0.05		<0.05		<0.05		<1.0	
07/11/03	TP-FB-003		Pace 5028709			<0.05		<0.05		<0.05		<1.0	
07/14/03	TP-FB-004		Pace 5028840			<0.05		<0.05		<0.05		<1.0	
07/15/03	TP-FB-005		Pace 5028840			<0.05		<0.05		<0.05		<1.0	
07/16/03	TP-FB-006		Pace 5028840			<0.05		<0.05		<0.05		<1.0	
07/17/03	TP-FB-007		Pace 5028885			<0.05		<0.05		<0.05		<1.0	
07/18/03	TP-FB-008		Pace 5028885			<0.05		<0.05		<0.05		<1.0	
07/21/03	TP-FB-009		Pace 5028934			<0.05		<0.05		<0.05		<1.0	
07/22/03	TP-FB-010		Pace 5028934			<0.05		<0.05		<0.05		<1.0	
07/23/03	TP-FB-011		Pace 5029050			<0.05		<0.05		<0.05		<1.0	
07/24/03	TP-FB-012		Pace 5029050			<0.05		<0.05		<0.05		<1.0	
07/25/03	TP-FB-013		Pace 5029050			<0.05		<0.05		<0.05		<1.0	
07/28/03	TP-FB-014		Pace 5029111			<0.05		<0.05		<0.05		<1.0	
07/29/03	TP-FB-015		Pace 5029111			<0.05		<0.05		<0.05		<1.0	
07/30/03	TP-FB-016		Pace 5029187			<0.05		<0.05		<0.05		<1.0	
07/31/03	TP-FB-017		Pace 5029187			<0.05		<0.05		<0.05		<1.0	
08/01/03	TP-FB-018		Pace 5029220			<0.05		<0.05		<0.05		<1.0	

TABLE 2: PERIMETER AIR MONITORING ANALYTICAL RESULTS
RSR CORPORATION SUPERFUND SITE, OPERABLE UNIT NO. 5
SUBAREAS 2, 3 AND 4, DALLAS, TEXAS

Sample Date	Sample ID No.	Filter ID No.	Lab Report No.	Flow Average (m^3/min)	Total Volume (m^3)	Total Lead (ug/m^3)	Total Lead Quarterly Average	Total Arsenic (ug/m^3)	Total Arsenic Quarterly Average	Total Antimony (ug/m^3)	Total Antimony Quarterly Average	Daily PM_{10} (ug/m^3)	PM_{10} Quarterly Average
08/04/03	TP-FB-019		Pace 5029220			<0.05		<0.05		<0.05		<1.0	
08/05/03	TP-FB-020		Pace 5029321			<0.05		<0.05		<0.05		<1.0	
08/06/03	TP-FB-021		Pace 5029321			<0.05		<0.05		<0.05		<1.0	
08/07/03	TP-FB-022		Pace 5029321			<0.05		<0.05		<0.05		<1.0	
08/08/03	TP-FB-023		Pace 5029362			<0.05		<0.05		<0.05		<1.0	
08/11/03	TP-FB-024		Pace 5029362			<0.05		<0.05		<0.05		<1.0	
08/15/03	TP-FB-025		Pace 5029497			<0.05		<0.05		<0.05		<1.0	
08/18/03	TP-FB-026		Pace 5029497			<0.05		<0.05		<0.05		<1.0	
08/19/03	TP-FB-027		Pace 5029590			<0.05		<0.05		<0.05		<1.0	
08/20/03	TP-FB-028		Pace 5029590			<0.05		<0.05		<0.05		<1.0	
08/21/03	TP-FB-029		Pace 5029590			<0.05		<0.05		<0.05		<1.0	
08/22/03	TP-FB-030		Pace 5029774			<0.05		<0.05		<0.05		<1.0	
08/25/03	TP-FB-031		Pace 5029774			<0.05		<0.05		<0.05		<1.0	
08/26/03	TP-FB-032		Pace 5029774			<0.05		<0.05		<0.05		<1.0	
08/28/03	TP-FB-033		Pace 5029774			<0.05		<0.05		<0.05		<1.0	
09/03/03	TP-FB-34		Pace 5029977									<1.0	
09/04/03	TP-FB-35		Pace 5029977									<1.0	
09/05/03	TP-FB-36		Pace 5029977									<1.0	
09/10/03	TP-FP-37		Pace 5029977									<1.0	

TABLE 3: INVESTIGATION SAMPLE RESULTS
RSR CORPORATION SUPERFUND SITE, OPERABLE UNIT NO. 5
SUBAREAS 2, 3 AND 4, DALLAS, TEXAS

Sample ID No.	Sample Date	Sample Description[1]	Sample Location	XRF Results			Laboratory Results						Remedial Action[3]
				Total Lead (ppm)	Total Arsenic (ppm)	Total Antimony (ppm)	Sample ID No.	Sample Date	Laboratory Report No.	Total Lead (mg/kg)	Total Arsenic (mg/kg)	Total Antimony (mg/kg)	
Conservative Assumption Number[2]				**1582** **1381**	**26** **23**	**616** **596**	**Remedial Action Goal**			**2000**	**32.7**	**818**	
XRF-01	07/02/03	Conservative Assumption No.	Subarea 2	20410	2890	1700	XRF-01	07/02/03	STL 219587	17900	966	806	
XRF-01X	07/02/03	Conservative Assumption No.	Subarea 2	20410	2890	1700	XRF-01X	07/02/03	STL 219587	54900	1300	1860	
XRF-02	07/02/03	Conservative Assumption No.	Subarea 2	1180	113	146	XRF-02	07/02/03	STL 219587	868	83	42	
XRF-03	07/02/03	Conservative Assumption No.	Subarea 2	5200	355	503	XRF-03	07/02/03	STL 219587	7180	482	401	
XRF-04	07/02/03	Conservative Assumption No.	Subarea 2	2320	126	312	XRF-04	07/02/03	STL 219587	2100	191	131	
XRF-05	07/02/03	Conservative Assumption No.	Subarea 2	765	61.7	124	XRF-05	07/02/03	STL 219587	876	58	48	
XRF-06	07/02/03	Conservative Assumption No.	Subarea 2	528	103	<60	XRF-06	07/02/03	STL 219587	89	37	<5	
XRF-07	07/02/03	Conservative Assumption No.	Subarea 2	1090	86.5	92.8	XRF-07	07/02/03	STL 219587	882	55	30	
XRF-08	07/02/03	Conservative Assumption No.	Subarea 2	2570	242	230	XRF-08	07/02/03	STL 219587	2310	169	110	
XRF-09	07/02/03	Conservative Assumption No.	Subarea 2	963	<60	73.8	XRF-09	07/02/03	STL 219587	1030	72	40	
XRF-10	07/02/03	Conservative Assumption No.	Subarea 2	358	<60	<60	XRF-10	07/02/03	STL 219587	419	53	19	
XRF-11	07/02/03	Conservative Assumption No.	Subarea 2	420	<60	<60	XRF-11	07/02/03	STL 219587	329	25	7	
XRF-12	07/02/03	Conservative Assumption No.	Subarea 2	389	48.1	<60	XRF-12	07/02/03	STL 219587	366	27	18	
XRF-13	07/02/03	Conservative Assumption No.	Subarea 2	430	<54	<60	XRF-13	07/02/03	STL 219587	382	32	13	
XRF-14	07/02/03	Conservative Assumption No.	Subarea 2	213	32.0	<51	XRF-14	07/02/03	STL 219587	82	13	<5	
XRF-15	07/02/03	Conservative Assumption No.	Subarea 2	43.6	<29	<40	XRF-15	07/02/03	STL 219587	16	7	<5	
XRF-16	07/02/03	Conservative Assumption No.	Subarea 2	81.1	<27	<49	XRF-16	07/02/03	STL 219587	43	8	<5	
XRF-17	07/02/03	Conservative Assumption No.	Subarea 2	31	<37	53.1	XRF-17	07/02/03	STL 219587	182	19	7	
XRF-18	07/02/03	Conservative Assumption No.	Subarea 2	188	<28	<34	XRF-18	07/02/03	STL 219587	127	20	<5	
XRF-19	07/02/03	Conservative Assumption No.	Subarea 2	548	59.4	112	XRF-19	07/02/03	STL 219587	738	62	33	
XRF-20	07/02/03	Conservative Assumption No.	Subarea 2	2,440	174	296	XRF-20	07/02/03	STL 219587	2880	246	162	
XRF-20X	07/02/03	Conservative Assumption No.	Subarea 2	2,440	174	296	XRF-20X	07/02/03	STL 219587	1950	150	136	
XRF-21	07/02/03	Conservative Assumption No.	Subarea 2	2,350	226	515	XRF-21	07/02/03	STL 219587	19900	528	1420	
XRF-22	07/02/03	Conservative Assumption No.	Subarea 2	1,710	174	87.5	XRF-22	07/02/03	STL 219587	2440	230	183	
XRF-23	07/02/03	Conservative Assumption No.	Subarea 2	37	31	94	XRF-23	07/02/03	STL 219587	1070	130	151	
XRF-24	07/02/03	Conservative Assumption No.	Subarea 2	130	89	54	XRF-24	07/02/03	STL 219587	4600	224	164	
XRF-25	07/02/03	Conservative Assumption No.	Subarea 2	52	<63	<40	XRF-25	07/02/03	STL 219587	654	52	34	
XRF-26	07/02/03	Conservative Assumption No.	Subarea 2	2,030	147	188	XRF-26	07/02/03	STL 219587	2540	157	133	
XRF-27	07/02/03	Conservative Assumption No.	Subarea 2	1,830	201.6	265	XRF-27	07/02/03	STL 219587	4780	308	1010	
XRF-28	07/02/03	Conservative Assumption No.	Subarea 2	5,320	486	787	XRF-28	07/02/03	STL 219587	2730	217	431	
XRF-29	07/02/03	Conservative Assumption No.	Subarea 2	3,680	227	764	XRF-29	07/02/03	STL 219587	10100	702	812	
XRF-30	07/02/03	Conservative Assumption No.	Subarea 2	3,240	<140	823	XRF-30	07/02/03	STL 219587	33800	1440	4130	
XRF-30X	07/02/03	Conservative Assumption No.	Subarea 2	3,240	<140	823	XRF-30X	07/02/03	STL 219587	6610	576	631	
Subarea 2 Investigation Data													
A2	07/10/03	4-pt composite grid sample	Subarea 2	**2180**	**94.4**	<110							Soil Cover
A3	07/10/03	4-pt composite grid sample	Subarea 2	1330	**37.9**	<81							Soil Cover
A4	07/10/03	4-pt composite grid sample	Subarea 2	**2280**	**<94**	174							Soil Cover
A5	07/11/03	4-pt composite grid sample	Subarea 2	**2830**	**<93**	<81							Soil Cover
A6	07/11/03	4-pt composite grid sample	Subarea 2	1160	**82.9**	<79							Soil Cover

TABLE 3: INVESTIGATION SAMPLE RESULTS
RSR CORPORATION SUPERFUND SITE, OPERABLE UNIT NO. 5
SUBAREAS 2, 3 AND 4, DALLAS, TEXAS

Sample ID No.	Sample Date	Sample Description[1]	Sample Location	XRF Results			Laboratory Results						Remedial Action[3]
				Total Lead (ppm)	Total Arsenic (ppm)	Total Antimony (ppm)	Sample ID No.	Sample Date	Laboratory Report No.	Total Lead (mg/kg)	Total Arsenic (mg/kg)	Total Antimony (mg/kg)	
Conservative Assumption Number[2]				**1582** **1381**	**26** **23**	**616** **596**	**Remedial Action Goal**			**2000**	**32.7**	**818**	
A7	07/11/03	4-pt composite grid sample	Subarea 2	862	**95.4**	<91							Soil Cover
A8	07/14/03	4-pt composite grid sample	Subarea 2	425	<24	<67							NFA
A9	07/14/03	4-pt composite grid sample	Subarea 2	758	<19	<26							NFA
A10	08/05/03	4-pt composite grid sample	Subarea 2	**3710**	**<140**	140							Excavated
A11	08/05/03	4-pt composite grid sample	Subarea 2	95	<15	<55							NFA
A12	08/05/03	4-pt composite grid sample	Subarea 2	426	**29.6**	<59	SV-S2-A12-0.25 SV-S2-A12X-0.25	08/05/03 08/05/03	STL 220240 STL 220240	526 2	12 <1	NA	NFA
A13	08/05/03	4-pt composite grid sample	Subarea 2	353	<20	<28							NFA
A14	08/05/03	4-pt composite grid sample	Subarea 2	**2050**	**<55**	278	SV-S2-A14-0.25	08/05/03	STL 220240	19	<1	NA	NFA
A15	08/05/03	4-pt composite grid sample	Subarea 2	342	<23	<58							NFA
A16	08/05/03	4-pt composite grid sample	Subarea 2	236	<22	<88							NFA
A17	08/05/03	4-pt composite grid sample	Subarea 2	283	<23	<80							NFA
A18	08/05/03	4-pt composite grid sample	Subarea 2	**1020**	**50.9**	<45	SV-S2-A18-0.25	08/05/03	STL 220240	365	6	NA	NFA
A19	08/05/03	4-pt composite grid sample	Subarea 2	542	<22	<60							NFA
A20	03/13/03	Initial grab grid sample	Subarea 2	258	NA	NA							NFA
B3	07/10/03	4-pt composite grid sample	Subarea 2	**2180**	**<74**	108							Soil Cover
B4	07/10/03	4-pt composite grid sample	Subarea 2	**1560**	**119**	<83							Soil Cover
B5	07/11/03	4-pt composite grid sample	Subarea 2	434	21.4	<100							Transition Cover
B6	07/11/03	4-pt composite grid sample	Subarea 2	**2790**	**<84**	<87							Soil Cover
B7	07/11/03	4-pt composite grid sample	Subarea 2	**2580**	**<95**	83.7							Soil Cover
B8	07/14/03	4-pt composite grid sample	Subarea 2	**20100**	**631**	353							Soil Cover
B9	07/14/03	4-pt composite grid sample	Subarea 2	**4870**	**263**	<79							Soil Cover
B10	08/06/03	4-pt composite grid sample	Subarea 2	842	**61.5**	<97	SV-S2-B10-0.25	08/06/03	STL 220240	248	10	NA	NFA
B11	08/05/03	4-pt composite grid sample	Subarea 2	385	<22	<54							NFA
B12	08/05/03	4-pt composite grid sample	Subarea 2	**2370**	**<83**	<92	SV-S2-B12-0.25	08/05/03	STL 220240	749	5	NA	NFA
B13	08/05/03	4-pt composite grid sample	Subarea 2	951	**38.2**	<48	SV-S2-B13-0.25	08/05/03	STL 220240	582	11	NA	NFA
B14	08/05/03	4-pt composite grid sample	Subarea 2	511	**<25**	113	SV-S2-B14-0.25	08/05/03	STL 220240	898	11	NA	NFA
B15	08/05/03	4-pt composite grid sample	Subarea 2	543	<20	<92							NFA
B16	08/05/03	4-pt composite grid sample	Subarea 2	358	<21	81							NFA
B17	08/05/03	4-pt composite grid sample	Subarea 2	488	<18	<85							NFA
B18	08/05/03	4-pt composite grid sample	Subarea 2	409	<19	<33							NFA
B19	08/05/03	4-pt composite grid sample	Subarea 2	379	<22	<49							NFA
B20	08/05/03	4-pt composite grid sample	Subarea 2	423	<19	<35							NFA
B21	08/13/03	4-pt composite grid sample	Subarea 2	119	16.7	<62							NFA
B22	08/13/03	4-pt composite grid sample	Subarea 2	119	<21	<59							NFA
B23	08/13/03	4-pt composite grid sample	Subarea 2	225	21.6	<73							NFA
B24	08/13/03	4-pt composite grid sample	Subarea 2	159	<19	<70							NFA
B25	08/13/03	4-pt composite grid sample	Subarea 2	42.8	<14	<50							NFA
B26	08/13/03	4-pt composite grid sample	Subarea 2	**5050**	**582**	216							Excavated

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RSR CORPORATION SUPERFUND SITE, OPERABLE UNIT NO. 5
SUBAREAS 2, 3 AND 4, DALLAS, TEXAS

Sample ID No.	Sample Date	Sample Description[1]	Sample Location	XRF Results			Laboratory Results						Remedial Action[3]
				Total Lead (ppm)	Total Arsenic (ppm)	Total Antimony (ppm)	Sample ID No.	Sample Date	Laboratory Report No.	Total Lead (mg/kg)	Total Arsenic (mg/kg)	Total Antimony (mg/kg)	
Conservative Assumption Number[2]				**1582** **1381**	**26** **23**	**616** **596**	**Remedial Action Goal**			**2000**	**32.7**	**818**	
C3	07/10/03	4-pt composite grid sample	Subarea 2	971	**58.4**	233							Soil Cover
C4	07/10/03	4-pt composite grid sample	Subarea 2	**2440**	**90.5**	<86							Soil Cover
C5	07/11/03	4-pt composite grid sample	Subarea 2	851	<25	<87							Transition Cover
C6	07/11/03	4-pt composite grid sample	Subarea 2	143	<23	<95							NFA
C7	07/11/03	4-pt composite grid sample	Subarea 2	**41100**	**2840**	3550							Soil Cover
C8	07/14/03	4-pt composite grid sample	Subarea 2	**12300**	**<240**	376							Soil Cover
C9	07/14/03	4-pt composite grid sample	Subarea 2	**8200**	**286**	127							Soil Cover
C10	08/06/03	4-pt composite grid sample	Subarea 2	682	<21	<77							NFA
C11	08/05/03	4-pt composite grid sample	Subarea 2	568	<22	<71							NFA
C12	08/05/03	4-pt composite grid sample	Subarea 2	502	<23	<56							NFA
C13	08/05/03	4-pt composite grid sample	Subarea 2	612	**41**	<53	SV-S2-C13	10/07/03	STL 221153	8	4	NA	NFA
C14	08/05/03	4-pt composite grid sample	Subarea 2	285	<23	<40							NFA
C15	08/05/03	4-pt composite grid sample	Subarea 2	504	<23	<79							NFA
C16	08/05/03	4-pt composite grid sample	Subarea 2	931	<20	<73							NFA
C17	08/05/03	4-pt composite grid sample	Subarea 2	497	<22	<67							NFA
C18	08/05/03	4-pt composite grid sample	Subarea 2	262	20.5	<36							NFA
C19	08/05/03	4-pt composite grid sample	Subarea 2	289	<19	<34							NFA
C20	08/05/03	4-pt composite grid sample	Subarea 2	484	**30.7**	<42	SV-S2-C20-0.25	08/05/03	STL 220240	588	8	NA	NFA
C21	08/13/03	4-pt composite grid sample	Subarea 2	342	<17	<49							Transition Cover
C22	08/13/03	4-pt composite grid sample	Subarea 2	103	<21	<70							NFA
C26	08/13/03	4-pt composite grid sample	Subarea 2	45.9	<19	<66							Transition Cover
C27	08/13/03	4-pt composite grid sample	Subarea 2	537	22.7	<38							Transition Cover
D4	07/10/03	4-pt composite grid sample	Subarea 2	486	<17	<22							Transition Cover
D5	07/11/03	4-pt composite grid sample	Subarea 2	324	<13	<69							Transition Cover
D6	07/11/03	4-pt composite grid sample	Subarea 2	**53100**	**865**	375							Soil Cover
D7	07/11/03	4-pt composite grid sample	Subarea 2	**17000**	**653**	385							Soil Cover
D8	07/14/03	4-pt composite grid sample	Subarea 2	**4570**	**276**	147							Soil Cover
D9	07/14/03	4-pt composite grid sample	Subarea 2	**3660**	**<130**	98.7							Soil Cover
D10	08/06/03	4-pt composite grid sample	Subarea 2	516	**30.8**	<81	SV-S2-D10-0.25	08/06/03	STL 220240	419	9	NA	NFA
D11	08/06/03	4-pt composite grid sample	Subarea 2	530	<19	<57							NFA
D12	08/06/03	4-pt composite grid sample	Subarea 2	750	<21	<64							NFA
D13	08/06/03	4-pt composite grid sample	Subarea 2	468	<21	<66							NFA
D14	08/20/03	4-pt composite grid sample	Subarea 2	99.3	<21	<65							NFA
D15	08/20/03	4-pt composite grid sample	Subarea 2	365	<20	<61							NFA
D16	08/06/03	4-pt composite grid sample	Subarea 2	996	**29**	<56	SV-S2-D16-0.25	08/06/03	STL 220240	1010	16	NA	NFA
D17	08/06/03	4-pt composite grid sample	Subarea 2	328	<14	<86							NFA
D18	08/06/03	4-pt composite grid sample	Subarea 2	449	17.9	<64							NFA
D19	08/06/03	4-pt composite grid sample	Subarea 2	458	<18	<83							NFA
D26	07/28/03	4-pt composite grid sample	Subarea 2	668	<22	<77							Transition Cover

TABLE 3: INVESTIGATION SAMPLE RESULTS
RSR CORPORATION SUPERFUND SITE, OPERABLE UNIT NO. 5
SUBAREAS 2, 3 AND 4, DALLAS, TEXAS

Sample ID No.	Sample Date	Sample Description[1]	Sample Location	XRF Results			Laboratory Results						Remedial Action[3]
				Total Lead (ppm)	Total Arsenic (ppm)	Total Antimony (ppm)	Sample ID No.	Sample Date	Laboratory Report No.	Total Lead (mg/kg)	Total Arsenic (mg/kg)	Total Antimony (mg/kg)	
Conservative Assumption Number[2]				**1582** **1381**	**26** **23**	**616** **596**	**Remedial Action Goal**			**2000**	**32.7**	**818**	
D27	07/28/03	4-pt composite grid sample	Subarea 2	371	22.1	<61							Transition Cover
E4	07/10/03	4-pt composite grid sample	Subarea 2	304	**30.3**	<100							Soil Cover
E5	07/11/03	4-pt composite grid sample	Subarea 2	**9730**	**239**	158							Soil Cover
E6	07/11/03	4-pt composite grid sample	Subarea 2	**9960**	**443**	930							Soil Cover
E7	07/11/03	4-pt composite grid sample	Subarea 2	**26000**	**1080**	978							Soil Cover
E8	07/14/03	4-pt composite grid sample	Subarea 2	1080	**36.1**	<66							Soil Cover
E9	07/14/03	4-pt composite grid sample	Subarea 2	**2380**	**<66**	<57							Soil Cover
E10	08/06/03	4-pt composite grid sample	Subarea 2	1360	**70.5**	<92	SV-2-E10-0.25	08/12/03	STL 220240	1440	29	NA	NFA
E11	08/06/03	4-pt composite grid sample	Subarea 2	**2270**	**110**	<25	SV-2-E11-0.25	08/12/03	STL 220240	**2010**	19	NA	Excavated
E12	08/06/03	4-pt composite grid sample	Subarea 2	**1480**	**292**	<110	SV-2-E12-0.25	08/12/03	STL 220240	1990	**122**	NA	Excavated
E13	08/06/03	4-pt composite grid sample	Subarea 2	968	**37.8**	<79	SV-S2-E13-0.25	08/06/03	STL 220240	263	6	NA	NFA
E14	08/06/03	4-pt composite grid sample	Subarea 2	391	**27.7**	<61	SV-S2-E14-0.25	08/06/03	STL 220240	478	15	NA	NFA
E15	08/06/03	4-pt composite grid sample	Subarea 2	596	<21	<45							NFA
E16	08/06/03	4-pt composite grid sample	Subarea 2	383	21.8	<84							NFA
E17	08/06/03	4-pt composite grid sample	Subarea 2	467	**30.8**	<48	SV-S2-E17-0.25 SV-S2-E17X-0.25	08/06/03 08/06/03	STL 220240 STL 220240	2 399	<1 11	NA	NFA
E18	08/06/03	4-pt composite grid sample	Subarea 2	266	<18	<44							NFA
E19	03/26/03	Initial grab grid sample	Subarea 2	43.9	NA	NA							NFA
E20	03/26/03	Initial grab grid sample	Subarea 2	42.9	NA	NA							Soil Cover
E25	07/28/03	4-pt composite grid sample	Subarea 2	1170	**114**	66.7							Soil Cover
E26	07/28/03	4-pt composite grid sample	Subarea 2	**3660**	**243**	292							Soil Cover
E27	07/28/03	4-pt composite grid sample	Subarea 2	413	23	<61							Transition Cover
F5	07/11/03	4-pt composite grid sample	Subarea 2	1190	<24	<47							Transition Cover
F6	07/11/03	4-pt composite grid sample	Subarea 2	**6620**	**253**	476							Soil Cover
F7	07/11/03	4-pt composite grid sample	Subarea 2	**6840**	**258**	488							Soil Cover
F8	07/14/03	4-pt composite grid sample	Subarea 2	**2030**	**<94**	<65							Soil Cover
F9	07/14/03	4-pt composite grid sample	Subarea 2	541	<17	<56							Transition Cover
F10	08/15/03	4-pt composite grid sample	Subarea 2	81.6	<22	NA							NFA
F11	08/15/03	4-pt composite grid sample	Subarea 2	906	**87.8**	NA	SV-2-F11-0.25	08/15/03	STL 220327	194	8	NA	Transition Cover
F12	08/15/03	4-pt composite grid sample	Subarea 2	821	**<32**	NA	SV-2-F12-0.25	08/15/03	STL 220327	1480	13	NA	Transition Cover
F13	08/15/03	4-pt composite grid sample	Subarea 2	583	**<27**	NA	SV-2-F13-0.25	08/15/03	STL 220327	955	8	NA	Transition Cover
F14	03/13/03	Initial grab grid sample	Subarea 2	635	NA	NA							Transition Cover
F15	03/13/03	Initial grab grid sample	Subarea 2	308	NA	NA							Transition Cover
F16	03/13/03	Initial grab grid sample	Subarea 2	321	NA	NA							Transition Cover
F17	03/13/03	Initial grab grid sample	Subarea 2	432	NA	NA							Transition Cover
F18	03/13/03	Initial grab grid sample	Subarea 2	80.2	NA	NA							Transition Cover
F19	03/26/03	Initial grab grid sample	Subarea 2	50.3	NA	NA							Soil Cover
F20	03/26/03	Initial grab grid sample	Subarea 2	37.4	NA	NA							Soil Cover

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SUBAREAS 2, 3 AND 4, DALLAS, TEXAS

Sample ID No.	Sample Date	Sample Description[1]	Sample Location	XRF Results			Laboratory Results						Remedial Action[3]
				Total Lead (ppm)	Total Arsenic (ppm)	Total Antimony (ppm)	Sample ID No.	Sample Date	Laboratory Report No.	Total Lead (mg/kg)	Total Arsenic (mg/kg)	Total Antimony (mg/kg)	
Conservative Assumption Number[2]				**1582** **1381**	**26** **23**	**616** **596**	**Remedial Action Goal**			**2000**	**32.7**	**818**	
F21	03/26/03	Initial grab grid sample	Subarea 2	31.6	NA	NA							Soil Cover
F24	07/28/03	4-pt composite grid sample	Subarea 2	399	<26	<44							Soil Cover
F25	07/28/03	4-pt composite grid sample	Subarea 2	937	**58.4**	241							Soil Cover
F26	07/28/03	4-pt composite grid sample	Subarea 2	797	**38.1**	<91							Transition Cover
F27	07/28/03	4-pt composite grid sample	Subarea 2	689	**76.9**	<47							Transition Cover
F28	08/09/03	4-pt composite grid sample	Subarea 2	275	<18	<46							NFA
G5	07/11/03	4-pt composite grid sample	Subarea 2	605	<23	<43							Transition Cover
G6	07/11/03	4-pt composite grid sample	Subarea 2	1100	<23	<71							Transition Cover
G7	07/11/03	4-pt composite grid sample	Subarea 2	694	<20	<71							Transition Cover
G8	07/14/03	4-pt composite grid sample	Subarea 2	1260	<23	<47							Transition Cover
G9	07/14/03	4-pt composite grid sample	Subarea 2	183	<24	<57							Transition Cover
G10	08/15/03	4-pt composite grid sample	Subarea 2	89	<22	NA							NFA
G11	08/15/03	4-pt composite grid sample	Subarea 2	152	<19	NA							Transition Cover
G12	08/15/03	4-pt composite grid sample	Subarea 2	152	**23.6**	NA	SV-2-G12-0.25	08/15/03	STL 220327	137	9	NA	Transition Cover
G13	03/13/03	Initial grab grid sample	Subarea 2	204	NA	NA							Transition Cover
G14	03/13/03	Initial grab grid sample	Subarea 2	1250	NA	NA							Transition Cover
G15	03/13/03	Initial grab grid sample	Subarea 2	114	NA	NA							Transition Cover
G16	03/13/03	Initial grab grid sample	Subarea 2	66.1	NA	NA							Transition Cover
G17	03/13/03	Initial grab grid sample	Subarea 2	79	NA	NA							Transition Cover
G18	03/13/03	Initial grab grid sample	Subarea 2	52.3	NA	NA							Soil Cover
G19	03/26/03	Initial grab grid sample	Subarea 2	38.3	NA	NA							Soil Cover
G20	03/26/03	Initial grab grid sample	Subarea 2	133	NA	NA							Soil Cover
G21	03/26/03	Initial grab grid sample	Subarea 2	259	NA	NA							Soil Cover
G28	08/09/03	4-pt composite grid sample	Subarea 2	183	19.5	<83							NFA
H6	07/11/03	4-pt composite grid sample	Subarea 2	424	<15	<75							Transition Cover
H7	07/11/03	4-pt composite grid sample	Subarea 2	639	<24	<48							Soil Cover
H8	07/14/03	4-pt composite grid sample	Subarea 2	216	18.7	<50							Transition Cover
H9	07/14/03	4-pt composite grid sample	Subarea 2	356	<15	<63							Transition Cover
H10	07/24/03	4-pt composite grid sample	Subarea 2	439	<21	<100							Transition Cover
H11	08/15/03	4-pt composite grid sample	Subarea 2	983	**38.4**	NA	SV-2-H11-0.25	08/15/03	STL 220327	914	19	NA	Transition Cover
H12	08/15/03	4-pt composite grid sample	Subarea 2	164	<22	NA							Transition Cover
H13	03/13/03	Initial grab grid sample	Subarea 2	77.3	NA	NA							Transition Cover
H14	03/13/03	Initial grab grid sample	Subarea 2	**2450**	NA	NA							Transition Cover
H15	03/13/03	Initial grab grid sample	Subarea 2	204	NA	NA							Transition Cover
H16	03/13/03	Initial grab grid sample	Subarea 2	582	NA	NA							Transition Cover
H17	03/13/03	Initial grab grid sample	Subarea 2	211	NA	NA							Transition Cover
H18	03/13/03	Initial grab grid sample	Subarea 2	277	NA	NA							Soil Cover
H19	03/26/03	Initial grab grid sample	Subarea 2	61.3	NA	NA							Soil Cover

TABLE 3: INVESTIGATION SAMPLE RESULTS
RSR CORPORATION SUPERFUND SITE, OPERABLE UNIT NO. 5
SUBAREAS 2, 3 AND 4, DALLAS, TEXAS

Sample ID No.	Sample Date	Sample Description[1]	Sample Location	XRF Results			Laboratory Results						Remedial Action[3]
				Total Lead (ppm)	Total Arsenic (ppm)	Total Antimony (ppm)	Sample ID No.	Sample Date	Laboratory Report No.	Total Lead (mg/kg)	Total Arsenic (mg/kg)	Total Antimony (mg/kg)	
Conservative Assumption Number[2]				**1582** **1381**	**26** **23**	**616** **596**	**Remedial Action Goal**			**2000**	**32.7**	**818**	
H20	03/26/03	Initial grab grid sample	Subarea 2	531	NA	NA							Soil Cover
H21	03/26/03	Initial grab grid sample	Subarea 2	598	NA	NA							Soil Cover
H28	08/09/03	4-pt composite grid sample	Subarea 2	303	21.4	<70							NFA
I7	07/11/03	4-pt composite grid sample	Subarea 2	348	20.7	<50							Transition Cover
I8	07/14/03	4-pt composite grid sample	Subarea 2	695	24.9	<80							Soil Cover
I9	07/14/03	4-pt composite grid sample	Subarea 2	882	**38.7**	<96							Soil Cover
I10	07/23/03	4-pt composite grid sample	Subarea 2	77.5	<24	<67							Transition Cover
I11	07/23/03	4-pt composite grid sample	Subarea 2	100	<18	<72							Transition Cover
I12	07/23/03	4-pt composite grid sample	Subarea 2	90.7	<23	<77							Transition Cover
I13	07/23/03	4-pt composite grid sample	Subarea 2	170	18	<66							Transition Cover
I14	07/24/03	4-pt composite grid sample	Subarea 2	533	<23	<48							Transition Cover
I16	03/26/03	Initial grab grid sample	Subarea 2	565	NA	NA							Transition Cover
I17	03/26/03	Initial grab grid sample	Subarea 2	428	NA	NA							Soil Cover
I18	03/26/03	Initial grab grid sample	Subarea 2	70.6	NA	NA							Soil Cover
I19	03/26/03	Initial grab grid sample	Subarea 2	134	NA	NA							Soil Cover
I20	03/26/03	Initial grab grid sample	Subarea 2	344	NA	NA							Soil Cover
I21	03/26/03	Initial grab grid sample	Subarea 2	646	NA	NA							Soil Cover
J8	07/14/03	4-pt composite grid sample	Subarea 2	396	<16	<65							Transition Cover
J9	07/14/03	4-pt composite grid sample	Subarea 2	**6650**	**622**	457							Soil Cover
J10	07/23/03	4-pt composite grid sample	Subarea 2	**6070**	**838**	513							Soil Cover
J11	07/23/03	4-pt composite grid sample	Subarea 2	590	**56.6**	<110							Soil Cover
J12	07/23/03	4-pt composite grid sample	Subarea 2	427	**<44**	<100							Soil Cover
J13	07/23/03	4-pt composite grid sample	Subarea 2	121	<17	<100							Transition Cover
J14	07/24/03	4-pt composite grid sample	Subarea 2	94	<24	<53							Soil Cover
J16	03/26/03	Initial grab grid sample	Subarea 2	1210	NA	NA							Transition Cover
J17	03/26/03	Initial grab grid sample	Subarea 2	262	NA	NA							Soil Cover
J18	03/26/03	Initial grab grid sample	Subarea 2	152	NA	NA							Soil Cover
J19	03/26/03	Initial grab grid sample	Subarea 2	191	NA	NA							Soil Cover
J20	03/26/03	Initial grab grid sample	Subarea 2	129	NA	NA							Soil Cover
J21	03/26/03	Initial grab grid sample	Subarea 2	404	NA	NA							Soil Cover
K8	07/14/03	4-pt composite grid sample	Subarea 2	1140	**79.5**	71.9							Transition Cover
K9	07/14/03	4-pt composite grid sample	Subarea 2	**2410**	**234**	214							Soil Cover
K9	07/24/03	4-pt composite grid sample	Subarea 2	**4670**	**249**	220							Soil Cover
K10	07/23/03	4-pt composite grid sample	Subarea 2	**13400**	**822**	1030							Soil Cover
K11	07/23/03	4-pt composite grid sample	Subarea 2	851	**72.6**	<110							Soil Cover
K12	07/23/03	4-pt composite grid sample	Subarea 2	444	**30.6**	<130							Soil Cover
K13	07/24/03	4-pt composite grid sample	Subarea 2	**3320**	**299**	485							Soil Cover
K14	07/24/03	4-pt composite grid sample	Subarea 2	979	**58.3**	<59							Soil Cover
K15	07/24/03	4-pt composite grid sample	Subarea 2	334	<19	<39							Transition Cover

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RSR CORPORATION SUPERFUND SITE, OPERABLE UNIT NO. 5
SUBAREAS 2, 3 AND 4, DALLAS, TEXAS

Sample ID No.	Sample Date	Sample Description[1]	Sample Location	XRF Results			Laboratory Results						Remedial Action[3]
				Total Lead (ppm)	Total Arsenic (ppm)	Total Antimony (ppm)	Sample ID No.	Sample Date	Laboratory Report No.	Total Lead (mg/kg)	Total Arsenic (mg/kg)	Total Antimony (mg/kg)	
Conservative Assumption Number[2]				**1582** **1381**	**26** **23**	**616** **596**	**Remedial Action Goal**			**2000**	**32.7**	**818**	
L10	07/24/03	4-pt composite grid sample	Subarea 2	**5950**	**450**	309							Soil Cover
L11	07/23/03	4-pt composite grid sample	Subarea 2	562	**43.6**	<60							Soil Cover
L12	07/23/03	4-pt composite grid sample	Subarea 2	**5810**	**688**	470							Soil Cover
L13	07/24/03	4-pt composite grid sample	Subarea 2	572	**46.3**	<60							Soil Cover
L14	07/24/03	4-pt composite grid sample	Subarea 2	306	24.6	<44							Transition Cover
L15	07/24/03	4-pt composite grid sample	Subarea 2	85.4	<18	<42							Transition Cover
M11	07/23/03	4-pt composite grid sample	Subarea 2	**8100**	**662**	712							Soil Cover
M12	07/23/03	4-pt composite grid sample	Subarea 2	**7420**	**596**	443							Soil Cover
M13	07/24/03	4-pt composite grid sample	Subarea 2	924	**129**	92							Soil Cover
M14	07/24/03	4-pt composite grid sample	Subarea 2	**1540**	**174**	125							Soil Cover
M15	07/24/03	4-pt composite grid sample	Subarea 2	211	<18	<47							Transition Cover
M16	07/24/03	4-pt composite grid sample	Subarea 2	224	10.1	<46							NFA
N12	07/23/03	4-pt composite grid sample	Subarea 2	**15700**	**1420**	1720							Soil Cover
N13	07/24/03	4-pt composite grid sample	Subarea 2	**6870**	**466**	501							Soil Cover
N14	07/24/03	4-pt composite grid sample	Subarea 2	179	<17	<57							Transition Cover
N15	07/24/03	4-pt composite grid sample	Subarea 2	199	<16	<37							Transition Cover
N16	07/24/03	4-pt composite grid sample	Subarea 2	370	9.5	<46							NFA
N17	07/29/03	4-pt composite grid sample	Subarea 2	250	<19	<45							Transition Cover
N18	07/29/03	4-pt composite grid sample	Subarea 2	331	<22	<51							Soil Cover
O14	07/24/03	4-pt composite grid sample	Subarea 2	331	**33.3**	<44							Soil Cover
O15	07/24/03	4-pt composite grid sample	Subarea 2	273	20.5	<62							Transition Cover
O16	07/24/03	4-pt composite grid sample	Subarea 2	292	16.2	<52							NFA
O17	07/29/03	4-pt composite grid sample	Subarea 2	203	<15	<70							NFA
O18	07/29/03	4-pt composite grid sample	Subarea 2	288	<19	<67							Transition Cover
P15	07/24/03	4-pt composite grid sample	Subarea 2	475	<20	<58							NFA
P16	07/24/03	4-pt composite grid sample	Subarea 2	171	22.2	<37							NFA
P17	07/29/03	4-pt composite grid sample	Subarea 2	114	17.9	<59							NFA
P18	07/31/03	4-pt composite grid sample	Subarea 2	193	24.9	<60							NFA
P19	07/31/03	4-pt composite grid sample	Subarea 2	959	**34.9**	60.9							Soil Cover
Q18	07/31/03	4-pt composite grid sample	Subarea 2	133	<23	<41							NFA
Q19	07/31/03	4-pt composite grid sample	Subarea 2	173	<17	<51							NFA
Q20	08/13/03	4-pt composite grid sample	Subarea 2	282	<21	<84							NFA
R21	08/13/03	4-pt composite grid sample	Subarea 2	464	22	<60							NFA
E-01	07/09/03	East bank of drainage channel	Subarea 2	674	**<66**	<45							Excavated
E-02	07/09/03	East bank of drainage channel	Subarea 2	617	**<65**	<60							Excavated
E-03	07/09/03	East bank of drainage channel	Subarea 2	862	**<60**	<65							Excavated
E-04	07/09/03	East bank of drainage channel	Subarea 2	704	**79.3**	<52							Excavated
E-05	07/09/03	East bank of drainage channel	Subarea 2	464	**<45**	<55							Excavated
E-06	07/09/03	East bank of drainage channel	Subarea 2	1240	**<68**	67							Excavated

TABLE 3: INVESTIGATION SAMPLE RESULTS
RSR CORPORATION SUPERFUND SITE, OPERABLE UNIT NO. 5
SUBAREAS 2, 3 AND 4, DALLAS, TEXAS

Sample ID No.	Sample Date	Sample Description[1]	Sample Location	XRF Results			Laboratory Results						Remedial Action[3]
				Total Lead (ppm)	Total Arsenic (ppm)	Total Antimony (ppm)	Sample ID No.	Sample Date	Laboratory Report No.	Total Lead (mg/kg)	Total Arsenic (mg/kg)	Total Antimony (mg/kg)	
Conservative Assumption Number[2]				**1582** **1381**	**26** **23**	**616** **596**	**Remedial Action Goal**			**2000**	**32.7**	**818**	
E-07	07/09/03	East bank of drainage channel	Subarea 2	1380	**<62**	<52							Excavated
E-08	07/09/03	East bank of drainage channel	Subarea 2	465	**<62**	<57							Excavated
E-09	07/09/03	East bank of drainage channel	Subarea 2	568	**49.6**	<49							Excavated
E-10	07/09/03	East bank of drainage channel	Subarea 2	1090	**<73**	<67							Excavated
E-11	07/09/03	East bank of drainage channel	Subarea 2	535	**<57**	<73							Excavated
E-12	07/09/03	East bank of drainage channel	Subarea 2	534	**61.6**	<56							Excavated
W-01	07/09/03	West bank of drainage channel	Subarea 2	1130	**77.7**	<75							Excavated
W-02	07/09/03	West bank of drainage channel	Subarea 2	516	**54.6**	<68							Excavated
W-03	07/09/03	West bank of drainage channel	Subarea 2	775	**105**	<69							Excavated
W-04	07/09/03	West bank of drainage channel	Subarea 2	942	**105**	<70							Excavated
W-05	07/09/03	West bank of drainage channel	Subarea 2	814	**105**	<72							Excavated
W-06	07/09/03	West bank of drainage channel	Subarea 2	866	**<65**	<74							Excavated
W-07	07/09/03	West bank of drainage channel	Subarea 2	770	**70.7**	<76							Excavated
W-08	07/09/03	West bank of drainage channel	Subarea 2	714	**62.8**	<69							Excavated
W-09	07/09/03	West bank of drainage channel	Subarea 2	500	**88**	<72							Excavated
W-10	07/09/03	West bank of drainage channel	Subarea 2	1170	**143**	<72							Excavated
W-11	07/09/03	West bank of drainage channel	Subarea 2	**1740**	**<64**	<74							Excavated
W-12	07/09/03	West bank of drainage channel	Subarea 2	807	**57.2**	<72							Excavated
Subarea 3 Investigation Data													
A1	08/21/03	NW grid (Grid Q5)	Subarea 3	95.9	<19	NA							NFA
A2	08/21/03	N grid (Grid P5)	Subarea 3	169	<23	NA							NFA
A3	08/21/03	NE grid (Grid O5)	Subarea 3	302	<22	NA							NFA
B1	08/21/03	W grid (Grid Q6)	Subarea 3	518	<19	NA							NFA
B2	08/21/03	South 25' of test pit (Grid P6)	Subarea 3	178	<20	NA							NFA
B2	08/21/03	North 25' of test pit (Grid P6)	Subarea 3	198	<19	NA							NFA
B2	08/21/03	East 25' of test pit (Grid P6)	Subarea 3	142	<22	NA							NFA
B2	08/21/03	West 25' of test pit (Grid P6)	Subarea 3	248	<22	NA							NFA
B3	08/21/03	E grid (Grid O6)	Subarea 3	431	**41**	NA	SV-3-B3-0.25**	08/25/03	STL 220426	634	18	NA	NFA
C1	08/21/03	SW grid (Grid Q7)	Subarea 3	552	<23	NA							NFA
C2	08/21/03	S grid (Grid P7)	Subarea 3	428	**33**	NA	SV-3-C2-0.25**	08/25/03	STL 220426	561	22	NA	NFA
C3	08/21/03	SE grid (Grid O7)	Subarea 3	489	<22	NA							NFA
N6	08/22/03		Subarea 3	326	<15	NA							NFA
P8	08/22/03		Subarea 3	648	**31.5**	NA	SV-3-P8-0.25	08/25/03	STL 220426	1160	29	NA	NFA
Test Pit	08/14/03	0-4" Surface	Subarea 3	1030	**60.5**	NA	SV-3-STAKE	08/14/03	STL 220327	822	13	NA	NFA
Test Pit	08/14/03	0-2' South sidewall	Subarea 3	75.1	<10	NA							NFA
Test Pit	08/14/03	2-4' south sidewall	Subarea 3	67.6	<19	NA							NFA
Test Pit	08/14/03	4-6' south sidewall	Subarea 3	552	**43.5**	NA	SV-3-S (4-6')	08/14/03	STL 220327	915	9	NA	NFA
Test Pit	08/14/03	0-2' north sidewall	Subarea 3	59.8	21.6	NA							NFA
Test Pit	08/14/03	2-4' north sidewall	Subarea 3	72.4	<18	NA							NFA

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SUBAREAS 2, 3 AND 4, DALLAS, TEXAS

Sample ID No.	Sample Date	Sample Description[1]	Sample Location	XRF Results			Laboratory Results						Remedial Action[3]
				Total Lead (ppm)	Total Arsenic (ppm)	Total Antimony (ppm)	Sample ID No.	Sample Date	Laboratory Report No.	Total Lead (mg/kg)	Total Arsenic (mg/kg)	Total Antimony (mg/kg)	
Conservative Assumption Number[2]				**1582** **1381**	**26** **23**	**616** **596**	**Remedial Action Goal**			**2000**	**32.7**	**818**	
Test Pit	08/14/03	4-6' north sidewall	Subarea 3	938	**73.2**	NA	SV-3-N (4-6')	08/14/03	STL 220327	858	11	NA	NFA
Test Pit	08/14/03	0-2' east sidewall	Subarea 3	118	<19	NA							NFA
Test Pit	08/14/03	2-4' east sidewall	Subarea 3	74	<21	NA							NFA
Test Pit	08/14/03	4-6' east sidewall	Subarea 3	1090	**34.9**	NA	SV-3-E (4-6')	08/14/03	STL 220327	1150	16	NA	NFA
Test Pit	08/14/03	0-2' west sidewall	Subarea 3	215	22.7	NA							NFA
Test Pit	08/14/03	2-4' west sidewall	Subarea 3	212	22.4	NA							NFA
Test Pit	08/14/03	4-6' west sidewall	Subarea 3	**1500**	**88.4**	NA	SV-3-W (4-6')	08/14/03	STL 220327	682	8	NA	NFA
Test Pit	08/14/03	6' bottom	Subarea 3	70.1	<17	NA							NFA
Subarea 4 Investigation Data													
H1	07/23/03	Surface	Subarea 4A	**12500**	**476**	NA							Excavated 0.5'
H1	07/23/03	1'	Subarea 4A	294	<24	NA							
H1	07/23/03	2'	Subarea 4A	**5110**	**147**	NA							
H1	07/23/03	Stockpile	Subarea 4A	**2110**	**<100**	NA							
H2	07/23/03	Surface	Subarea 4A	**10400**	**308**	NA							Excavated 0.5'
H3	07/22/03	Surface	Subarea 4A	**7930**	**367**	NA							Excavated 1.5'
H3	07/22/03	1'	Subarea 4A	1320	**<54**	NA							
H3	07/22/03	2'	Subarea 4A	**1580**	**<64**	NA							
I1	07/23/03	Surface	Subarea 4A	**3270**	**144**	NA							Excavated 0.5'
I2	07/23/03	Surface	Subarea 4A	**3040**	**134**	NA							Excavated 0.66'
I2	07/23/03	1'	Subarea 4A	**3070**	**<76**	NA							
I2	07/23/03	2'	Subarea 4A	192	<23	NA							
I3	07/23/03	Surface	Subarea 4A	**7120**	**<150**	NA							Excavated 0.5'
I3	07/23/03	Surface	Subarea 4A	**4540**	**300**	NA							
J1	07/23/03	Surface	Subarea 4A	**4790**	**160**	NA							Excavated 0.5'
J1	07/23/03	1'	Subarea 4A	344	**31.5**	NA							
J1	07/23/03	2'	Subarea 4A	73	<17	NA							
J2	07/23/03	Surface	Subarea 4A	**16200**	**1010**	NA							Excavated 0.5'
J3	07/22/03	Surface	Subarea 4A	**13200**	**820**	NA							Excavated 0.5'
J3	07/22/03	1'	Subarea 4A	538	**<36**	NA							
J3	07/22/03	2'	Subarea 4A	91.2	<19	NA							
K1	07/22/03	Surface	Subarea 4A	**8590**	**470**	NA							Excavated 0.5'
K2	07/22/03	Surface	Subarea 4A	**4550**	**380**	NA							Excavated 0.5'
K2	07/22/03	1'	Subarea 4A	82	<21	NA							
K2	07/23/03	2'	Subarea 4A	126	**33.7**	NA							
K3	07/23/03	Surface	Subarea 4A	**1470**	**<42**	NA							Excavated 0.5'
K3	07/23/03	Surface	Subarea 4A	**23400**	**1050**	NA							
L1	07/22/03	Surface	Subarea 4A	**6980**	**456**	NA							Excavated 0.5'
L1	07/22/03	1'	Subarea 4A	65.5	<20	NA							
L1	07/22/03	2'	Subarea 4A	107	<19	NA							

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SUBAREAS 2, 3 AND 4, DALLAS, TEXAS

Sample ID No.	Sample Date	Sample Description[1]	Sample Location	XRF Results			Laboratory Results						Remedial Action[3]
				Total Lead (ppm)	Total Arsenic (ppm)	Total Antimony (ppm)	Sample ID No.	Sample Date	Laboratory Report No.	Total Lead (mg/kg)	Total Arsenic (mg/kg)	Total Antimony (mg/kg)	
Conservative Assumption Number[2]				**1582** **1381**	**26** **23**	**616** **596**	**Remedial Action Goal**			**2000**	**32.7**	**818**	
L2	07/22/03	Surface	Subarea 4A	**12400**	**411**	NA							Excavated 0.5'
L3	07/22/03	Surface	Subarea 4A	**11300**	**605**	NA							Excavated 0.5'
L3	07/22/03	1'	Subarea 4A	70.9	<17	NA							
L3	07/22/03	2'	Subarea 4A	129	<18	NA							
M1	07/22/03	Surface	Subarea 4A	**9800**	**298**	NA							Excavated 0.5'
M2	07/22/03	Surface	Subarea 4A	**6550**	**165**	NA							Excavated 0.5'
M2	07/22/03	1'	Subarea 4A	124	<21	NA							
M2	07/22/03	2'	Subarea 4A	75.4	<18	NA							
M3	07/22/03	Surface	Subarea 4A	**22700**	**1450**	NA							Excavated 0.5'
D1	07/22/03	Surface	Subarea 4B	229	<24	NA							NFA
D1	07/22/03	1'	Subarea 4B	35.2	<24	NA							
D1	07/22/03	2'	Subarea 4B	59.6	26.6	NA							
D2	07/22/03	Surface	Subarea 4B	**2140**	**<94**	NA	CH-S4B-D2-008	07/22/03	STL 219900	261	13	NA	NFA
D2	07/22/03	1'	Subarea 4B	27.1	<19	NA							
D2	07/22/03	2'	Subarea 4B	63.1	<21	NA							
D3	07/22/03	Surface	Subarea 4B	**2990**	**<130**	NA	CH-S4B-D3-009 CH-S4B-D3-010X	07/22/03 07/22/03	STL 219900 STL 219900	1830 1550	31 25	NA NA	NFA
D3	07/22/03	1'	Subarea 4B	136	<21	NA							
D3	07/22/03	2'	Subarea 4B	38.8	<22	NA							
E1	07/22/03	Surface	Subarea 4B	334	<24	NA							NFA
E1	07/22/03	1'	Subarea 4B	113	<17	NA							
E1	07/22/03	2'	Subarea 4B	409	<20	NA							
E2	07/22/03	Surface	Subarea 4B	**12800**	**480**	NA							Excavated 0.66'
E2	07/22/03	1'	Subarea 4B	95.3	<22	NA							
E2	07/22/03	2'	Subarea 4B	159	<19	NA							
E3	07/22/03	Surface	Subarea 4B	**2210**	**246**	NA	CH-S4B-E3-011	07/22/03	STL 219900	799	23	NA	NFA
E3	07/22/03	1'	Subarea 4B	444	**47.6**	NA							
E3	07/22/03	2'	Subarea 4B	**1550**	**167**	NA							
F1	07/22/03	Surface	Subarea 4B	1140	**49.1**	NA	CH-S4B-F1-015	07/22/03	STL 219900	890	31	NA	NFA
F1	07/22/03	1'	Subarea 4B	89.2	<20	NA							
F1	07/22/03	2'	Subarea 4B	242	<20	NA							
F2	07/22/03	Surface	Subarea 4B	113	<21	NA							Excavated 0.5'
F2	07/22/03	1'	Subarea 4B	78.2	<19	NA							
F2	07/22/03	2'	Subarea 4B	280	<22	NA							
F2	07/22/03	Surface of 2' test pit	Subarea 4B	**1630**	**<100**	NA							
F2	07/22/03	Surface of pile	Subarea 4B	**3310**	**<140**	NA							
F3	07/22/03	Surface	Subarea 4B	1310	**<51**	NA	CH-S4B-F3-012	07/22/03	STL 219900	779	13	NA	NFA
F3	07/22/03	1'	Subarea 4B	151	<17	NA							
F3	07/22/03	2'	Subarea 4B	39.9	<18	NA							

TABLE 3: INVESTIGATION SAMPLE RESULTS
RSR CORPORATION SUPERFUND SITE, OPERABLE UNIT NO. 5
SUBAREAS 2, 3 AND 4, DALLAS, TEXAS

Sample ID No.	Sample Date	Sample Description[1]	Sample Location	XRF Results			Laboratory Results						Remedial Action[3]
				Total Lead (ppm)	Total Arsenic (ppm)	Total Antimony (ppm)	Sample ID No.	Sample Date	Laboratory Report No.	Total Lead (mg/kg)	Total Arsenic (mg/kg)	Total Antimony (mg/kg)	
Conservative Assumption Number[2]				**1582** **1381**	**26** **23**	**616** **596**	**Remedial Action Goal**			**2000**	**32.7**	**818**	
G1	07/22/03	Surface	Subarea 4B	466	**<63**	NA							Excavated 0.5'
G1	07/22/03	1'	Subarea 4B	1290	**79.1**	NA							
G1	07/22/03	2'	Subarea 4B	409	<24	NA							
G2	07/22/03	Surface	Subarea 4B	67.1	24.2	NA							Excavated 0.25'
G2	07/22/03	1'	Subarea 4B	359	**43.8**	NA							
G2	07/22/03	2'	Subarea 4B	70.6	<24	NA							
G3	07/22/03	Surface	Subarea 4B	60.2	<25	NA							NFA
G3	07/22/03	1'	Subarea 4B	103	<21	NA							
G3	07/22/03	2'	Subarea 4B	74.5	<18	NA							
A1	07/21/03	Surface	Subarea 4C	269	**31.8**	NA	CH-S4C-A1-001	07/21/03	STL 219900	994	19	NA	NFA
A1	07/21/03	1'	Subarea 4C	228	<23	NA							
A1	07/21/03	2'	Subarea 4C	100	<13	NA							
A2	07/21/03	Surface	Subarea 4C	**2330**	**<95**	NA	CH-S4C-A2-002	07/21/03	STL 219900	610	15	NA	NFA
A2	07/21/03	1'	Subarea 4C	97	<22	NA							
A2	07/21/03	2'	Subarea 4C	258	<23	NA							
A3	07/21/03	Surface	Subarea 4C	776	<26	NA							NFA
A3	07/21/03	1'	Subarea 4C	30	<19	NA							
B1	07/21/03	Surface	Subarea 4C	**1730**	**<44**	NA	CH-S4C-B1-003	07/21/03	STL 219900	404	10	NA	NFA
B1	07/21/03	1'	Subarea 4C	40.2	<22	NA							
B1	07/21/03	2'	Subarea 4C	63.2	<24	NA							
B1	07/21/03	3'	Subarea 4C	49.2	<23	NA							
B1	07/21/03	6'	Subarea 4C	36.2	<22	NA							
B2	07/21/03	Surface	Subarea 4C	577	**<27**	NA							NFA
B2	07/21/03	1'	Subarea 4C	227	<24	NA							
B2	07/21/03	2'	Subarea 4C	609	<24	NA							
B3	07/21/03	Surface	Subarea 4C	221	**46.6**	NA	CH-S4C-B3-004	07/21/03	STL 219900	84	6	NA	NFA
B3	07/21/03	1'	Subarea 4C	**1840**	**<89**	NA	CH-S4C-B3-005	07/21/03	STL 219900	571	9	NA	
B3	07/21/03	2'	Subarea 4C	187	<19	NA							
C1	07/21/03	Surface	Subarea 4C	**1540**	**<43**	NA	CH-S4C-C1-006	07/21/03	STL 219900	85	10	NA	NFA
C1	07/21/03	1'	Subarea 4C	164	<22	NA							
C1	07/21/03	2'	Subarea 4C	113	<19	NA							
C2	07/21/03	Surface	Subarea 4C	200	<22	NA							NFA
C2	07/21/03	1'	Subarea 4C	391	<23	NA							
C2	07/21/03	2'	Subarea 4C	116	<22	NA							
C3	07/21/03	Surface	Subarea 4C	1020	**<32**	NA	CH-S4C-C3-007	07/21/03	STL 219900	193	14	NA	NFA
C3	07/21/03	1'	Subarea 4C	285	<25	NA							
C3	07/21/03	2'	Subarea 4C	248	<20	NA							

TABLE 3: INVESTIGATION SAMPLE RESULTS
RSR CORPORATION SUPERFUND SITE, OPERABLE UNIT NO. 5
SUBAREAS 2, 3 AND 4, DALLAS, TEXAS

Sample ID No.	Sample Date	Sample Description[1]	Sample Location	XRF Results			Laboratory Results						Remedial Action[3]
				Total Lead (ppm)	Total Arsenic (ppm)	Total Antimony (ppm)	Sample ID No.	Sample Date	Laboratory Report No.	Total Lead (mg/kg)	Total Arsenic (mg/kg)	Total Antimony (mg/kg)	
Conservative Assumption Number[2]				1582 1381	26 23	616 596	**Remedial Action Goal**			2000	32.7	818	

Notes:
1) Initial grab grid samples were collected from the backfill storage area of Subarea 2 for XRF analysis of total lead to ensure that clean materials were not placed on impacted soils. For the purposes of the remedial action, this data was used as follows: If the XRF reading was less than 300 mg/kg, than the grid was assumed clean. If the XRF reading was greater than 300 mg/kg and no XRF data was available for arsenic, than a 4-point composite sample was collected for XRF analysis of total lead and arsenic. If the XRF readings from the 4-point composite sample were greater than the applicable XRF field screening concentration numbers, than an additional 4-point composite sample was collected for laboratory analysis. If the analytical result was less than the remedial action goals, than no further action was required. If the analytical result was greater than the remedial action goals, than the grid represented by that sample was remediated, as appropriate.
2) The XRF field screening concentration numbers were calculated on July 10, 2003. The numbers were revised in August 2003 after additional laboratory data was collected from Subarea 4. XRF readings collected from Subareas 2 and 4 prior to August 2003 were evaluated using the initial XRF field screening concentration numbers.
3) NFA: No further action required; Soil Cover: 24 inches of compacted clay and 3 inches of non-compacted topsoil were placed on these grids; Transition Cover: +/- 24 inches of compacted clay and 3 inches of non-compacted topsoil were placed on these grids for the ease of transition of the cover; Excavated: Grids were excavated to meet the applicable remedial action goals, confirmed clean by XRF field screening and sampled for laboratory analysis, backfilled with compacted clay, and covered with 3 inches of topsoil.
4) Red indicates concentrations exceed XRF field screening concentration numbers.

TABLE 4: COVER, BACKFILL AND TOPSOIL MATERIAL ANALYTICAL RESULTS
RSR CORPORATION SUPERFUND SITE, OPERABLE UNIT NO. 5
SUBAREAS 2, 3 AND 4, DALLAS, TEXAS

Sample Date	Sample ID No.	Sample Description	Lab Report No.	Total Metals (mg/kg)									VOCs (ug/kg)	SVOCs (ug/kg)	TPH (mg/kg)
				Lead	Arsenic	Antimony	Barium	Cadmium	Chromium	Mercury	Selenium	Silver			
03/10/03	BF-001	Cover/backfill source	STL 217647	9	<5	<5	36	<5	32	<0.5	<5	<5	All non-detect	All non-detect	All non-detect (<50)
03/10/03	BF-002	Cover/backfill source	STL 217647	13	<5	<5	27	<5	41	<0.5	<5	<5	Carbon Disulfide: 8 1,2,4-Trimethylbenzene: 9 Xylenes: 6	All non-detect	All non-detect (<50)
08/18/03	TS-001	Topsoil	STL 220328	8	2	NA	83	<1	11	<0.1	4	<1	Methylene Chloride: 59	All non-detect	All non-detect (<50)
09/03/03	TS-002	Topsoil	STL 220570	9.9	6.3	NA	79.4	0.7	8.8	<0.1	<0.5	<0.5	All non-detect	All non-detect	All non-detect (<50)

TABLE 5: PHYSICAL SOIL TEST RESULTS FOR COVER AND BACKFILL MATERIAL
RSR CORPORATION SUPERFUND SITE, OPERABLE UNIT NO. 5
SUBAREAS 2, 3 AND 4, DALLAS, TEXAS

Soil Type	Soil ID No.	Sample Date	Classification	Liquid Limit	Plasticity Index	Total Passing <#200 Sieve (%)	Moisture Content (%)	Dry Density (pcf)	Description	Organic Content (%)	pH
Clay	1	03/10/03	CH	69	40	96.0	25	96.5	Dark Gray Shaley Clay		
Clay	2	03/10/03	CH	73	43	98.2	29	89.5	Tan and Dark Gray Shaley Clay		
Clay	3	07/17/03	CH	74	47	87.0	23.5	97.5	Brown Shaley Clay		
Clay	4	07/17/03	CH	74	43	83.4	27	93	Brown Shaley Clay		
Clay	5	07/17/03	CH	79	52	80.4	26.5	94	Brown Shaley Clay		
TS-001	6	08/19/03	CH	46	27	68.1			Dark Gray Shaley Clay	1.60	7.97
TS-002	7	09/02/03	CH	47	28	66.7			Dark Gray Sandy Clay	1.65	8.14

TABLE 6: FIELD COMPACTION TEST RESULTS FOR COVER MATERIAL
RSR CORPORATION SUPERFUND SITE, OPERABLE UNIT NO. 5
SUBAREAS 2, 3 AND 4, DALLAS, TEXAS

Test No.	Date	Test Grid Location	Site Location	Test Depth (inch)	Elevation (Inches)	Soil ID No.	Optimum Moisture (%)	Maximum Lab Dry Density (PCF)	In Place Moisture (%) -2% to +4%	In Place Dry Density (PCF)	Percent Compaction (95%)
1	07/17/03	Test pad	Backfill Storage	0-6"		3	23.5	97.5	25.3	90	92
2	07/17/03	Test pad	Backfill Storage	0-6"		4	27.0	94.0	25.5	95	101
3	07/17/03	Test pad	Backfill Storage	0-6"		5	26.5	94.0	26.0	93	99
4	08/13/03	P22	Subarea 2 Landfill	0-6"	+6	5	26.5	94.0	24.9	92	98
5	08/13/03	P22	Subarea 2 Landfill	0-6"	+12	3	23.5	97.5	24.9	97	100
6	08/13/03	N22	Subarea 2 Landfill	0-6"	+6	1	25.0	96.5	23.9	94	97
7	08/13/03	N22	Subarea 2 Landfill	0-6"	+12	1	25.0	96.5	25.9	96	99
8	08/13/03	O20	Subarea 2 Landfill	0-6"	+6	4	27.0	93.0	25.9	90	97
9	08/13/03	O20	Subarea 2 Landfill	0-6"	+12	3	23.5	97.5	23.3	97	100
10	08/13/03	M18	Subarea 2 Landfill	0-6"	+6	3	23.5	97.5	23.2	96	98
11	08/13/03	M18	Subarea 2 Landfill	0-6"	+12	3	23.5	97.5	22.4	97	99
12	08/13/03	M20	Subarea 2 Landfill	0-6"	+6	5	26.5	94.0	27.4	91	97
13	08/13/03	M20	Subarea 2 Landfill	0-6"	+12	5	26.5	94.0	26.9	92	97
14	08/15/03	Q24	Subarea 2 Landfill	0-6"	+6	1	25.0	96.5	23.4	93	96
15	08/15/03	Q24	Subarea 2 Landfill	0-6"	+12	1	25.0	96.5	24.9	95	99
16	08/15/03	Q26	Subarea 2 Landfill	0-6"	+6	3	23.5	97.5	26.4	94	97
17	08/15/03	Q26	Subarea 2 Landfill	0-6"	+12	3	23.5	97.5	23.9	97	100
18	08/15/03	O26	Subarea 2 Landfill	0-6"	+6	3	23.5	97.5	24.7	97	100
19	08/15/03	O26	Subarea 2 Landfill	0-6"	+12	4	27.0	93.0	29.4	95	102
20	08/15/03	O27	Subarea 2 Landfill	0-6"	+6	4	27.0	93.0	25.5	91	98
21	08/15/03	O27	Subarea 2 Landfill	0-6"	+12	4	27.0	93.0	25.5	93	100
22	08/15/03	M26	Subarea 2 Landfill	0-6"	+6	1	25.0	96.5	24.3	95	98
23	08/15/03	M26	Subarea 2 Landfill	0-6"	+12	1	25.0	96.5	27.3	92	95
24	08/15/03	M24	Subarea 2 Landfill	0-6"	+6	1	25.0	96.5	25.4	94	98
25	08/15/03	M24	Subarea 2 Landfill	0-6"	+12	3	23.5	97.5	24.5	98	100
26	08/15/03	L24	Subarea 2 Landfill	0-6"	+6	3	23.5	97.5	23.3	97	100
27	08/15/03	L24	Subarea 2 Landfill	0-6"	+12	3	23.5	97.5	24.7	96	98
28	08/15/03	L25	Subarea 2 Landfill	0-6"	+6	1	25.0	96.5	23.0	94	97
29	08/15/03	L25	Subarea 2 Landfill	0-6"	+12	1	25.0	96.5	23.0	94	97
30	08/15/03	L22	Subarea 2 Landfill	0-6"	+6	1	25.0	96.5	25.0	96	99
31	08/15/03	L22	Subarea 2 Landfill	0-6"	+12	1	25.0	96.5	28.2	93	96
32	08/15/03	O24	Subarea 2 Landfill	0-6"	+6	1	25.0	96.5	26.1	93	96
33	08/15/03	O24	Subarea 2 Landfill	0-6"	+12	4	27.0	93.0	26.7	90	97
34	08/19/03	M27	Subarea 2 Landfill	0-6"	+6	1	25.0	96.5	23.9	96	99
35	08/19/03	M27	Subarea 2 Landfill	0-6"	+12	3	23.5	97.5	22.0	95	97
36	08/19/03	M27	Subarea 2 Landfill	0-6"	+18	3	23.5	97.5	22.8	98	100
37	08/19/03	M27	Subarea 2 Landfill	0-6"	+24	3	23.5	97.5	23.4	93	95
38	08/19/03	O27	Subarea 2 Landfill	0-6"	+18	3	23.5	97.5	22.8	96	98
39	08/19/03	O27	Subarea 2 Landfill	0-6"	+24	3	23.5	97.5	22.2	95	98
40	08/19/03	K27	Subarea 2 Landfill	0-6"	+6	3	23.5	97.5	24.3	94	96
41	08/19/03	K27	Subarea 2 Landfill	0-6"	+12	3	23.5	97.5	22.6	98	101

TABLE 6: FIELD COMPACTION TEST RESULTS FOR COVER MATERIAL
RSR CORPORATION SUPERFUND SITE, OPERABLE UNIT NO. 5
SUBAREAS 2, 3 AND 4, DALLAS, TEXAS

Test No.	Date	Test Grid Location	Site Location	Test Depth (inch)	Elevation (Inches)	Soil ID No.	Optimum Moisture (%)	Maximum Lab Dry Density (PCF)	In Place Moisture (%) -2% to +4%	In Place Dry Density (PCF)	Percent Compaction (95%)
42	08/19/03	I26	Subarea 2 Landfill	0-6"	+6	3	23.5	97.5	22.5	93	96
43	08/19/03	I26	Subarea 2 Landfill	0-6"	+12	3	23.5	97.5	22.3	95	97
44	08/19/03	I24	Subarea 2 Landfill	0-6"	+6	3	23.5	97.5	23.8	93	96
45	08/19/03	I24	Subarea 2 Landfill	0-6"	+12	3	23.5	97.5	23.1	94	96
46	08/19/03	I22	Subarea 2 Landfill	0-6"	+6	3	23.5	97.5	22.1	97	99
47	08/19/03	I22	Subarea 2 Landfill	0-6"	+12	3	23.5	97.5	22.2	96	99
48	08/21/03	M24	Subarea 2 Landfill	0-6"	+18	3	23.5	97.5	22.8	97	100
49	08/21/03	M24	Subarea 2 Landfill	0-6"	+24	3	23.5	97.5	22.2	96	98
50	08/21/03	L24	Subarea 2 Landfill	0-6"	+18	3	23.5	97.5	23.9	93	96
51	08/21/03	L24	Subarea 2 Landfill	0-6"	+24	3	23.5	97.5	21.6	96	99
52	08/21/03	L25	Subarea 2 Landfill	0-6"	+18	3	23.5	97.5	23.1	97	100
53	08/21/03	L25	Subarea 2 Landfill	0-6"	+24	3	23.5	97.5	25.6	95	97
54	08/21/03	M26	Subarea 2 Landfill	0-6"	+18	3	23.5	97.5	22.5	94	96
55	08/21/03	M26	Subarea 2 Landfill	0-6"	+24	3	23.5	97.5	21.7	97	99
56	08/21/03	K27	Subarea 2 Landfill	0-6"	+18	3	23.5	97.5	23.4	96	98
57	08/21/03	K27	Subarea 2 Landfill	0-6"	+24	3	23.5	97.5	22.1	96	98
58	08/21/03	O26	Subarea 2 Landfill	0-6"	+18	3	23.5	97.5	22.7	94	96
59	08/21/03	O26	Subarea 2 Landfill	0-6"	+24	3	23.5	97.5	21.8	96	99
60	08/21/03	Q26	Subarea 2 Landfill	0-6"	+18	3	23.5	97.5	22.0	97	99
61	08/21/03	Q26	Subarea 2 Landfill	0-6"	+24	3	23.5	97.5	23.4	95	97
62	08/21/03	Q24	Subarea 2 Landfill	0-6"	+18	3	23.5	97.5	22.9	95	98
63	08/21/03	Q24	Subarea 2 Landfill	0-6"	+24	3	23.5	97.5	23.4	96	98
64	08/21/03	O24	Subarea 2 Landfill	0-6"	+18	3	23.5	97.5	24.6	93	96
65	08/21/03	O24	Subarea 2 Landfill	0-6"	+24	3	23.5	97.5	23.1	97	100
66	08/28/03	D22	Subarea 2 Landfill	0-6"	+6	1	25.0	96.5	24.6	93	96
67	08/28/03	D22	Subarea 2 Landfill	0-6"	+12	1	25.0	96.5	23.9	95	99
68	08/28/03	D22	Subarea 2 Landfill	0-6"	+18	1	25.0	96.5	23.3	96	99
69	08/28/03	D22	Subarea 2 Landfill	0-6"	+24	3	23.5	97.5	22.9	98	100
70	08/28/03	D24	Subarea 2 Landfill	0-6"	+6	3	23.5	97.5	24.3	94	96
71	08/28/03	D24	Subarea 2 Landfill	0-6"	+12	3	23.5	97.5	23.5	95	97
72	08/28/03	D24	Subarea 2 Landfill	0-6"	+18	3	23.5	97.5	23.3	97	100
73	08/28/03	D24	Subarea 2 Landfill	0-6"	+24	3	23.5	97.5	23.8	96	99
74	08/28/03	F24	Subarea 2 Landfill	0-6"	+6	2	29.0	89.5	27.9	88	99
75	08/28/03	F24	Subarea 2 Landfill	0-6"	+12	3	23.5	97.5	22.8	94	96
76	08/28/03	F22	Subarea 2 Landfill	0-6"	+6	3	23.5	97.5	27.0	94	96
77	08/28/03	F22	Subarea 2 Landfill	0-6"	+12	3	23.5	97.5	23.9	94	96
78	08/28/03	H22	Subarea 2 Landfill	0-6"	+6	3	23.5	97.5	22.1	94	96
79	08/28/03	H22	Subarea 2 Landfill	0-6"	+12	3	23.5	97.5	23.1	93	96
80	08/28/03	H24	Subarea 2 Landfill	0-6"	+6	3	23.5	97.5	23.8	98	100
81	08/28/03	H24	Subarea 2 Landfill	0-6"	+12	3	23.5	97.5	21.9	95	97
82	08/28/03	L22	Subarea 2 Landfill	0-6"	+18	3	23.5	97.5	22.4	95	97

TABLE 6: FIELD COMPACTION TEST RESULTS FOR COVER MATERIAL
RSR CORPORATION SUPERFUND SITE, OPERABLE UNIT NO. 5
SUBAREAS 2, 3 AND 4, DALLAS, TEXAS

Test No.	Date	Test Grid Location	Site Location	Test Depth (inch)	Elevation (Inches)	Soil ID No.	Optimum Moisture (%)	Maximum Lab Dry Density (PCF)	In Place Moisture (%) -2% to +4%	In Place Dry Density (PCF)	Percent Compaction (95%)
83	08/28/03	L22	Subarea 2 Landfill	0-6"	+24	3	23.5	97.5	23.6	95	97
84	08/28/03	N22	Subarea 2 Landfill	0-6"	+18	3	23.5	97.5	21.8	98	100
85	08/28/03	N22	Subarea 2 Landfill	0-6"	+24	3	23.5	97.5	23.9	96	99
86	08/28/03	P22	Subarea 2 Landfill	0-6"	+18	3	23.5	97.5	23.0	95	98
87	08/28/03	P22	Subarea 2 Landfill	0-6"	+24	3	23.5	97.5	23.4	93	95
88	09/08/03	H20	Subarea 2 Landfill	0-6"	+6	5	26.5	94.0	28.2	93	99
89	09/08/03	H20	Subarea 2 Landfill	0-6"	+12	5	26.5	94.0	26.8	94	100
90	09/08/03	G20	Subarea 2 Landfill	0-6"	+6	5	26.5	94.0	27.6	94	100
91	09/08/03	G20	Subarea 2 Landfill	0-6"	+12	5	26.5	94.0	27.7	94	100
92	09/08/03	H22	Subarea 2 Landfill	0-6"	+18	3	23.5	97.5	22.2	101	103
93	09/08/03	H22	Subarea 2 Landfill	0-6"	+24	3	23.5	97.5	25.4	97	100
94	09/08/03	I22	Subarea 2 Landfill	0-6"	+18	3	23.5	97.5	23.6	96	98
95	09/08/03	I22	Subarea 2 Landfill	0-6"	+24	3	23.5	97.5	24.7	95	98
96	09/08/03	I24	Subarea 2 Landfill	0-6"	+18	3	23.5	97.5	26.6	93	95
97	09/08/03	I24	Subarea 2 Landfill	0-6"	+24	3	23.5	97.5	23.6	95	98
98	09/08/03	H24	Subarea 2 Landfill	0-6"	+18	3	23.5	97.5	22.9	97	99
99	09/08/03	H24	Subarea 2 Landfill	0-6"	+24	3	23.5	97.5	23.0	97	99
100	09/08/03	J20	Subarea 2 Landfill	0-6"	+6	3	23.5	97.5	23.4	96	98
101	09/08/03	J20	Subarea 2 Landfill	0-6"	+12	3	23.5	97.5	23.6	95	98
102	09/09/03	K18	Subarea 2 Landfill	0-6"	+6	3	23.5	97.5	24.6	99	101
103	09/09/03	K18	Subarea 2 Landfill	0-6"	+12	3	23.5	97.5	25.6	98	101
104	09/09/03	K18	Subarea 2 Landfill	0-6"	+18	3	23.5	97.5	23.0	99	102
105	09/09/03	K18	Subarea 2 Landfill	0-6"	+24	3	23.5	97.5	22.7	98	100
106	09/09/03	M18	Subarea 2 Landfill	0-6"	+18	3	23.5	97.5	24.5	95	97
107	09/09/03	M18	Subarea 2 Landfill	0-6"	+24	3	23.5	97.5	25.4	94	96
108	09/09/03	O20	Subarea 2 Landfill	0-6"	+18	3	23.5	97.5	24.3	98	101
109	09/09/03	O20	Subarea 2 Landfill	0-6"	+24	3	23.5	97.5	25.2	98	100
110	09/09/03	M20	Subarea 2 Landfill	0-6"	+18	3	23.5	97.5	24.8	95	98
111	09/09/03	M20	Subarea 2 Landfill	0-6"	+24	3	23.5	97.5	26.6	94	97
112	09/09/03	J20	Subarea 2 Landfill	0-6"	+6	3	23.5	97.5	24.4	97	100
113	09/09/03	J20	Subarea 2 Landfill	0-6"	+12	3	23.5	97.5	25.0	97	99
114	09/09/03	J20	Subarea 2 Landfill	0-6"	+18	3	23.5	97.5	22.5	99	101
115	09/09/03	J20	Subarea 2 Landfill	0-6"	+24	3	23.5	97.5	22.2	98	100
116	09/09/03	H20	Subarea 2 Landfill	0-6"	+18	3	23.5	97.5	23.5	96	99
117	09/09/03	H20	Subarea 2 Landfill	0-6"	+24	3	23.5	97.5	27.0	94	97
118	09/09/03	G20	Subarea 2 Landfill	0-6"	+18	3	23.5	97.5	23.0	95	97
119	09/09/03	G20	Subarea 2 Landfill	0-6"	+24	3	23.5	97.5	23.9	94	96
120	09/09/03	F22	Subarea 2 Landfill	0-6"	+18	3	23.5	97.5	24.3	95	98
121	09/09/03	F22	Subarea 2 Landfill	0-6"	+24	3	23.5	97.5	25.1	94	96
122	09/09/03	I26	Subarea 2 Landfill	0-6"	+6	3	23.5	97.5	22.3	99	102
123	09/09/03	I26	Subarea 2 Landfill	0-6"	+12	3	23.5	97.5	23.7	94	96

TABLE 6: FIELD COMPACTION TEST RESULTS FOR COVER MATERIAL
RSR CORPORATION SUPERFUND SITE, OPERABLE UNIT NO. 5
SUBAREAS 2, 3 AND 4, DALLAS, TEXAS

Test No.	Date	Test Grid Location	Site Location	Test Depth (inch)	Elevation (Inches)	Soil ID No.	Optimum Moisture (%)	Maximum Lab Dry Density (PCF)	In Place Moisture (%) -2% to +4%	In Place Dry Density (PCF)	Percent Compaction (95%)
124	09/09/03	I26	Subarea 2 Landfill	0-6"	+18	3	23.5	97.5	21.5	96	98
125	09/09/03	I26	Subarea 2 Landfill	0-6"	+24	3	23.5	97.5	22.1	97	99

TABLE 7: POST-EXCAVATION CONFIRMATION ANALYTICAL RESULTS
RSR CORPORATION SUPERFUND SITE, OPERABLE UNIT NO. 5
SUBAREAS 2, 3 AND 4, DALLAS, TEXAS

Sample Date	Sample ID No.	Sample Description	Sample Location	Lab Report No.	Total Metals (mg/kg)		
					Lead	Arsenic	Antimony
08/04/03	SV-4B-G1-0.5	Post-excavation	Subarea 4B	STL 220240	159	4	
08/04/03	SV-4B-G2-0.25	Post-excavation	Subarea 4B	STL 220240	39	8	
08/04/03	SV-4B-F2-0.5	Post-excavation	Subarea 4B	STL 220240	86	3	
08/04/03	SV-4B-E2-0.66	Post-excavation	Subarea 4B	STL 220240	353	11	
08/04/03	MS-21	Post-excavation	Subarea 4B	STL 220240	86	3	
08/04/03	MSD-22	Post-excavation	Subarea 4B	STL 220240	168	4	
08/11/03	SV-4A-H3-1.5	Post-excavation	Subarea 4A	STL 220240	1950	31	
08/11/03	SV-4A-H1-0.5	Post-excavation	Subarea 4A	STL 220240	553	13	
08/11/03	SV-4A-H2-0.5	Post-excavation	Subarea 4A	STL 220240	1140	28	
08/11/03	SV-4A-I1-0.5	Post-excavation	Subarea 4A	STL 220240	861	18	
08/11/03	SV-4A-I1X-0.5	Post-excavation	Subarea 4A	STL 220240	924	19	
08/11/03	SV-4A-I2-0.66	Post-excavation	Subarea 4A	STL 220240	829	20	
08/11/03	SV-4A-J1-0.5	Post-excavation	Subarea 4A	STL 220240	153	7	
08/11/03	SV-4A-J2-0.5	Post-excavation	Subarea 4A	STL 220240	483	14	
08/11/03	SV-4A-I3-0.5	Post-excavation	Subarea 4A	STL 220240	767	13	
08/11/03	SV-4A-J3-0.5	Post-excavation	Subarea 4A	STL 220240	267	12	
08/11/03	SV-4A-K3-0.5	Post-excavation	Subarea 4A	STL 220240	263	10	
08/11/03	SV-4A-K2-0.5	Post-excavation	Subarea 4A	STL 220240	318	12	
08/11/03	SV-4A-K1-0.5	Post-excavation	Subarea 4A	STL 220240	501	7	
08/11/03	SV-4A-L2-0.5	Post-excavation	Subarea 4A	STL 220240	130	10	
08/11/03	SV-4A-L1-0.5	Post-excavation	Subarea 4A	STL 220240	117	13	
08/11/03	SV-4A-M1-0.5	Post-excavation	Subarea 4A	STL 220240	37	9	
08/11/03	SV-4A-M2-0.5	Post-excavation	Subarea 4A	STL 220240	377	13	
08/11/03	SV-4A-M2X-0.5	Post-excavation	Subarea 4A	STL 220240	372	15	
08/11/03	SV-4A-L3-0.5	Post-excavation	Subarea 4A	STL 220240	79	10	
08/11/03	SV-4A-M3-0.5	Post-excavation	Subarea 4A	STL 220240	25	10	
08/11/03	MS-43	Post-excavation	Subarea 4A	STL 220240	26	8	
08/11/03	MSD-44	Post-excavation	Subarea 4A	STL 220240	22	9	
08/25/03	SV-2-A10-0.25	Post-excavation	Subarea 2	STL 220426	731	18	40
08/25/03	SV-2-A10X-0.25	Post-excavation	Subarea 2	STL 220426	585	18	7
08/25/03	MS-A10	Post-excavation	Subarea 2	STL 220426	650	21	8
08/25/03	MSD-A10X	Post-excavation	Subarea 2	STL 220426	499	18	16
08/25/03	SV-2-E11-1	Post-excavation	Subarea 2	STL 220426	122	18	3
08/25/03	SV-2-E12-1	Post-excavation	Subarea 2	STL 220426	555	21	6
08/25/03	SV-2-B26-1	Post-excavation	Subarea 2	STL 220426	515	17	7

TABLE 8a: WASTE DISPOSAL RECORD
RSR CORPORATION SUPERFUND SITE, OPERABLE UNIT NO. 5
SUBAREAS 2, 3 AND 4, DALLAS, TEXAS

Shipment Date	Manifest No.	Description	Truck No.	Quantity (yd^3)	Total Quantity to Date (yd^3)	Total Loads	Disposal Facility
07/29/03	86334	Trees/Brush	420	25	25	1	WM Skyline Landfill
07/29/03	86335	Trees/Brush	420	25	50	2	WM Skyline Landfill
07/29/03	86336	Trees/Brush	360	25	75	3	WM Skyline Landfill
07/29/03	86337	Trees/Brush	360	25	100	4	WM Skyline Landfill
07/29/03	86338	Trees/Brush	360	25	125	5	WM Skyline Landfill
07/30/03	86340	Trees/Brush	420	25	150	6	WM Skyline Landfill
07/30/03	86339	Trees/Brush	360	25	175	7	WM Skyline Landfill
07/30/03	86342	Trees/Brush	420	25	200	8	WM Skyline Landfill
07/30/03	86341	Trees/Brush	360	25	225	9	WM Skyline Landfill
07/30/03	86331	Trees/Brush	420	25	250	10	WM Skyline Landfill
07/30/03	86332	Trees/Brush	420	25	275	11	WM Skyline Landfill
07/30/03	86333	Trees/Brush	360	25	300	12	WM Skyline Landfill
07/30/03	86343	Trees/Brush	360	25	325	13	WM Skyline Landfill
07/30/03	86344	Trees/Brush	420	25	350	14	WM Skyline Landfill
07/30/03	86345	Trees/Brush	360	25	375	15	WM Skyline Landfill
07/30/03	86328	Trees/Brush	360	25	400	16	WM Skyline Landfill
07/30/03	86329	Trees/Brush	420	25	425	17	WM Skyline Landfill
07/31/03	86325	Trees/Brush	420	25	450	18	WM Skyline Landfill
07/31/03	86326	Trees/Brush	360	25	475	19	WM Skyline Landfill
07/31/03	86327	Trees/Brush	420	25	500	20	WM Skyline Landfill
07/31/03	86324	Trees/Brush	360	25	525	21	WM Skyline Landfill
07/31/03	86323	Trees/Brush	420	25	550	22	WM Skyline Landfill

TABLE 8b: RECYCLING RECORD
RSR CORPORATION SUPERFUND SITE, OPERABLE UNIT NO. 5
SUBAREAS 2, 3 AND 4, DALLAS, TEXAS

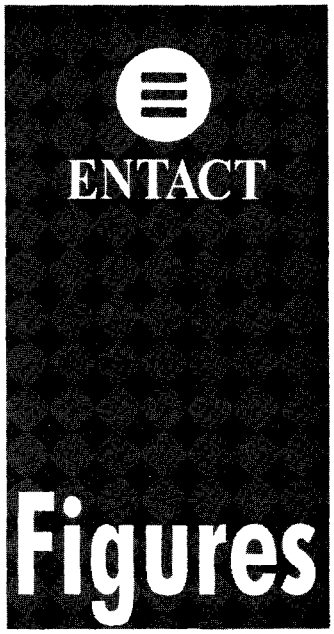
Shipment Date	Manifest No.	Description	Driver Name	Quantity of Passenger Tires	Quantity of Truck Tires	Quantity of Other/Oversize Tires	Recycling Facility
07/24/03	183472	Tires	R. Jackson	423	0	3	Safe Tire Corp.
07/25/03	183473	Tires	R. Wier	338	14	2	Safe Tire Corp.
07/28/03	183478	Tires	R. Jackson	387	2	0	Safe Tire Corp.

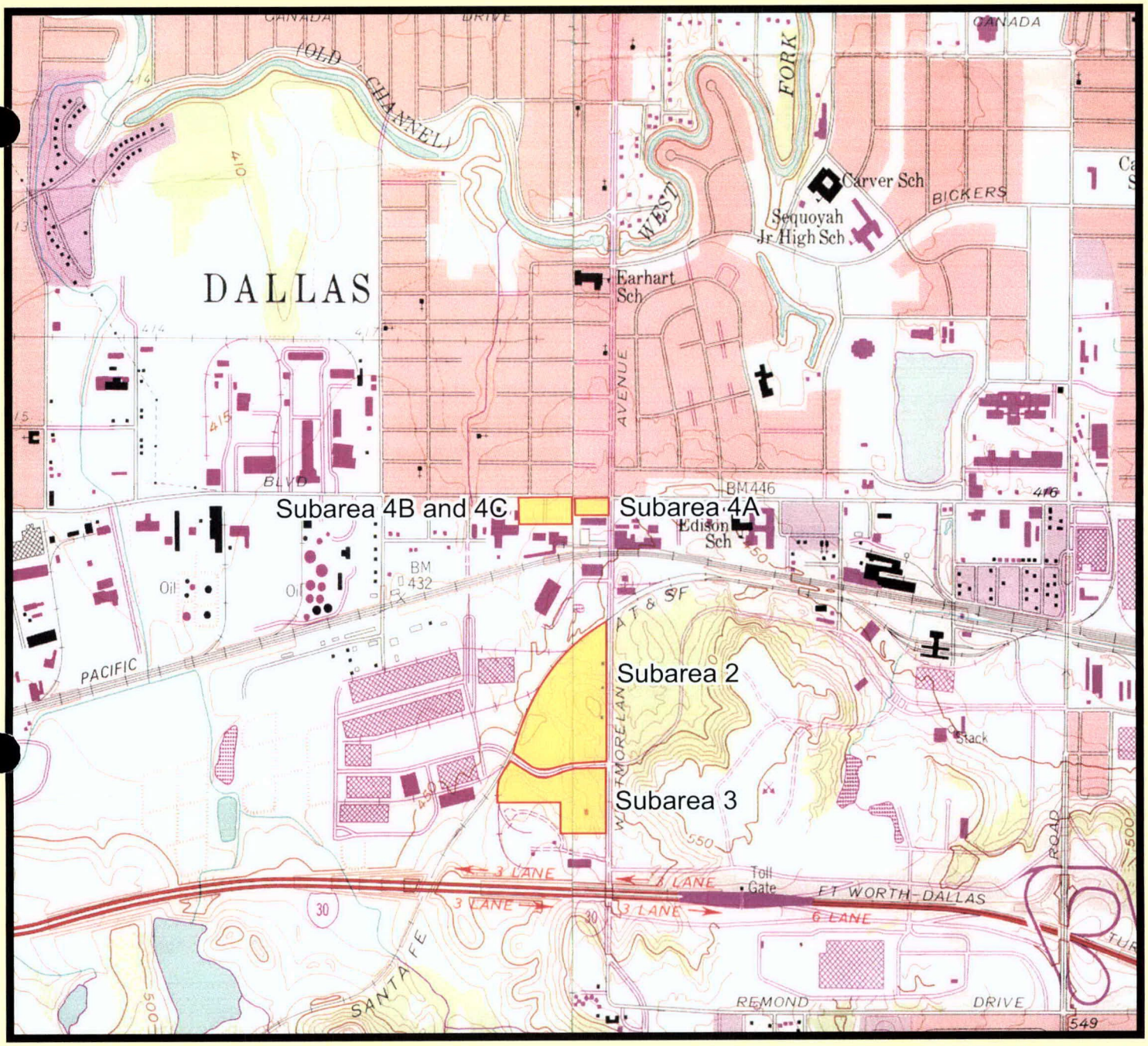
TABLE 9: CHRONOLOGY OF EVENTS
RSR CORPORATION SUPERFUND SITE, OPERABLE UNIT NO. 5
SUBAREAS 2, 3 AND 4, DALLAS, TEXAS

Date	Activity
March 13, 2003 to April 20, 2003	ENTACT initiated stockpiling activities at Subarea 2 with U.S. EPA approval The activites consisted of the installation of a portion of the coordinate grid system, XRF field screening of installed grids and stockpiling of backfill/cover material to be used during remedial activities at RSR OU5.
June 26, 2003	Pre-construction meeting was held at the Site and attended by representatives of ENTACT, U.S. Environmental Protection Agency (EPA), and Irving Fire Department.
June 11, 2003 to July 3, 2003	ENTACT mobilized personnel and equipment to the Site in early June 2003 per U.S. EPA approval. Site preparation activities were initiated which included the installation of temporary support facilities and utilities; establishing erosion, sedimentation, stormwater, and dust control measures; constructing temporary site access roads for trucks and equipment; mobilizing the necessary personnel and equipment; identifying the locations of on-site utilities; procuring access agreements for off-site air samplers; initiating baseline time-integrated air monitoring; conducting surface preparation activities, including tree removal and tire collection; and establishing initial survey controls and limits of the ROD landfill in Subarea 2 and the ROD sample location in Subarea 3.
June 27, 2003	After U.S. EPA approval of the RD/RA Workplan, ENTACT installed 21 test trenches in and around the ROD limits of the Subarea 2 landfill to verify the horizontal extent of subsurface landfill material.
July 7, 2003	ENTACT initiated the clearing of vegetation and debris and the excavation of impacted soils within the drainage channel and culvert of Subarea 2.
July 14, 2003 to November 2003	ENTACT initiated the preparation of Subarea 2 for the consolidation of impacted soils and installation of the soil cover. The subgrade was prepared, XRF field screened and surveyed prior to the placement of the soil cover. The clay cover material was placed on the impacted grids and the landfill area as specified in the RD/RA Workplan beginning in the northern impacted area and progressing southward towards the landfill. Excavated soils from Subareas 4A and 4B and the non-contiguous impacted grids in Subarea 2 were consolidated in the southeastern portion of the landfill. Topsoil was placed in a 4-inch loose lift over the extent of the covered areas of Subarea 2. The topsoil was vegetated by hydromulching and watered using an irrigation system constructed on-site.
July 21, 2003 to July 23, 2003	ENTACT completed the investigation of Subareas 4A, 4B and 4C. Test pits were installed at the frequency described in the RD/RA Workplan. Samples were collected from the test pits for XRF field screening and laboratory analysis, where needed.
July 24, 2003 to July 31, 2003	ENTACT completed the off-site transportation and recycling of scrap tires collected from the surface of Subarea 2 and the off-site transportation and disposal of oversized vegetative debris.
July 30, 2003 to September 29, 2003	ENTACT completed remedial activities at Subarea 4. Site preparation activites were initiated on July 30, 2003 and consisted of the installation of silt fencing and the installationof the remainder of the coordinate grid system. Excavation of impacted soils from the identified grids of Subareas 4A and 4B was initiated on July 31, 2003. Soil samples were collected from the base of the excavated grids for laboratory analysis. Excavated soils were hauled to the Subarea 2 landfill for consolidation. Upon the receipt of passing analytical results, the excavated grids were backfilled with clay material, covered with topsoil and vegetated.
August 14, 2003 to August 21, 2003	ENTACT completed the investigation of Subarea 3. Soil samples were collected at depth from the test pit installed at the location of the previous RI sampling point. Additional surface soil samples were collected from the grids which surrounded the test pit for laboratory analysis.
August 19, 2003	ENTACT excavated the non-contiguous impacted grids located in Subarea 2.

TABLE 9: CHRONOLOGY OF EVENTS
RSR CORPORATION SUPERFUND SITE, OPERABLE UNIT NO. 5
SUBAREAS 2, 3 AND 4, DALLAS, TEXAS

Date	Activity
October 20, 2003	The Pre-final/Final Inspection was held on October 20, 2003. ENTACT completed remedial activitie with the exception of irrigation activities and completed the demobilization of equipment and personnel from the Site on October 15, 2003.


ENTACT
Figures



After U.S.G.S. 7.5 Minute Topographic Quadrangle, Oak Cliff, Texas, 1958, Photo Revised 1981, Contour Interval 10 Feet

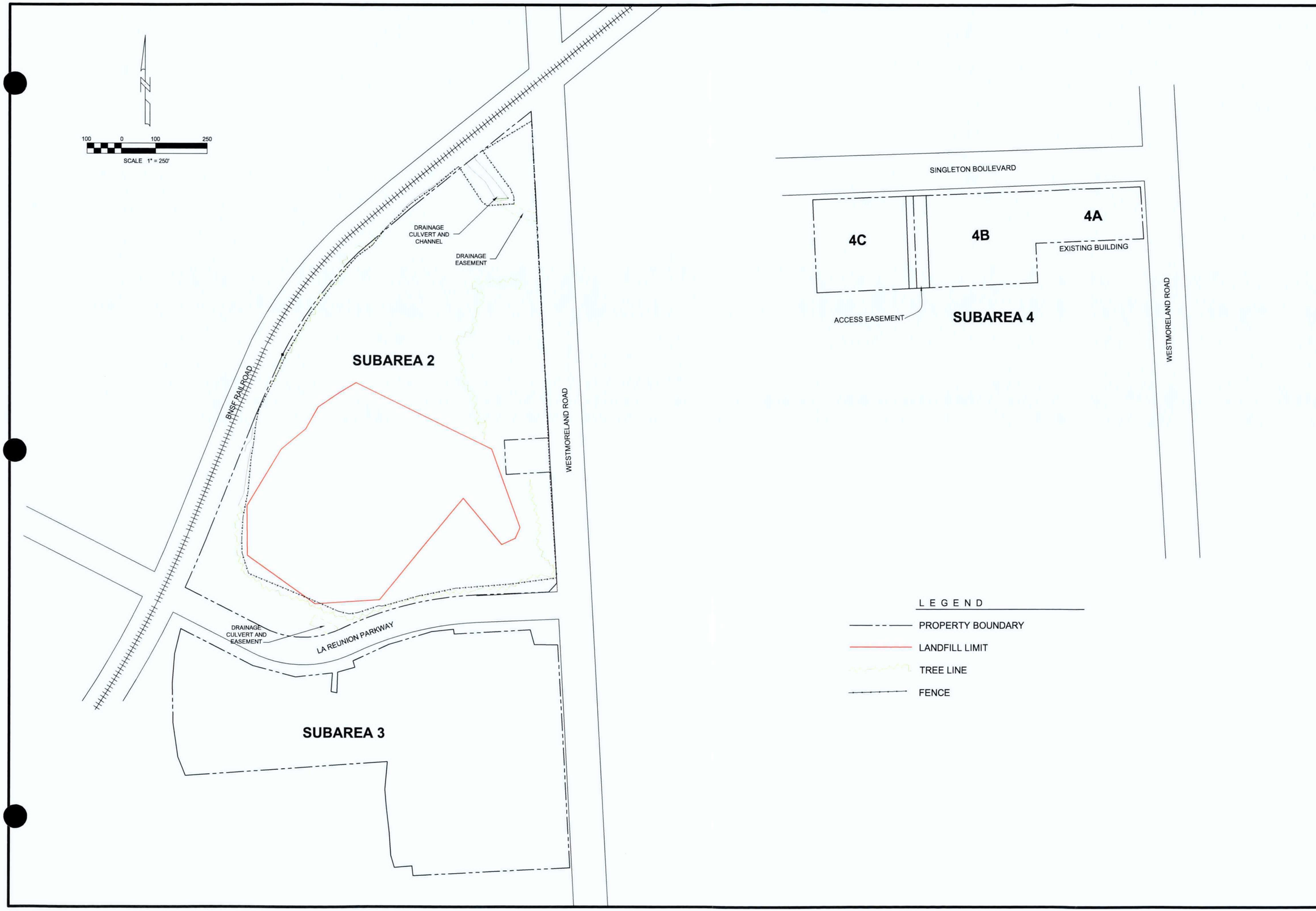
Scale
0 ½ 1 mile

N

Texas

Quadrangle Location

FIGURE TITLE: General Site Location Map		**SITE NAME:** RSR Superfund Site OU5 Subareas 2, 3 and 4	
DOCUMENT TITLE: Remedial Action Report		**LOCATION:** Dallas, Texas	
ENTACT 4040 West Royal Lane, Suite 136 Irving, Texas 75063 (972)580-1323	**DATE:** 12/03	**PREPARED BY:** DM	
	SCALE: As Shown	**CHECKED BY:** JE	
	PROJECT NO: D959	**FIGURE NO:** Figure 1	



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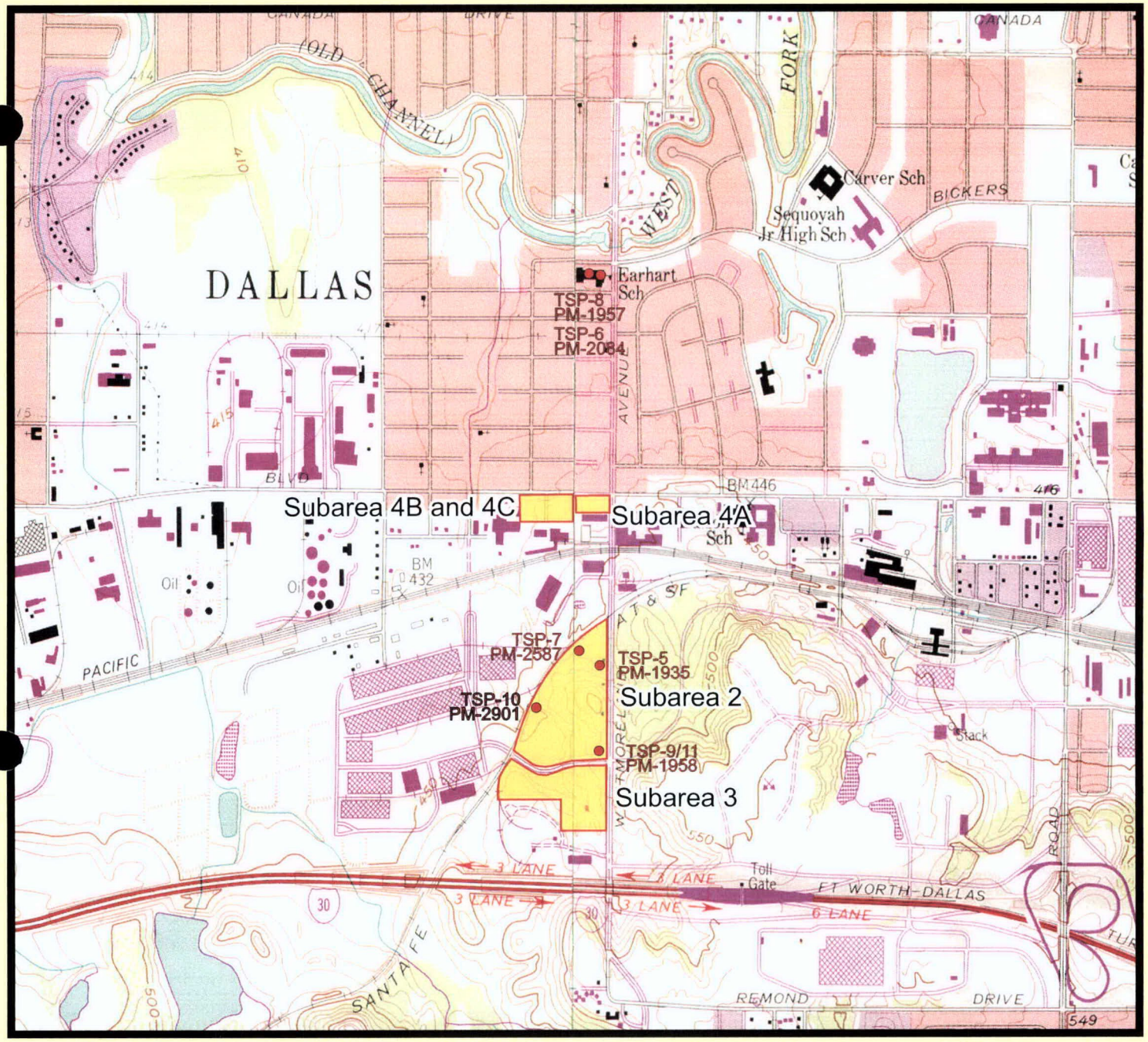
NO.	DATE	REVISION	APP.

Scale: 1"=250' | Drawn By: DM | Checked By: DM | Date: 12/2003

RSR CORPORATION

FIGURE 2

SITE LAYOUT MAP
RSR CORPORATION SUPERFUND SITE
SUBAREAS 2, 3 AND 4 OF OPERABLE UNIT 5



After U.S.G.S. 7.5 Minute Topographic Quadrangle, Oak Cliff, Texas, 1958, Photo Revised 1981, Contour Interval 10 Feet

● *Approximate Location of Perimeter Air Monitoring Stations*

Scale

0 ½ 1 mile

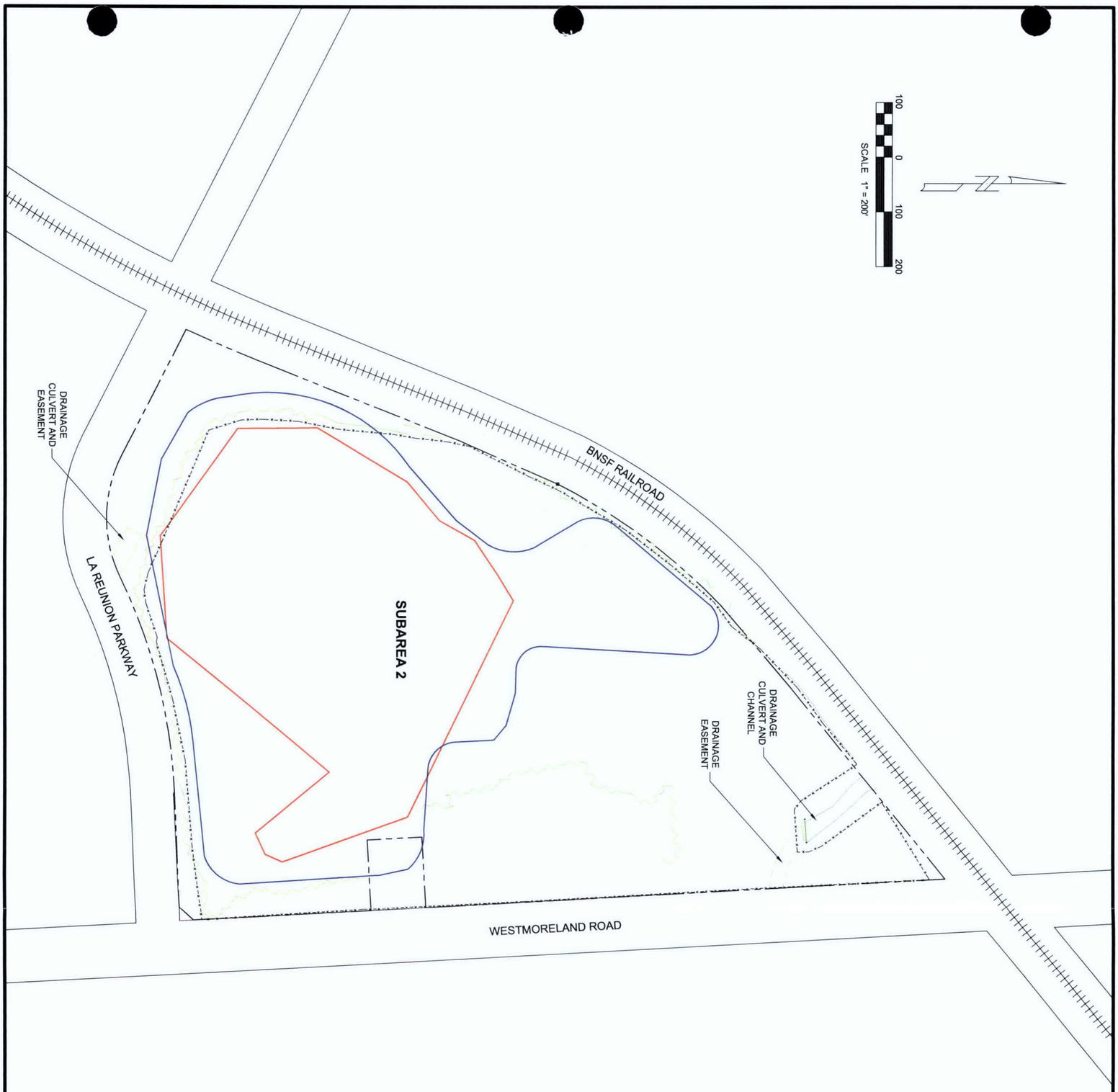
N

Quadrangle Location

FIGURE TITLE:	Perimeter Air Monitoring Station Location Map	**SITE NAME:**	RSR Superfund Site OU5 Subareas 2, 3 and 4
DOCUMENT TITLE:	Remedial Action Report	**LOCATION:**	Dallas, Texas

ENTACT
4040 West Royal Lane, Suite 136
Irving, Texas 75063
(972)580-1323

DATE:	12/03	**PREPARED BY:**	DM
SCALE:	As Shown	**CHECKED BY:**	JE
PROJECT NO:	D959	**FIGURE NO:**	Figure 3



LEGEND

- PROPERTY BOUNDARY
- LANDFILL LIMIT AS DEPICTED IN FIGURE 8 OF THE ROD
- LANDFILL LIMIT AS VERIFIED BY ENTACT IN THE FIELD
- TREE LINE
- FENCE

SUBAREA 2 LANDFILL LOCATION MAP

RSR CORPORATION SUPERFUND SITE
SUBAREAS 2, 3 AND 4 OF OPERABLE UNIT 5

RSR CORPORATION

FIGURE 4

NO.	DATE	REVISION	APP.

Scale: 1"=200' | Drawn By: DM | Checked By: DM | Date: 12/2002

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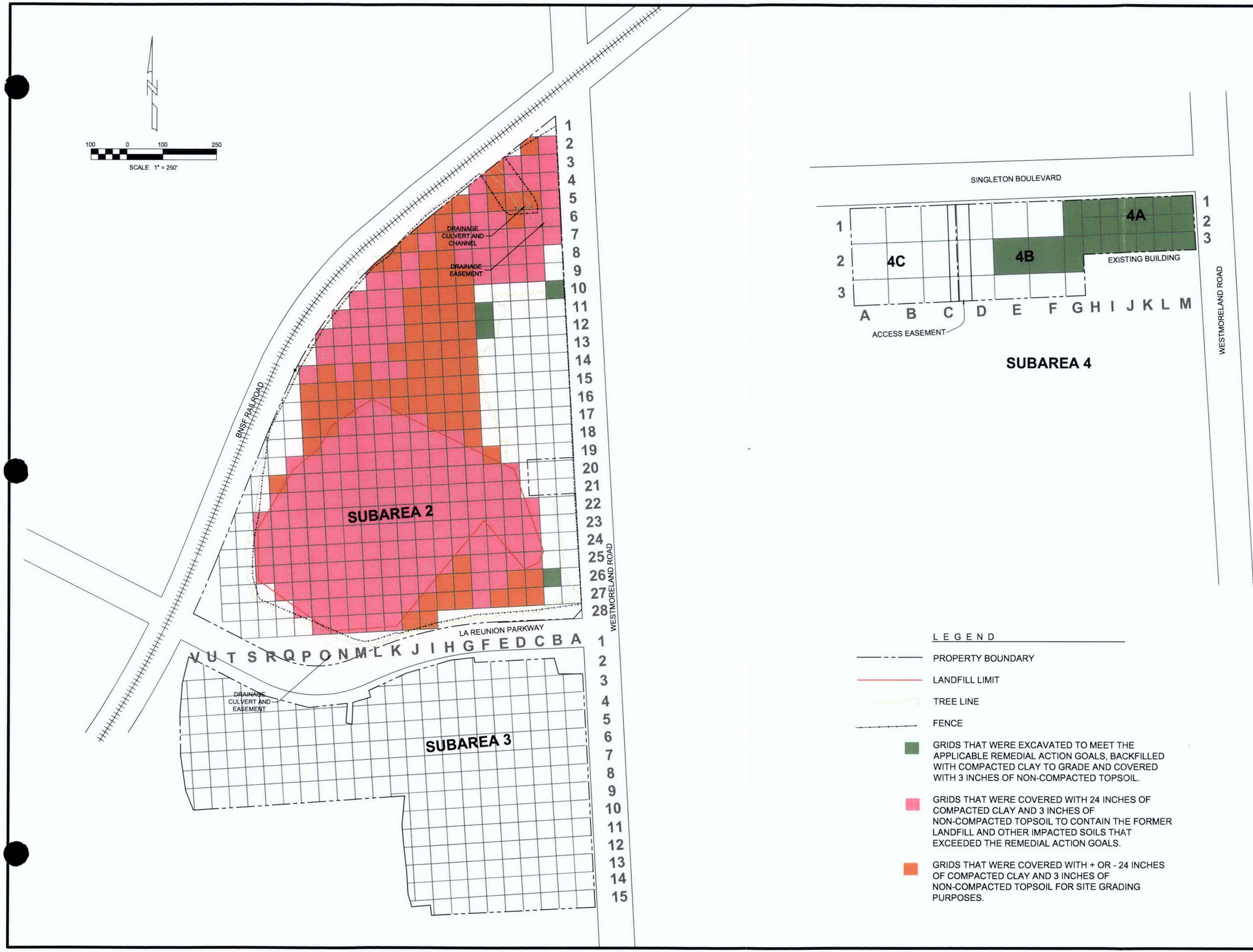

LEGEND

PROPERTY BOUNDARY

LANDFILL LIMIT

TREE LINE

FENCE

GRIDS THAT WERE EXCAVATED TO MEET THE APPLICABLE REMEDIAL ACTION GOALS, BACKFILLED WITH COMPACTED CLAY TO GRADE AND COVERED WITH 3 INCHES OF NON-COMPACTED TOPSOIL.

GRIDS THAT WERE COVERED WITH 24 INCHES OF COMPACTED CLAY AND 3 INCHES OF NON-COMPACTED TOPSOIL TO CONTAIN THE FORMER LANDFILL AND OTHER IMPACTED SOILS THAT EXCEEDED THE REMEDIAL ACTION GOALS.

GRIDS THAT WERE COVERED WITH + OR - 24 INCHES OF COMPACTED CLAY AND 3 INCHES OF NON-COMPACTED TOPSOIL FOR SITE GRADING PURPOSES.

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NO.	DATE	REVISION	APP.

Scale: 1"=250' | Drawn By: DM | Checked By: DM | Date: 12/2003

RSR CORPORATION

FIGURE 5

COVER AND EXCAVATION LOCATION MAP

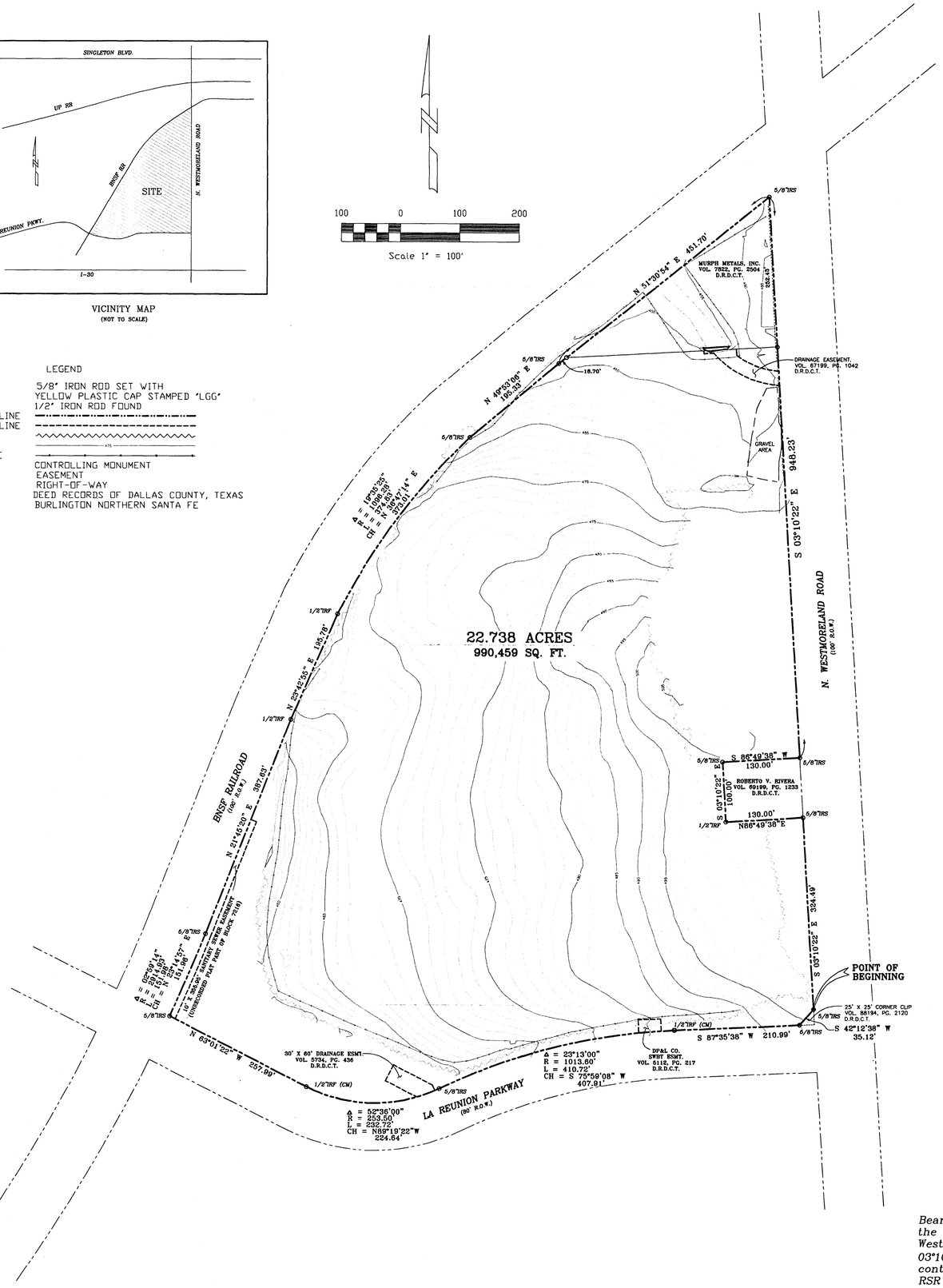
RSR CORPORATION SUPERFUND SITE SUBAREAS 2, 3 AND 4 OF OPERABLE UNIT 5

FIGURE 6A

VICINITY MAP
(NOT TO SCALE)

LEGEND

5/8"IRS o	5/8" IRON ROD SET WITH YELLOW PLASTIC CAP STAMPED "LGG"
1/2"IRF o	1/2" IRON ROD FOUND
PROPERTY LINE	
EASEMENT LINE	
TREE LINE	
CONTOUR	
SILT FENCE	
CM	CONTROLLING MONUMENT
ESMT.	EASEMENT
R.O.W.	RIGHT-OF-WAY
D.R.D.C.T.	DEED RECORDS OF DALLAS COUNTY, TEXAS
BNSF	BURLINGTON NORTHERN SANTA FE



Bearings shown hereon are based on the westerly right-of-way line of N. Westmoreland Road being South 03°10'22" East as established from control monuments from previous RSR Corporation projects.

METES AND BOUNDS DESCRIPTION

BEING a 22.738 acre tract of land situated in the T.W. Griffin Survey, Abstract No. 511, City of Dallas, Dallas County, Texas and being all of that called 1.0285 acre tract of land described to Murph Metals, Inc. by deed recorded in Volume 78222, Page 2504, Deed Records of Dallas County, Texas and all of Block C/7216 and a portion of Block B/7216 of the unrecorded plat of MEXICAN HILLS ADDITION and a portion of Lot 1-A, Block B/7216 as described by the unrecorded final plat of PART OF BLOCK 7216 City Plan File No. S-812-177 dated April 1982, said 22.738 acre tract of land being more particularly described as follows:

BEGINNING at a 5/8-inch iron rod with yellow plastic cap stamped "LGG" set for the northernmost corner of the cut-back line as described by deed recorded in Volume 88194, Page 2120, Deed Records of Dallas County, Texas at the intersection of the westerly right-of-way line of North Westmoreland Road (a 100-foot right-of-way) with the northerly right-of-way line of La Reunion Parkway (a 80-foot right-of-way);

THENCE South 42°12'38" West along said cut-back line, a distance of 35.12 feet to a 5/8-inch iron rod with yellow plastic cap stamped "LGG" set for corner in the northerly right-of-way of said La Reunion Parkway;

THENCE South 87°35'38" West along said northerly right-of-way line, a distance of 210.99 feet to a 1/2-inch iron rod found for the point of curvature of a curve to the left having a radius of 1013.60 feet;

THENCE Southwesterly continuing along said northerly right-of-way line and with said curve to the left through a central angle of 23°13'00", for an arc distance of 410.72 feet, a chord bearing of South 75°59'08" West and a chord distance of 407.91 feet to a 5/8-inch iron rod with yellow plastic cap stamped "LGG" set for the point of reverse curvature of a curve to the right having a radius of 253.50 feet;

THENCE Northwesterly continuing along said northerly right-of-way line and with said curve to the right through a central angle of 52°36'00", for an arc distance of 232.72 feet, a chord bearing of North 89°19'22" West and a chord distance of 224.64 feet to a 1/2-inch iron rod found for corner;

THENCE North 63°01'22" West continuing along said northerly right-of-way line, a distance of 257.99 feet to a 5/8-inch iron rod with yellow plastic cap stamped "LGG" set for point of intersection of said northerly right-of-way line with the southeasterly right-of-way of Burlington Northern Santa Fe Railroad (a 100-foot right-of-way) and being the point of curvature of a non-tangent curve to the left, the radius point of which bears North 65°15'26" West, at a distance of 2914.93 feet;

Thence Northeasterly along the southeasterly right-of-way line of said Burlington Northern Santa Fe Railroad and with said non-tangent curve to the left through a central angle of 02°59'14", for an arc distance of 151.98 feet, a chord bearing of North 23°14'57" East and a chord distance of 151.96 feet to a 5/8-inch iron rod with yellow plastic cap stamped "LGG" set for corner;

THENCE North 21°45'20" East continuing along said southeasterly right-of-way line, a distance of 387.63 feet to a 1/2-inch iron rod found for corner;

THENCE North 22°42'55" East continuing along said southeasterly right-of-way line, a distance of 195.78 feet to a 1/2-inch iron rod found for the point of curvature of a non-tangent curve to the right, the radius point of which bears South 63°00'29" East, at a distance of 1096.28 feet;

THENCE Northeasterly continuing along said southeasterly right-of-way line and with said curve to the right through a central angle of 19°35'25", for an arc distance of 374.83 feet, a chord bearing of North 36°47'14" East and a chord distance of 373.01 feet to a 5/8-inch iron rod with yellow plastic cap stamped "LGG" set for corner;

THENCE North 49°53'06" East continuing along said southeasterly right-of-way line, a distance of 195.33 feet to a 5/8-inch iron rod with yellow plastic cap stamped "LGG" set for corner;

THENCE North 51°30'54" East continuing along said southeasterly right-of-way line, at a distance of 16.70 feet passing the westernmost corner of said 1.0285 acre tract of land and continuing in all for a total distance of 451.70 feet to a 5/8-inch iron rod with yellow plastic cap stamped "LGG" set for the northernmost corner of said 1.0285 acre tract of land and being the point of intersection of said southeasterly right-of-way line with the aforementioned westerly right-of-way line of North Westmoreland Road;

THENCE South 03°10'22" East along said westerly right-of-way line, at a distance of 252.43 feet passing the easternmost corner of said 1.0285 acre tract of land and continuing in all for a total distance of 948.23 feet to a 5/8-inch iron rod with yellow plastic cap stamped "LGG" set for the northeast corner of that certain tract of land described to Roberto V. Rivera by deed recorded in Volume 69199, Page 1233, Deed Records of Dallas County, Texas;

THENCE South 86°49'38" West along the northerly line of said Rivera tract of land, a distance of 130.00 feet to a 5/8-inch iron rod with yellow plastic cap stamped "LGG" set for corner;

THENCE South 03°10'22" East along the westerly line of said Rivera tract of land, a distance of 100.00 feet to a 1/2-inch iron rod found for the southwest corner of said Rivera tract of land;

THENCE North 86°49'38" East along the southerly line of said Rivera tract of land, a distance of 130.00 feet to a 5/8-inch iron rod with yellow plastic cap stamped "LGG" set for corner in said westerly right-of-way line of North Westmoreland Road;

THENCE South 03°10'22" East along said westerly right-of-way line, a distance of 324.49 feet to the POINT OF BEGINNING;

CONTAINING a computed area of 990,459 square feet or 22.738 acres of land.

I, Lyndon M. Hodgin, a Registered Professional Land Surveyor, licensed by the State of Texas, do hereby certify that the subject tract of land shown hereon was surveyed on the ground under my direct supervision during the months August, September, October and November, 2003 and that the map shown hereon depicts the results of that survey.

Lyndon M. Hodgin, R.P.L.S.
Texas Registration No. 4584

Nov. 26, 2003
Date

STATE OF TEXAS REGISTERED LYNDON M. HODGIN 4584 PROFESSIONAL LAND SURVEYOR

SURVEYED FOR:
ENTACT
4040 WEST ROYAL LANE
SUITE 136
IRVING, TEXAS 75063
(972) 580-1323

LOPEZGARCIA GROUP
Engineering/Surveying/Construction Services
1825 MARKET CENTER BOULEVARD SUITE 500
Dallas, Texas 75207 (214) 741-7777

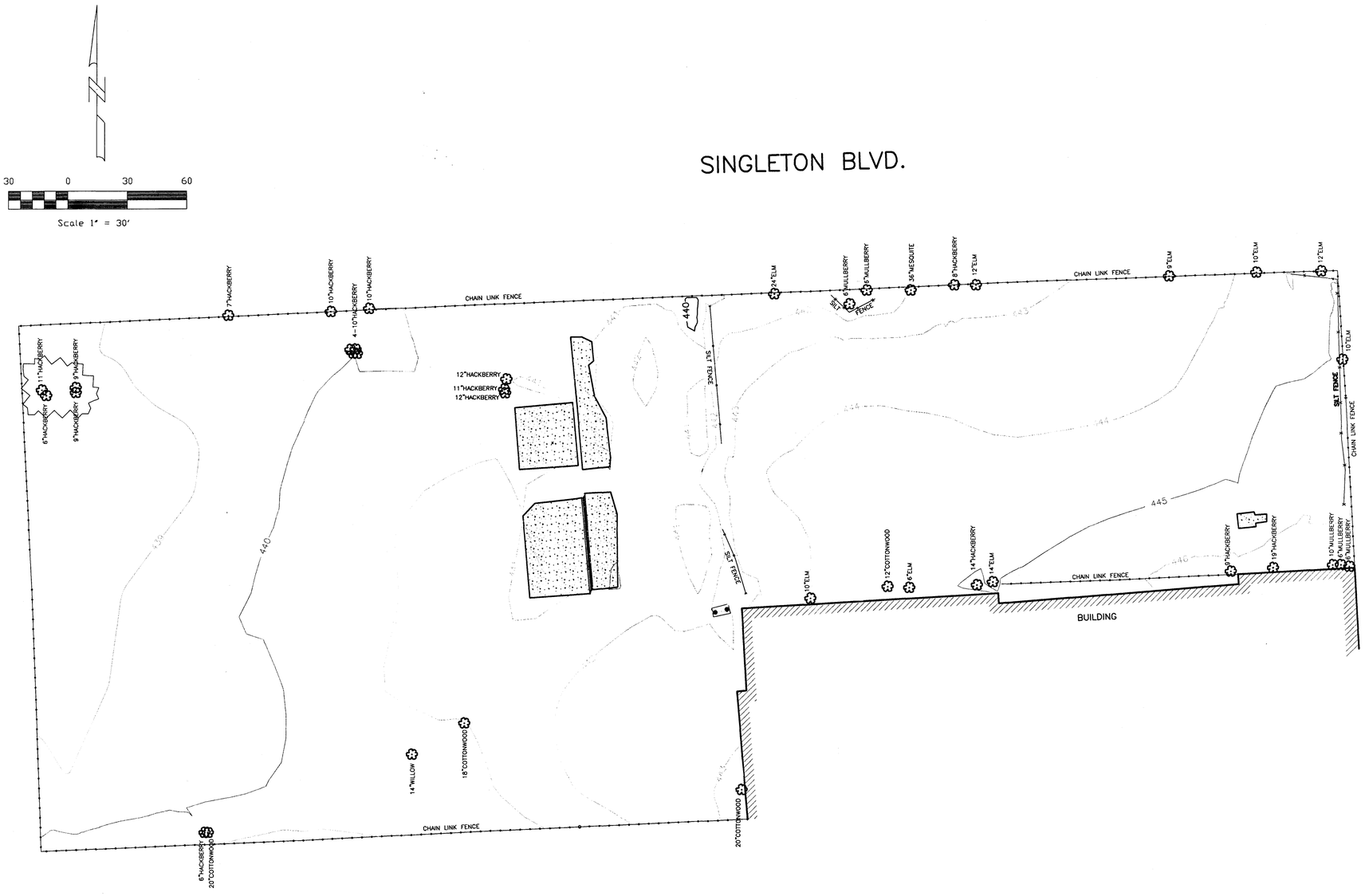
BOUNDARY SURVEY AND TOPOGRAPHIC MAPPING

RSR CORPORATION TRACT
DALLAS, TEXAS

scale: 1" = 100' | dwn by: D.R.L. | chkd by: | date: 11-26-03
drawing no. ENTACT1.DWG | job no. 203056.00

sheet 1 of 1

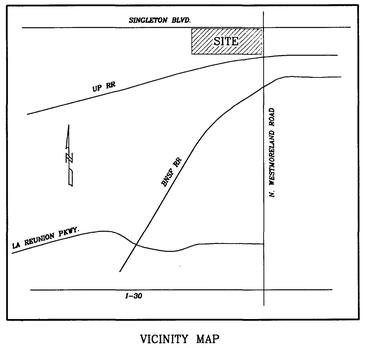
FIGURE 6B



LEGEND

CHAINLINK FENCE
TREE LINE
CONTOUR
SILT FENCE
CONCRETE
BUILDING LINE

THIS IS NOT A BOUNDARY SURVEY.



VICINITY MAP
(NOT TO SCALE)

STATE OF TEXAS
REGISTERED
LYNDON M. HODGIN
4584
PROFESSIONAL
SURVEYOR
12-3-03

SURVEYED FOR:
ENTACT
4040 WEST ROYAL LANE
SUITE 136
IRVING, TEXAS 75063
(972) 580-1323

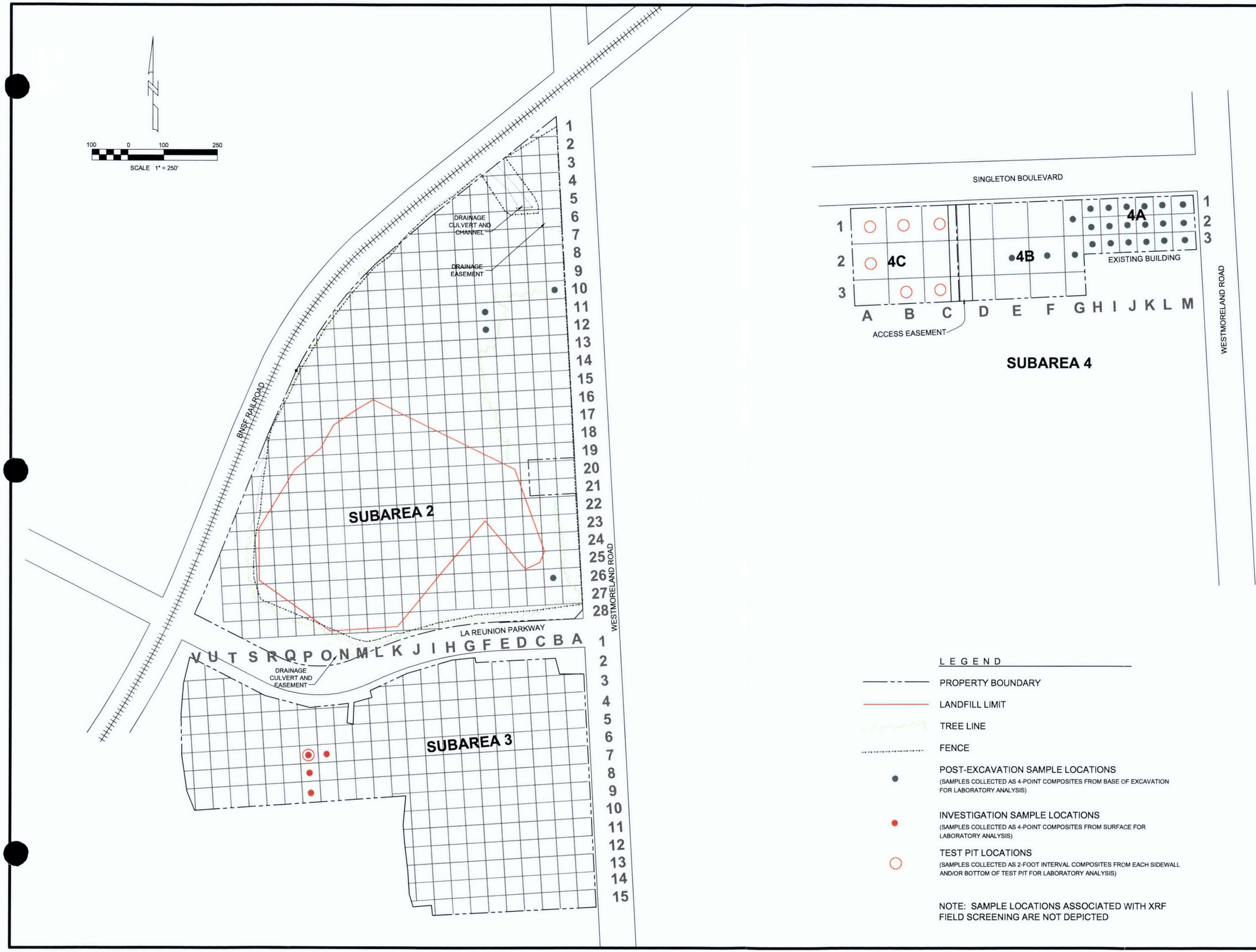
LOPEZGARCIA GROUP
Engineering/Surveying/Construction Services
1825 MARKET CENTER BOULEVARD SUITE 500
Dallas, Texas 75207 (214) 741-7777

TOPOGRAPHIC SURVEY

RSR CORPORATION TRACT
DALLAS, TEXAS

scale: 1" = 30' dwn by: D.R.L. chkd by: date: 12-03-03
drawing no. ENTACTTOPO.DWG job no. 203056.00

sheet 1 of 1



ENTACT
environmental factor in waste management
4040 W. Royal Ln. • Suite 136 • Irving, TX 75063
(972) 580-1323 • Fax (972) 550-7464
Dallas • Houston • Chicago • Atlanta

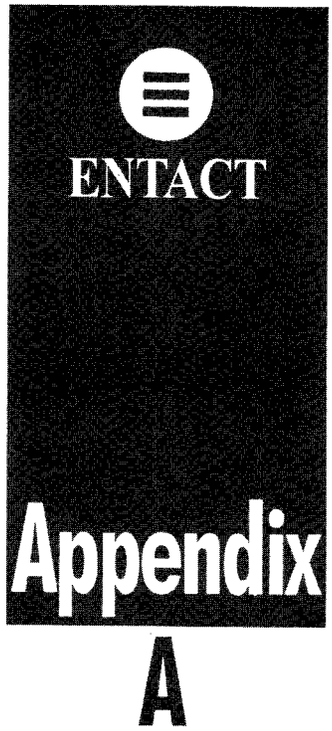
NO.	DATE	REVISION	APP.

Scale: 1"=250' | Drawn By: DM | Checked By: DM | Date: 12/2003

RSR CORPORATION

FIGURE 7

SAMPLE LOCATION MAP
RSR CORPORATION SUPERFUND SITE
SUBAREAS 2, 3 AND 4 OF OPERABLE UNIT 5


ENTACT
Appendix
A

Appendix A

Personal Air Monitoring Laboratory Analytical Reports

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7726 Moller Road
Indianapolis, IN 46268
Phone: 317.875.5894
Fax: 317.872.6189

July 07, 2003

Ms. Jenny Elste
Entact
4040 W. Royal Ln.
Suite 136
Irving, TX 75038

RE: Lab Project Number: 5028507
Client Project ID: RSR OU5/TX - 3D959

Dear Ms. Elste:

Enclosed are the analytical results for sample(s) received by the laboratory on July 3, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Jill Riddle

Jill Riddle
jill.riddle@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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Indianapolis, IN 46268
Phone: 317.875.5894
Fax: 317.872.6189

July 29, 2003

Case Narrative- Project Review
Project 5028507 (Entact)

Sample Receiving

No discrepancies were noted concerning sample receipt or sample transfer.

Elements in air- NIOSH 7300

All quality control indicators for this project (method blank and LCS results) are within laboratory acceptance limits.

I have reviewed the data from this project and have found all other discrepancies to be sufficiently covered in the footnotes in the sample results section and the quality control section of the final report.

Tim Harrison

Tim Harrison
Quality Assurance Officer
Pace Analytical Services

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Indianapolis, IN 46268
Phone: 317.875.5894
Fax: 317.872.6189

Lab Project Number: 5028507
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502570062 Project Sample Number: 5028507-001 Date Collected: 07/01/03 16:00
Client Sample ID: PAM1-001 Matrix: Air Date Received: 07/03/03 11:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/07/03 12:25	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/07/03 12:25	FRW	7440-38-2		
Lead	ND	ug/m3	2.00	07/07/03 12:25	FRW	7439-92-1		
Date Digested	07/03/03			07/03/03				

Lab Sample No: 502570070 Project Sample Number: 5028507-002 Date Collected: 07/01/03 16:00
Client Sample ID: PAM6-001 Matrix: Air Date Received: 07/03/03 11:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/07/03 12:30	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/07/03 12:30	FRW	7440-38-2		
Lead	2.13	ug/m3	2.00	07/07/03 12:30	FRW	7439-92-1		
Date Digested	07/03/03			07/03/03				

Lab Sample No: 502570088 Project Sample Number: 5028507-003 Date Collected: 07/01/03 16:00
Client Sample ID: PAM9-001 Matrix: Air Date Received: 07/03/03 11:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/07/03 12:36	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/07/03 12:36	FRW	7440-38-2		
Lead	ND	ug/m3	2.00	07/07/03 12:36	FRW	7439-92-1		
Date Digested	07/03/03			07/03/03				

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Indianapolis, IN 46268
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Fax: 317.872.6189

Lab Project Number: 5028507
Client Project ID: RSR OU5/TX - 3D959

PARAMETER FOOTNOTES

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit

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Fax: 317.872.6189

QUALITY CONTROL DATA

Lab Project Number: 5028507
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 54451 Analysis Method: NIOSH 7300
QC Batch Method: Analysis Description: Elements in Air Niosh 7300
Associated Lab Samples: 502570062 502570070 502570088

METHOD BLANK: 502570104
Associated Lab Samples: 502570062 502570070 502570088

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Antimony	ug/m3	ND	2.00	
Arsenic	ug/m3	ND	2.00	
Lead	ug/m3	ND	2.00	

LABORATORY CONTROL SAMPLE & LCSD: 502570112 502570120

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	RPD	Footnotes
Antimony	mg/l	5.000	4.962	5.047	99	101	2	
Arsenic	mg/l	5.000	5.225	5.299	104	106	1	
Lead	mg/l	5.000	4.862	4.936	97	99	2	

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Fax: 317.872.6189

Lab Project Number: 5028507
Client Project ID: RSR 0U5/TX - 3D959

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference

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ENTACT
environmental tactics in waste management

CHAIN OF CUSTODY RECORD - AIR

4040 W. Royal Lane #136 • I[redacted] Texas 75063
972.580.1323 • Fax 972.550.74[redacted]

PROJECT NAME/LOCATION [redacted]
PROJECT NUMBER 3D95[redacted]
PROJECT MANAGER P. [redacted]ONALD
LABORATORY PACE

5028507

SAMPLED BY | **ANALYSES** | **TURN AROUND TIME**

KIRK GATES (PRINT NAME)

Kirk Gates (SIGNATURE)

PRIORITY RUSH 24 HR ☐
PRIORITY 3 DAY ☒
STANDARD ☐

DATE (2003)	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	Pb LEAD	As ARSENIC	Sb ANTIMONY				COMMENTS
7/1	1600	PAM1-001	PAM #1	PAM-AIR	1.955	1017.4							5025700062
7/1	1600	PAM6-001	PAM #6	↓	1.896	967.0							5025700070
7/1	1600	PAM9-001	PAM #9	↓	1.955	997.1							5025700088

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	7/2/03	14:30	[signature]				

METHOD OF SHIPMENT

REMARKS:

PT 1 - ORIGINAL - WHITE PT 2 - LAB - YELLOW PT 3 - CUSTOMER COPY - PINK

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Fax: 317.872.6189

July 15, 2003

Ms. Jenny Elste
Entact
4040 W. Royal Ln.
Suite 136
Irving, TX 75038

RE: Lab Project Number: 5028581
Client Project ID: RSR OU5/TX - 3D959

Dear Ms. Elste:

Enclosed are the analytical results for sample(s) received by the laboratory on July 9, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Jill Riddle

Jill Riddle
jill.riddle@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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Indianapolis, IN 46268
Phone: 317.875.5894
Fax: 317.872.6189

July 29, 2003

Case Narrative- Project Review
Project 5028581 (Entact)

Sample Receiving

No discrepancies were noted concerning sample receipt or sample transfer.

Elements in air- NIOSH 7300

All quality control indicators for this project (method blank and LCS results) are within laboratory acceptance limits.

I have reviewed the data from this project and have found all other discrepancies to be sufficiently covered in the footnotes in the sample results section and the quality control section of the final report.

Tim Harrison
Quality Assurance Officer
Pace Analytical Services

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Indianapolis, IN 46268
Phone: 317.875.5894
Fax: 317.872.6189

Lab Project Number: 5028581
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502580087 Project Sample Number: 5028581-001 Date Collected: 07/03/03 00:00
Client Sample ID: PAM1-002 Matrix: Air Date Received: 07/09/03 09:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/14/03 14:14	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/14/03 14:14	FRW	7440-38-2		
Lead	3.23	ug/m3	2.00	07/14/03 14:14	FRW	7439-92-1		
Date Digested	07/11/03			07/11/03				

Lab Sample No: 502580095 Project Sample Number: 5028581-002 Date Collected: 07/07/03 00:00
Client Sample ID: PAM1-003 Matrix: Air Date Received: 07/09/03 09:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/14/03 14:31	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/14/03 14:31	FRW	7440-38-2		
Lead	ND	ug/m3	2.00	07/14/03 14:31	FRW	7439-92-1		
Date Digested	07/11/03			07/11/03				

Lab Sample No: 502580103 Project Sample Number: 5028581-003 Date Collected: 07/03/03 00:00
Client Sample ID: PAM6-002 Matrix: Air Date Received: 07/09/03 09:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/14/03 14:19	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/14/03 14:19	FRW	7440-38-2		
Lead	2.63	ug/m3	2.00	07/14/03 14:19	FRW	7439-92-1		
Date Digested	07/11/03			07/11/03				

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Phone: 317.875.5894
Fax: 317.872.6189

Lab Project Number: 5028581
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502580111 Project Sample Number: 5028581-004 Date Collected: 07/07/03 00:00
Client Sample ID: PAM6-003 Matrix: Air Date Received: 07/09/03 09:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/14/03 14:36	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/14/03 14:36	FRW	7440-38-2		
Lead	ND	ug/m3	2.00	07/14/03 14:36	FRW	7439-92-1		
Date Digested	07/11/03			07/11/03				

Lab Sample No: 502580129 Project Sample Number: 5028581-005 Date Collected: 07/03/03 00:00
Client Sample ID: PAM9-002 Matrix: Air Date Received: 07/09/03 09:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/14/03 14:25	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/14/03 14:25	FRW	7440-38-2		
Lead	15.1	ug/m3	2.00	07/14/03 14:25	FRW	7439-92-1		
Date Digested	07/11/03			07/11/03				

Lab Sample No: 502580137 Project Sample Number: 5028581-006 Date Collected: 07/07/03 00:00
Client Sample ID: PAM9-003 Matrix: Air Date Received: 07/09/03 09:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/14/03 14:42	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/14/03 14:42	FRW	7440-38-2		
Lead	ND	ug/m3	2.00	07/14/03 14:42	FRW	7439-92-1		
Date Digested	07/11/03			07/11/03				

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Indianapolis, IN 46268
Phone: 317.875.5894
Fax: 317.872.6189

Lab Project Number: 5028581
Client Project ID: RSR OU5/TX - 3D959

PARAMETER FOOTNOTES

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit

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QUALITY CONTROL DATA

Lab Project Number: 5028581
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 54859 Analysis Method: NIOSH 7300
QC Batch Method: Analysis Description: Elements in Air Niosh 7300
Associated Lab Samples: 502580087 502580095 502580103 502580111 502580129 502580137

METHOD BLANK: 502588098
Associated Lab Samples: 502580087 502580095 502580103 502580111 502580129 502580137

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Antimony	ug/m3	ND	2.00	
Arsenic	ug/m3	ND	2.00	
Lead	ug/m3	ND	2.00	

LABORATORY CONTROL SAMPLE & LCSD: 502588106 502588114

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	RPD	Footnotes
Antimony	mg/l	5.000	4.858	4.924	97	98	1	
Arsenic	mg/l	5.000	5.186	5.231	104	105	1	
Lead	mg/l	5.000	5.002	4.922	100	98	2	

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 5028581
Client Project ID: RSR OU5/TX - 3D959

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference

REPORT OF LABORATORY ANALYSIS

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CHAIN OF CUSTODY RECORD - AIR

ENTACT
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4040 W. Royal Lane #136 • I[redacted], Texas 75063
972.580.1323 • Fax 972.550.7464

PROJECT NAME/LOCATION RSR OUS / TX
PROJECT NUMBER 3D9[redacted]
PROJECT MANAGER P. MCDONALD
LABORATORY PACE

5028581 ~~5028573~~ (JR)

SAMPLED BY | **ANALYSES** | **TURN AROUND TIME**

KIRK GATES (PRINT NAME) — Kirk Gates SIGNATURE

TURN AROUND TIME: PRIORITY RUSH 24 HR ☐ PRIORITY 3 DAY ☑ STANDARD ☐

DATE	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	LEAD (Pb)	ARSENIC (As)	ANTIMONY (Sb)				COMMENTS
7/3		PAM1-002	PAM #1	AIR	2.186	1075.7							502580087
7/7		PAM1-003	↓		2.388	1289.5							502580095
7/3		PAM6-002	PAM #6		2.144	1054.8							502580103
7/7		PAM6-003	↓		2.147	1159.4							502580111
7/3		PAM9-002	PAM #9		1.980	950.4							502580129
7/7		PAM9-003	↓		2.150	1290.0							502580137

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	7/8/03	12:15	7-8-03 A Jones 9:37a				

METHOD OF SHIPMENT

REMARKS:

no ice - all samples Fed Ex

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July 16, 2003

Ms. Jenny Elste
Entact
4040 W. Royal Ln.
Suite 136
Irving, TX 75038

RE: Lab Project Number: 5028673
Client Project ID: RSR OU5/TX - 3D959

Dear Ms. Elste:

Enclosed are the analytical results for sample(s) received by the laboratory on July 11, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Jill Riddle

Jill Riddle
jill.riddle@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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July 29, 2003

Case Narrative- Project Review
Project 5028673 (Entact)

Sample Receiving

No discrepancies were noted concerning sample receipt or sample transfer.

Elements in air- NIOSH 7300

All quality control indicators for this project (method blank and LCS results) are within laboratory acceptance limits.

I have reviewed the data from this project and have found all other discrepancies to be sufficiently covered in the footnotes in the sample results section and the quality control section of the final report.

Tim Harrison

Tim Harrison
Quality Assurance Officer
Pace Analytical Services

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Lab Project Number: 5028673
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502588742 Project Sample Number: 5028673-001 Date Collected: 07/08/03 00:00
Client Sample ID: PAM1-004 Matrix: Air Date Received: 07/11/03 13:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/15/03 17:19	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/15/03 17:19	FRW	7440-38-2		
Lead	3.15	ug/m3	2.00	07/15/03 17:19	FRW	7439-92-1		
Date Digested	07/11/03			07/11/03				

Lab Sample No: 502588775 Project Sample Number: 5028673-002 Date Collected: 07/09/03 00:00
Client Sample ID: PAM1-005 Matrix: Air Date Received: 07/11/03 13:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/15/03 17:36	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/15/03 17:36	FRW	7440-38-2		
Lead	2.69	ug/m3	2.00	07/15/03 17:36	FRW	7439-92-1		
Date Digested	07/11/03			07/11/03				

Lab Sample No: 502588791 Project Sample Number: 5028673-003 Date Collected: 07/08/03 00:00
Client Sample ID: PAM6-004 Matrix: Air Date Received: 07/11/03 13:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/15/03 17:25	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/15/03 17:25	FRW	7440-38-2		
Lead	12.0	ug/m3	2.00	07/15/03 17:25	FRW	7439-92-1		
Date Digested	07/11/03			07/11/03				

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Lab Project Number: 5028673
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502588809 Project Sample Number: 5028673-004 Date Collected: 07/09/03 00:00
Client Sample ID: PAM6-005 Matrix: Air Date Received: 07/11/03 13:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/15/03 17:42	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/15/03 17:42	FRW	7440-38-2		
Lead	4.46	ug/m3	2.00	07/15/03 17:42	FRW	7439-92-1		
Date Digested	07/11/03			07/11/03				

Lab Sample No: 502588817 Project Sample Number: 5028673-005 Date Collected: 07/08/03 00:00
Client Sample ID: PAM9-004 Matrix: Air Date Received: 07/11/03 13:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/15/03 17:30	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/15/03 17:30	FRW	7440-38-2		
Lead	6.06	ug/m3	2.00	07/15/03 17:30	FRW	7439-92-1		
Date Digested	07/11/03			07/11/03				

Lab Sample No: 502588825 Project Sample Number: 5028673-006 Date Collected: 07/09/03 00:00
Client Sample ID: PAM9-005 Matrix: Air Date Received: 07/11/03 13:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/15/03 17:47	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/15/03 17:47	FRW	7440-38-2		
Lead	ND	ug/m3	2.00	07/15/03 17:47	FRW	7439-92-1		
Date Digested	07/11/03			07/11/03				

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Lab Project Number: 5028673
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502588841 Project Sample Number: 5028673-007 Date Collected: 07/09/03 00:00
Client Sample ID: PAM-FB-001 Matrix: Air Date Received: 07/11/03 13:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/15/03 17:53	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/15/03 17:53	FRW	7440-38-2		
Lead	ND	ug/m3	2.00	07/15/03 17:53	FRW	7439-92-1		
Date Digested	07/11/03			07/11/03				

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Lab Project Number: 5028673
Client Project ID: RSR OU5/TX - 3D959

PARAMETER FOOTNOTES

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit

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QUALITY CONTROL DATA

Lab Project Number: 5028673
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 54859 Analysis Method: NIOSH 7300
QC Batch Method: Analysis Description: Elements in Air Niosh 7300
Associated Lab Samples: 502588742 502588775 502588791 502588809 502588817 502588825 502588841

METHOD BLANK: 502588098
Associated Lab Samples: 502588742 502588775 502588791 502588809 502588817 502588825 502588841

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Antimony	ug/m3	ND	2.00	
Arsenic	ug/m3	ND	2.00	
Lead	ug/m3	ND	2.00	

LABORATORY CONTROL SAMPLE & LCSD: 502588106 502588114

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	RPD	Footnotes
Antimony	mg/l	5.000	4.858	4.924	97	98	1	
Arsenic	mg/l	5.000	5.186	5.231	104	105	1	
Lead	mg/l	5.000	5.002	4.922	100	98	2	

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Lab Project Number: 5028673
Client Project ID: RSR OU5/TX - 3D959

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference

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environmental tactics in waste management

CHAIN OF CUSTODY RECORD - AIR

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PROJECT NAME/LOCATION KSROUS/DALY
PROJECT NUMBER 30959
PROJECT MANAGER P. McDONALD
LABORATORY Pace

5028673

SAMPLED BY: KIRK GATES (PRINT NAME) — Kirk Gates (SIGNATURE)

ANALYSES

TURN AROUND TIME
- PRIORITY RUSH 24 HR ☐
- PRIORITY 3 DAY ☒
- STANDARD ☐

DATE	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME (→ Per Jax fr. Kirk Gates 7-14-03 JPR)	Pb	As	Sb				COMMENTS
7/8		PAM1-004	PAM #1	AIR		1311.52	✓	✓	✓				502588742
7/9		PAM1-005	PAM #1	↓		1308.60	✓	✓	✓				502588775
7/8		PAM6-004	PAM #6	↓		1161.44	✓	✓	✓				502588791
7/9		PAM6-005	↓	↓		1274.90	✓	✓	✓				502588809
7/8		PAM9-004	PAM #9	↓		1233.0	✓	✓	✓				502588817
7/9		PAM9-005	↓	↓		1261.8	✓	✓	✓				502588825
7/9		PAM-FB-001	—	AIR	—	—	✓	✓	✓				502588841

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	7/10/03	13:10	Jill Biddle 7-11-03 13:37				

METHOD OF SHIPMENT: Fed Ex: 8392 0052 6413

REMARKS:

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07/14/2003 05:15 2146317703

ENTACT
environmental services management

CHAIN OF CUSTODY RECORD - AIR

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972.580.1323 • Fax 972.550.7464

PROJECT NAME/LOCATION
PROJECT NUMBER
PROJECT MANAGER
LABORATORY

SAMPLED BY

(PRINT NAME) | SIGNATURE

ANALYSES

TURN AROUND TIME

- PRIORITY RUSH 24 HR ☐
- PRIORITY 3 DAY ☒
- STANDARD ☐

DATE	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME (M^3)						COMMENTS
				AIR	2.342	1311.52						
					2.181	1308.60						
					2.074	1161.44						
					2.361	1224.90						
					2.055	1283.0						
					2.103	1261.8						

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:

METHOD OF SHIPMENT

REMARKS:

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July 18, 2003

Ms. Jenny Elste
Entact
4040 W. Royal Ln.
Suite 136
Irving, TX 75038

RE: Lab Project Number: 5028711
Client Project ID: RSR OU5/TX - 3D959

Dear Ms. Elste:

Enclosed are the analytical results for sample(s) received by the laboratory on July 15, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Jill Riddle

Jill Riddle
jill.riddle@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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July 29, 2003

Case Narrative- Project Review
Project 5028711 (Entact)

Sample Receiving

No discrepancies were noted concerning sample receipt or sample transfer.

Elements in air- NIOSH 7300

All quality control indicators for this project (method blank and LCS results) are within laboratory acceptance limits.

I have reviewed the data from this project and have found all other discrepancies to be sufficiently covered in the footnotes in the sample results section and the quality control section of the final report.

Tim Harrison

Tim Harrison
Quality Assurance Officer
Pace Analytical Services

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Lab Project Number: 5028711
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502594252 Project Sample Number: 5028711-001 Date Collected: 07/10/03 00:00
Client Sample ID: PAM1-006 Matrix: Air Date Received: 07/15/03 08:51

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/17/03 15:32	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/17/03 15:32	FRW	7440-38-2		
Lead	40.0	ug/m3	2.00	07/17/03 15:32	FRW	7439-92-1		
Date Digested	07/16/03			07/16/03				

Lab Sample No: 502594385 Project Sample Number: 5028711-002 Date Collected: 07/11/03 00:00
Client Sample ID: PAM1-007 Matrix: Air Date Received: 07/15/03 08:51

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/17/03 15:59	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/17/03 15:59	FRW	7440-38-2		
Lead	ND	ug/m3	2.00	07/17/03 15:59	FRW	7439-92-1		
Date Digested	07/16/03			07/16/03				

Lab Sample No: 502594419 Project Sample Number: 5028711-003 Date Collected: 07/10/03 00:00
Client Sample ID: PAM6-006 Matrix: Air Date Received: 07/15/03 08:51

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/17/03 15:42	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/17/03 15:42	FRW	7440-38-2		
Lead	4.70	ug/m3	2.00	07/17/03 15:42	FRW	7439-92-1		
Date Digested	07/16/03			07/16/03				

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Lab Project Number: 5028711
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502594492 Project Sample Number: 5028711-004 Date Collected: 07/11/03 00:00
Client Sample ID: PAM6-007 Matrix: Air Date Received: 07/15/03 08:51

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/17/03 16:05	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/17/03 16:05	FRW	7440-38-2		
Lead	ND	ug/m3	2.00	07/17/03 16:05	FRW	7439-92-1		
Date Digested	07/16/03			07/16/03				

Lab Sample No: 502594500 Project Sample Number: 5028711-005 Date Collected: 07/10/03 00:00
Client Sample ID: PAM9-006 Matrix: Air Date Received: 07/15/03 08:51

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/17/03 15:48	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/17/03 15:48	FRW	7440-38-2		
Lead	ND	ug/m3	2.00	07/17/03 15:48	FRW	7439-92-1		
Date Digested	07/16/03			07/16/03				

Lab Sample No: 502594518 Project Sample Number: 5028711-006 Date Collected: 07/11/03 00:00
Client Sample ID: PAM9-007 Matrix: Air Date Received: 07/15/03 08:51

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/17/03 16:10	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/17/03 16:10	FRW	7440-38-2		
Lead	ND	ug/m3	2.00	07/17/03 16:10	FRW	7439-92-1		
Date Digested	07/16/03			07/16/03				

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Lab Project Number: 5028711
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502594526 Project Sample Number: 5028711-007 Date Collected: 07/10/03 00:00
Client Sample ID: PAM-FB-002 Matrix: Air Date Received: 07/15/03 08:51

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/17/03 15:53	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/17/03 15:53	FRW	7440-38-2		
Lead	3.50	ug/m3	2.00	07/17/03 15:53	FRW	7439-92-1		
Date Digested	07/16/03			07/16/03				

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Lab Project Number: 502871I
Client Project ID: RSR OU5/TX - 3D959

PARAMETER FOOTNOTES

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit

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QUALITY CONTROL DATA

Lab Project Number: 5028711
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 55088 Analysis Method: NIOSH 7300
QC Batch Method: Analysis Description: Elements in Air Niosh 7300
Associated Lab Samples: 502594252 502594385 502594419 502594492 502594500 502594518 502594526

METHOD BLANK: 502600208
Associated Lab Samples: 502594252 502594385 502594419 502594492 502594500 502594518 502594526

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Antimony	ug/m3	ND	2.00	
Arsenic	ug/m3	ND	2.00	
Lead	ug/m3	ND	2.00	

LABORATORY CONTROL SAMPLE & LCSD: 502600216 502600224

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	RPD	Footnotes
Antimony	mg/l	5.000	4.827	4.798	96	96	1	
Arsenic	mg/l	5.000	5.244	5.241	105	105	0	
Lead	mg/l	5.000	4.832	4.859	97	97	1	

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Lab Project Number: 5028711
Client Project ID: RSR OU5/TX - 3D959

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference

REPORT OF LABORATORY ANALYSIS

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CHAIN OF CUSTODY RECORD - AIR

ENTACT
environmental tactics in waste management
4040 W. Royal Lane #136 • Irving, Texas 75063
972.580.1323 • Fax 972.550.7464

PROJECT NAME/LOCATION [illegible] TX
PROJECT NUMBER 30959
PROJECT MANAGER P. McDonald
LABORATORY Pace
5028711

SAMPLED BY

KIRK GATES (PRINT NAME) — Kirk Gates (SIGNATURE)

ANALYSES: AS, SB, PB

TURN AROUND TIME
- PRIORITY RUSH 24 HR ☐
- PRIORITY 3 DAY ☒
- STANDARD ☐

DATE	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	AS	SB	PB	COMMENTS
7/10		PAM1-006	PAM #1	AIR	2.318	1390	✓	✓	✓	502594252
7/11		PAM1-007	↓		2.373	1139	✓	✓	✓	502594385
7/10		PAM6-006	PAM #6		2.198	1318	✓	✓	✓	502594419
7/11		PAM6-007	↓		2.186	1049	✓	✓	✓	502594492
7/10		PAM9-006	PAM #9	2.068	~~1.178~~	*1.178 (1178.76)	✓	✓	✓	502594500
7/11		PAM9-007	↓	AIR	1.977	948.96	✓	✓	✓	502594518
7/10		PAM-FB-002	—	AIR	—	—	✓	✓	✓	502594526

*Per Kirk, 7-15-03, Volume for PAM9-006 should be 1178.76. JPK

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	7/14/03 11:35	11:35	Jim Riddle 7-15-03 8:51				

METHOD OF SHIPMENT: FedEx - 839200526424

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July 25, 2003

Ms. Jenny Elste
Entact
4040 W. Royal Ln.
Suite 136
Irving, TX 75038

RE: Lab Project Number: 5028935
Client Project ID: RSR OU5/TX - 3D959

Dear Ms. Elste:

Enclosed are the analytical results for sample(s) received by the laboratory on July 24, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Jill Riddle

Jill Riddle
jill.riddle@pacelabs.com
Project Manager

Enclosures

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July 29, 2003

Case Narrative- Project Review
Project 5028935 (Entact)

Sample Receiving

No discrepancies were noted concerning sample receipt or sample transfer.

Elements in air- NIOSH 7300

All quality control indicators for this project (method blank and LCS results) are within laboratory acceptance limits.

I have reviewed the data from this project and have found all other discrepancies to be sufficiently covered in the footnotes in the sample results section and the quality control section of the final report.

Tim Harrison

Tim Harrison
Quality Assurance Officer
Pace Analytical Services

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Lab Project Number: 5028935
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502620826 Project Sample Number: 5028935-001 Date Collected: 07/21/03 00:00
Client Sample ID: PAM1-013 Matrix: Air Date Received: 07/24/03 08:24

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/25/03 14:29	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/25/03 14:29	FRW	7440-38-2		
Lead	ND	ug/m3	2.00	07/25/03 14:29	FRW	7439-92-1		
Date Digested	07/24/03			07/24/03				

Lab Sample No: 502620875 Project Sample Number: 5028935-002 Date Collected: 07/21/03 00:00
Client Sample ID: PAM6-013 Matrix: Air Date Received: 07/24/03 08:24

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/25/03 14:35	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/25/03 14:35	FRW	7440-38-2		
Lead	ND	ug/m3	2.00	07/25/03 14:35	FRW	7439-92-1		
Date Digested	07/24/03			07/24/03				

Lab Sample No: 502620883 Project Sample Number: 5028935-003 Date Collected: 07/21/03 00:00
Client Sample ID: PAM9-013 Matrix: Air Date Received: 07/24/03 08:24

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/25/03 14:41	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/25/03 14:41	FRW	7440-38-2		
Lead	ND	ug/m3	2.00	07/25/03 14:41	FRW	7439-92-1		
Date Digested	07/24/03			07/24/03				

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Lab Project Number: 5028935
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502620891 Project Sample Number: 5028935-004 Date Collected: 07/22/03 00:00
Client Sample ID: PAM1-014 Matrix: Air Date Received: 07/24/03 08:24

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/25/03 14:46	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/25/03 14:46	FRW	7440-38-2		
Lead	ND	ug/m3	2.00	07/25/03 14:46	FRW	7439-92-1		
Date Digested	07/24/03			07/24/03				

Lab Sample No: 502620958 Project Sample Number: 5028935-005 Date Collected: 07/22/03 00:00
Client Sample ID: PAM4-014 Matrix: Air Date Received: 07/24/03 08:24

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/25/03 14:52	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/25/03 14:52	FRW	7440-38-2		
Lead	3.84	ug/m3	2.00	07/25/03 14:52	FRW	7439-92-1		
Date Digested	07/24/03			07/24/03				

Lab Sample No: 502620966 Project Sample Number: 5028935-006 Date Collected: 07/22/03 00:00
Client Sample ID: PAM9-014 Matrix: Air Date Received: 07/24/03 08:24

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/25/03 14:58	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/25/03 14:58	FRW	7440-38-2		
Lead	ND	ug/m3	2.00	07/25/03 14:58	FRW	7439-92-1		
Date Digested	07/24/03			07/24/03				

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Lab Project Number: 5028935
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502620974 Project Sample Number: 5028935-007 Date Collected: 07/22/03 00:00
Client Sample ID: PAM-FB-005 Matrix: Air Date Received: 07/24/03 08:24

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/25/03 15:03	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/25/03 15:03	FRW	7440-38-2		
Lead	ND	ug/m3	2.00	07/25/03 15:03	FRW	7439-92-1		
Date Digested	07/24/03			07/24/03				

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Lab Project Number: 5028935
Client Project ID: RSR OU5/TX - 3D959

PARAMETER FOOTNOTES

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit

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QUALITY CONTROL DATA

Lab Project Number: 5028935
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 55493 Analysis Method: NIOSH 7300
QC Batch Method: Analysis Description: Elements in Air Niosh 7300
Associated Lab Samples: 502620826 502620875 502620883 502620891 502620958 502620966 502620974

METHOD BLANK: 502621964
Associated Lab Samples: 502620826 502620875 502620883 502620891 502620958 502620966 502620974

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Antimony	ug/m3	ND	2.00	
Arsenic	ug/m3	ND	2.00	
Lead	ug/m3	ND	2.00	

LABORATORY CONTROL SAMPLE & LCSD: 502621972 502621980

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	RPD	Footnotes
Antimony	mg/l	5.000	4.900	4.904	98	98	0	
Arsenic	mg/l	5.000	5.076	5.016	102	100	1	
Lead	mg/l	5.000	4.951	4.900	99	98	1	

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Lab Project Number: 5028935
Client Project ID: RSR OU5/TX - 3D959

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference

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environmental tactics in toxic management

CHAIN OF CUSTODY RECORD - AIR

4040 W. Royal Lane #136 • [redacted], Texas 75063
972.580.1323 • Fax 972.550.7464

PROJECT NAME/LOCATION DALLAS, TX
PROJECT NUMBER 3[redacted]9
PROJECT MANAGER P. MCDONALD
LABORATORY PACE
5028935

SAMPLED BY

KIRK GATES (PRINT NAME)
Kirk Gates SIGNATURE

ANALYSES

TURN AROUND TIME

- PRIORITY RUSH 24 HR ☐
- PRIORITY 3 DAY ☒
- STANDARD ☐

2003 DATE	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	Pb	As	Sb				COMMENTS
7/21		PAM 1-013	1	AIR	2.310	1108.8	X	X	X				5028620826
7/21		PAM 6-013	6	↓	1.617	970.5	↓	↓	↓				5026620875
7/21		PAM 9-013	9		2.062	1237.2							5026620883
7/22		PAM 1-014	1		2.367	1349.2							5026620891
7/22		PAM 4-014	4		1.7645	1005.76							5026620958
7/22		PAM 9-014	9	↓	2.045	1165.6							5026620966
7/22		PAM-FB-005	—	AIR	—	—	↓	↓	↓				5026620974

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	7/23/03	15:10	Jill Riddle 7-24-03 8:34				

METHOD OF SHIPMENT
FedEx: 837589035082

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July 23, 2003

Ms. Jenny Elste
Entact
4040 W. Royal Ln.
Suite 136
Irving, TX 75038

RE: Lab Project Number: 5028836
Client Project ID: RSR OU5/TX - 3D959

Dear Ms. Elste:

Enclosed are the analytical results for sample(s) received by the laboratory on July 18, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Jill Riddle

Jill Riddle
jill.riddle@pacelabs.com
Project Manager

Enclosures

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July 29, 2003

Case Narrative- Project Review
Project 5028836 (Entact)

Sample Receiving

No discrepancies were noted concerning sample receipt or sample transfer.

Elements in air- NIOSH 7300

All quality control indicators for this project (method blank and LCS results) are within laboratory acceptance limits.

I have reviewed the data from this project and have found all other discrepancies to be sufficiently covered in the footnotes in the sample results section and the quality control section of the final report.

Tim Harrison

Tim Harrison
Quality Assurance Officer
Pace Analytical Services

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Lab Project Number: 5028836
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502607575 Project Sample Number: 5028836-001 Date Collected: 07/14/03 00:00
Client Sample ID: PAM1-008 Matrix: Air Date Received: 07/18/03 12:14

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/23/03 10:50	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/23/03 10:50	FRW	7440-38-2		
Lead	18.6	ug/m3	2.00	07/23/03 10:50	FRW	7439-92-1		
Date Digested	07/21/03			07/21/03				

Lab Sample No: 502607583 Project Sample Number: 5028836-002 Date Collected: 07/15/03 00:00
Client Sample ID: PAM1-009 Matrix: Air Date Received: 07/18/03 12:14

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/23/03 11:07	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/23/03 11:07	FRW	7440-38-2		
Lead	ND	ug/m3	2.00	07/23/03 11:07	FRW	7439-92-1		
Date Digested	07/21/03			07/21/03				

Lab Sample No: 502607617 Project Sample Number: 5028836-003 Date Collected: 07/16/03 00:00
Client Sample ID: PAM1-010 Matrix: Air Date Received: 07/18/03 12:14

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/23/03 11:23	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/23/03 11:23	FRW	7440-38-2		
Lead	ND	ug/m3	2.00	07/23/03 11:23	FRW	7439-92-1		
Date Digested	07/21/03			07/21/03				

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Lab Project Number: 5028836
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502607625 Project Sample Number: 5028836-004 Date Collected: 07/14/03 00:00
Client Sample ID: PAM6-008 Matrix: Air Date Received: 07/18/03 12:14

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/23/03 10:55	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/23/03 10:55	FRW	7440-38-2		
Lead	3.10	ug/m3	2.00	07/23/03 10:55	FRW	7439-92-1		
Date Digested	07/21/03			07/21/03				

Lab Sample No: 502607633 Project Sample Number: 5028836-005 Date Collected: 07/15/03 00:00
Client Sample ID: PAM6-009 Matrix: Air Date Received: 07/18/03 12:14

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/23/03 11:12	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/23/03 11:12	FRW	7440-38-2		
Lead	2.92	ug/m3	2.00	07/23/03 11:12	FRW	7439-92-1		
Date Digested	07/21/03			07/21/03				

Lab Sample No: 502607641 Project Sample Number: 5028836-006 Date Collected: 07/16/03 00:00
Client Sample ID: PAM6-010 Matrix: Air Date Received: 07/18/03 12:14

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/23/03 11:42	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/23/03 11:42	FRW	7440-38-2		
Lead	ND	ug/m3	2.00	07/23/03 11:42	FRW	7439-92-1		
Date Digested	07/21/03			07/21/03				

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Lab Project Number: 5028836
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502607658 Project Sample Number: 5028836-007 Date Collected: 07/14/03 00:00
Client Sample ID: PAM9-008 Matrix: Air Date Received: 07/18/03 12:14

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/23/03 11:01	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/23/03 11:01	FRW	7440-38-2		
Lead	5.99	ug/m3	2.00	07/23/03 11:01	FRW	7439-92-1		
Date Digested	07/21/03			07/21/03				

Lab Sample No: 502607666 Project Sample Number: 5028836-008 Date Collected: 07/15/03 00:00
Client Sample ID: PAM9-009 Matrix: Air Date Received: 07/18/03 12:14

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/23/03 11:18	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/23/03 11:18	FRW	7440-38-2		
Lead	ND	ug/m3	2.00	07/23/03 11:18	FRW	7439-92-1		
Date Digested	07/21/03			07/21/03				

Lab Sample No: 502607674 Project Sample Number: 5028836-009 Date Collected: 07/16/03 00:00
Client Sample ID: PAM9-010 Matrix: Air Date Received: 07/18/03 12:14

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/23/03 11:47	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/23/03 11:47	FRW	7440-38-2		
Lead	ND	ug/m3	2.00	07/23/03 11:47	FRW	7439-92-1		
Date Digested	07/21/03			07/21/03				

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Lab Project Number: 5028836
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502607682 Project Sample Number: 5028836-010 Date Collected: 07/16/03 00:00
Client Sample ID: PAM-FB-003 Matrix: Air Date Received: 07/18/03 12:14

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/23/03 11:53	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/23/03 11:53	FRW	7440-38-2		
Lead	ND	ug/m3	2.00	07/23/03 11:53	FRW	7439-92-1		
Date Digested	07/21/03			07/21/03				

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7726 Moller Road
Indianapolis, IN 46268
Phone: 317.875.5894
Fax: 317.872.6189

Lab Project Number: 5028836
Client Project ID: RSR OU5/TX - 3D959

PARAMETER FOOTNOTES

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit

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QUALITY CONTROL DATA

Lab Project Number: 5028836
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 55275 Analysis Method: NIOSH 7300
QC Batch Method: Analysis Description: Elements in Air Niosh 7300
Associated Lab Samples: 502607575 502607583 502607617 502607625 502607633 502607641 502607658 502607666 502607674 502607682

METHOD BLANK: 502611080
Associated Lab Samples: 502607575 502607583 502607617 502607625 502607633 502607641 502607658 502607666 502607674 502607682

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Antimony	ug/m3	ND	2.00	
Arsenic	ug/m3	ND	2.00	
Lead	ug/m3	ND	2.00	

LABORATORY CONTROL SAMPLE & LCSD: 502611106 502611114

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	RPD	Footnotes
Antimony	mg/l	5.000	4.824	4.816	96	96	0	
Arsenic	mg/l	5.000	5.241	5.254	105	105	0	
Lead	mg/l	5.000	4.968	4.965	99	99	0	

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Lab Project Number: 5028836
Client Project ID: RSR OU5/TX - 3D959

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference

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CHAIN OF CUSTODY RECORD - AIR

ENTACT
environmental tactics in waste management

4040 W. Royal Lane #136 • I[redacted] Texas 75063
972.580.1323 • Fax 972.550.7464

PROJECT NAME/LOCATION DALLAS, TX
PROJECT NUMBER 3D95[redacted]
PROJECT MANAGER P. M[redacted]ALO
LABORATORY PACE
50288316

SAMPLED BY | **ANALYSES** | **TURN AROUND TIME**

(PRINT NAME) KIRK GATES
SIGNATURE Kirk Gates

PRIORITY RUSH 24 HR ☐
PRIORITY 3 DAY ☒
STANDARD ☐

2003 DATE	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	Sb	As	Pb				COMMENTS
7/14		PAM 1-008	PAM #1	AIR	2.290	1374.0	X	X	X				5026075 75
7/15		PAM 1-009	↓	↓	2.235	1337.2	↓	↓	↓				5026075 83
7/16		PAM 1-010	↓	↓	2.362	1417.2	↓	↓	↓				5026076 17
7/14		PAM 6-008	PAM #6	↓	2.214	1328.4	↓	↓	↓				5026076 25
7/15		PAM 6-009	↓	↓	2.125	1232.9	↓	↓	↓				5026076 33
7/16		PAM 6-010	↓	↓	1.838	891.43	↓	↓	↓				5026076 41
7/14		PAM 9-008	PAM #9	↓	2.034	1220.1	↓	↓	↓				5026076 58
7/15		PAM 9-009	↓	↓	2.062	1236.0	↓	↓	↓				5026076 66
7/16		PAM 9-010	↓	↓	2.066	1239.6	↓	↓	↓				5026076 74
7/16		PAM-FB-003	—	AIR	—	—	X	X	X				5026076 82

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	7/17/03	10:30			7.18.03	12:14	[signature]

METHOD OF SHIPMENT FedEx 8357 8903 4980

REMARKS:

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July 25, 2003

Ms. Jenny Elste
Entact
4040 W. Royal Ln.
Suite 136
Irving, TX 75038

RE: Lab Project Number: 5028886
Client Project ID: RSR OU5/TX - 3D959

Dear Ms. Elste:

Enclosed are the analytical results for sample(s) received by the laboratory on July 22, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Jill Riddle

Jill Riddle
jill.riddle@pacelabs.com
Project Manager

Enclosures

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July 29, 2003

Case Narrative- Project Review
Project 5028886 (Entact)

Sample Receiving

No discrepancies were noted concerning sample receipt or sample transfer.

Elements in air- NIOSH 7300

All quality control indicators for this project (method blank and LCS results) are within laboratory acceptance limits.

I have reviewed the data from this project and have found all other discrepancies to be sufficiently covered in the footnotes in the sample results section and the quality control section of the final report.

Tim Harrison
Quality Assurance Officer
Pace Analytical Services

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Lab Project Number: 5028886
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502614696 Project Sample Number: 5028886-001 Date Collected: 07/17/03 00:00
Client Sample ID: PAM1-011 Matrix: Air Date Received: 07/22/03 10:18

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/25/03 12:46	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/25/03 12:46	FRW	7440-38-2		
Lead	ND	ug/m3	2.00	07/25/03 12:46	FRW	7439-92-1		
Date Digested	07/24/03			07/24/03				

Lab Sample No: 502614704 Project Sample Number: 5028886-002 Date Collected: 07/17/03 00:00
Client Sample ID: PAM6-011 Matrix: Air Date Received: 07/22/03 10:18

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/25/03 12:52	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/25/03 12:52	FRW	7440-38-2		
Lead	ND	ug/m3	2.00	07/25/03 12:52	FRW	7439-92-1		
Date Digested	07/24/03			07/24/03				

Lab Sample No: 502614712 Project Sample Number: 5028886-003 Date Collected: 07/17/03 00:00
Client Sample ID: PAM9-011 Matrix: Air Date Received: 07/22/03 10:18

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/25/03 12:58	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/25/03 12:58	FRW	7440-38-2		
Lead	ND	ug/m3	2.00	07/25/03 12:58	FRW	7439-92-1		
Date Digested	07/24/03			07/24/03				

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Lab Project Number: 5028886
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502614720 Project Sample Number: 5028886-004 Date Collected: 07/18/03 00:00
Client Sample ID: PAM1-012 Matrix: Air Date Received: 07/22/03 10:18

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/25/03 13:03	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/25/03 13:03	FRW	7440-38-2		
Lead	ND	ug/m3	2.00	07/25/03 13:03	FRW	7439-92-1		
Date Digested	07/24/03			07/24/03				

Lab Sample No: 502614738 Project Sample Number: 5028886-005 Date Collected: 07/18/03 00:00
Client Sample ID: PAM6-012 Matrix: Air Date Received: 07/22/03 10:18

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/25/03 13:09	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/25/03 13:09	FRW	7440-38-2		
Lead	2.56	ug/m3	2.00	07/25/03 13:09	FRW	7439-92-1		
Date Digested	07/24/03			07/24/03				

Lab Sample No: 502614746 Project Sample Number: 5028886-006 Date Collected: 07/18/03 00:00
Client Sample ID: PAM9-012 Matrix: Air Date Received: 07/22/03 10:18

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/25/03 13:15	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/25/03 13:15	FRW	7440-38-2		
Lead	ND	ug/m3	2.00	07/25/03 13:15	FRW	7439-92-1		
Date Digested	07/24/03			07/24/03				

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Lab Project Number: 5028886
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502614753 Project Sample Number: 5028886-007 Date Collected: 07/18/03 00:00
Client Sample ID: PAM-FB-004 Matrix: Air Date Received: 07/22/03 10:18

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	07/25/03 13:20	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	07/25/03 13:20	FRW	7440-38-2		
Lead	ND	ug/m3	2.00	07/25/03 13:20	FRW	7439-92-1		
Date Digested	07/24/03			07/24/03				

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Fax: 317.872.6189

Lab Project Number: 5028886
Client Project ID: RSR OU5/TX - 3D959

PARAMETER FOOTNOTES

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit

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QUALITY CONTROL DATA

Lab Project Number: 5028886
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 55493 Analysis Method: NIOSH 7300
QC Batch Method: Analysis Description: Elements in Air Niosh 7300
Associated Lab Samples: 502614696 502614704 502614712 502614720 502614738 502614746 502614753

METHOD BLANK: 502621964
Associated Lab Samples: 502614696 502614704 502614712 502614720 502614738 502614746 502614753

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Antimony	ug/m3	ND	2.00	
Arsenic	ug/m3	ND	2.00	
Lead	ug/m3	ND	2.00	

LABORATORY CONTROL SAMPLE & LCSD: 502621972 502621980

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	RPD	Footnotes
Antimony	mg/l	5.000	4.900	4.904	98	98	0	
Arsenic	mg/l	5.000	5.076	5.016	102	100	1	
Lead	mg/l	5.000	4.951	4.900	99	98	1	

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Lab Project Number: 5028886
Client Project ID: RSR OU5/TX - 3D959

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference

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CHAIN OF CUSTODY RECORD - AIR

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972.580.1323 • Fax 972.550.7464

PROJECT NAME/LOCATION DALLAS, TX
PROJECT NUMBER 30959
PROJECT MANAGER P. McDONALD
LABORATORY PACE

5028886

SAMPLED BY

KIRK GATES (PRINT NAME)

Kirk Gates SIGNATURE

ANALYSES

TURN AROUND TIME

- PRIORITY RUSH 24 HR ☐
- PRIORITY 3 DAY ☒
- STANDARD ☐

DATE (2003)	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	PB	Cr	Sb			COMMENTS
7/17		PAM1-011	#1	AIR	2.370	1315.35	X	X	X			5026146696
7/17		PAM6-011	#6		2.215	1329.0						5026146704
7/17		PAM9-011	#9		2.110	1171.05						5026146712
7/18		PAM1-012	#1		2.355	1413						5026146720
7/18		PAM6-012	#6		2.204	1366.2						5026146738
7/18		PAM9-012	#9		2.013	1248.06						5026146746
7/18		PAM-FB-004	—									5026146753

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	7/21/03	15:10			7-22-03	10:18	

METHOD OF SHIPMENT

REMARKS:

FEDEX 8367 8013 4970

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August 01, 2003

Ms. Jenny Elste
Entact
4040 W. Royal Ln.
Suite 136
Irving, TX 75038

RE: Lab Project Number: 5029040
Client Project ID: RSR OU5/TX - 3D959

Dear Ms. Elste:

Enclosed are the analytical results for sample(s) received by the laboratory on July 29, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Jill Riddle

Jill Riddle
jill.riddle@pacelabs.com
Project Manager

Enclosures

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August 1, 2003

Case Narrative- Project Review
Project 5029040 (Entact)

Sample Receiving

No discrepancies were noted concerning sample receipt or sample transfer.

Elements in air- NIOSH 7300

All quality control indicators for this project (method blank and LCS results) are within laboratory acceptance limits.

I have reviewed the data from this project and have found all other discrepancies to be sufficiently covered in the footnotes in the sample results section and the quality control section of the final report.

Tim Harrison

Tim Harrison
Quality Assurance Officer
Pace Analytical Services

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Lab Project Number: 5029040
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502632987 Project Sample Number: 5029040-001 Date Collected: 07/23/03 00:00
Client Sample ID: PAM1-015 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	08/01/03 12:42	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	08/01/03 12:42	FRW	7440-38-2		
Lead	ND	ug/m3	2.00	08/01/03 12:42	FRW	7439-92-1		
Date Digested	08/01/03			08/01/03				

Lab Sample No: 502632995 Project Sample Number: 5029040-002 Date Collected: 07/23/03 00:00
Client Sample ID: PAM4-015 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	08/01/03 12:48	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	08/01/03 12:48	FRW	7440-38-2		
Lead	ND	ug/m3	2.00	08/01/03 12:48	FRW	7439-92-1		
Date Digested	08/01/03			08/01/03				

Lab Sample No: 502633001 Project Sample Number: 5029040-003 Date Collected: 07/23/03 00:00
Client Sample ID: PAM9-015 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	08/01/03 12:54	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	08/01/03 12:54	FRW	7440-38-2		
Lead	ND	ug/m3	2.00	08/01/03 12:54	FRW	7439-92-1		
Date Digested	08/01/03			08/01/03				

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Lab Project Number: 5029040
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502633027 Project Sample Number: 5029040-004 Date Collected: 07/24/03 00:00
Client Sample ID: PAM1-016 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	08/01/03 12:59	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	08/01/03 12:59	FRW	7440-38-2		
Lead	ND	ug/m3	2.00	08/01/03 12:59	FRW	7439-92-1		
Date Digested	08/01/03			08/01/03				

Lab Sample No: 502633043 Project Sample Number: 5029040-005 Date Collected: 07/24/03 00:00
Client Sample ID: PAM4-016 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	08/01/03 13:05	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	08/01/03 13:05	FRW	7440-38-2		
Lead	ND	ug/m3	2.00	08/01/03 13:05	FRW	7439-92-1		
Date Digested	08/01/03			08/01/03				

Lab Sample No: 502633084 Project Sample Number: 5029040-006 Date Collected: 07/24/03 00:00
Client Sample ID: PAM9-016 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	08/01/03 13:11	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	08/01/03 13:11	FRW	7440-38-2		
Lead	ND	ug/m3	2.00	08/01/03 13:11	FRW	7439-92-1		
Date Digested	08/01/03			08/01/03				

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Fax: 317.872.6189

Lab Project Number: 5029040
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502633092 Project Sample Number: 5029040-007 Date Collected: 07/25/03 00:00
Client Sample ID: PAM1-017 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	08/01/03 13:48	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	08/01/03 13:48	FRW	7440-38-2		
Lead	ND	ug/m3	2.00	08/01/03 13:48	FRW	7439-92-1		
Date Digested	08/01/03			08/01/03				

Lab Sample No: 502633118 Project Sample Number: 5029040-008 Date Collected: 07/25/03 00:00
Client Sample ID: PAM4-017 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	08/01/03 13:53	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	08/01/03 13:53	FRW	7440-38-2		
Lead	ND	ug/m3	2.00	08/01/03 13:53	FRW	7439-92-1		
Date Digested	08/01/03			08/01/03				

Lab Sample No: 502633126 Project Sample Number: 5029040-009 Date Collected: 07/25/03 00:00
Client Sample ID: PAM9-017 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	08/01/03 13:59	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	08/01/03 13:59	FRW	7440-38-2		
Lead	ND	ug/m3	2.00	08/01/03 13:59	FRW	7439-92-1		
Date Digested	08/01/03			08/01/03				

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Lab Project Number: 5029040
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502633134 Project Sample Number: 5029040-010 Date Collected: 07/25/03 00:00
Client Sample ID: PAM-FB-006 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Antimony	ND	ug/m3	2.00	08/01/03 14:05	FRW	7440-36-0		
Arsenic	ND	ug/m3	2.00	08/01/03 14:05	FRW	7440-38-2		
Lead	ND	ug/m3	2.00	08/01/03 14:05	FRW	7439-92-1		
Date Digested	08/01/03			08/01/03				

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Lab Project Number: 5029040
Client Project ID: RSR OU5/TX - 3D959

PARAMETER FOOTNOTES

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit

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QUALITY CONTROL DATA

Lab Project Number: 5029040
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 55862
QC Batch Method:
Analysis Method: NIOSH 7300
Analysis Description: Elements in Air Niosh 7300
Associated Lab Samples: 502632987 502632995 502633001 502633027 502633043 502633084 502633092 502633118 502633126 502633134

METHOD BLANK: 502644883
Associated Lab Samples: 502632987 502632995 502633001 502633027 502633043 502633084 502633092 502633118 502633126 502633134

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Antimony	ug/m3	ND	2.00	
Arsenic	ug/m3	ND	2.00	
Lead	ug/m3	ND	2.00	

LABORATORY CONTROL SAMPLE & LCSD: 502644891 502644909

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	RPD	Footnotes
Antimony	mg/l	5.000	4.819	4.842	96	97	0	
Arsenic	mg/l	5.000	4.754	4.722	95	94	1	
Lead	mg/l	5.000	4.658	4.661	93	93	0	

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Lab Project Number: 5029040
Client Project ID: RSR OU5/TX - 3D959

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference

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CHAIN OF CUSTODY RECORD - AIR

ENTACT
environmental tactics in waste management
4040 W. Royal Lane #136 • Irving, Texas 75063
972.580.1323 • Fax 972.550.7464

PROJECT NAME/LOCATION [illegible]
PROJECT NUMBER 3D959
PROJECT MANAGER P. McDonald
LABORATORY PACE
5029040

SAMPLED BY

Kirk Gates (PRINT NAME)
Kirk Gates SIGNATURE

ANALYSES

TURN AROUND TIME

PRIORITY RUSH 24 HR ☐
PRIORITY 3 DAY ☒
STANDARD ☐

2003 DATE	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	Pb	As	Se				COMMENTS
7/23		PAM 1-015	PAM 1	AIR	2.416	1377.12	X	X	X				5026032987
7/23		PAM 4-015	PAM 4		1.806	921.31							5026032995
7/23		PAM 9-015	PAM 9		2.068	1179.04							5026033001
7/24		PAM 1-016	PAM 1		2.364	1382.9							5026033027
7/24		PAM 4-016	PAM 4		1.907	1115.59							5026033043
7/24		PAM 9-016	PAM 9		2.009	1175.26							5026033084
7/25		PAM 1-017	PAM 1		2.352	1340.6							5026033092
7/25		PAM 4-017	PAM 4		1.777	1012.9							5026033118
7/25		PAM 9-017	PAM 9		2.023	1153.1							5026033126
7/25		PAM-FB-006	—		—	—							5026033134

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	7/28/03	10:00	Jim Riddle 7-29-03 10:40				

METHOD OF SHIPMENT
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August 07, 2003

Ms. Jenny Elste
Entact
4040 W. Royal Ln.
Suite 136
Irving, TX 75038

RE: Lab Project Number: 5029189
Client Project ID: RSR OU5/TX - 3D959

Dear Ms. Elste:

Enclosed are the analytical results for sample(s) received by the laboratory on August 4, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Cheryl Crum for

Jill Riddle
jill.riddle@pacelabs.com
Project Manager

Enclosures

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August 14, 2003

Case Narrative- Project Review
Project 5029189 (Entact)

Sample Receiving

No discrepancies were noted concerning sample receipt or sample transfer.

Elements in air- NIOSH 7300

All quality control indicators for this project (method blank and LCS results) are within laboratory acceptance limits.

I have reviewed the data from this project and have found all other discrepancies to be sufficiently covered in the footnotes in the sample results section and the quality control section of the final report.

Tim Harrison

Tim Harrison
Quality Manager
Pace Analytical Services

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Lab Project Number: 5029189
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502651623 Project Sample Number: 5029189-001 Date Collected: 07/30/03 00:00
Client Sample ID: PAM1-019 Matrix: Air Date Received: 08/04/03 08:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method: / NIOSH 7300							
Lead	ND	ug/m3	2.00	08/07/03 11:50	FRW	7439-92-1		
Date Digested	08/06/03			08/06/03				

Lab Sample No: 502651672 Project Sample Number: 5029189-002 Date Collected: 07/30/03 00:00
Client Sample ID: PAM9-018 Matrix: Air Date Received: 08/04/03 08:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method: / NIOSH 7300							
Lead	ND	ug/m3	2.00	08/07/03 11:56	FRW	7439-92-1	1	
Date Digested	08/06/03			08/06/03				

Lab Sample No: 502651680 Project Sample Number: 5029189-003 Date Collected: 07/29/03 00:00
Client Sample ID: PAM1-018 Matrix: Air Date Received: 08/04/03 08:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method: / NIOSH 7300							
Lead	ND	ug/m3	2.00	08/07/03 11:44	FRW	7439-92-1		
Date Digested	08/06/03			08/06/03				

Lab Sample No: 502651698 Project Sample Number: 5029189-004 Date Collected: 07/31/03 00:00
Client Sample ID: PAM1-020 Matrix: Air Date Received: 08/04/03 08:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method: / NIOSH 7300							
Lead	ND	ug/m3	2.00	08/07/03 12:01	FRW	7439-92-1		
Date Digested	08/06/03			08/06/03				

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Lab Project Number: 5029189
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502651706 Project Sample Number: 5029189-005 Date Collected: 07/31/03 00:00
Client Sample ID: PAM4-018 Matrix: Air Date Received: 08/04/03 08:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Lead	ND	ug/m3	2.00	08/07/03 12:07	FRW	7439-92-1		
Date Digested	08/06/03			08/06/03				

Lab Sample No: 502651714 Project Sample Number: 5029189-006 Date Collected: 07/31/03 00:00
Client Sample ID: PAM9-019 Matrix: Air Date Received: 08/04/03 08:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Lead	ND	ug/m3	2.00	08/07/03 12:13	FRW	7439-92-1		
Date Digested	08/06/03			08/06/03				

Lab Sample No: 502651722 Project Sample Number: 5029189-007 Date Collected: 08/01/03 00:00
Client Sample ID: PAM1-021 Matrix: Air Date Received: 08/04/03 08:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Lead	ND	ug/m3	2.00	08/07/03 12:18	FRW	7439-92-1		
Date Digested	08/06/03			08/06/03				

Lab Sample No: 502651730 Project Sample Number: 5029189-008 Date Collected: 08/01/03 00:00
Client Sample ID: PAM4-019 Matrix: Air Date Received: 08/04/03 08:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Lead	ND	ug/m3	2.00	08/07/03 12:37	FRW	7439-92-1		
Date Digested	08/06/03			08/06/03				

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Lab Project Number: 5029189
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502651748 Project Sample Number: 5029189-009 Date Collected: 08/01/03 00:00
Client Sample ID: PAM9-020 Matrix: Air Date Received: 08/04/03 08:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Lead	ND	ug/m3	2.00	08/07/03 12:42	FRW	7439-92-1		
Date Digested	08/06/03			08/06/03				

Lab Sample No: 502651755 Project Sample Number: 5029189-010 Date Collected: 08/01/03 00:00
Client Sample ID: PAM-FB-007 Matrix: Air Date Received: 08/04/03 08:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Lead	ND	ug/m3	2.00	08/07/03 12:48	FRW	7439-92-1		
Date Digested	08/06/03			08/06/03				

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Lab Project Number: 5029189
Client Project ID: RSR OU5/TX - 3D959

PARAMETER FOOTNOTES

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
[1]	Sample was collected on support pad rather than the filter.

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QUALITY CONTROL DATA

Lab Project Number: 5029189
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 56069 Analysis Method: NIOSH 7300
QC Batch Method: Analysis Description: Elements in Air Niosh 7300
Associated Lab Samples: 502651623 502651672 502651680 502651698 502651706 502651714 502651722 502651730 502651748 502651755

METHOD BLANK: 502655947
Associated Lab Samples: 502651623 502651672 502651680 502651698 502651706 502651714 502651722 502651730 502651748 502651755

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Lead	ug/m3	ND	2.00	

LABORATORY CONTROL SAMPLE & LCSD: 502657760 502657778

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	RPD	Footnotes
Lead	mg/l	5.000	4.832	4.797	97	96	1	

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Lab Project Number: 5029189
Client Project ID: RSR OU5/TX - 3D959

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference

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CHAIN OF CUSTODY RECORD - AIR

ENTACT
environmental tactics in waste management

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972.580.1323 • Fax 972.550.7464

PROJECT NAME/LOCATION [redacted] TX
PROJECT NUMBER 3D[redacted]
PROJECT MANAGER P. McGinnis
LABORATORY PACE

5029189

SAMPLED BY

KIRK GATES (PRINT NAME)

Kirk Gates SIGNATURE

ANALYSES

TURN AROUND TIME

PRIORITY RUSH 24 HR ☐
PRIORITY 3 DAY ☒
STANDARD ☐

2003 DATE	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	Pb	COMMENTS
7/30		PAM1-019	PAM 1	AIR	2.298	1240.9	X	5026516 23
7/30		PAM9-018	PAM 9		1.966	1002.7		1672
7/29		PAM1-018	PAM 1		2.280	1026		1680
7/31		PAM1-020	PAM 1		2.272	1295		1698
7/31		PAM4-018	PAM 4		1.811	1032.5		1706
7/31		PAM9-019	PAM 9		1.930	1100.1		1714
8/1		PAM1-021	PAM 1		2.248	1281.6		1722
8/1		PAM4-019	PAM 4		1.797	1024.6		1730
8/1		PAM9-020	PAM 9		1.999	1139.7		1748
8/1		PAM-FB-007	—		—	—		1755

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	8-1-03	17:10	Jill Riddle 8/4/03 8:40				

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August 07, 2003

Ms. Jenny Elste
Entact
4040 W. Royal Ln.
Suite 136
Irving, TX 75038

RE: Lab Project Number: 5029223
Client Project ID: RSR OU5/TX - 3D959

Dear Ms. Elste:

Enclosed are the analytical results for sample(s) received by the laboratory on August 6, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Cheryl Crum

Jill Riddle
jill.riddle@pacelabs.com
Project Manager

Enclosures

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August 14, 2003

Case Narrative- Project Review
Project 5029223 (Entact)

Sample Receiving

No discrepancies were noted concerning sample receipt or sample transfer.

Elements in air- NIOSH 7300

All quality control indicators for this project (method blank and LCS results) are within laboratory acceptance limits.

I have reviewed the data from this project and have found all other discrepancies to be sufficiently covered in the footnotes in the sample results section and the quality control section of the final report.

Tim Harrison
Quality Manager
Pace Analytical Services

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Lab Project Number: 5029223
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502655913 Project Sample Number: 5029223-001 Date Collected: 08/04/03 00:00
Client Sample ID: PAM1-022 Matrix: Air Date Received: 08/06/03 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method: / NIOSH 7300							
Lead	ND	ug/m3	2.00	08/07/03 12:54	FRW	7439-92-1		
Date Digested	08/06/03			08/06/03				

Lab Sample No: 502655921 Project Sample Number: 5029223-002 Date Collected: 08/04/03 00:00
Client Sample ID: PAM4-020 Matrix: Air Date Received: 08/06/03 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method: / NIOSH 7300							
Lead	2.65	ug/m3	2.00	08/07/03 12:59	FRW	7439-92-1		
Date Digested	08/06/03			08/06/03				

Lab Sample No: 502655939 Project Sample Number: 5029223-003 Date Collected: 08/04/03 00:0
Client Sample ID: PAM9-021 Matrix: Air Date Received: 08/06/03 10:0

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method: / NIOSH 7300							
Lead	ND	ug/m3	2.00	08/07/03 13:05	FRW	7439-92-1		
Date Digested	08/06/03			08/06/03				

Lab Sample No: 502655962 Project Sample Number: 5029223-004 Date Collected: 08/05/03 00:00
Client Sample ID: PAM1-023 Matrix: Air Date Received: 08/06/03 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method: / NIOSH 7300							
Lead	15.8	ug/m3	2.00	08/07/03 13:10	FRW	7439-92-1		
Date Digested	08/06/03			08/06/03				

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Phone: 317.875.5894
Fax: 317.872.6189

Lab Project Number: 5029223
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502655970 Project Sample Number: 5029223-005 Date Collected: 08/05/03 00:00
Client Sample ID: PAM4-021 Matrix: Air Date Received: 08/06/03 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Lead	ND	ug/m3	2.00	08/07/03 13:16	FRW	7439-92-1		
Date Digested	08/06/03			08/06/03				

Lab Sample No: 502655988 Project Sample Number: 5029223-006 Date Collected: 08/05/03 00:00
Client Sample ID: PAM9-022 Matrix: Air Date Received: 08/06/03 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Lead	20.6	ug/m3	2.00	08/07/03 13:22	FRW	7439-92-1		
Date Digested	08/06/03			08/06/03				

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Lab Project Number: 5029223
Client Project ID: RSR OU5/TX - 3D959

PARAMETER FOOTNOTES

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit

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QUALITY CONTROL DATA

Lab Project Number: 5029223
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 56069 Analysis Method: NIOSH 7300
QC Batch Method: Analysis Description: Elements in Air Niosh 7300
Associated Lab Samples: 502655913 502655921 502655939 502655962 502655970 502655988

METHOD BLANK: 502655947
Associated Lab Samples: 502655913 502655921 502655939 502655962 502655970 502655988

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Lead	ug/m3	ND	2.00	

LABORATORY CONTROL SAMPLE & LCSD: 502657760 502657778

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	RPD	Footnotes
Lead	mg/l	5.000	4.832	4.797	97	96	1	

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Lab Project Number: 5029223
Client Project ID: RSR OU5/TX - 3D959

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference

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ENTACT
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CHAIN OF CUSTODY RECORD - AIR

4040 W. Royal Lane #136 • [redacted]g, Texas 75063
972.580.1323 • Fax 972.550.7464

5029823

PROJECT NAME/LOCATION [redacted] / TX
PROJECT NUMBER 3D[redacted]
PROJECT MANAGER P.M. [redacted]
LABORATORY PACE

SAMPLED BY

Kirk Gates (PRINT NAME)

Kirk Gates SIGNATURE

ANALYSES

TURN AROUND TIME

PRIORITY RUSH 24 HR ☐
PRIORITY 3 DAY ☒
STANDARD ☐

DATE	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	Pb	COMMENTS
8/4		PAM1-022	PAM 1	AIR	2.254	1318.9	X	502655913
8/4		PAM4-020	PAM 4		1.743	1019.6		921
8/4		PAM9-021	PAM 9		2.063	1052.1		939
8/5		PAM1-023	PAM 1		2.293	1444.6		962
8/5		PAM4-021	PAM 4		1.752	1051.2		970
8/5		PAM9-022	PAM 9		1.993	1255.3		988

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	8-5-03	17:35	M. Wagner / Pace 8-6-03 1000				

METHOD OF SHIPMENT

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August 15, 2003

Ms. Jenny Elste
Entact
4040 W. Royal Ln.
Suite 136
Irving, TX 75038

RE: Lab Project Number: 5029320
Client Project ID: RSR OU5/TX - 3D959

Dear Ms. Elste:

Enclosed are the analytical results for sample(s) received by the laboratory on August 11, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Jill Riddle

Jill Riddle
jill.riddle@pacelabs.com
Project Manager

Enclosures

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August 15, 2003

Case Narrative- Project Review
Project 5029320 (Entact)

Sample Receiving

No discrepancies were noted concerning sample receipt or sample transfer.

Elements in air- NIOSH 7300

All quality control indicators for this project (method blank and LCS results) are within laboratory acceptance limits.

I have reviewed the data from this project and have found all other discrepancies to be sufficiently covered in the footnotes in the sample results section and the quality control section of the final report.

Tim Harrison
Quality Manager
Pace Analytical Services

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Lab Project Number: 5029320
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502667801 Project Sample Number: 5029320-001 Date Collected: 08/06/03 00:00
Client Sample ID: PAM1-024 Matrix: Air Date Received: 08/11/03 13:17

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method: / NIOSH 7300							
Lead	4.90	ug/m3	2.00	08/14/03 11:35	FRW	7439-92-1		
Date Digested	08/13/03			08/13/03				

Lab Sample No: 502667819 Project Sample Number: 5029320-002 Date Collected: 08/06/03 00:00
Client Sample ID: PAM4-022 Matrix: Air Date Received: 08/11/03 13:17

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method: / NIOSH 7300							
Lead	2.39	ug/m3	2.00	08/14/03 11:40	FRW	7439-92-1		
Date Digested	08/13/03			08/13/03				

Lab Sample No: 502667827 Project Sample Number: 5029320-003 Date Collected: 08/06/03 00:00
Client Sample ID: PAM9-023 Matrix: Air Date Received: 08/11/03 13:17

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method: / NIOSH 7300							
Lead	ND	ug/m3	2.00	08/14/03 11:46	FRW	7439-92-1		
Date Digested	08/13/03			08/13/03				

Lab Sample No: 502667835 Project Sample Number: 5029320-004 Date Collected: 08/07/03 00:00
Client Sample ID: PAM1-025 Matrix: Air Date Received: 08/11/03 13:17

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method: / NIOSH 7300							
Lead	ND	ug/m3	2.00	08/14/03 11:52	FRW	7439-92-1		
Date Digested	08/13/03			08/13/03				

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Lab Project Number: 5029320
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502667843 Project Sample Number: 5029320-005 Date Collected: 08/07/03 00:00
Client Sample ID: PAM4-023 Matrix: Air Date Received: 08/11/03 13:17

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method: / NIOSH 7300							
Lead	ND	ug/m3	2.00	08/14/03 11:58	FRW	7439-92-1		
Date Digested	08/13/03			08/13/03				

Lab Sample No: 502667892 Project Sample Number: 5029320-006 Date Collected: 08/07/03 00:00
Client Sample ID: PAM9-024 Matrix: Air Date Received: 08/11/03 13:17

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method: / NIOSH 7300							
Lead	ND	ug/m3	2.00	08/14/03 12:03	FRW	7439-92-1		
Date Digested	08/13/03			08/13/03				

Lab Sample No: 502667900 Project Sample Number: 5029320-007 Date Collected: 08/08/03 00:00
Client Sample ID: PAM1-026 Matrix: Air Date Received: 08/11/03 13:17

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method: / NIOSH 7300							
Lead	ND	ug/m3	2.00	08/14/03 12:09	FRW	7439-92-1		
Date Digested	08/13/03			08/13/03				

Lab Sample No: 502667918 Project Sample Number: 5029320-008 Date Collected: 08/08/03 00:00
Client Sample ID: PAM4-024 Matrix: Air Date Received: 08/11/03 13:17

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method: / NIOSH 7300							
Lead	3.04	ug/m3	2.00	08/14/03 12:26	FRW	7439-92-1		
Date Digested	08/13/03			08/13/03				

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Lab Project Number: 5029320
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502667926 Project Sample Number: 5029320-009 Date Collected: 08/08/03 00:00
Client Sample ID: PAM9-025 Matrix: Air Date Received: 08/11/03 13:17

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Lead	ND	ug/m3	2.00	08/14/03 12:32	FRW	7439-92-1		
Date Digested	08/13/03			08/13/03				

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Lab Project Number: 5029320
Client Project ID: RSR OU5/TX - 3D959

PARAMETER FOOTNOTES

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit

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QUALITY CONTROL DATA

Lab Project Number: 5029320
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 56471 Analysis Method: NIOSH 7300
QC Batch Method: Analysis Description: Elements in Air Niosh 7300
Associated Lab Samples: 502667801 502667819 502667827 502667835 502667843 502667892 502667900 502667918 502667926

METHOD BLANK: 502676430
Associated Lab Samples: 502667801 502667819 502667827 502667835 502667843 502667892 502667900 502667918 502667926

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Lead	ug/m3	ND	2.00	

LABORATORY CONTROL SAMPLE & LCSD: 502676448 502676455

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	RPD	Footnotes
Lead	mg/l	5.000	4.807	4.808	96	96	0	

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Lab Project Number: 5029320
Client Project ID: RSR OU5/TX - 3D959

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference

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CHAIN OF CUSTODY RECORD - AIR

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972.580.1323 • Fax 972.550.7464

PROJECT NAME/LOCATION RSR 045 / Tx
PROJECT NUMBER 3D959
PROJECT MANAGER P. McDonald
LABORATORY PACE

5029320

SAMPLED BY

Kirk Gates (PRINT NAME)

Kirk Gates SIGNATURE

ANALYSES

TURN AROUND TIME

- PRIORITY RUSH 24 HR ☐
- PRIORITY 3 DAY ☒
- STANDARD ☐

203 DATE	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	Pb	COMMENTS
8/6		PAM1-024	PAM1	AIR	2.230	1271.1	X	5026667801
8/6		PAM4-022	PAM4		1.666	949.6		7819
8/6		PAM9-023	PAM9		2.005	1143.1		7827
8/7		PAM1-025	PAM1		1.954	1172.4		7835
8/7		PAM4-023	PAM4		1.656	943.9		7843
8/7		PAM9-024	PAM9		1.874	1124.1		7892
8/8		PAM1-026	PAM1		2.201	1122.5		7900
8/8		PAM4-024	PAM4		1.727	880.8		7918
8/8		PAM9-025	PAM9		1.902	970.0		7926

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	8-8-03	14:30	Jill Riddle 8-11-03 13:17				

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August 18, 2003

Ms. Jenny Elste
Entact
4040 W. Royal Ln.
Suite 136
Irving, TX 75038

RE: Lab Project Number: 5029361
Client Project ID: RSR OU5/TX - 3D959

Dear Ms. Elste:

Enclosed are the analytical results for sample(s) received by the laboratory on August 13, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Jill Riddle

Jill Riddle
jill.riddle@pacelabs.com
Project Manager

Enclosures

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August 19, 2003

Case Narrative- Project Review
Project 5029361 (Entact)

Sample Receiving

No discrepancies were noted concerning sample receipt or sample transfer.

Elements in air- NIOSH 7300

All quality control indicators for this project (method blank and LCS results) are within laboratory acceptance limits.

I have reviewed the data from this project and have found all other discrepancies to be sufficiently covered in the footnotes in the sample results section and the quality control section of the final report.

Tim Harrison

Tim Harrison
Quality Manager
Pace Analytical Services

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Lab Project Number: 5029361
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502675234 Project Sample Number: 5029361-001 Date Collected: 08/11/03 00:00
Client Sample ID: PAM1-027 Matrix: Air Date Received: 08/13/03 11:55

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method: / NIOSH 7300							
Lead	ND	ug/m3	2.00	08/17/03 23:53	FRW	7439-92-1		
Date Digested	08/15/03			08/15/03				

Lab Sample No: 502675283 Project Sample Number: 5029361-002 Date Collected: 08/11/03 00:00
Client Sample ID: PAM4-025 Matrix: Air Date Received: 08/13/03 11:55

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method: / NIOSH 7300							
Lead	2.19	ug/m3	2.00	08/17/03 23:59	FRW	7439-92-1		
Date Digested	08/15/03			08/15/03				

Lab Sample No: 502675291 Project Sample Number: 5029361-003 Date Collected: 08/11/03 00:00
Client Sample ID: PAM9-026 Matrix: Air Date Received: 08/13/03 11:55

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method: / NIOSH 7300							
Lead	ND	ug/m3	2.00	08/18/03 00:05	FRW	7439-92-1		
Date Digested	08/15/03			08/15/03				

Lab Sample No: 502675309 Project Sample Number: 5029361-004 Date Collected: 08/12/03 00:00
Client Sample ID: PAM1-028 Matrix: Air Date Received: 08/13/03 11:55

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method: / NIOSH 7300							
Lead	ND	ug/m3	2.00	08/18/03 00:11	FRW	7439-92-1		
Date Digested	08/15/03			08/15/03				

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Lab Project Number: 5029361
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502675317 Project Sample Number: 5029361-005 Date Collected: 08/12/03 00:00
Client Sample ID: PAM4-026 Matrix: Air Date Received: 08/13/03 11:55

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Lead	ND	ug/m3	2.00	08/18/03 00:16	FRW	7439-92-1		
Date Digested	08/15/03			08/15/03				

Lab Sample No: 502675325 Project Sample Number: 5029361-006 Date Collected: 08/12/03 00:00
Client Sample ID: PAM9-027 Matrix: Air Date Received: 08/13/03 11:55

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Elements in Air Niosh 7300	Prep/Method:	/ NIOSH 7300						
Lead	ND	ug/m3	2.00	08/18/03 00:33	FRW	7439-92-1		
Date Digested	08/15/03			08/15/03				

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Lab Project Number: 5029361
Client Project ID: RSR OU5/TX - 3D959

PARAMETER FOOTNOTES

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit

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QUALITY CONTROL DATA

Lab Project Number: 5029361
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 56616 Analysis Method: NIOSH 7300
QC Batch Method: Analysis Description: Elements in Air Niosh 7300
Associated Lab Samples: 502675234 502675283 502675291 502675309 502675317 502675325

METHOD BLANK: 502684343
Associated Lab Samples: 502675234 502675283 502675291 502675309 502675317 502675325

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Lead	ug/m3	ND	2.00	

LABORATORY CONTROL SAMPLE & LCSD: 502684350 502684368

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	RPD	Footnotes
Lead	mg/l	5.000	4.855	4.731	97	95	3	

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Lab Project Number: 5029361
Client Project ID: RSR OU5/TX - 3D959

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference

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ENTACT
environmental tactics in waste management

CHAIN OF CUSTODY RECORD - AIR

4040 W. Royal Lane #136 • Irving, Texas 75063
972.580.1323 • Fax 972.550.7464

PROJECT NAME/LOCATION:
PROJECT NUMBER 3D959
PROJECT MANAGER P. McDonald
LABORATORY PACE
5029361

SAMPLED BY

Kirk Gates (PRINT NAME)
Kirk Gates SIGNATURE

ANALYSES

TURN AROUND TIME

PRIORITY RUSH 24 HR ☐
PRIORITY 3 DAY ☒
STANDARD ☐

DATE (2003)	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	Pb	COMMENTS
8/11		PAM 1-027	PAM 1	Air	1.966	1150.4	X	5026675234
8/11		PAM4-025	4		1.651	965.8		5283
8/11		PAM9-026	9		1.850	1082.3		5291
8/12		PAM1-028	1		2.237	1275.1		5309
8/12		PAM4-026	4		1.554	792.5		5317
8/12		PAM9-027	9		1.978	1008.8		5325

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	8-12-03	16:45			8-13-03	11:55	

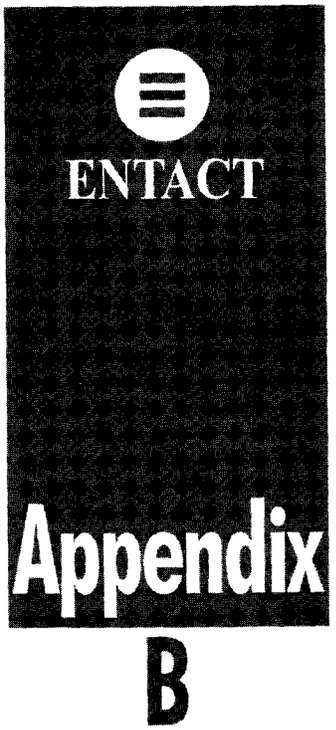
METHOD OF SHIPMENT

FedEx 7390 0750 6354

REMARKS:

PT 1 - ORIGINAL - WHITE PT 2 - LAB - YELLOW PT 3 - CUSTOMER COPY - PINK

8-14 INTACT


ENTACT
Appendix
B

Appendix B

Perimeter Air Monitoring Laboratory Analytical Reports

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Phone: 317.875.5894
Fax: 317.872.6189

July 10, 2003

Ms. Jenny Elste
Entact
4040 W. Royal Ln.
Suite 136
Irving, TX 75038

RE: Lab Project Number: 5028316
Client Project ID: RSR OU5/TX - 3D959

Dear Ms. Elste:

Enclosed are the analytical results for sample(s) received by the laboratory on June 26, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Jill Riddle

Jill Riddle
jill.riddle@pacelabs.com
Project Manager

Enclosures

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July 29, 2003

Case Narrative- Project Review
Project 5028316 (Entact)

Sample Receiving

No discrepancies were noted concerning sample receipt or sample transfer.

Metals in air- 40CFR APG.

Additional LCS results are listed in footnote #1, page 9.

All quality control indicators for this project (method blank, duplicate and LCS results) are within laboratory acceptance limits.

PM10 in air- 40CFR APJ.

All quality control indicators for this project (duplicate results) are within laboratory acceptance limits.

I have reviewed the data from this project and have found all other discrepancies to be sufficiently covered in the footnotes in the sample results section and the quality control section of the final report.

Tim Harrison

Tim Harrison
Quality Assurance Officer
Pace Analytical Services

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Fax: 317.872.6189

Lab Project Number: 5028316
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502546153 Project Sample Number: 5028316-001 Date Collected: 06/23/03 00:00
Client Sample ID: TSP5-01 Matrix: Air Date Received: 06/26/03 12:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	06/30/03 19:46	DDM	7439-92-1		
Arsenic	ND	ug/m3	0.0500	06/30/03 19:46	DDM	7440-38-2		
Antimony	ND	ug/m3	0.0500	06/30/03 19:46	DDM	7440-36-0		
Date Digested	06/30/03			06/30/03				

Lab Sample No: 502546161 Project Sample Number: 5028316-002 Date Collected: 06/24/03 00:00
Client Sample ID: TSP5-02 Matrix: Air Date Received: 06/26/03 12:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	06/30/03 19:57	DDM	7439-92-1		
Arsenic	ND	ug/m3	0.0500	06/30/03 19:57	DDM	7440-38-2		
Antimony	ND	ug/m3	0.0500	06/30/03 19:57	DDM	7440-36-0		
Date Digested	06/30/03			06/30/03				

Lab Sample No: 502546179 Project Sample Number: 5028316-003 Date Collected: 06/23/03 00:00
Client Sample ID: TSP7-01 Matrix: Air Date Received: 06/26/03 12:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	06/30/03 20:03	DDM	7439-92-1		
Arsenic	ND	ug/m3	0.0500	06/30/03 20:03	DDM	7440-38-2		
Antimony	ND	ug/m3	0.0500	06/30/03 20:03	DDM	7440-36-0		
Date Digested	06/30/03			06/30/03				

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Lab Project Number: 5028316
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502546187 Project Sample Number: 5028316-004 Date Collected: 06/24/03 00:00
Client Sample ID: TSP7-02 Matrix: Air Date Received: 06/26/03 12:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	0.0500	ug/m3	0.0500	06/30/03 20:09	DDM	7439-92-1		
Arsenic	ND	ug/m3	0.0500	06/30/03 20:09	DDM	7440-38-2		
Antimony	ND	ug/m3	0.0500	06/30/03 20:09	DDM	7440-36-0		
Date Digested	06/30/03			06/30/03				

Lab Sample No: 502546195 Project Sample Number: 5028316-005 Date Collected: 06/23/03 00:00
Client Sample ID: TSP9-01 Matrix: Air Date Received: 06/26/03 12:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	06/30/03 20:15	DDM	7439-92-1		
Arsenic	ND	ug/m3	0.0500	06/30/03 20:15	DDM	7440-38-2		
Antimony	ND	ug/m3	0.0500	06/30/03 20:15	DDM	7440-36-0		
Date Digested	06/30/03			06/30/03				

Lab Sample No: 502546203 Project Sample Number: 5028316-006 Date Collected: 06/24/03 00:00
Client Sample ID: TSP9-02 Matrix: Air Date Received: 06/26/03 12:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	0.0710	ug/m3	0.0500	06/30/03 20:20	DDM	7439-92-1		
Arsenic	ND	ug/m3	0.0500	06/30/03 20:20	DDM	7440-38-2		
Antimony	ND	ug/m3	0.0500	06/30/03 20:20	DDM	7440-36-0		
Date Digested	06/30/03			06/30/03				

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Lab Project Number: 5028316
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502546211 Project Sample Number: 5028316-007 Date Collected: 06/23/03 00:00
Client Sample ID: TSP10-1 Matrix: Air Date Received: 06/26/03 12:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	06/30/03 20:37	DDM	7439-92-1		
Arsenic	ND	ug/m3	0.0500	06/30/03 20:37	DDM	7440-38-2		
Antimony	ND	ug/m3	0.0500	06/30/03 20:37	DDM	7440-36-0		
Date Digested	06/30/03			06/30/03				

Lab Sample No: 502546229 Project Sample Number: 5028316-008 Date Collected: 06/24/03 00:00
Client Sample ID: TSP10-2 Matrix: Air Date Received: 06/26/03 12:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	0.0710	ug/m3	0.0500	06/30/03 20:43	DDM	7439-92-1		
Arsenic	ND	ug/m3	0.0500	06/30/03 20:43	DDM	7440-38-2		
Antimony	ND	ug/m3	0.0500	06/30/03 20:43	DDM	7440-36-0		
Date Digested	06/30/03			06/30/03				

Lab Sample No: 502546237 Project Sample Number: 5028316-009 Date Collected: 06/23/03 00:00
Client Sample ID: PM1935-01 Matrix: Air Date Received: 06/26/03 12:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	32.2	ug/m3	1.00	06/30/03	FRW			

Lab Sample No: 502546245 Project Sample Number: 5028316-010 Date Collected: 06/24/03 00:00
Client Sample ID: PM1935-02 Matrix: Air Date Received: 06/26/03 12:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	26.2	ug/m3	1.00	06/30/03	FRW			

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Lab Project Number: 5028316
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502546252 Project Sample Number: 5028316-011 Date Collected: 06/23/03 00:00
Client Sample ID: PM1958-01 Matrix: Air Date Received: 06/26/03 12:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	25.6	ug/m3	1.00	06/30/03	FRW			

Lab Sample No: 502546278 Project Sample Number: 5028316-012 Date Collected: 06/24/03 00:00
Client Sample ID: PM1958-02 Matrix: Air Date Received: 06/26/03 12:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	ND	ug/m3	1.00	06/30/03	FRW			

Lab Sample No: 502546294 Project Sample Number: 5028316-013 Date Collected: 06/23/03 00:00
Client Sample ID: PM2587-01 Matrix: Air Date Received: 06/26/03 12:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	22.6	ug/m3	1.00	06/30/03	FRW			

Lab Sample No: 502546310 Project Sample Number: 5028316-014 Date Collected: 06/24/03 00:00
Client Sample ID: PM2587-02 Matrix: Air Date Received: 06/26/03 12:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	24.4	ug/m3	1.00	06/30/03	FRW			

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 5028316
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502546336 Project Sample Number: 5028316-015 Date Collected: 06/23/03 00:00
Client Sample ID: PM2901-01 Matrix: Air Date Received: 06/26/03 12:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	22.1	ug/m3	1.00	06/30/03	FRW			

Lab Sample No: 502546351 Project Sample Number: 5028316-016 Date Collected: 06/24/03 00:00
Client Sample ID: PM2901-02 Matrix: Air Date Received: 06/26/03 12:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	ND	ug/m3	1.00	06/30/03	FRW			

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Fax: 317.872.6189

Lab Project Number: 5028316
Client Project ID: RSR OU5/TX - 3D959

PARAMETER FOOTNOTES

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit

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QUALITY CONTROL DATA

Lab Project Number: 5028316
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 54246 Analysis Method: 40CFR APG
QC Batch Method: Analysis Description: Lead in Air by 40CFR
Associated Lab Samples: 502546153 502546161 502546179 502546187 502546195 502546203 502546211 502546229

METHOD BLANK: 502558539
Associated Lab Samples: 502546153 502546161 502546179 502546187 502546195 502546203 502546211 502546229

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Arsenic	ug/m3	ND	0.150	
Lead	ug/m3	ND	0.150	

LABORATORY CONTROL SAMPLE: 502558547

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Lead	mg/l	0.5000	0.5066	101	1

SAMPLE DUPLICATE: 502558554

Parameter	Units	502546153 Result	DUP Result	RPD	Footnotes
Arsenic	ug/m3	ND	ND	NC	
Lead	ug/m3	ND	ND	NC	

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QUALITY CONTROL DATA

Lab Project Number: 5028316
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 54245 Analysis Method: 40CFR APJ
QC Batch Method: Analysis Description: PM10 in Air by 40CFR
Associated Lab Samples: 502546237 502546245 502546252 502546278 502546294
502546310 502546336 502546351

SAMPLE DUPLICATE: 502558521

Parameter	Units	502546237 Result	DUP Result	RPD	Footnotes
Total Particles	ug/m3	32.20	32.30	0	

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Lab Project Number: 5028316
Client Project ID: RSR OU5/TX - 3D959

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
[1]	Sb recovery = 98%. As recovery = 108%.

REPORT OF LABORATORY ANALYSIS

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CHAIN OF CUSTODY RECORD - AIR

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972.580.1323 • Fax 972.550.7464

PROJECT NAME/LOCATION Kirk Gates / TX
PROJECT NUMBER 30959
PROJECT MANAGER P. McDonald
LABORATORY PACE

5028316

SAMPLED BY

Kirk Gates (PRINT NAME)
Kirk Gates SIGNATURE

ANALYSES

TURN AROUND TIME

PRIORITY RUSH 24 HR ☐
PRIORITY 3 DAY ☑
STANDARD ☐

DATE	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	ARSENIC	ANTIMONY	LEAD	PM10			COMMENTS
✓6/23		TSP5-01	TSP 5	TSP	1.215	1732	✓	✓	✓				5025546153
✓6/24		TSP5-02	"	"	1.385	1994	✓	✓	✓				5025546161
✓6/23		TSP 7-01	TSP 7	"	1.289	1856	✓	✓	✓				5025546179
✓6/24		TSP 7-02	"	"	1.255	1807	✓	✓	✓				5025546189
✓6/23		TSP9-01	TSP 9	"	1.303	1818	✓	✓	✓				5025546195
✓6/24		TSP9-02	"	"	1.581	2269	✓	✓	✓				5025546203
✓6/23		TSP10-01	TSP 10	"	1.294	1805	✓	✓	✓				5025546211
✓6/24		TSP 10-02	"	"	1.132	1625	✓	✓	✓				5025546229
✓6/23		PM1935-01	PM_{10} 1935	PM_{10}	1.197	1676				✓			5025546237
✓6/24		PM1935-02	"	"	1.171	1651				✓			5025546245
✓6/23		PM1958-01	PM_{10} 1958	"	1.197	1641				✓			5025546253
✓6/24		PM1958-02	"	"	1.199	1685				✓			5025546278
✓6/23		~~PM28~~ PM2587-01	PM_{10} 2587	"	1.198	1695				✓			5025546294
✓6/24		PM2587-02	"	"	1.203	1696				✓			5025546310
✓6/23		PM2901-01	PM_{10} 2901	"	1.196	1640				✓			5025546336
✓6/24		PM2901-02	"	"	1.199	1691				✓			5025546351

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	6/25/03	17:15	Jill Riddle 6/26/03 12:30				

METHOD OF SHIPMENT
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REMARKS:
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July 10, 2003

Ms. Jenny Elste
Entact
4040 W. Royal Ln.
Suite 136
Irving, TX 75038

RE: Lab Project Number: 5028449
Client Project ID: RSR OU5/TX - 3D959

Dear Ms. Elste:

Enclosed are the analytical results for sample(s) received by the laboratory on July 1, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Jill Riddle

Jill Riddle
jill.riddle@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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July 29, 2003

Case Narrative- Project Review
Project 5028449 (Entact)

Sample Receiving

No discrepancies were noted concerning sample receipt or sample transfer.

Metals in air- 40CFR APG.

Additional LCS results are listed in footnote #1, page 15.

All quality control indicators for this project (method blank, duplicate and LCS results) are within laboratory acceptance limits.

PM10 in air- 40CFR APJ.

All quality control indicators for this project (duplicate results) are within laboratory acceptance limits.

I have reviewed the data from this project and have found all other discrepancies to be sufficiently covered in the footnotes in the sample results section and the quality control section of the final report.

Tim Harrison

Tim Harrison
Quality Assurance Officer
Pace Analytical Services

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Indianapolis, IN 46268
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Lab Project Number: 5028449
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502562408 Project Sample Number: 5028449-001 Date Collected: 06/25/03 00:00
Client Sample ID: TSP5-03 Matrix: Air Date Received: 07/01/03 09:43

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	0.130	ug/m3	0.0500	07/08/03 05:34	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/08/03 05:34	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/08/03 05:34	FRW	7440-36-0		
Date Digested	07/07/03			07/07/03				

Lab Sample No: 502562416 Project Sample Number: 5028449-002 Date Collected: 06/26/03 00:00
Client Sample ID: TSP5-04 Matrix: Air Date Received: 07/01/03 09:43

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/08/03 06:14	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/08/03 06:14	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/08/03 06:14	FRW	7440-36-0		
Date Digested	07/07/03			07/07/03				

Lab Sample No: 502562424 Project Sample Number: 5028449-003 Date Collected: 06/27/03 00:00
Client Sample ID: TSP5-05 Matrix: Air Date Received: 07/01/03 09:43

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/08/03 07:01	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/08/03 07:01	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/08/03 07:01	FRW	7440-36-0		
Date Digested	07/07/03			07/07/03				

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Lab Project Number: 5028449
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502562432 Project Sample Number: 5028449-004 Date Collected: 06/25/03 00:00
Client Sample ID: TSP6-01 Matrix: Air Date Received: 07/01/03 09:43

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	07/08/03 05:46	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/08/03 05:46	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/08/03 05:46	FRW	7440-36-0		
Date Digested	07/07/03			07/07/03				

Lab Sample No: 502562440 Project Sample Number: 5028449-005 Date Collected: 06/26/03 00:00
Client Sample ID: TSP6-02 Matrix: Air Date Received: 07/01/03 09:43

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	07/08/03 06:20	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/08/03 06:20	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/08/03 06:20	FRW	7440-36-0		
Date Digested	07/07/03			07/07/03				

Lab Sample No: 502562465 Project Sample Number: 5028449-006 Date Collected: 06/27/03 00:00
Client Sample ID: TSP6-03 Matrix: Air Date Received: 07/01/03 09:43

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	07/08/03 07:07	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/08/03 07:07	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/08/03 07:07	FRW	7440-36-0		
Date Digested	07/07/03			07/07/03				

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Lab Project Number: 5028449
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502562473 Project Sample Number: 5028449-007 Date Collected: 06/25/03 00:00
Client Sample ID: TSP7-03 Matrix: Air Date Received: 07/01/03 09:43

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	0.0650	ug/m3	0.0500	07/08/03 05:51	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/08/03 05:51	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/08/03 05:51	FRW	7440-36-0		
Date Digested	07/07/03			07/07/03				

Lab Sample No: 502562481 Project Sample Number: 5028449-008 Date Collected: 06/26/03 00:00
Client Sample ID: TSP7-04 Matrix: Air Date Received: 07/01/03 09:43

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/08/03 06:26	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/08/03 06:26	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/08/03 06:26	FRW	7440-36-0		
Date Digested	07/07/03			07/07/03				

Lab Sample No: 502562499 Project Sample Number: 5028449-009 Date Collected: 06/27/03 00:00
Client Sample ID: TSP7-05 Matrix: Air Date Received: 07/01/03 09:43

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/08/03 07:13	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/08/03 07:13	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/08/03 07:13	FRW	7440-36-0		
Date Digested	07/07/03			07/07/03				

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Lab Project Number: 5028449
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502562507 Project Sample Number: 5028449-010 Date Collected: 06/25/03 00:00
Client Sample ID: TSP8-01 Matrix: Air Date Received: 07/01/03 09:43

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/08/03 05:57	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/08/03 05:57	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/08/03 05:57	FRW	7440-36-0		
Date Digested	07/07/03			07/07/03				

Lab Sample No: 502562515 Project Sample Number: 5028449-011 Date Collected: 06/26/03 00:00
Client Sample ID: TSP8-02 Matrix: Air Date Received: 07/01/03 09:43

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/08/03 06:44	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/08/03 06:44	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/08/03 06:44	FRW	7440-36-0		
Date Digested	07/07/03			07/07/03				

Lab Sample No: 502562523 Project Sample Number: 5028449-012 Date Collected: 06/27/03 00:00
Client Sample ID: TSP8-03 Matrix: Air Date Received: 07/01/03 09:43

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/08/03 07:18	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/08/03 07:18	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/08/03 07:18	FRW	7440-36-0		
Date Digested	07/07/03			07/07/03				

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Lab Project Number: 5028449
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502562531 Project Sample Number: 5028449-013 Date Collected: 06/25/03 00:00
Client Sample ID: TSP9-03 Matrix: Air Date Received: 07/01/03 09:43

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/08/03 06:03	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/08/03 06:03	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/08/03 06:03	FRW	7440-36-0		
Date Digested	07/07/03			07/07/03				

Lab Sample No: 502562549 Project Sample Number: 5028449-014 Date Collected: 06/26/03 00:00
Client Sample ID: TSP9-04 Matrix: Air Date Received: 07/01/03 09:43

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/08/03 06:50	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/08/03 06:50	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/08/03 06:50	FRW	7440-36-0		
Date Digested	07/07/03			07/07/03				

Lab Sample No: 502562556 Project Sample Number: 5028449-015 Date Collected: 06/27/03 00:00
Client Sample ID: TSP9-05 Matrix: Air Date Received: 07/01/03 09:43

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/08/03 07:24	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/08/03 07:24	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/08/03 07:24	FRW	7440-36-0		
Date Digested	07/07/03			07/07/03				

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Lab Project Number: 5028449
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502562564 Project Sample Number: 5028449-016 Date Collected: 06/25/03 00:00
Client Sample ID: TSP10-03 Matrix: Air Date Received: 07/01/03 09:43

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	0.0600	ug/m3	0.0500	07/08/03 06:09	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/08/03 06:09	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/08/03 06:09	FRW	7440-36-0		
Date Digested	07/07/03			07/07/03				

Lab Sample No: 502562572 Project Sample Number: 5028449-017 Date Collected: 06/26/03 00:00
Client Sample ID: TSP10-04 Matrix: Air Date Received: 07/01/03 09:43

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/08/03 06:55	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/08/03 06:55	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/08/03 06:55	FRW	7440-36-0		
Date Digested	07/07/03			07/07/03				

Lab Sample No: 502562580 Project Sample Number: 5028449-018 Date Collected: 06/27/03 00:00
Client Sample ID: TSP10-05 Matrix: Air Date Received: 07/01/03 09:43

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/08/03 07:30	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/08/03 07:30	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/08/03 07:30	FRW	7440-36-0		
Date Digested	07/07/03			07/07/03				

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Lab Project Number: 5028449
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502562598 Project Sample Number: 5028449-019 Date Collected: 06/25/03 00:00
Client Sample ID: PM1935-03 Matrix: Air Date Received: 07/01/03 09:43

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	42.2	ug/m3	1.00	07/08/03 14:00	DMT			

Lab Sample No: 502562606 Project Sample Number: 5028449-020 Date Collected: 06/26/03 00:00
Client Sample ID: PM1935-04 Matrix: Air Date Received: 07/01/03 09:43

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	21.2	ug/m3	1.00	07/08/03 14:00	DMT			

Lab Sample No: 502562614 Project Sample Number: 5028449-021 Date Collected: 06/27/03 00:00
Client Sample ID: PM1935-05 Matrix: Air Date Received: 07/01/03 09:43

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	19.7	ug/m3	1.00	07/08/03 14:00	DMT			

Lab Sample No: 502563638 Project Sample Number: 5028449-022 Date Collected: 06/25/03 00:00
Client Sample ID: PM1957-01 Matrix: Air Date Received: 07/01/03 09:41

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	23.3	ug/m3	1.00	07/08/03 14:00	DMT			

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Lab Project Number: 5028449
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502563646 Project Sample Number: 5028449-023 Date Collected: 06/26/03 00:00
Client Sample ID: PM1957-02 Matrix: Air Date Received: 07/01/03 09:41

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	15.7	ug/m3	1.00	07/08/03 14:00	DMT			

Lab Sample No: 502563695 Project Sample Number: 5028449-024 Date Collected: 06/27/03 00:00
Client Sample ID: PM1957-03 Matrix: Air Date Received: 07/01/03 09:41

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	24.3	ug/m3	1.00	07/08/03 14:00	DMT			

Lab Sample No: 502563745 Project Sample Number: 5028449-025 Date Collected: 06/25/03 00:00
Client Sample ID: PM1958-03 Matrix: Air Date Received: 07/01/03 09:41

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	3.62	ug/m3	1.00	07/08/03 14:00	DMT			

Lab Sample No: 502563752 Project Sample Number: 5028449-026 Date Collected: 06/26/03 00:00
Client Sample ID: PM1958-04 Matrix: Air Date Received: 07/01/03 09:41

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	15.8	ug/m3	1.00	07/08/03 14:00	DMT			

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Lab Project Number: 5028449
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502563760 Project Sample Number: 5028449-027 Date Collected: 06/27/03 00:00
Client Sample ID: PM1958-05 Matrix: Air Date Received: 07/01/03 09:41

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	27.5	ug/m3	1.00	07/08/03 14:00	DMT			

Lab Sample No: 502563778 Project Sample Number: 5028449-028 Date Collected: 06/25/03 00:00
Client Sample ID: PM2084-01 Matrix: Air Date Received: 07/01/03 09:41

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	ND	ug/m3	1.00	07/08/03 14:00	DMT			

Lab Sample No: 502563786 Project Sample Number: 5028449-029 Date Collected: 06/26/03 00:00
Client Sample ID: PM2084-02 Matrix: Air Date Received: 07/01/03 09:41

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	2.24	ug/m3	1.00	07/08/03 14:00	DMT			

Lab Sample No: 502563794 Project Sample Number: 5028449-030 Date Collected: 06/27/03 00:00
Client Sample ID: PM2084-03 Matrix: Air Date Received: 07/01/03 09:41

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	25.1	ug/m3	1.00	07/08/03 14:00	DMT			

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Lab Project Number: 5028449
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502563802 Project Sample Number: 5028449-031 Date Collected: 06/25/03 00:00
Client Sample ID: PM2587-03 Matrix: Air Date Received: 07/01/03 09:41

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	29.0	ug/m3	1.00	07/08/03 14:00	DMT			

Lab Sample No: 502563851 Project Sample Number: 5028449-032 Date Collected: 06/26/03 00:00
Client Sample ID: PM2587-04 Matrix: Air Date Received: 07/01/03 09:41

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	16.2	ug/m3	1.00	07/08/03 14:00	DMT			

Lab Sample No: 502563869 Project Sample Number: 5028449-033 Date Collected: 06/27/03 00:00
Client Sample ID: PM2587-05 Matrix: Air Date Received: 07/01/03 09:41

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	25.2	ug/m3	1.00	07/08/03 14:00	DMT			

Lab Sample No: 502563877 Project Sample Number: 5028449-034 Date Collected: 06/25/03 00:00
Client Sample ID: PM2901-03 Matrix: Air Date Received: 07/01/03 09:41

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	28.2	ug/m3	1.00	07/08/03 14:00	DMT			

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Lab Project Number: 5028449
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502563885 Project Sample Number: 5028449-035 Date Collected: 06/26/03 00:00
Client Sample ID: PM2901-04 Matrix: Air Date Received: 07/01/03 09:41

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	18.0	ug/m3	1.00	07/08/03 14:00	DMT			

Lab Sample No: 502563893 Project Sample Number: 5028449-036 Date Collected: 06/27/03 00:00
Client Sample ID: PM2901-05 Matrix: Air Date Received: 07/01/03 09:41

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	24.9	ug/m3	1.00	07/08/03 14:00	DMT			

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Lab Project Number: 5028449
Client Project ID: RSR OU5/TX - 3D959

PARAMETER FOOTNOTES

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit

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QUALITY CONTROL DATA

Lab Project Number: 5028449
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 54499 Analysis Method: 40CFR APG
QC Batch Method: Analysis Description: Lead in Air by 40CFR
Associated Lab Samples: 502562408 502562416 502562424 502562432 502562440
502562465 502562473 502562481 502562499 502562507
502562515 502562523 502562531 502562549 502562556
502562564 502562572 502562580

METHOD BLANK: 502572258
Associated Lab Samples: 502562408 502562416 502562424 502562432 502562440 502562465 502562473
502562481 502562499 502562507 502562515 502562523 502562531 502562549
502562556 502562564 502562572 502562580

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Arsenic	ug/m3	ND	0.0500	
Lead	ug/m3	ND	0.0500	
Antimony	ug/m3	ND	0.0500	

LABORATORY CONTROL SAMPLE: 502572266

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Lead	mg/l	0.5000	0.5010	100	1

SAMPLE DUPLICATE: 502572274

Parameter	Units	502562408 Result	DUP Result	RPD	Footnotes
Arsenic	ug/m3	ND	ND	NC	
Lead	ug/m3	0.1300	0.08200	0	
Antimony	ug/m3	ND	ND	NC	

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QUALITY CONTROL DATA

Lab Project Number: 5028449
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 54460 Analysis Method: 40CFR APJ
QC Batch Method: Analysis Description: PM10 in Air by 40CFR
Associated Lab Samples: 502562598 502562606 502562614 502563638 502563646
502563695 502563745 502563752 502563760 502563778
502563786 502563794 502563802 502563851 502563869
502563877 502563885 502563893

SAMPLE DUPLICATE: 502570641

Parameter	Units	502562598 Result	DUP Result	RPD	Footnotes
Total Particles	ug/m3	42.20	42.70	1	

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Lab Project Number: 5028449
Client Project ID: RSR OU5/TX - 3D959

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
[1]	As: 102% recovery. Sb: 96% recovery.

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environmental tactics in waste management

CHAIN OF CUSTODY RECORD - AIR

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972.580.1323 • Fax 972.550.7464

5028449

PROJECT NAME/LOCATION KIRK - [illegible]
PROJECT NUMBER 3D959
PROJECT MANAGER PAT MCDONALD
LABORATORY PACE

SAMPLED BY

KIRK GATES (PRINT NAME)

Kirk Gates SIGNATURE

ANALYSES

TURN AROUND TIME

PRIORITY RUSH 24 HR ☐
PRIORITY 3 DAY ☑
STANDARD ☐

DATE 03	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	ARSENIC	ANTIMONY	LEAD	PM10			COMMENTS
6/25		TSP5-03	TSP-5	TSP	1.383	2033	✓	✓	✓				5025624 08
6/26		TSP5-04	TSP-5	TSP	1.403	1971	✓	✓	✓				5025624 16
6/27		TSP5-05	TSP-5	TSP	1.387	1997	✓	✓	✓				5025624 24
6/25		TSP6-01	TSP 6	TSP	1.354	1929	✓	✓	✓				5025624 32
6/26		TSP6-02	TSP 6	TSP	1.355	1951	✓	✓	✓				5025624 40
6/27		TSP6-03	TSP6	TSP	1.203	1697	✓	✓	✓				5025624 65
6/25		TSP7-03	TSP7	TSP	1.307	1902	✓	✓	✓				5025624 73
6/26		TSP7-04	TSP7	TSP	1.124	1619	✓	✓	✓				5025624 81
6/27		TSP7-05	TSP7	TSP	1.198	1726	✓	✓	✓				5025624 99
6/25		TSP8-01	TSP 8	TSP	1.364	1944	✓	✓	✓				5025625 07
6/26		TSP8-02	TSP8	TSP	1.405	2023	✓	✓	✓				5025625 15
6/27		TSP8-03	TSP8	TSP	1.274	1796	✓	✓	✓				5025625 23
6/25		TSP9-03	TSP9	TSP	1.436	2125	✓	✓	✓				5025625 31
6/26		TSP9-04	TSP9	TSP	1.644	2375	✓	✓	✓				5025625 49
6/27		TSP9-05	TSP9	TSP	1.572	2264	✓	✓	✓				5025625 56
6/25		TSP10-03	TSP10	TSP	1.157	1706	✓	✓	✓				5025625 64
6/26		TSP10-04	TSP10	TSP	1.291	1859	✓	✓	✓				5025625 72
6/27		TSP10-05	TSP10	TSP	1.411	2032	✓	✓	✓				5025625 80
6/25		PM1935-03	PM-10-1935	PM10	1.190	1713				✓			5025625 98
6/26		PM1935-04	PM-10 1935	PM10	1.192	1670				✓			5025626 06

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	6/30/03	10:07			7/1/03	9:43	

METHOD OF SHIPMENT
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REMARKS:

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5028449

PROJECT NAME/LOCATION [redacted]
PROJECT NUMBER 3D9[redacted]
PROJECT MANAGER PAT [redacted] DONALD
LABORATORY PACE

SAMPLED BY

KIRK GATES (PRINT NAME)

Kirk Gates SIGNATURE

ANALYSES

TURN AROUND TIME

- PRIORITY RUSH 24 HR ☐
- PRIORITY 3 DAY ☑
- STANDARD ☐

6 DATE 03	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	PM 10	COMMENTS
6/27		PM1935-05	PM10-1935	PM10	1.184	1682	✓	5025626414 36 BH
6/25		PM1957-01	PM10-1957	PM10	1.191	1633	✓	5025636638
6/26		PM1957-02	PM10-1957	PM10	1.179	1693	✓	5025636646
6/27		PM1957-03	PM10-1957	PM10	1.184	1647	✓	5025636695
6/25		PM1958-03	PM10-1958	PM10	1.201	1741	✓	5025636745
6/26		PM1958-04	PM10-1958	PM10	1.198	1731	✓	5025636752
6/27		PM1958-05	PM10-1958	PM10	1.194	1697	✓	5025636760
6/25		PM2084-01	PM10-2084	PM10	1.192	1635	✓	5025636778
6/26		PM2084-02	PM10-2084	PM10	1.183	1698	✓	5025636786
6/27		PM2084-03	PM10-2084	PM10	1.184	1647	✓	5025636794
6/25		PM2587-03	PM10-2587	PM10	1.180	1682	✓	5025636802
6/26		PM2587-04	PM10-2587	PM10	1.177	1690	✓	5025636851
6/27		PM2587-05	PM10-2587	PM10	1.173	1672	✓	5025636869
6/25		PM-2901-03	PM10-2901	PM10	1.181	1706	✓	5025636877
6/26		PM-2901-04	PM10-2901	PM10	1.177	1696	✓	5025636885
6/27		PM2901-05	PM10-2901	PM10	1.173	1661	✓	5025636893

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	6/30/03 ~~10:07~~	10:07			7/1/03	9:41	BJ Hegwood

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REMARKS:

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1 OF 2

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July 11, 2003

Ms. Jenny Elste
Entact
4040 W. Royal Ln.
Suite 136
Irving, TX 75038

RE: Lab Project Number: 5028510
Client Project ID: RSR OU5/TX - 3D959

Dear Ms. Elste:

Enclosed are the analytical results for sample(s) received by the laboratory on July 3, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Jill Riddle

Jill Riddle
jill.riddle@pacelabs.com
Project Manager

Enclosures

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July 14, 2003

Case Narrative- Project Review
Project 5028510 (Entact)

Sample Receiving

No discrepancies were noted concerning sample receipt or sample transfer.

Lead in air: 40 CFR APG

Additional LCS recoveries are listed on page 11 (footnote #1). All quality control indicators for this project (method blank, duplicate and LCS results) are within laboratory acceptance limits.

PM10 in air: 40 CFR APG

All quality control indicators for this project (duplicate results) are within laboratory acceptance limits.

I have reviewed the data from this project and have found all other discrepancies to be sufficiently covered in the footnotes in the sample results section and the quality control section of the final report.

Tim Harrison
Quality Assurance Officer
Pace Analytical Services

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Lab Project Number: 5028510
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502570245 Project Sample Number: 5028510-001 Date Collected: 06/30/03 00:00
Client Sample ID: TSP5-06 Matrix: Air Date Received: 07/03/03 11:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/08/03 22:33	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/08/03 22:33	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/08/03 22:33	FRW	7440-36-0		
Date Digested	07/07/03			07/07/03				

Lab Sample No: 502570294 Project Sample Number: 5028510-002 Date Collected: 07/01/03 00:00
Client Sample ID: 1SP5-07 Matrix: Air Date Received: 07/03/03 11:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/08/03 23:30	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/08/03 23:30	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/08/03 23:30	FRW	7440-36-0		
Date Digested	07/07/03			07/07/03				

Lab Sample No: 502570302 Project Sample Number: 5028510-003 Date Collected: 06/30/03 00:00
Client Sample ID: TSP6-04 Matrix: Air Date Received: 07/03/03 11:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/08/03 23:02	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/08/03 23:02	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/08/03 23:02	FRW	7440-36-0		
Date Digested	07/07/03			07/07/03				

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Lab Project Number: 5028510
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502570310 Project Sample Number: 5028510-004 Date Collected: 07/01/03 00:00
Client Sample ID: TSP6-05 Matrix: Air Date Received: 07/03/03 11:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	07/08/03 23:36	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/08/03 23:36	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/08/03 23:36	FRW	7440-36-0		
Date Digested	07/07/03			07/07/03				

Lab Sample No: 502570328 Project Sample Number: 5028510-005 Date Collected: 06/30/03 00:00
Client Sample ID: TSP7-06 Matrix: Air Date Received: 07/03/03 11:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	07/08/03 23:07	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/08/03 23:07	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/08/03 23:07	FRW	7440-36-0		
Date Digested	07/07/03			07/07/03				

Lab Sample No: 502570336 Project Sample Number: 5028510-006 Date Collected: 07/01/03 00:00
Client Sample ID: TSP7-07 Matrix: Air Date Received: 07/03/03 11:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	0.191	ug/m3	0.0500	07/08/03 23:42	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/08/03 23:42	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/08/03 23:42	FRW	7440-36-0		
Date Digested	07/07/03			07/07/03				

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Lab Project Number: 5028510
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502570344 Project Sample Number: 5028510-007 Date Collected: 06/30/03 00:00
Client Sample ID: TSP8-04 Matrix: Air Date Received: 07/03/03 11:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/08/03 23:13	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/08/03 23:13	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/08/03 23:13	FRW	7440-36-0		
Date Digested	07/07/03			07/07/03				

Lab Sample No: 502570351 Project Sample Number: 5028510-008 Date Collected: 07/01/03 00:00
Client Sample ID: TSP8-05 Matrix: Air Date Received: 07/03/03 11:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/08/03 23:47	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/08/03 23:47	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/08/03 23:47	FRW	7440-36-0		
Date Digested	07/07/03			07/07/03				

Lab Sample No: 502570369 Project Sample Number: 5028510-009 Date Collected: 06/30/03 00:00
Client Sample ID: TSP9-06 Matrix: Air Date Received: 07/03/03 11:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/08/03 23:19	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/08/03 23:19	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/08/03 23:19	FRW	7440-36-0		
Date Digested	07/07/03			07/07/03				

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Lab Project Number: 5028510
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502570377 Project Sample Number: 5028510-010 Date Collected: 07/01/03 00:00
Client Sample ID: TSP9-07 Matrix: Air Date Received: 07/03/03 11:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/08/03 23:53	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/08/03 23:53	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/08/03 23:53	FRW	7440-36-0		
Date Digested	07/07/03			07/07/03				

Lab Sample No: 502570385 Project Sample Number: 5028510-011 Date Collected: 06/30/03 00:00
Client Sample ID: TSP10-06 Matrix: Air Date Received: 07/03/03 11:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	0.287	ug/m3	0.0500	07/08/03 23:24	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/08/03 23:24	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/08/03 23:24	FRW	7440-36-0		
Date Digested	07/07/03			07/07/03				

Lab Sample No: 502570393 Project Sample Number: 5028510-012 Date Collected: 07/01/03 00:00
Client Sample ID: TSP10-07 Matrix: Air Date Received: 07/03/03 11:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	0.169	ug/m3	0.0500	07/09/03 10:45	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/09/03 10:45	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/09/03 10:45	FRW	7440-36-0		
Date Digested	07/07/03			07/07/03				

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Lab Project Number: 5028510
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502570401 Project Sample Number: 5028510-013 Date Collected: 06/30/03 00:00
Client Sample ID: PM1935-06 Matrix: Air Date Received: 07/03/03 11:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	47.5	ug/m3	1.00	07/08/03 14:00	DMT			

Lab Sample No: 502570419 Project Sample Number: 5028510-014 Date Collected: 07/01/03 00:00
Client Sample ID: PM1935-07 Matrix: Air Date Received: 07/03/03 11:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	10.2	ug/m3	1.00	07/08/03 14:00	DMT			

Lab Sample No: 502570427 Project Sample Number: 5028510-015 Date Collected: 06/30/03 00:00
Client Sample ID: PM1957-04 Matrix: Air Date Received: 07/03/03 11:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	32.5	ug/m3	1.00	07/08/03 14:00	DMT			

Lab Sample No: 502570435 Project Sample Number: 5028510-016 Date Collected: 07/01/03 00:00
Client Sample ID: PM1957-05 Matrix: Air Date Received: 07/03/03 11:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	35.8	ug/m3	1.00	07/08/03 14:00	DMT			

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Lab Project Number: 5028510
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502570443 Project Sample Number: 5028510-017 Date Collected: 06/30/03 00:00
Client Sample ID: PM1958-06 Matrix: Air Date Received: 07/03/03 11:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	35.8	ug/m3	1.00	07/08/03 14:00	DMT			

Lab Sample No: 502570450 Project Sample Number: 5028510-018 Date Collected: 07/01/03 00:00
Client Sample ID: PM1958-07 Matrix: Air Date Received: 07/03/03 11:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	40.7	ug/m3	1.00	07/08/03 14:00	DMT			

Lab Sample No: 502570468 Project Sample Number: 5028510-019 Date Collected: 06/30/03 00:00
Client Sample ID: PM2084-04 Matrix: Air Date Received: 07/03/03 11:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	31.6	ug/m3	1.00	07/08/03 14:00	DMT			

Lab Sample No: 502570476 Project Sample Number: 5028510-020 Date Collected: 07/01/03 00:00
Client Sample ID: PM2084-05 Matrix: Air Date Received: 07/03/03 11:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	35.5	ug/m3	1.00	07/08/03 14:00	DMT			

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Lab Project Number: 5028510
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502570484 Project Sample Number: 5028510-021 Date Collected: 06/30/03 00:00
Client Sample ID: PM2587-06 Matrix: Air Date Received: 07/03/03 11:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	33.6	ug/m3	1.00	07/08/03 14:00	DMT			

Lab Sample No: 502570492 Project Sample Number: 5028510-022 Date Collected: 07/01/03 00:00
Client Sample ID: PM2587-07 Matrix: Air Date Received: 07/03/03 11:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	36.4	ug/m3	1.00	07/08/03 14:00	DMT			

Lab Sample No: 502570500 Project Sample Number: 5028510-023 Date Collected: 06/30/03 00:00
Client Sample ID: PM2901-06 Matrix: Air Date Received: 07/03/03 11:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	49.3	ug/m3	1.00	07/08/03 14:00	DMT			

Lab Sample No: 502570518 Project Sample Number: 5028510-024 Date Collected: 07/01/03 00:00
Client Sample ID: PM2901-07 Matrix: Air Date Received: 07/03/03 11:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	34.8	ug/m3	1.00	07/08/03 14:00	DMT			

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Lab Project Number: 5028510
Client Project ID: RSR OU5/TX - 3D959

PARAMETER FOOTNOTES

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit

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QUALITY CONTROL DATA

Lab Project Number: 5028510
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 54542 Analysis Method: 40CFR APG
QC Batch Method: Analysis Description: Lead in Air by 40CFR
Associated Lab Samples: 502570245 502570294 502570302 502570310 502570328 502570336 502570344 502570351 502570369 502570377 502570385 502570393

METHOD BLANK: 502573918
Associated Lab Samples: 502570245 502570294 502570302 502570310 502570328 502570336 502570344 502570351 502570369 502570377 502570385 502570393

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Arsenic	ug/m3	ND	0.0500	
Lead	ug/m3	ND	0.0500	
Antimony	ug/m3	ND	0.0500	

LABORATORY CONTROL SAMPLE: 502573926

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Lead	mg/l	0.5000	0.4550	91	1

SAMPLE DUPLICATE: 502573934

Parameter	Units	502570245 Result	DUP Result	RPD	Footnotes
Arsenic	ug/m3	ND	ND	NC	
Lead	ug/m3	ND	ND	NC	
Antimony	ug/m3	ND	ND	NC	

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QUALITY CONTROL DATA

Lab Project Number: 5028510
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 54556 Analysis Method: 40CFR APJ
QC Batch Method: Analysis Description: PM10 in Air by 40CFR
Associated Lab Samples: 502570401 502570419 502570427 502570435 502570443
502570450 502570468 502570476 502570484 502570492
502570500 502570518

SAMPLE DUPLICATE: 502574361

Parameter	Units	502570401 Result	DUP Result	RPD	Footnotes
Total Particles	ug/m3	47.50	47.80	1	

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Lab Project Number: 5028510
Client Project ID: RSR OU5/TX - 3D959

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
[1]	As: 94% recovery. Sb: 93% recovery.

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environmental tactics in waste management

CHAIN OF CUSTODY RECORD - AIR

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972.580.1323 • Fax 972.550.7464

PROJECT NAME/LOCATION [redacted]
PROJECT NUMBER 3D[redacted]9
PROJECT MANAGER P. M[redacted]ARD
LABORATORY PACE
5028510

SAMPLED BY

KIRK GATES (PRINT NAME)

Kirk Gates SIGNATURE

ANALYSES

ARSENIC As
ANTIMONY Sb
LEAD Pb
PM10

TURN AROUND TIME

PRIORITY RUSH 24 HR ☐
PRIORITY 3 DAY ☒
STANDARD ☐

DATE (2003)	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	COMMENTS
6/30		TSP5-06	TSP 5	TSP-AIR	1.402	2019	502570245
7/1		TSP5-07	↓		1.363	1962	502570294
6/30		TSP6-04	TSP 6		1.147	1652	502570302
7/1		TSP6-05	↓		1.398	2013	502570310
6/30		TSP7-06	TSP 7		1.299	1871	502570328
7/1		TSP7-07	↓		1.179	1697	502570336
6/30		TSP8-04	TSP 8		1.196	1722	502570344
7/1		TSP8-05	↓		1.113	1608	502570351
6/30		TSP9-06	TSP 9		1.362	1961	502570369
7/1		TSP9-07	↓		1.535	2210	502570377
6/30		TSP10-06	TSP 10		1.333	1920	502570385
7/1		TSP10-07	↓	↓	1.418	2041	502570393
6/30		PM1935-06	PM10 1935	PM10-AIR	1.179	1653	502570401
7/1		PM1935-07	↓		1.188	1660	502570419
6/30		PM1957-04	PM10 1957		1.182	1657	502570427
7/1		PM1957-05	↓		1.182	1652	502570435
6/30		PM1958-06	PM10 1958		1.192	1671	502570443
7/1		PM1958-07	↓		1.192	1666	502570450
6/30		PM2084-04	PM10 2084		1.183	1659	502570468
7/1		PM2084-05	↓	↓	1.185	1656	502570476

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	7/2/03	14:00	[signature]				

METHOD OF SHIPMENT

REMARKS:

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CHAIN OF CUSTODY RECORD - AIR

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PROJECT NAME/LOCATION
PROJECT NUMBER 3D959
PROJECT MANAGER P. McDONALD
LABORATORY PACE
5028570

SAMPLED BY

(PRINT NAME) KIRK GATES

SIGNATURE Kirk Gates

ANALYSES

TURN AROUND TIME

- PRIORITY RUSH 24 HR ☐
- PRIORITY 3 DAY ☒
- STANDARD ☐

DATE (2003)	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	PM10	COMMENTS
6/30		PM2587-06	PM10 2587	PM10-AIR	1.171	1642		502570484
7/1		PM 2587-07	↓	↓	1.177	1645		502570492
6/30		PM2901-06	PM10 2901		1.172	1643		502570500
7/1		PM2901-07	↓	↓	1.177	1645	↓	502570518

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	7/2/03	14:00					

METHOD OF SHIPMENT

REMARKS:

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July 16, 2003

Ms. Jenny Elste
Entact
4040 W. Royal Ln.
Suite 136
Irving, TX 75038

RE: Lab Project Number: 5028573
Client Project ID: RSR OU5/TX - 3D959

Dear Ms. Elste:

Enclosed are the analytical results for sample(s) received by the laboratory on July 9, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Jill Riddle

Jill Riddle
jill.riddle@pacelabs.com
Project Manager

Enclosures

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July 29, 2003

Case Narrative- Project Review
Project 5028573 (Entact)

Sample Receiving

No discrepancies were noted concerning sample receipt or sample transfer.

Metals in air- 40CFR APG.

Additional LCS results are listed in footnote #1, page 10.

The project-specific spike set is listed on page 8 for sample 502579600. The RPD value for lead was above the acceptable limit. Re-analysis confirmed the original results (footnote #2). All other quality control indicators for this project (method blank and LCS results) are within laboratory acceptance limits.

PM10 in air- 40CFR APJ.

All quality control indicators for this project (duplicate results) are within laboratory acceptance limits.

I have reviewed the data from this project and have found all other discrepancies to be sufficiently covered in the footnotes in the sample results section and the quality control section of the final report.

Tim Harrison
Quality Assurance Officer
Pace Analytical Services

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Lab Project Number: 5028573
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502579600 Project Sample Number: 5028573-001 Date Collected: 07/02/03 00:00
Client Sample ID: TSP5-08 Matrix: Air Date Received: 07/09/03 09:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	0.413	ug/m3	0.0500	07/15/03 23:26	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/15/03 23:26	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/15/03 23:26	FRW	7440-36-0		
Date Digested	07/11/03			07/11/03				

Lab Sample No: 502579634 Project Sample Number: 5028573-002 Date Collected: 07/07/03 00:00
Client Sample ID: TSP5-09 Matrix: Air Date Received: 07/09/03 09:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/16/03 00:17	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/16/03 00:17	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/16/03 00:17	FRW	7440-36-0		
Date Digested	07/11/03			07/11/03				

Lab Sample No: 502579642 Project Sample Number: 5028573-003 Date Collected: 07/02/03 00:00
Client Sample ID: TSP7-08 Matrix: Air Date Received: 07/09/03 09:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	0.184	ug/m3	0.0500	07/15/03 23:54	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/15/03 23:54	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/15/03 23:54	FRW	7440-36-0		
Date Digested	07/11/03			07/11/03				

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Lab Project Number: 5028573
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502579659 Project Sample Number: 5028573-004 Date Collected: 07/07/03 00:00
Client Sample ID: TSP7-09 Matrix: Air Date Received: 07/09/03 09:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	0.0778	ug/m3	0.0500	07/16/03 00:23	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/16/03 00:23	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/16/03 00:23	FRW	7440-36-0		
Date Digested	07/11/03			07/11/03				

Lab Sample No: 502579667 Project Sample Number: 5028573-005 Date Collected: 07/02/03 00:00
Client Sample ID: TSP8-06 Matrix: Air Date Received: 07/09/03 09:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/16/03	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/16/03	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/16/03	FRW	7440-36-0		
Date Digested	07/11/03			07/11/03				

Lab Sample No: 502579675 Project Sample Number: 5028573-006 Date Collected: 07/07/03 00:00
Client Sample ID: TSP8-07 Matrix: Air Date Received: 07/09/03 09:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/16/03 00:29	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/16/03 00:29	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/16/03 00:29	FRW	7440-36-0		
Date Digested	07/11/03			07/11/03				

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Lab Project Number: 5028573
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502579683 Project Sample Number: 5028573-007 Date Collected: 07/02/03 00:00
Client Sample ID: TSP9-08 Matrix: Air Date Received: 07/09/03 09:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/16/03 00:06	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/16/03 00:06	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/16/03 00:06	FRW	7440-36-0		
Date Digested	07/11/03			07/11/03				

Lab Sample No: 502579691 Project Sample Number: 5028573-008 Date Collected: 07/07/03 00:00
Client Sample ID: TSP9-09 Matrix: Air Date Received: 07/09/03 09:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/16/03 00:34	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/16/03 00:34	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/16/03 00:34	FRW	7440-36-0		
Date Digested	07/11/03			07/11/03				

Lab Sample No: 502579717 Project Sample Number: 5028573-009 Date Collected: 07/02/03 00:00
Client Sample ID: TSP10-08 Matrix: Air Date Received: 07/09/03 09:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/16/03 00:12	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/16/03 00:12	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/16/03 00:12	FRW	7440-36-0		
Date Digested	07/11/03			07/11/03				

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Lab Project Number: 5028573
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502579758 Project Sample Number: 5028573-010 Date Collected: 07/07/03 00:00
Client Sample ID: TSP10-09 Matrix: Air Date Received: 07/09/03 09:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	0.0544	ug/m3	0.0500	07/16/03 00:40	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/16/03 00:40	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/16/03 00:40	FRW	7440-36-0		
Date Digested	07/11/03			07/11/03				

Lab Sample No: 502579766 Project Sample Number: 5028573-011 Date Collected: 07/02/03 00:00
Client Sample ID: PM1935-08 Matrix: Air Date Received: 07/09/03 09:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
TSP in Air by 40CFR	Method: 40CFR APG							
Total Particles	13.5	ug/m3	1.00	07/11/03 15:30	DMT			

Lab Sample No: 502579774 Project Sample Number: 5028573-012 Date Collected: 07/07/03 00:00
Client Sample ID: PM1935-09 Matrix: Air Date Received: 07/09/03 09:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
TSP in Air by 40CFR	Method: 40CFR APG							
Total Particles	27.6	ug/m3	1.00	07/11/03 15:30	DMT			

Lab Sample No: 502579782 Project Sample Number: 5028573-013 Date Collected: 07/02/03 00:00
Client Sample ID: PM1958-08 Matrix: Air Date Received: 07/09/03 09:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
TSP in Air by 40CFR	Method: 40CFR APG							
Total Particles	3.66	ug/m3	1.00	07/11/03 15:30	DMT			

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Lab Project Number: 5028573
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502579808 Project Sample Number: 5028573-014 Date Collected: 07/07/03 00:00
Client Sample ID: PM1958-09 Matrix: Air Date Received: 07/09/03 09:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
TSP in Air by 40CFR	Method: 40CFR APG							
Total Particles	16.6	ug/m3	1.00	07/11/03 15:30	DMT			

Lab Sample No: 502579816 Project Sample Number: 5028573-015 Date Collected: 07/02/03 00:00
Client Sample ID: PM2084-06 Matrix: Air Date Received: 07/09/03 09:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
TSP in Air by 40CFR	Method: 40CFR APG							
Total Particles	35.7	ug/m3	1.00	07/11/03 15:30	DMT			

Lab Sample No: 502579824 Project Sample Number: 5028573-016 Date Collected: 07/07/03 00:00
Client Sample ID: PM2084-07 Matrix: Air Date Received: 07/09/03 09:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
TSP in Air by 40CFR	Method: 40CFR APG							
Total Particles	18.7	ug/m3	1.00	07/11/03 15:30	DMT			

Lab Sample No: 502579832 Project Sample Number: 5028573-017 Date Collected: 07/02/03 00:00
Client Sample ID: PM2587-08 Matrix: Air Date Received: 07/09/03 09:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
TSP in Air by 40CFR	Method: 40CFR APG							
Total Particles	44.4	ug/m3	1.00	07/11/03 15:30	DMT			

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Lab Project Number: 5028573
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502579840 Project Sample Number: 5028573-018 Date Collected: 07/07/03 00:00
Client Sample ID: PM2587-09 Matrix: Air Date Received: 07/09/03 09:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
TSP in Air by 40CFR	Method: 40CFR APG							
Total Particles	22.7	ug/m3	1.00	07/11/03 15:30	DMT			

Lab Sample No: 502579857 Project Sample Number: 5028573-019 Date Collected: 07/02/03 00:00
Client Sample ID: PM2901-08 Matrix: Air Date Received: 07/09/03 09:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
TSP in Air by 40CFR	Method: 40CFR APG							
Total Particles	31.2	ug/m3	1.00	07/11/03 15:30	DMT			

Lab Sample No: 502579865 Project Sample Number: 5028573-020 Date Collected: 07/07/03 00:00
Client Sample ID: PM2901-09 Matrix: Air Date Received: 07/09/03 09:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
TSP in Air by 40CFR	Method: 40CFR APG							
Total Particles	21.2	ug/m3	1.00	07/11/03 15:30	DMT			

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Lab Project Number: 5028573
Client Project ID: RSR OU5/TX - 3D959

PARAMETER FOOTNOTES

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit

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QUALITY CONTROL DATA

Lab Project Number: 5028573
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 54833 Analysis Method: 40CFR APG
QC Batch Method: Analysis Description: Lead in Air by 40CFR
Associated Lab Samples: 502579600 502579634 502579642 502579659 502579667 502579675 502579683 502579691 502579717 502579758

METHOD BLANK: 502586548
Associated Lab Samples: 502579600 502579634 502579642 502579659 502579667 502579675 502579683 502579691 502579717 502579758

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Arsenic	ug/m3	ND	0.0500	
Lead	ug/m3	ND	0.0500	
Antimony	ug/m3	ND	0.0500	

LABORATORY CONTROL SAMPLE: 502586555

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Lead	mg/l	0.5000	0.4805	96	1

SAMPLE DUPLICATE: 502586563

Parameter	Units	502579600 Result	DUP Result	RPD	Footnotes
Arsenic	ug/m3	ND	ND	NC	
Lead	ug/m3	0.4130	0.5880	35	2
Antimony	ug/m3	ND	ND	NC	

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QUALITY CONTROL DATA

Lab Project Number: 5028573
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 54831 Analysis Method: 40CFR APG
QC Batch Method: Analysis Description: TSP in Air by 40CFR
Associated Lab Samples: 502579766 502579774 502579782 502579808 502579816
502579824 502579832 502579840 502579857 502579865

SAMPLE DUPLICATE: 502586506

Parameter	Units	502579766 Result	DUP Result	RPD	Footnotes
Total Particles	ug/m3	13.50	13.70	1	

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Lab Project Number: 5028573
Client Project ID: RSR OU5/TX - 3D959

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
[1]	As= 103.5% recovery; Sb= 98.4% recovery.
[2]	RPD outside control limits. Re-analysis confirms reported results.

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CHAIN OF CUSTODY RECORD - AIR

ENTACT
environmental tactics in waste management

4040 W. Royal Lane #136 • [redacted]g, Texas 75063
972.580.1323 • Fax 972.550.7464

PROJECT NAME/LOCATION [redacted] / TX
PROJECT NUMBER 3D[redacted]
PROJECT MANAGER P. M[redacted]
LABORATORY PACE

5028573

SAMPLED BY

KIRK GATES (PRINT NAME)

Kirk Gates SIGNATURE

ANALYSES

TURN AROUND TIME

- PRIORITY RUSH 24 HR ☐
- PRIORITY 3 DAY ☑
- STANDARD ☐

DATE 2003	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	ARSENIC (As)	ANTIMONY (Sb)	LEAD (Pb)	PM10			COMMENTS
7/2		TSP5-08	TSP #5	TSP-AIR	1.393	2006	✓	✓	✓				502579600
7/7		TSP5-09	↓		1.369	1985	✓	✓	✓				502579634
7/2		TSP7-08	TSP #7		1.291	1859	✓	✓	✓				502579642
7/7		TSP7-09	↓		1.421	2047	✓	✓	✓				502579659
7/2		TSP8-06	TSP #8		1.392	2005	✓	✓	✓				502579667
7/7		TSP8-07	↓		1.423	2021	✓	✓	✓				502579675
7/2		TSP9-08	TSP #9		1.470	2117	✓	✓	✓				502579683
7/7		TSP9-09	↓		1.510	2144	✓	✓	✓				502579691
7/2		TSP10-08	TSP 10		1.361	1960	✓	✓	✓				502579717
7/7		TSP10-09	↓	↓	1.590	2273	✓	✓	✓				502579758
7/2		PM1935-08	PM10-1935	PM10-AIR 1.189	~~1935 AM~~	1656				✓			502579766
7/7		PM1935-09	↓		1.188	1687				✓			502579774
7/2		PM1958-08	PM10-1958		1.192	1669				✓			502579782
7/7		PM1958-09	↓		1.198	1672				✓			502579808
7/2		PM2084-06	PM10-2084		1.189	1656				✓			502579816
7/7		PM2084-07	↓		1.190	1655				✓			502579824
7/2		PM2587-08	PM10-2587		1.178	1641				✓			502579832
7/7		PM2587-09	↓		1.178	1667				✓			502579840
7/2		PM2901-08	PM10-2901		1.177	1640				✓			502579857
7/7		PM2901-09	↓	↓	1.178	1662				✓			502579865

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	7/8/03	12:00	7-9-03 9:37				

METHOD OF SHIPMENT

REMARKS:

no nia - air samples

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July 17, 2003

Ms. Jenny Elste
Entact
4040 W. Royal Ln.
Suite 136
Irving, TX 75038

RE: Lab Project Number: 5028674
Client Project ID: RSR OU5/TX - 3D959

Dear Ms. Elste:

Enclosed are the analytical results for sample(s) received by the laboratory on July 11, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Jill Riddle

Jill Riddle
jill.riddle@pacelabs.com
Project Manager

Enclosures

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July 28, 2003

Case Narrative- Project Review
Project 5028674 (Entact)

Sample Receiving

No discrepancies were noted concerning sample receipt or sample transfer.

Metals in air- 40CFR APG.

For sample 502589252, there was no volume documented. The total ug result is listed in footnote #1, page 8.

Additional LCS results are listed in footnote #1, page 11.

All quality control indicators for this project (method blank, duplicate and LCS results) are within laboratory acceptance limits.

PM10 in air- 40CFR APJ.

- All quality control indicators for this project (duplicate results) are within laboratory acceptance limits.

I have reviewed the data from this project and have found all other discrepancies to be sufficiently covered in the footnotes in the sample results section and the quality control section of the final report.

Tim Harrison
Quality Assurance Officer
Pace Analytical Services

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Lab Project Number: 5028674
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502588916 Project Sample Number: 5028674-001 Date Collected: 07/08/03 00:00
Client Sample ID: TSP5-10 Matrix: Air Date Received: 07/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	0.0770	ug/m3	0.0500	07/16/03 13:45	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/16/03 13:45	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/16/03 13:45	FRW	7440-36-0		
Date Digested	07/15/03			07/15/03				

Lab Sample No: 502588932 Project Sample Number: 5028674-002 Date Collected: 07/08/03 00:00
Client Sample ID: TSP6-06 Matrix: Air Date Received: 07/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/16/03 13:56	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/16/03 13:56	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/16/03 13:56	FRW	7440-36-0		
Date Digested	07/15/03			07/15/03				

Lab Sample No: 502588957 Project Sample Number: 5028674-003 Date Collected: 07/09/03 00:00
Client Sample ID: TSP6-07 Matrix: Air Date Received: 07/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/16/03 14:38	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/16/03 14:38	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/16/03 14:38	FRW	7440-36-0		
Date Digested	07/15/03			07/15/03				

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Lab Project Number: 5028674
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502588973 Project Sample Number: 5028674-004 Date Collected: 07/08/03 00:00
Client Sample ID: TSP7-10 Matrix: Air Date Received: 07/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	0.661	ug/m3	0.0500	07/16/03 14:02	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/16/03 14:02	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/16/03 14:02	FRW	7440-36-0		
Date Digested	07/15/03			07/15/03				

Lab Sample No: 502588999 Project Sample Number: 5028674-005 Date Collected: 07/09/03 00:00
Client Sample ID: TSP7-11 Matrix: Air Date Received: 07/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	0.596	ug/m3	0.0500	07/16/03 14:44	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/16/03 14:44	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/16/03 14:44	FRW	7440-36-0		
Date Digested	07/15/03			07/15/03				

Lab Sample No: 502589005 Project Sample Number: 5028674-006 Date Collected: 07/08/03 00:00
Client Sample ID: TSP8-08 Matrix: Air Date Received: 07/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/16/03 14:27	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/16/03 14:27	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/16/03 14:27	FRW	7440-36-0		
Date Digested	07/15/03			07/15/03				

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Lab Project Number: 5028674
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502589039 Project Sample Number: 5028674-007 Date Collected: 07/09/03 00:00
Client Sample ID: TSP8-09 Matrix: Air Date Received: 07/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/16/03 14:49	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/16/03 14:49	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/16/03 14:49	FRW	7440-36-0		
Date Digested	07/15/03			07/15/03				

Lab Sample No: 502589054 Project Sample Number: 5028674-008 Date Collected: 07/08/03 00:00
Client Sample ID: TSP10-10 Matrix: Air Date Received: 07/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	0.0920	ug/m3	0.0500	07/16/03 14:32	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/16/03 14:32	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/16/03 14:32	FRW	7440-36-0		
Date Digested	07/15/03			07/15/03				

Lab Sample No: 502589088 Project Sample Number: 5028674-009 Date Collected: 07/09/03 00:00
Client Sample ID: TSP10-11 Matrix: Air Date Received: 07/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	0.270	ug/m3	0.0500	07/16/03 14:55	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/16/03 14:55	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/16/03 14:55	FRW	7440-36-0		
Date Digested	07/15/03			07/15/03				

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Lab Project Number: 5028674
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502589104 Project Sample Number: 5028674-010 Date Collected: 07/09/03 00:00
Client Sample ID: TSP11-10 Matrix: Air Date Received: 07/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	07/16/03 15:01	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/16/03 15:01	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/16/03 15:01	FRW	7440-36-0		
Date Digested	07/15/03			07/15/03				

Lab Sample No: 502589112 Project Sample Number: 5028674-011 Date Collected: 07/08/03 00:00
Client Sample ID: PM1935-10 Matrix: Air Date Received: 07/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	9.99	ug/m3	1.00	07/15/03 09:00	DMT			

Lab Sample No: 502589120 Project Sample Number: 5028674-012 Date Collected: 07/09/03 00:00
Client Sample ID: PM1935-11 Matrix: Air Date Received: 07/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	43.2	ug/m3	1.00	07/15/03 09:00	DMT			

Lab Sample No: 502589138 Project Sample Number: 5028674-013 Date Collected: 07/08/03 00:00
Client Sample ID: PM1957-06 Matrix: Air Date Received: 07/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	16.3	ug/m3	1.00	07/15/03 09:00	DMT			

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Lab Project Number: 5028674
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502589146 Project Sample Number: 5028674-014 Date Collected: 07/09/03 00:00
Client Sample ID: PM1957-07 Matrix: Air Date Received: 07/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	27.5	ug/m3	1.00	07/15/03 09:00	DMT			

Lab Sample No: 502589153 Project Sample Number: 5028674-015 Date Collected: 07/08/03 00:00
Client Sample ID: PM1958-10 Matrix: Air Date Received: 07/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	20.8	ug/m3	1.00	07/15/03 09:00	DMT			

Lab Sample No: 502589161 Project Sample Number: 5028674-016 Date Collected: 07/09/03 00:00
Client Sample ID: PM1958-11 Matrix: Air Date Received: 07/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	30.5	ug/m3	1.00	07/15/03 09:00	DMT			

Lab Sample No: 502589179 Project Sample Number: 5028674-017 Date Collected: 07/08/03 00:00
Client Sample ID: PM2084-08 Matrix: Air Date Received: 07/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	16.3	ug/m3	1.00	07/15/03 09:00	DMT			

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Lab Project Number: 5028674
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502589187 Project Sample Number: 5028674-018 Date Collected: 07/09/03 00:00
Client Sample ID: PM2084-09 Matrix: Air Date Received: 07/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	21.2	ug/m3	1.00	07/15/03 09:00	DMT			

Lab Sample No: 502589195 Project Sample Number: 5028674-019 Date Collected: 07/08/03 00:00
Client Sample ID: PM2587-10 Matrix: Air Date Received: 07/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	25.7	ug/m3	1.00	07/15/03 09:00	DMT			

Lab Sample No: 502589203 Project Sample Number: 5028674-020 Date Collected: 07/09/03 00:00
Client Sample ID: PM2587-11 Matrix: Air Date Received: 07/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	37.8	ug/m3	1.00	07/15/03 09:00	DMT			

Lab Sample No: 502589211 Project Sample Number: 5028674-021 Date Collected: 07/08/03 00:00
Client Sample ID: PM2901-10 Matrix: Air Date Received: 07/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	19.1	ug/m3	1.00	07/15/03 09:00	DMT			

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Lab Project Number: 5028674
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502589229 Project Sample Number: 5028674-022 Date Collected: 07/09/03 00:00
Client Sample ID: PM2901-11 Matrix: Air Date Received: 07/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	44.0	ug/m3	1.00	07/15/03 09:00	DMT			

Lab Sample No: 502589252 Project Sample Number: 5028674-023 Date Collected: 07/09/03 00:00
Client Sample ID: TP-FB-001 Matrix: Air Date Received: 07/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	07/16/03 15:06	FRW	7439-92-1	1	
Arsenic	ND	ug/m3	0.0500	07/16/03 15:06	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/16/03 15:06	FRW	7440-36-0		
Date Digested	07/15/03			07/15/03				

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Lab Project Number: 5028674
Client Project ID: RSR OU5/TX - 3D959

PARAMETER FOOTNOTES

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
[1]	No volume given. Total ug = 1.2168

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QUALITY CONTROL DATA

Lab Project Number: 5028674
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 55008 Analysis Method: 40CFR APG
QC Batch Method: Analysis Description: Lead in Air by 40CFR
Associated Lab Samples: 502588916 502588932 502588957 502588973 502588999 502589005 502589039 502589054 502589088 502589104 502589252

METHOD BLANK: 502596745
Associated Lab Samples: 502588916 502588932 502588957 502588973 502588999 502589005 502589039 502589054 502589088 502589104 502589252

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Arsenic	ug/m3	ND	0.0500	
Lead	ug/m3	ND	0.0500	
Antimony	ug/m3	ND	0.0500	

LABORATORY CONTROL SAMPLE: 502596752

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Lead	mg/l	0.5000	0.4680	94	1

SAMPLE DUPLICATE: 502596760

Parameter	Units	502588916 Result	DUP Result	RPD	Footnotes
Lead	ug/m3	0.07700	0.08400	9	
Arsenic	ug/m3	ND	ND	NC	
Antimony	ug/m3	ND	ND	NC	

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QUALITY CONTROL DATA

Lab Project Number: 5028674
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 54959 Analysis Method: 40CFR APJ
QC Batch Method: Analysis Description: PM10 in Air by 40CFR
Associated Lab Samples: 502589112 502589120 502589138 502589146 502589153
502589161 502589179 502589187 502589195 502589203
502589211 502589229

SAMPLE DUPLICATE: 502594153

Parameter	Units	502589112 Result	DUP Result	RPD	Footnotes
Total Particles	ug/m3	9.990	10.50	5	

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Lab Project Number: 5028674
Client Project ID: RSR OU5/TX - 3D959

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
[1]	As: 102% recovery. Sb: 98% recovery.

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CHAIN OF CUSTODY RECORD - AIR

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PROJECT NAME/LOCATION KSR045 / LALLA
PROJECT NUMBER 309[redacted]
PROJECT MANAGER P. McDONALD
LABORATORY PACE
5028674

SAMPLED BY

KIRK GATES (PRINT NAME) — Kirk Gates (SIGNATURE)

ANALYSES

TURN AROUND TIME
- PRIORITY RUSH 24 HR ☐
- PRIORITY 3 DAY ☑
- STANDARD ☐

DATE	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	As	Sb	Pb	PM10			COMMENTS
7/8		TSP5-10	TSP5	TSP-AIR	1.281	1844	✓	✓	✓				502588916
7/8		TSP6-06	TSP6		~~1.330~~ 1.146	~~1842~~ 1686	✓	✓	✓	502588932			FLOW: 1.147 VOL = 1686
7/9		TSP6-07	↓		1.330	1842	✓	✓	✓				502588957
7/8		TSP7-10	TSP7		1.183	1709	✓	✓	✓				502588973
7/9		TSP7-11	↓		1.109	1559	✓	✓	✓				502588999
7/8		TSP8-08	TSP8		1.317	1936	✓	✓	✓				502589005
7/9		TSP8-09	↓		1.377	1941	✓	✓	✓				502589039
7/8		TSP10-10	TSP10		1.907	2736	✓	✓	✓				502589054
7/9		TSP10-11	↓		1.842	2541	✓	✓	✓				502589088
7/9		TSP11-10	TSP11	↓	1.555	2232	✓	✓	✓				502589104
7/8		PM1935-10	PM10 1935	PM10-AIR	1.189	1661				✓			502589112
7/9		PM1935-11	↓		1.186	1618				✓			502589120
7/8		PM1957-06	PM10 1957		1.190	1686				✓			502589138
7/9		PM1957-09	↓		1.186	1600				✓			502589146
7/8		PM1958-10	PM10 1958		1.199	1669				✓			502589153
7/9		PM1958-11	↓		1.196	1678				✓			502589161
7/8		PM2084-08	PM10 2084		1.191	1693				✓			502589179
7/9		PM2084-09	↓		1.197	1621				✓			502589187
7/8		PM2587-10	PM10 2587		1.186	1669				✓			502589195
7/9		PM2587-11	↓	↓	1.177	1600				✓			502589203

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	7/10/03	13:00	Jim Riddle 7-11-03 1:34				

METHOD OF SHIPMENT: Fed Ex: 839200526413

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PROJECT NAME/LOCATION RSKOUS / DALLAS TX
PROJECT NUMBER 3D959
PROJECT MANAGER P. McDONALD
LABORATORY PACE
5028674

SAMPLED BY

KIRK GATES (PRINT NAME)

Kirk Gates SIGNATURE

ANALYSES

TURN AROUND TIME

PRIORITY RUSH 24 HR ☐
PRIORITY 3 DAY ☑
STANDARD ☐

DATE	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	As	Sb	Pb	PM10			COMMENTS
7/8		PM2901-10	PM10 2901	PM10-AIR	1.179	1653				✓			502589211
7/9		PM 2401-11	↓	↓	1.177	1594				✓			502589229
7/9		TP-FB-001	—	AIR	—	—	✓	✓	✓	✓			502589252

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	7/10/03	13:00	Jill Riddle 7-11-03 1:34				

METHOD OF SHIPMENT
Fed Ex 839200526413

REMARKS:

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July 21, 2003

Ms. Jenny Elste
Entact
4040 W. Royal Ln.
Suite 136
Irving, TX 75038

RE: Lab Project Number: 5028709
Client Project ID: RSR OU5/TX - 3D959

Dear Ms. Elste:

Enclosed are the analytical results for sample(s) received by the laboratory on July 15, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Jill Riddle

Jill Riddle
jill.riddle@pacelabs.com
Project Manager

Enclosures

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July 29, 2003

Case Narrative- Project Review
Project 5028709 (Entact)

Sample Receiving

No discrepancies were noted concerning sample receipt or sample transfer.

Metals in air- 40CFR APG.

Additional LCS results are listed in footnote #1, page 10.

All quality control indicators for this project (method blank, duplicate and LCS results) are within laboratory acceptance limits.

PM10 in air- 40CFR APJ.

All quality control indicators for this project (duplicate results) are within laboratory acceptance limits.

I have reviewed the data from this project and have found all other discrepancies to be sufficiently covered in the footnotes in the sample results section and the quality control section of the final report.

Tim Harrison

Tim Harrison
Quality Assurance Officer
Pace Analytical Services

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Lab Project Number: 5028709
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502593981 Project Sample Number: 5028709-001 Date Collected: 07/10/03 00:00
Client Sample ID: TSP6-08 Matrix: Air Date Received: 07/15/03 08:53

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/17/03 00:07	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/17/03 00:07	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/17/03 00:07	FRW	7440-36-0		
Date Digested	07/16/03			07/16/03				

Lab Sample No: 502593999 Project Sample Number: 5028709-002 Date Collected: 07/11/03 00:00
Client Sample ID: TSP6-09 Matrix: Air Date Received: 07/15/03 08:53

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/18/03 11:34	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/18/03 11:34	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/18/03 11:34	FRW	7440-36-0		
Date Digested	07/16/03			07/16/03				

Lab Sample No: 502594005 Project Sample Number: 5028709-003 Date Collected: 07/10/03 00:00
Client Sample ID: TSP7-12 Matrix: Air Date Received: 07/15/03 08:53

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	0.158	ug/m3	0.0500	07/17/03 00:19	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/17/03 00:19	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/17/03 00:19	FRW	7440-36-0		
Date Digested	07/16/03			07/16/03				

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Lab Project Number: 5028709
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502594013 Project Sample Number: 5028709-004 Date Collected: 07/11/03 00:00
Client Sample ID: TSP7-13 Matrix: Air Date Received: 07/15/03 08:53

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/18/03 11:40	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/18/03 11:40	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/18/03 11:40	FRW	7440-36-0		
Date Digested	07/16/03			07/16/03				

Lab Sample No: 502594021 Project Sample Number: 5028709-005 Date Collected: 07/10/03 00:00
Client Sample ID: TSP10-12 Matrix: Air Date Received: 07/15/03 08:53

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	0.122	ug/m3	0.0500	07/17/03 00:24	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/17/03 00:24	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/17/03 00:24	FRW	7440-36-0		
Date Digested	07/16/03			07/16/03				

Lab Sample No: 502594039 Project Sample Number: 5028709-006 Date Collected: 07/11/03 00:00
Client Sample ID: TSP10-13 Matrix: Air Date Received: 07/15/03 08:53

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/18/03 11:46	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/18/03 11:46	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/18/03 11:46	FRW	7440-36-0		
Date Digested	07/16/03			07/16/03				

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Lab Project Number: 5028709
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502594047 Project Sample Number: 5028709-007 Date Collected: 07/10/03 00:00
Client Sample ID: TSP11-11 Matrix: Air Date Received: 07/15/03 08:53

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	0.513	ug/m3	0.0500	07/17/03 00:30	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/17/03 00:30	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/17/03 00:30	FRW	7440-36-0		
Date Digested	07/16/03			07/16/03				

Lab Sample No: 502594054 Project Sample Number: 5028709-008 Date Collected: 07/11/03 00:00
Client Sample ID: TSP11-12 Matrix: Air Date Received: 07/15/03 08:53

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	07/18/03 12:09	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/18/03 12:09	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/18/03 12:09	FRW	7440-36-0		
Date Digested	07/16/03			07/16/03				

Lab Sample No: 502594062 Project Sample Number: 5028709-009 Date Collected: 07/10/03 00:00
Client Sample ID: PM1958-12 Matrix: Air Date Received: 07/15/03 08:53

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	36.8	ug/m3	1.00	07/16/03 10:00	DMT			

Lab Sample No: 502594070 Project Sample Number: 5028709-010 Date Collected: 07/11/03 00:00
Client Sample ID: PM1958-13 Matrix: Air Date Received: 07/15/03 08:53

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	13.7	ug/m3	1.00	07/16/03 10:00	DMT			

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Lab Project Number: 5028709
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502594088 Project Sample Number: 5028709-011 Date Collected: 07/10/03 00:00
Client Sample ID: PM1935-12 Matrix: Air Date Received: 07/15/03 08:53

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	33.6	ug/m3	1.00	07/16/03 10:00	DMT			

Lab Sample No: 502594096 Project Sample Number: 5028709-012 Date Collected: 07/11/03 00:00
Client Sample ID: PM1935-13 Matrix: Air Date Received: 07/15/03 08:53

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	11.9	ug/m3	1.00	07/16/03 10:00	DMT			

Lab Sample No: 502594104 Project Sample Number: 5028709-013 Date Collected: 07/10/03 00:00
Client Sample ID: PM2084-10 Matrix: Air Date Received: 07/15/03 08:53

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	12.6	ug/m3	1.00	07/16/03 10:00	DMT			

Lab Sample No: 502594112 Project Sample Number: 5028709-014 Date Collected: 07/11/03 00:00
Client Sample ID: PM2084-11 Matrix: Air Date Received: 07/15/03 08:53

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	6.75	ug/m3	1.00	07/16/03 10:00	DMT			

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Lab Project Number: 5028709
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502594120 Project Sample Number: 5028709-015 Date Collected: 07/10/03 00:00
Client Sample ID: PM2587-12 Matrix: Air Date Received: 07/15/03 08:53

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	24.0	ug/m3	1.00	07/16/03 10:00	DMT			

Lab Sample No: 502594138 Project Sample Number: 5028709-016 Date Collected: 07/11/03 00:00
Client Sample ID: PM2587-13 Matrix: Air Date Received: 07/15/03 08:53

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	9.86	ug/m3	1.00	07/16/03 10:00	DMT			

Lab Sample No: 502594146 Project Sample Number: 5028709-017 Date Collected: 07/10/03 00:00
Client Sample ID: PM2901-12 Matrix: Air Date Received: 07/15/03 08:53

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	31.4	ug/m3	1.00	07/16/03 10:00	DMT			

Lab Sample No: 502594161 Project Sample Number: 5028709-018 Date Collected: 07/11/03 00:00
Client Sample ID: PM2901-13 Matrix: Air Date Received: 07/15/03 08:53

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	8.86	ug/m3	1.00	07/16/03 10:00	DMT			

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Lab Project Number: 5028709
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502594179 Project Sample Number: 5028709-019 Date Collected: 07/10/03 00:00
Client Sample ID: TP-FB-002 Matrix: Air Date Received: 07/15/03 08:53

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	07/18/03 11:29	FRW	7439-92-1	1	
Arsenic	ND	ug/m3	0.0500	07/18/03 11:29	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/18/03 11:29	FRW	7440-36-0		
Date Digested	07/16/03			07/16/03				
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	ND	ug/m3	1.00	07/16/03 10:00	DMT		2	

Lab Sample No: 502594187 Project Sample Number: 5028709-020 Date Collected: 07/11/03 00:00
Client Sample ID: TP-FB-003 Matrix: Air Date Received: 07/15/03 08:53

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	07/18/03 12:15	FRW	7439-92-1	1	
Arsenic	ND	ug/m3	0.0500	07/18/03 12:15	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/18/03 12:15	FRW	7440-36-0		
Date Digested	07/16/03			07/16/03				
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	ND	ug/m3	1.00	07/16/03 10:00	DMT		3	

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Lab Project Number: 5028709
Client Project ID: RSR OU5/TX - 3D959

PARAMETER FOOTNOTES

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
[1]	Non-detect for all reported analytes down to 10 ug/filter.
[2]	Initial wt. 4.1511 Final wt. 4.1508g Wt. difference -0.0003g
[3]	Initial wt. 4.1603g Final wt. 4.1609g Wt. difference +0.0006g

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QUALITY CONTROL DATA

Lab Project Number: 5028709
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 55048 Analysis Method: 40CFR APG
QC Batch Method: Analysis Description: Lead in Air by 40CFR
Associated Lab Samples: 502593981 502593999 502594005 502594013 502594021 502594039 502594047 502594054 502594179 502594187

METHOD BLANK: 502598063
Associated Lab Samples: 502593981 502593999 502594005 502594013 502594021 502594039 502594047 502594054 502594179 502594187

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Arsenic	ug/m3	ND	0.0500	
Lead	ug/m3	ND	0.0500	
Antimony	ug/m3	ND	0.0500	

LABORATORY CONTROL SAMPLE: 502598071

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Lead	mg/l	0.5000	0.4610	92	1

SAMPLE DUPLICATE: 502598089

Parameter	Units	502593981 Result	DUP Result	RPD	Footnotes
Lead	ug/m3	ND	ND	NC	
Arsenic	ug/m3	ND	ND	NC	
Antimony	ug/m3	ND	ND	NC	

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QUALITY CONTROL DATA

Lab Project Number: 5028709
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 55041 Analysis Method: 40CFR APJ
QC Batch Method: Analysis Description: PM10 in Air by 40CFR
Associated Lab Samples: 502594062 502594070 502594088 502594096 502594104
502594112 502594120 502594138 502594146 502594161
502594179 502594187

SAMPLE DUPLICATE: 502597958

Parameter	Units	502594062 Result	DUP Result	RPD	Footnotes
Total Particles	ug/m3	36.80	37.00	1	

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Lab Project Number: 5028709
Client Project ID: RSR OU5/TX - 3D959

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
[1]	As: 99% recovery. Sb: 100% recovery

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ENTACT
environmental tactics in waste management

CHAIN OF CUSTODY RECORD - AIR

4040 W. Royal Lane #136 • [redacted]g, Texas 75063
972.580.1323 • Fax 972.550.7464

PROJECT NAME/LOCATION KSK OLS - DALLAS TX
PROJECT NUMBER 3097[redacted]
PROJECT MANAGER P. McDONALD
LABORATORY PACE
5028709

SAMPLED BY

KIRK GATES (PRINT NAME)
Kirk Gates SIGNATURE

ANALYSES

TURN AROUND TIME

PRIORITY RUSH 24 HR ☐
PRIORITY 3 DAY ☒
STANDARD ☐

DATE	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	As	Sb	Pb	PM10			COMMENTS
7/10		TSP6-08	TSP6	TSP-AIR	1.307	1849	✓	✓	✓				502593981
7/11		TSP6-09	↓		1.314	1919	✓	✓	✓				502593999
7/10		TSP7-12	TSP7		1.146	1650	✓	✓	✓				502594005
7/11		TSP7-13	↓		1.413	2077	✓	✓	✓				502594013
7/10		TSP10-12	TSP10		1.546	2272	✓	✓	✓				502594021
7/11		TSP10-13	↓		1.596	2346	✓	✓	✓				502594039
7/10		TSP11-11	TSP11		1.540	2202	✓	✓	✓				502594047
7/11		TSP11-12	↓		1.425	2024	✓	✓	✓				502594054
7/10		~~TSP~~ PM1958-12	PM10-1958	PM10-AIR	1.199	1656				✓			502594062
7/11		~~PM~~ PM1958-13	↓		1.194	1666				✓			502594070
7/10		PM1935-12	PM10-1935		1.189	1671				✓			502594088
7/11		PM1935-13	↓		1.184	1623				✓			502594096
7/10		PM2084-10	PM10-2084		1.191	1685				✓			502594104
7/11		PM2084-11	↓		1.185	1689				✓			502594112
7/10		PM2587-12	PM10-2587		1.179	1645				✓			502594120
7/11		PM2587-13	↓		1.172	1693				✓			502594138
7/10		PM2901-12	PM10-2901		1.179	1668				✓			502594146
7/11		PM2901-13	↓	↓	1.185	1648				✓			502594161
7/10		TP-FB-002	—	AIR	—	—	✓	✓	✓	✓			502594179
7/11		TP-FB-003	—	↓	—	—	✓	✓	✓	✓			502594187

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	7/14/03	11:30	Jill Riddle 7-15-03 8:53				

METHOD OF SHIPMENT
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REMARKS:

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July 24, 2003

Ms. Jenny Elste
Entact
4040 W. Royal Ln.
Suite 136
Irving, TX 75038

RE: Lab Project Number: 5028840
Client Project ID: RSR OU5/TX - 3D959

Dear Ms. Elste:

Enclosed are the analytical results for sample(s) received by the laboratory on July 18, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Jill Riddle

Jill Riddle
jill.riddle@pacelabs.com
Project Manager

Enclosures

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July 28, 2003

Case Narrative- Project Review
Project 5028840 (Entact)

Sample Receiving

No discrepancies were noted concerning sample receipt or sample transfer.

Metals in air- 40CFR APG.

For samples 502608284, 502608292 and 502608300, there were no volumes documented. The total ug/filter result was less than 10 for each of these samples (footnote #1, page 10).

Additional LCS results are listed on page 15 (footnote #1, page 11).

All quality control indicators for this project (method blank, duplicate and LCS results) are within laboratory acceptance limits.

PM10 in air- 40CFR APJ.

All quality control indicators for this project (duplicate results) are within laboratory acceptance limits.

I have reviewed the data from this project and have found all other discrepancies to be sufficiently covered in the footnotes in the sample results section and the quality control section of the final report.

Tim Harrison

Tim Harrison
Quality Assurance Officer
Pace Analytical Services

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Lab Project Number: 5028840
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502607757 Project Sample Number: 5028840-001 Date Collected: 07/14/03 00:00
Client Sample ID: TSP6-10 Matrix: Air Date Received: 07/18/03 12:12

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	07/23/03	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/23/03	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/23/03	FRW	7440-36-0		
Date Digested	07/22/03			07/22/03				

Lab Sample No: 502607765 Project Sample Number: 5028840-002 Date Collected: 07/15/03 00:00
Client Sample ID: TSP6-11 Matrix: Air Date Received: 07/18/03 12:12

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	07/22/03 00:02	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/22/03 00:02	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/22/03 00:02	FRW	7440-36-0		
Date Digested	07/22/03			07/22/03				

Lab Sample No: 502607773 Project Sample Number: 5028840-003 Date Collected: 07/16/03 00:00
Client Sample ID: TSP6-12 Matrix: Air Date Received: 07/18/03 12:12

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	07/22/03 00:31	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/22/03 00:31	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/22/03 00:31	FRW	7440-36-0		
Date Digested	07/22/03			07/22/03				

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Lab Project Number: 5028840
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502607781 Project Sample Number: 5028840-004 Date Collected: 07/14/03 00:00
Client Sample ID: TSP7-14 Matrix: Air Date Received: 07/18/03 12:12

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	1.08	ug/m3	0.0500	07/22/03 23:28	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/22/03 23:28	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/22/03 23:28	FRW	7440-36-0		
Date Digested	07/22/03			07/22/03				

Lab Sample No: 502607799 Project Sample Number: 5028840-005 Date Collected: 07/15/03 00:00
Client Sample ID: TSP7-15 Matrix: Air Date Received: 07/18/03 12:12

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	0.555	ug/m3	0.0500	07/22/03 00:08	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/22/03 00:08	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/22/03 00:08	FRW	7440-36-0		
Date Digested	07/22/03			07/22/03				

Lab Sample No: 502607815 Project Sample Number: 5028840-006 Date Collected: 07/16/03 00:00
Client Sample ID: TSP7-16 Matrix: Air Date Received: 07/18/03 12:12

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	1.25	ug/m3	0.0500	07/22/03 00:37	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/22/03 00:37	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/22/03 00:37	FRW	7440-36-0		
Date Digested	07/22/03			07/22/03				

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Lab Project Number: 5028840
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502607880 Project Sample Number: 5028840-007 Date Collected: 07/14/03 00:00
Client Sample ID: TSP10-14 Matrix: Air Date Received: 07/18/03 12:12

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	0.0530	ug/m3	0.0500	07/22/03 23:34	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/22/03 23:34	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/22/03 23:34	FRW	7440-36-0		
Date Digested	07/22/03			07/22/03				

Lab Sample No: 502607955 Project Sample Number: 5028840-008 Date Collected: 07/15/03 00:00
Client Sample ID: TSP10-15 Matrix: Air Date Received: 07/18/03 12:12

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	0.258	ug/m3	0.0500	07/22/03 00:14	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/22/03 00:14	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/22/03 00:14	FRW	7440-36-0		
Date Digested	07/22/03			07/22/03				

Lab Sample No: 502607963 Project Sample Number: 5028840-009 Date Collected: 07/16/03 00:00
Client Sample ID: TSP10-16 Matrix: Air Date Received: 07/18/03 12:12

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	0.499	ug/m3	0.0500	07/22/03 00:42	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/22/03 00:42	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/22/03 00:42	FRW	7440-36-0		
Date Digested	07/22/03			07/22/03				

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Lab Project Number: 5028840
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502607997 Project Sample Number: 5028840-010 Date Collected: 07/14/03 00:00
Client Sample ID: TSP11-13 Matrix: Air Date Received: 07/18/03 12:12

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/22/03 23:51	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/22/03 23:51	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/22/03 23:51	FRW	7440-36-0		
Date Digested	07/22/03			07/22/03				

Lab Sample No: 502608003 Project Sample Number: 5028840-011 Date Collected: 07/15/03 00:00
Client Sample ID: TSP11-14 Matrix: Air Date Received: 07/18/03 12:12

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/22/03 00:19	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/22/03 00:19	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/22/03 00:19	FRW	7440-36-0		
Date Digested	07/22/03			07/22/03				

Lab Sample No: 502608011 Project Sample Number: 5028840-012 Date Collected: 07/16/03 00:00
Client Sample ID: TSP11-15 Matrix: Air Date Received: 07/18/03 12:12

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/22/03 01:00	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/22/03 01:00	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/22/03 01:00	FRW	7440-36-0		
Date Digested	07/22/03			07/22/03				

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Lab Project Number: 5028840
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502608029 Project Sample Number: 5028840-013 Date Collected: 07/14/03 00:00
Client Sample ID: PM1935-14 Matrix: Air Date Received: 07/18/03 12:12

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	55.1	ug/m3	1.00	07/22/03 16:00	DMT			

Lab Sample No: 502608037 Project Sample Number: 5028840-014 Date Collected: 07/15/03 00:00
Client Sample ID: PM1935-15 Matrix: Air Date Received: 07/18/03 12:12

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	61.9	ug/m3	1.00	07/22/03 16:00	DMT			

Lab Sample No: 502608060 Project Sample Number: 5028840-015 Date Collected: 07/16/03 00:00
Client Sample ID: PM1935-16 Matrix: Air Date Received: 07/18/03 12:12

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	47.7	ug/m3	1.00	07/22/03 16:00	DMT			

Lab Sample No: 502608078 Project Sample Number: 5028840-016 Date Collected: 07/14/03 00:00
Client Sample ID: PM1958-14 Matrix: Air Date Received: 07/18/03 12:12

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	37.8	ug/m3	1.00	07/22/03 16:00	DMT			

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Lab Project Number: 5028840
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502608086 Project Sample Number: 5028840-017 Date Collected: 07/15/03 00:00
Client Sample ID: PM1958-15 Matrix: Air Date Received: 07/18/03 12:12

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	53.4	ug/m3	1.00	07/22/03 16:00	DMT			

Lab Sample No: 502608102 Project Sample Number: 5028840-018 Date Collected: 07/16/03 00:00
Client Sample ID: PM1958-16 Matrix: Air Date Received: 07/18/03 12:12

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	31.3	ug/m3	1.00	07/22/03 16:00	DMT			

Lab Sample No: 502608110 Project Sample Number: 5028840-019 Date Collected: 07/14/03 00:00
Client Sample ID: PM2084-12 Matrix: Air Date Received: 07/18/03 12:12

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	30.5	ug/m3	1.00	07/22/03 16:00	DMT			

Lab Sample No: 502608136 Project Sample Number: 5028840-020 Date Collected: 07/15/03 00:00
Client Sample ID: PM2084-13 Matrix: Air Date Received: 07/18/03 12:12

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	53.7	ug/m3	1.00	07/22/03 16:00	DMT			

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Lab Project Number: 5028840
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502608144 Project Sample Number: 5028840-021 Date Collected: 07/16/03 00:00
Client Sample ID: PM2084-14 Matrix: Air Date Received: 07/18/03 12:12

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	25.7	ug/m3	1.00	07/22/03 16:00	DMT			

Lab Sample No: 502608151 Project Sample Number: 5028840-022 Date Collected: 07/14/03 00:00
Client Sample ID: PM2587-14 Matrix: Air Date Received: 07/18/03 12:12

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	38.0	ug/m3	1.00	07/22/03 16:00	DMT			

Lab Sample No: 502608169 Project Sample Number: 5028840-023 Date Collected: 07/15/03 00:00
Client Sample ID: PM2587-15 Matrix: Air Date Received: 07/18/03 12:12

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	58.2	ug/m3	1.00	07/22/03 16:00	DMT			

Lab Sample No: 502608177 Project Sample Number: 5028840-024 Date Collected: 07/16/03 00:00
Client Sample ID: PM2587-16 Matrix: Air Date Received: 07/18/03 12:12

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	43.5	ug/m3	1.00	07/22/03 16:00	DMT			

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Lab Project Number: 5028840
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502608193 Project Sample Number: 5028840-025 Date Collected: 07/14/03 00:00
Client Sample ID: PM2901-14 Matrix: Air Date Received: 07/18/03 12:12

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	32.1	ug/m3	1.00	07/22/03 16:00	DMT			

Lab Sample No: 502608219 Project Sample Number: 5028840-026 Date Collected: 07/15/03 00:00
Client Sample ID: PM2901-15 Matrix: Air Date Received: 07/18/03 12:12

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	54.4	ug/m3	1.00	07/22/03 16:00	DMT			

Lab Sample No: 502608235 Project Sample Number: 5028840-027 Date Collected: 07/16/03 00:00
Client Sample ID: PM2901-16 Matrix: Air Date Received: 07/18/03 12:12

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	40.1	ug/m3	1.00	07/22/03 16:00	DMT			

Lab Sample No: 502608284 Project Sample Number: 5028840-028 Date Collected: 07/14/03 00:00
Client Sample ID: TP-FB-004 Matrix: Air Date Received: 07/18/03 12:12

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	07/22/03 23:57	FRW	7439-92-1	1	
Arsenic	ND	ug/m3	0.0500	07/22/03 23:57	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/22/03 23:57	FRW	7440-36-0		
Date Digested	07/22/03			07/22/03				
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							

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Lab Project Number: 5028840
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502608284 Project Sample Number: 5028840-028 Date Collected: 07/14/03 00:00
Client Sample ID: TP-FB-004 Matrix: Air Date Received: 07/18/03 12:12

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Total Particles	ND	ug/m3	1.00	07/22/03 16:00	DMT		2	

Lab Sample No: 502608292 Project Sample Number: 5028840-029 Date Collected: 07/15/03 00:00
Client Sample ID: TP-FB-005 Matrix: Air Date Received: 07/18/03 12:12

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	07/22/03 00:25	FRW	7439-92-1	1	
Arsenic	ND	ug/m3	0.0500	07/22/03 00:25	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/22/03 00:25	FRW	7440-36-0		
Date Digested	07/22/03			07/22/03				
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	ND	ug/m3	1.00	07/22/03 16:00	DMT		3	

Lab Sample No: 502608300 Project Sample Number: 5028840-030 Date Collected: 07/16/03 00:00
Client Sample ID: TP-FB-006 Matrix: Air Date Received: 07/18/03 12:12

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	07/22/03 01:05	FRW	7439-92-1	1	
Arsenic	ND	ug/m3	0.0500	07/22/03 01:05	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/22/03 01:05	FRW	7440-36-0		
Date Digested	07/22/03			07/22/03				
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	ND	ug/m3	1.00	07/22/03 16:00	DMT		4	

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Lab Project Number: 5028840
Client Project ID: RSR OU5/TX - 3D959

PARAMETER FOOTNOTES

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
[1]	No volume given. Total ug/filter <10 for all reported analytes.
[2]	Initial wt. 4.1742 g. Final wt. 4.1740 g. Wt. difference -0.0002 g.
[3]	Initial wt. 4.1857 g. Final wt. 4.1846 g. Wt. difference -0.0011 g.
[4]	Initial wt. 4.1659 g. Final wt. 4.1651 g. Wt. difference -0.0008 g.

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QUALITY CONTROL DATA

Lab Project Number: 5028840
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 55328 Analysis Method: 40CFR APG
QC Batch Method: Analysis Description: Lead in Air by 40CFR
Associated Lab Samples: 502607757 502607765 502607773 502607781 502607799
502607815 502607880 502607955 502607963 502607997
502608003 502608011 502608284 502608292 502608300

METHOD BLANK: 502613102
Associated Lab Samples: 502607757 502607765 502607773 502607781 502607799 502607815 502607880
502607955 502607963 502607997 502608003 502608011 502608284 502608292
502608300

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Arsenic	ug/m3	ND	0.0500	
Lead	ug/m3	ND	0.0500	
Antimony	ug/m3	ND	0.0500	

LABORATORY CONTROL SAMPLE: 502613110

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Lead	mg/l	0.5000	0.4750	95	1

SAMPLE DUPLICATE: 502613128

Parameter	Units	502607757 Result	DUP Result	RPD	Footnotes
Lead	ug/m3	ND	ND	NC	
Arsenic	ug/m3	ND	ND	NC	
Antimony	ug/m3	ND	ND	NC	

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QUALITY CONTROL DATA

Lab Project Number: 5028840
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 55325 Analysis Method: 40CFR APJ

QC Batch Method: Analysis Description: PM10 in Air by 40CFR

Associated Lab Samples: 502608029 502608037 502608060 502608078 502608086
502608102 502608110 502608136 502608144 502608151
502608169 502608177 502608193 502608219 502608235
502608284 502608292 502608300

SAMPLE DUPLICATE: 502615941

Parameter	Units	502608029 Result	DUP Result	RPD	Footnotes
Total Particles	ug/m3	55.10	55.20	0	

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Lab Project Number: 5028840
Client Project ID: RSR OU5/TX - 3D959

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
[1]	As: 99% recovery. Sb: 96% recovery.

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ENTACT
environmental tactics in waste management

CHAIN OF CUSTODY RECORD - AIR

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PROJECT NAME/LOCATION KSROUS-VALLEY TX
PROJECT NUMBER 309[illegible]
PROJECT MANAGER P. McDonald
LABORATORY PACE
5028840

SAMPLED BY

Kirk Gates (PRINT NAME)
Kirk Gates SIGNATURE

ANALYSES

TURN AROUND TIME

PRIORITY RUSH 24 HR ☐
PRIORITY 3 DAY ☒
STANDARD ☐

DATE	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	AS	Sb	Pb	PM10			COMMENTS
7/14		TSP6-10	TSP6	TSP-Air	1.075	1548	✓	✓	✓				502607757
7/15		TSP6-11	TSP6	↓	1.367	1982	✓	✓	✓				502607765
7/16		TSP6-12	↓	↓	1.354	1936	✓	✓	✓				502607773
7/14		TSP7-14	TSP-7	↓	1.364	1944	✓	✓	✓				502607781
7/15		TSP7-15	↓	↓	1.444	2058	✓	✓	✓				502607799
7/16		TSP7-16	↓	↓	1.535	2234	✓	✓	✓				502607815
7/14		TSP10-14	TSP10	↓	1.504	2143	✓	✓	✓				502607880
7/15		TSP10-15	↓	↓	1.454	2084	✓	✓	✓				502607955
7/16		TSP10-16	↓	↓	1.411	2060	✓	✓	✓				502607963
7/14		TSP11-13	TSP11	↓	1.257	1773	✓	✓	✓				502607997
7/15		TSP11-14	↓	↓	1.450	2074	✓	✓	✓				502608003
7/16		TSP11-15	↓	↓	1.410	2066	✓	✓	✓				502608011
7/14		PM1935-14	PM10-1935	PM10-Air	1.189	1664				✓			502608029
7/15		PM1935-15	↓	↓	1.188	1647				✓			502608037
7/16		PM1935-16	↓	↓	1.195	1686				✓			502608060
7/14		PM1958-14	PM10-1958	↓	1.199	1638				✓			502608078
7/15		PM1958-15	↓	↓	1.197	1683				✓			502608086
7/16		PM1958-16	↓	↓	1.199	1686				✓			502608102
7/14		PM2084-12	PM10-2084	↓	1.190	1660				✓			502608110
7/15		PM2084-13	↓	↓	1.189	1677				✓			502608136

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	7/17/03	11:30			7-18-03	12:12	[signature]

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CHAIN OF CUSTODY RECORD - AIR

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PROJECT NAME/LOCATION [illegible] TX
PROJECT NUMBER 30959
PROJECT MANAGER P. McDonald
LABORATORY Vace
5028840

SAMPLED BY

KIRK GATES (PRINT NAME)

Kirk Gates (SIGNATURE)

ANALYSES

TURN AROUND TIME

- PRIORITY RUSH 24 HR ☐
- PRIORITY 3 DAY ☒
- STANDARD ☐

DATE	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	K5	50	Pb	PM10		COMMENTS
7/16		PM2084-14	PM10-2084	PM10AIR	1.191	1651				✓		5026081 44
7/14		PM2587-14	PM10-2587		1.177	1613				✓		5026081 51
7/15		PM2587-15	↓		1.176	1642				✓		5026081 69
7/16		PM2587-16	↓		1.178	1656				✓		5026081 77
7/14		PM2901-14	PM10-2901		1.188	1634				✓		5026081 93
7/15		PM2901-15	PM10-2901		1.179	1646				✓		5026082 19
7/16		PM2901-16	↓	↓	1.179	1652				✓		5026082 35
7/14		TP-FB-004	—	AIR	—	—	✓	✓	✓	✓		5026082 84
7/15		TP-FB-0045	—	↓	—	—	✓	✓	✓	✓		5026082 92
7/16		TP-FB-0056	—	↓	—	—						5026083 00

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	7/17/03	11:30			7-18-03	12:13	[signature]

METHOD OF SHIPMENT

REMARKS:

FOR EX 8857 8913 4988

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July 25, 2003

Ms. Jenny Elste
Entact
4040 W. Royal Ln.
Suite 136
Irving, TX 75038

RE: Lab Project Number: 5028885
Client Project ID: RSR OU5/TX - 3D959

Dear Ms. Elste:

Enclosed are the analytical results for sample(s) received by the laboratory on July 22, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Jill Riddle

Jill Riddle
jill.riddle@pacelabs.com
Project Manager

Enclosures

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July 29, 2003

Case Narrative- Project Review
Project 5028885 (Entact)

Sample Receiving

No discrepancies were noted concerning sample receipt or sample transfer.

Metals in air- 40CFR APG.

For samples 502614654 and 502614662, there were no volumes documented. The total ug/filter result was less than 10 for each of these samples (footnotes #2 and 4, page 7).

Additional LCS results are listed in footnote #1, page 10.

All quality control indicators for this project (method blank, duplicate and LCS results) are within laboratory acceptance limits.

PM10 in air- 40CFR APJ.

- All quality control indicators for this project (duplicate results) are within laboratory acceptance limits.

I have reviewed the data from this project and have found all other discrepancies to be sufficiently covered in the footnotes in the sample results section and the quality control section of the final report.

Tim Harrison

Tim Harrison
Quality Assurance Officer
Pace Analytical Services

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Lab Project Number: 5028885
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502614399 Project Sample Number: 5028885-001 Date Collected: 07/17/03 00:00
Client Sample ID: TSP6-13 Matrix: Air Date Received: 07/22/03 10:18

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/25/03 10:40	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/25/03 10:40	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/25/03 10:40	FRW	7440-36-0		
Date Digested	07/24/03			07/24/03				

Lab Sample No: 502614407 Project Sample Number: 5028885-002 Date Collected: 07/18/03 00:00
Client Sample ID: TSP6-14 Matrix: Air Date Received: 07/22/03 10:18

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/25/03 13:37	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/25/03 13:37	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/25/03 13:37	FRW	7440-36-0		
Date Digested	07/24/03			07/24/03				

Lab Sample No: 502614415 Project Sample Number: 5028885-003 Date Collected: 07/17/03 00:00
Client Sample ID: TSP7-17 Matrix: Air Date Received: 07/22/03 10:18

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	0.0688	ug/m3	0.0500	07/25/03 10:52	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/25/03 10:52	FRW	7440-38-2	1	
Antimony	ND	ug/m3	0.0500	07/25/03 10:52	FRW	7440-36-0		
Date Digested	07/24/03			07/24/03				

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Lab Project Number: 5028885
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502614423 Project Sample Number: 5028885-004 Date Collected: 07/18/03 00:00
Client Sample ID: TSP7-18 Matrix: Air Date Received: 07/22/03 10:18

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/25/03 13:43	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/25/03 13:43	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/25/03 13:43	FRW	7440-36-0		
Date Digested	07/24/03			07/24/03				

Lab Sample No: 502614472 Project Sample Number: 5028885-005 Date Collected: 07/17/03 00:00
Client Sample ID: TSP10-17 Matrix: Air Date Received: 07/22/03 10:18

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/25/03 10:57	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/25/03 10:57	FRW	7440-38-2	1	
Antimony	ND	ug/m3	0.0500	07/25/03 10:57	FRW	7440-36-0		
Date Digested	07/24/03			07/24/03				

Lab Sample No: 502614480 Project Sample Number: 5028885-006 Date Collected: 07/18/03 00:00
Client Sample ID: TSP10-18 Matrix: Air Date Received: 07/22/03 10:18

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/25/03 13:48	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/25/03 13:48	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/25/03 13:48	FRW	7440-36-0		
Date Digested	07/24/03			07/24/03				

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Lab Project Number: 5028885
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502614498 Project Sample Number: 5028885-007 Date Collected: 07/17/03 00:00
Client Sample ID: TSP11-16 Matrix: Air Date Received: 07/22/03 10:18

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	0.0535	ug/m3	0.0500	07/25/03 11:03	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/25/03 11:03	FRW	7440-38-2	1	
Antimony	ND	ug/m3	0.0500	07/25/03 11:03	FRW	7440-36-0		
Date Digested	07/24/03			07/24/03				

Lab Sample No: 502614506 Project Sample Number: 5028885-008 Date Collected: 07/18/03 00:00
Client Sample ID: TSP11-17 Matrix: Air Date Received: 07/22/03 10:18

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	07/25/03 13:54	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/25/03 13:54	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/25/03 13:54	FRW	7440-36-0		
Date Digested	07/24/03			07/24/03				

Lab Sample No: 502614514 Project Sample Number: 5028885-009 Date Collected: 07/17/03 00:00
Client Sample ID: PM1935-17 Matrix: Air Date Received: 07/22/03 10:18

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	54.0	ug/m3	1.00	07/24/03 15:30	DMT			

Lab Sample No: 502614563 Project Sample Number: 5028885-010 Date Collected: 07/18/03 00:00
Client Sample ID: PM1935-18 Matrix: Air Date Received: 07/22/03 10:18

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	40.5	ug/m3	1.00	07/24/03 15:30	DMT			

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Lab Project Number: 5028885
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502614571 Project Sample Number: 5028885-011 Date Collected: 07/17/03 00:00
Client Sample ID: PM1958-17 Matrix: Air Date Received: 07/22/03 10:18

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	35.1	ug/m3	1.00	07/24/03 15:30	DMT			

Lab Sample No: 502614589 Project Sample Number: 5028885-012 Date Collected: 07/18/03 00:00
Client Sample ID: PM1958-18 Matrix: Air Date Received: 07/22/03 10:18

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	6.45	ug/m3	1.00	07/24/03 15:30	DMT			

Lab Sample No: 502614597 Project Sample Number: 5028885-013 Date Collected: 07/17/03 00:00
Client Sample ID: PM2084-15 Matrix: Air Date Received: 07/22/03 10:18

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	30.9	ug/m3	1.00	07/24/03 15:30	DMT			

Lab Sample No: 502614605 Project Sample Number: 5028885-014 Date Collected: 07/18/03 00:00
Client Sample ID: PM2084-16 Matrix: Air Date Received: 07/22/03 10:18

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	10.9	ug/m3	1.00	07/24/03 15:30	DMT			

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Lab Project Number: 5028885
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502614613 Project Sample Number: 5028885-015 Date Collected: 07/17/03 00:00
Client Sample ID: PM2587-17 Matrix: Air Date Received: 07/22/03 10:18

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	31.7	ug/m3	1.00	07/24/03 15:30	DMT			

Lab Sample No: 502614621 Project Sample Number: 5028885-016 Date Collected: 07/18/03 00:00
Client Sample ID: PM2587-18 Matrix: Air Date Received: 07/22/03 10:18

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	16.1	ug/m3	1.00	07/24/03 15:30	DMT			

Lab Sample No: 502614639 Project Sample Number: 5028885-017 Date Collected: 07/17/03 00:00
Client Sample ID: PM2901-17 Matrix: Air Date Received: 07/22/03 10:18

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	31.6	ug/m3	1.00	07/24/03 15:30	DMT			

Lab Sample No: 502614647 Project Sample Number: 5028885-018 Date Collected: 07/18/03 00:00
Client Sample ID: PM2901-18 Matrix: Air Date Received: 07/22/03 10:18

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	14.5	ug/m3	1.00	07/24/03 15:30	DMT			

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Lab Project Number: 5028885
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502614654 Project Sample Number: 5028885-019 Date Collected: 07/17/03 00:00
Client Sample ID: TP-FB-007 Matrix: Air Date Received: 07/22/03 10:18

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	07/25/03 11:03	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/25/03 11:03	FRW	7440-38-2	1,2	
Antimony	ND	ug/m3	0.0500	07/25/03 11:03	FRW	7440-36-0		
Date Digested	07/24/03			07/24/03				
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	ND	ug/m3	1.00	07/24/03 15:30	DMT		3	

Lab Sample No: 502614662 Project Sample Number: 5028885-020 Date Collected: 07/18/03 00:00
Client Sample ID: TP-FB-008 Matrix: Air Date Received: 07/22/03 10:18

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	07/25/03 14:00	FRW	7439-92-1	4	
Arsenic	ND	ug/m3	0.0500	07/25/03 14:00	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/25/03 14:00	FRW	7440-36-0		
Date Digested	07/24/03			07/24/03				
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	ND	ug/m3	1.00	07/24/03 15:30	DMT		5	

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Lab Project Number: 5028885
Client Project ID: RSR OU5/TX - 3D959

PARAMETER FOOTNOTES

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
[1]	The closing QC associated with this sample was biased high. No target analytes were detected in the sample. Therefore, there was no laboratory bias.
[2]	No volume given. <10 ug/filter detected for all reported analytes
[3]	Initial wt. 4.1907g. Final wt. 4.1898g. Weight diff. -0.0009g
[4]	No volume given. <10 ug/filter for all reported analytes.
[5]	Initial wt. 4.1300g. Final wt. 4.1296g. Weight diff. -0.0004g.

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QUALITY CONTROL DATA

Lab Project Number: 5028885
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 55491 Analysis Method: 40CFR APG
QC Batch Method: Analysis Description: Lead in Air by 40CFR
Associated Lab Samples: 502614399 502614407 502614415 502614423 502614472 502614480 502614498 502614506 502614654 502614662

METHOD BLANK: 502621832
Associated Lab Samples: 502614399 502614407 502614415 502614423 502614472 502614480 502614498 502614506 502614654 502614662

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Arsenic	ug/m3	ND	0.0500	
Lead	ug/m3	ND	0.0500	
Antimony	ug/m3	ND	0.0500	

LABORATORY CONTROL SAMPLE: 502621840

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Lead	mg/l	0.5000	0.4822	96	1

SAMPLE DUPLICATE: 502621857

Parameter	Units	502614399 Result	DUP Result	RPD	Footnotes
Lead	ug/m3	ND	ND	NC	
Arsenic	ug/m3	ND	ND	NC	2
Antimony	ug/m3	ND	ND	NC	

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QUALITY CONTROL DATA

Lab Project Number: 5028885
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 55502 Analysis Method: 40CFR APJ
QC Batch Method: Analysis Description: PM10 in Air by 40CFR
Associated Lab Samples: 502614514 502614563 502614571 502614589 502614597
502614605 502614613 502614621 502614639 502614647
502614654 502614662

SAMPLE DUPLICATE: 502623358

Parameter	Units	502614514 Result	DUP Result	RPD	Footnotes
Total Particles	ug/m3	54.00	54.10	0	

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Lab Project Number: 5028885
Client Project ID: RSR OU5/TX - 3D959

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
[1]	As=106% recovery; Sb=99% recovery.
[2]	The closing QC associated with this sample was biased high. No target analytes were detected in the sample. Therefore, there was no laboratory bias.

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ENTACT
environmental tactics in waste management

CHAIN OF CUSTODY RECORD - AIR

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972.580.1323 • Fax 972.550.7464

PROJECT NAME/LOCATION DALLAS, TX
PROJECT NUMBER 3D[redacted]
PROJECT MANAGER P.M[redacted]DONALD
LABORATORY PACE
5028885

SAMPLED BY

KIRK GATES (PRINT NAME)
Kirk Gates SIGNATURE

ANALYSES

TURN AROUND TIME

PRIORITY RUSH 24 HR ☐
PRIORITY 3 DAY ☒
STANDARD ☐

DATE 2003	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	As	Sb	Pb	PM10			COMMENTS
7/17		TSP6-13	TSP 6	TSP-AIR	1.384	1978	X	X	X				502614399
7/18		TSP6-14	↓		1.353	1956							502614407
7/17		TSP7-17	TSP 7		1.438	2049							502614415
7/18		TSP7-18	↓		1.386	2003							502614423
7/17		TSP10-17	TSP 10		1.613	2298							502614472
7/18		TSP10-18	↓		1.416	2053							502614480
7/17		TSP11-16	TSP 11		1.374	1965							502614498
7/18		TSP11-17	↓		1.240	1797							502614506
7/17		PM1935-17	PM10 1935	PM10 AIR	1.189	1651				X			502614514
7/18		PM1935-18	↓		1.189	1651							502614563
7/17		PM1958-17	PM10 1958		1.201	1680							502614571
7/18		PM1958-18	↓		1.198	1675							502614589
7/17		PM2084-15	PM10 2084		1.191	1648							502614597
7/18		PM2084-16	↓		1.191	1666							502614605
7/17		PM2587-17	PM10 2587		1.179	1643							502614613
7/18		PM2587-18	↓		1.179	1643							502614621
7/17		PM2901-17	PM10 2901		1.180	1650							502614639
7/18		PM2901-18	↓		1.180	1645							502614647
7/17		~~FB~~ TP-FB-007		AIR	—	—	X	X	X	X			502614654
7/18		TP-FB-008		AIR	—	—	X	X	X	X			502614662

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	7/21/03	15:00			7.22.03	10:18	[signature]

METHOD OF SHIPMENT

REMARKS:

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T. Hart

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July 29, 2003

Ms. Jenny Elste
Entact
4040 W. Royal Ln.
Suite 136
Irving, TX 75038

RE: Lab Project Number: 5028934
Client Project ID: RSR OU5/TX - 3D959

Dear Ms. Elste:

Enclosed are the analytical results for sample(s) received by the laboratory on July 24, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Jill Riddle

Jill Riddle
jill.riddle@pacelabs.com
Project Manager

Enclosures

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July 30, 2003

Case Narrative- Project Review
Project 5028934 (Entact)

Sample Receiving

No discrepancies were noted concerning sample receipt or sample transfer.

Metals in air- 40CFR APG.

For samples 502620800 and 502620818, there were no volumes documented. The total ug/filter result was less than 10 for each of these samples (footnote #1, page 7).

Additional LCS results are listed in footnote #1, page 10).

All quality control indicators for this project (method blank, duplicate and LCS results) are within laboratory acceptance limits.

PM10 in air- 40CFR APJ.

All quality control indicators for this project (duplicate results) are within laboratory acceptance limits.

I have reviewed the data from this project and have found all other discrepancies to be sufficiently covered in the footnotes in the sample results section and the quality control section of the final report.

Tim Harrison

Tim Harrison
Quality Assurance Officer
Pace Analytical Services

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Lab Project Number: 5028934
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502620552 Project Sample Number: 5028934-001 Date Collected: 07/21/03 00:00
Client Sample ID: TSP5-11 Matrix: Air Date Received: 07/24/03 08:25

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	0.0930	ug/m3	0.0500	07/28/03 20:53	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/28/03 20:53	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/28/03 20:53	FRW	7440-36-0		
Date Digested	07/25/03			07/25/03				

Lab Sample No: 502620628 Project Sample Number: 5028934-002 Date Collected: 07/22/03 00:00
Client Sample ID: TSP5-12 Matrix: Air Date Received: 07/24/03 08:25

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	0.188	ug/m3	0.0500	07/28/03 21:39	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/28/03 21:39	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/28/03 21:39	FRW	7440-36-0		
Date Digested	07/25/03			07/25/03				

Lab Sample No: 502620644 Project Sample Number: 5028934-003 Date Collected: 07/21/03 00:00
Client Sample ID: TSP6-15 Matrix: Air Date Received: 07/24/03 08:25

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/28/03 21:04	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/28/03 21:04	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/28/03 21:04	FRW	7440-36-0		
Date Digested	07/25/03			07/25/03				

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Lab Project Number: 5028934
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502620651 Project Sample Number: 5028934-004 Date Collected: 07/22/03 00:00
Client Sample ID: TSP6-16 Matrix: Air Date Received: 07/24/03 08:25

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/28/03 21:44	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/28/03 21:44	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/28/03 21:44	FRW	7440-36-0		
Date Digested	07/25/03			07/25/03				

Lab Sample No: 502620669 Project Sample Number: 5028934-005 Date Collected: 07/21/03 00:00
Client Sample ID: TSP7-19 Matrix: Air Date Received: 07/24/03 08:25

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/28/03 21:10	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/28/03 21:10	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/28/03 21:10	FRW	7440-36-0		
Date Digested	07/25/03			07/25/03				

Lab Sample No: 502620677 Project Sample Number: 5028934-006 Date Collected: 07/22/03 00:00
Client Sample ID: TSP7-20 Matrix: Air Date Received: 07/24/03 08:25

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	0.564	ug/m3	0.0500	07/28/03 21:50	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/28/03 21:50	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/28/03 21:50	FRW	7440-36-0		
Date Digested	07/25/03			07/25/03				

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Lab Project Number: 5028934
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502620685 Project Sample Number: 5028934-007 Date Collected: 07/21/03 00:00
Client Sample ID: TSP10-19 Matrix: Air Date Received: 07/24/03 08:25

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	07/28/03 21:16	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/28/03 21:16	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/28/03 21:16	FRW	7440-36-0		
Date Digested	07/25/03			07/25/03				

Lab Sample No: 502620693 Project Sample Number: 5028934-008 Date Collected: 07/22/03 00:00
Client Sample ID: TSP10-20 Matrix: Air Date Received: 07/24/03 08:25

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	0.0760	ug/m3	0.0500	07/28/03 21:56	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/28/03 21:56	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/28/03 21:56	FRW	7440-36-0		
Date Digested	07/25/03			07/25/03				

Lab Sample No: 502620701 Project Sample Number: 5028934-009 Date Collected: 07/21/03 00:00
Client Sample ID: PM1935-19 Matrix: Air Date Received: 07/24/03 08:25

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	49.5	ug/m3	1.00	07/25/03 18:00	DMT			

Lab Sample No: 502620719 Project Sample Number: 5028934-010 Date Collected: 07/22/03 00:00
Client Sample ID: PM1935-20 Matrix: Air Date Received: 07/24/03 08:25

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	57.3	ug/m3	1.00	07/25/03 18:00	DMT			

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Lab Project Number: 5028934
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502620743 Project Sample Number: 5028934-011 Date Collected: 07/21/03 00:00
Client Sample ID: PM2084-17 Matrix: Air Date Received: 07/24/03 08:25

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	27.7	ug/m3	1.00	07/25/03 18:00	DMT			

Lab Sample No: 502620750 Project Sample Number: 5028934-012 Date Collected: 07/22/03 00:00
Client Sample ID: PM2084-18 Matrix: Air Date Received: 07/24/03 08:25

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	23.4	ug/m3	1.00	07/25/03 18:00	DMT			

Lab Sample No: 502620768 Project Sample Number: 5028934-013 Date Collected: 07/21/03 00:00
Client Sample ID: PM2587-19 Matrix: Air Date Received: 07/24/03 08:25

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	3.91	ug/m3	1.00	07/25/03 18:00	DMT			

Lab Sample No: 502620776 Project Sample Number: 5028934-014 Date Collected: 07/22/03 00:00
Client Sample ID: PM2587-20 Matrix: Air Date Received: 07/24/03 08:25

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	27.7	ug/m3	1.00	07/25/03 18:00	DMT			

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Lab Project Number: 5028934
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502620784 Project Sample Number: 5028934-015 Date Collected: 07/21/03 00:00
Client Sample ID: PM2901-19 Matrix: Air Date Received: 07/24/03 08:25

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	27.2	ug/m3	1.00	07/25/03 18:00	DMT			

Lab Sample No: 502620792 Project Sample Number: 5028934-016 Date Collected: 07/22/03 00:00
Client Sample ID: PM2901-20 Matrix: Air Date Received: 07/24/03 08:25

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	26.1	ug/m3	1.00	07/25/03 18:00	DMT			

Lab Sample No: 502620800 Project Sample Number: 5028934-017 Date Collected: 07/21/03 00:00
Client Sample ID: TP-FB-009 Matrix: Air Date Received: 07/24/03 08:25

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	07/28/03 21:21	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/28/03 21:21	FRW	7440-38-2	1	
Antimony	ND	ug/m3	0.0500	07/28/03 21:21	FRW	7440-36-0		
Date Digested	07/25/03			07/25/03				
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	ND	ug/m3	1.00	07/25/03 18:00	DMT		2	

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Lab Project Number: 5028934
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502620818 Project Sample Number: 5028934-018 Date Collected: 07/22/03 00:00
Client Sample ID: TP-FB-010 Matrix: Air Date Received: 07/24/03 08:25

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	07/28/03 22:02	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/28/03 22:02	FRW	7440-38-2	1	
Antimony	ND	ug/m3	0.0500	07/28/03 22:02	FRW	7440-36-0		
Date Digested	07/25/03			07/25/03				
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	ND	ug/m3	1.00	07/25/03 18:00	DMT		3	

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Lab Project Number: 5028934
Client Project ID: RSR OU5/TX - 3D959

PARAMETER FOOTNOTES

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
[1]	No volume given. Total ug <10 for all analytes.
[2]	Initial wt. 4.1893g. Final wt. 4.1883g. Weight diff. of -0.0010g.
[3]	Initial wt. 4.1722g. Final wt. 4.1730g. Weight diff. of +0.0008g.

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QUALITY CONTROL DATA

Lab Project Number: 5028934
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 55558 Analysis Method: 40CFR APG
QC Batch Method: Analysis Description: Lead in Air by 40CFR
Associated Lab Samples: 502620552 502620628 502620644 502620651 502620669 502620677 502620685 502620693 502620800 502620818

METHOD BLANK: 502626799
Associated Lab Samples: 502620552 502620628 502620644 502620651 502620669 502620677 502620685 502620693 502620800 502620818

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Arsenic	ug/m3	ND	0.0500	
Lead	ug/m3	ND	0.0500	
Antimony	ug/m3	ND	0.0500	

LABORATORY CONTROL SAMPLE: 502626807

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Lead	mg/l	0.5000	0.5250	105	1

SAMPLE DUPLICATE: 502626815

Parameter	Units	502620552 Result	DUP Result	RPD	Footnotes
Lead	ug/m3	0.09300	0.09000	3	
Arsenic	ug/m3	ND	ND	NC	
Antimony	ug/m3	ND	ND	NC	

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QUALITY CONTROL DATA

Lab Project Number: 5028934
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 55557 Analysis Method: 40CFR APJ
QC Batch Method: Analysis Description: PM10 in Air by 40CFR
Associated Lab Samples: 502620701 502620719 502620743 502620750 502620768
502620776 502620784 502620792 502620800 502620818

SAMPLE DUPLICATE: 502626781

Parameter	Units	502620701 Result	DUP Result	RPD	Footnotes
Total Particles	ug/m3	49.50	49.60	0	

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Lab Project Number: 5028934
Client Project ID: RSR OU5/TX - 3D959

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
[1]	As: 110% recovery. Sb: 110% recovery.

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CHAIN OF CUSTODY RECORD - AIR

ENTACT
environmental tactics in waste management

4040 W. Royal Lane #136 • Irving, Texas 75063
972.580.1323 • Fax 972.550.7464

PROJECT NAME/LOCATION: DALLAS, TX
PROJECT NUMBER: 3D959
PROJECT MANAGER: P. McDONALD
LABORATORY: PACE

50289 34

SAMPLED BY

Kirk Gates (PRINT NAME)

Kirk Gates SIGNATURE

ANALYSES

TURN AROUND TIME

PRIORITY RUSH 24 HR ☐
PRIORITY 3 DAY ☒
STANDARD ☐

2003 DATE	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	Pb	As	Sb	Pm 10			COMMENTS
7/21		TSP5-11	TSP 5	TSP-AIR	1.298	1849	X	X	X				5026 20552
7/22		TSP5-12	↓		1.350	1924							5026 20628
7/21		TSP6-15	TSP 6		1.346	1892							5026 20644
7/22		TSP6-16	↓		1.343	1981							5026 20651
7/21		TSP7-19	TSP 7		1.423	2049							5026 20669
7/22		TSP7-20	↓		1.400	1995							5026 20677
7/21		TSP10-19	TSP 10		1.583	2232							5026 20685
7/22		TSP10-20	↓		1.456	2089							5026 20693
7/21		PM1935-19	PM10 1935	PM10-AIR	1.191	1633				X			5026 20701
7/22		PM1935-20	↓		1.193	1636							5026 20719
7/21		PM2084-17	PM10 2084		1.192	1617							5026 20743
7/22		PM2084-18	↓		1.195	1679							5026 20750
7/21		PM2587-19	PM10 2587		1.180	1635							5026 20768
7/22		PM2587-20	↓		1.183	1617							5026 20776
7/21		PM2901-19	PM10 2901		1.182	1638							5026 20784
7/22		PM2901-20	↓	↓	1.183	1611				↓			5026 20792
7/21		TP-FB-009	—	AIR	—	—	X	X	X	X			5026 20800
7/22		TP-FB-010	—	AIR	—	—	X	X	X	X			5026 20818

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	7/23/03	15:10	Jill Riddle 7/24/03 8:25				

METHOD OF SHIPMENT
Fed Ex: 8375 8903 5082

REMARKS:

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August 01, 2003

Ms. Jenny Elste
Entact
4040 W. Royal Ln.
Suite 136
Irving, TX 75038

RE: Lab Project Number: 5029050
Client Project ID: RSR OU5/TX - 3D959

Dear Ms. Elste:

Enclosed are the analytical results for sample(s) received by the laboratory on July 29, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Jill Riddle

Jill Riddle
jill.riddle@pacelabs.com
Project Manager

Enclosures

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August 4, 2003

Case Narrative- Project Review
Project 5029050 (Entact)

Sample Receiving

No discrepancies were noted concerning sample receipt or sample transfer.

Metals in air- 40CFR APG.

For samples 502634033, 502634041 and 502634058, there were no volumes documented. The total ug/filter result was less than 10 for each of these samples (footnotes #1 and 4, page 12).

Additional LCS results are listed in footnote #1, page 15.

All quality control indicators for this project (method blank, duplicate and LCS results) are within laboratory acceptance limits.

PM10 in air- 40CFR APJ.

All quality control indicators for this project (duplicate results) are within laboratory acceptance limits.

I have reviewed the data from this project and have found all other discrepancies to be sufficiently covered in the footnotes in the sample results section and the quality control section of the final report.

Tim Harrison

Tim Harrison
Quality Assurance Officer
Pace Analytical Services

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Lab Project Number: 5029050
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502633498 Project Sample Number: 5029050-001 Date Collected: 07/23/03 00:00
Client Sample ID: TSP5-13 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/31/03 19:27	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/31/03 19:27	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/31/03 19:27	FRW	7440-36-0		
Date Digested	07/31/03			07/31/03				

Lab Sample No: 502633506 Project Sample Number: 5029050-002 Date Collected: 07/24/03 00:00
Client Sample ID: TSP5-14 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/31/03 20:06	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/31/03 20:06	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/31/03 20:06	FRW	7440-36-0		
Date Digested	07/31/03			07/31/03				

Lab Sample No: 502633514 Project Sample Number: 5029050-003 Date Collected: 07/23/03 00:00
Client Sample ID: TSP6-17 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/31/03 19:38	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/31/03 19:38	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/31/03 19:38	FRW	7440-36-0		
Date Digested	07/31/03			07/31/03				

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Lab Project Number: 5029050
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502633522 Project Sample Number: 5029050-004 Date Collected: 07/24/03 00:00
Client Sample ID: TSP6-18 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/31/03 20:23	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/31/03 20:23	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/31/03 20:23	FRW	7440-36-0		
Date Digested	07/31/03			07/31/03				

Lab Sample No: 502633530 Project Sample Number: 5029050-005 Date Collected: 07/23/03 00:00
Client Sample ID: TSP7-21 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/31/03 19:44	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/31/03 19:44	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/31/03 19:44	FRW	7440-36-0		
Date Digested	07/31/03			07/31/03				

Lab Sample No: 502633548 Project Sample Number: 5029050-006 Date Collected: 07/24/03 00:00
Client Sample ID: TSP7-22 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/31/03 20:29	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/31/03 20:29	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/31/03 20:29	FRW	7440-36-0		
Date Digested	07/31/03			07/31/03				

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Lab Project Number: 5029050
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502633555 Project Sample Number: 5029050-007 Date Collected: 07/23/03 00:00
Client Sample ID: TSP10-21 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/31/03 19:49	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/31/03 19:49	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/31/03 19:49	FRW	7440-36-0		
Date Digested	07/31/03			07/31/03				

Lab Sample No: 502633563 Project Sample Number: 5029050-008 Date Collected: 07/24/03 00:00
Client Sample ID: TSP10-22 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/31/03 20:35	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/31/03 20:35	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/31/03 20:35	FRW	7440-36-0		
Date Digested	07/31/03			07/31/03				

Lab Sample No: 502633571 Project Sample Number: 5029050-009 Date Collected: 07/23/03 00:00
Client Sample ID: TSP11-18 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/31/03 19:55	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/31/03 19:55	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/31/03 19:55	FRW	7440-36-0		
Date Digested	07/31/03			07/31/03				

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Lab Project Number: 5029050
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502633589 Project Sample Number: 5029050-010 Date Collected: 07/24/03 00:00
Client Sample ID: TSP11-19 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	07/31/03 20:40	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/31/03 20:40	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/31/03 20:40	FRW	7440-36-0		
Date Digested	07/31/03			07/31/03				

Lab Sample No: 502633597 Project Sample Number: 5029050-011 Date Collected: 07/23/03 00:00
Client Sample ID: PM1935-21 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APG							
Total Particles	47.1	ug/m3	1.00	08/01/03 15:00	DMT			

Lab Sample No: 502633621 Project Sample Number: 5029050-012 Date Collected: 07/24/03 00:00
Client Sample ID: PM1935-22 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APG							
Total Particles	36.9	ug/m3	1.00	08/01/03 15:00	DMT			

Lab Sample No: 502633639 Project Sample Number: 5029050-013 Date Collected: 07/23/03 00:00
Client Sample ID: PM1957-08 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APG							
Total Particles	21.3	ug/m3	1.00	08/01/03 15:00	DMT			

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Lab Project Number: 5029050
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502633647 Project Sample Number: 5029050-014 Date Collected: 07/24/03 00:00
Client Sample ID: PM1957-09 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APG							
Total Particles	24.9	ug/m3	1.00	08/01/03 15:00	DMT			

Lab Sample No: 502633654 Project Sample Number: 5029050-015 Date Collected: 07/23/03 00:00
Client Sample ID: PM1958-19 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APG							
Total Particles	26.5	ug/m3	1.00	08/01/03 15:00	DMT			

Lab Sample No: 502633662 Project Sample Number: 5029050-016 Date Collected: 07/24/03 00:00
Client Sample ID: PM1958-20 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APG							
Total Particles	26.1	ug/m3	1.00	08/01/03 15:00	DMT			

Lab Sample No: 502633670 Project Sample Number: 5029050-017 Date Collected: 07/23/03 00:00
Client Sample ID: PM2084-19 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APG							
Total Particles	20.3	ug/m3	1.00	08/01/03 15:00	DMT			

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Lab Project Number: 5029050
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502633688 Project Sample Number: 5029050-018 Date Collected: 07/24/03 00:00
Client Sample ID: PM2084-20 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APG							
Total Particles	24.6	ug/m3	1.00	08/01/03 15:00	DMT			

Lab Sample No: 502633696 Project Sample Number: 5029050-019 Date Collected: 07/23/03 00:00
Client Sample ID: PM2587-21 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APG							
Total Particles	26.6	ug/m3	1.00	08/01/03 15:00	DMT			

Lab Sample No: 502633704 Project Sample Number: 5029050-020 Date Collected: 07/24/03 00:00
Client Sample ID: PM2587-22 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APG							
Total Particles	29.4	ug/m3	1.00	08/01/03 15:00	DMT			

Lab Sample No: 502633712 Project Sample Number: 5029050-021 Date Collected: 07/23/03 00:00
Client Sample ID: PM2901-21 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APG							
Total Particles	32.6	ug/m3	1.00	08/01/03 15:00	DMT			

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Lab Project Number: 5029050
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502633720 Project Sample Number: 5029050-022 Date Collected: 07/24/03 00:00
Client Sample ID: PM2901-22 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APG							
Total Particles	29.5	ug/m3	1.00	08/01/03 15:00	DMT			

Lab Sample No: 502633761 Project Sample Number: 5029050-023 Date Collected: 07/25/03 00:00
Client Sample ID: TSP5-15 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	07/31/03 20:52	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/31/03 20:52	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/31/03 20:52	FRW	7440-36-0		
Date Digested	07/31/03			07/31/03				

Lab Sample No: 502633779 Project Sample Number: 5029050-024 Date Collected: 07/25/03 00:00
Client Sample ID: TSP6-19 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	07/31/03 20:57	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/31/03 20:57	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/31/03 20:57	FRW	7440-36-0		
Date Digested	07/31/03			07/31/03				

Lab Sample No: 502633787 Project Sample Number: 5029050-025 Date Collected: 07/25/03 00:00
Client Sample ID: TSP7-23 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	07/31/03 21:03	FRW	7439-92-1		

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Lab Project Number: 5029050
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502633787 Project Sample Number: 5029050-025 Date Collected: 07/25/03 00:00
Client Sample ID: TSP7-23 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Arsenic	ND	ug/m3	0.0500	07/31/03 21:03	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/31/03 21:03	FRW	7440-36-0		
Date Digested	07/31/03			07/31/03				

Lab Sample No: 502633795 Project Sample Number: 5029050-026 Date Collected: 07/25/03 00:00
Client Sample ID: TSP8-10 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/31/03 21:09	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/31/03 21:09	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/31/03 21:09	FRW	7440-36-0		
Date Digested	07/31/03			07/31/03				

Lab Sample No: 502633803 Project Sample Number: 5029050-027 Date Collected: 07/25/03 00:00
Client Sample ID: TSP10-23 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/31/03 21:14	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/31/03 21:14	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/31/03 21:14	FRW	7440-36-0		
Date Digested	07/31/03			07/31/03				

Lab Sample No: 502633811 Project Sample Number: 5029050-028 Date Collected: 07/25/03 00:00
Client Sample ID: TSP11-20 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	07/31/03 21:31	FRW	7439-92-1		

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Lab Project Number: 5029050
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502633811 Project Sample Number: 5029050-028 Date Collected: 07/25/03 00:00
Client Sample ID: TSP11-20 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Arsenic	ND	ug/m3	0.0500	07/31/03 21:31	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	07/31/03 21:31	FRW	7440-36-0		
Date Digested	07/31/03			07/31/03				

Lab Sample No: 502633829 Project Sample Number: 5029050-029 Date Collected: 07/25/03 00:00
Client Sample ID: PM1935-23 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	24.7	ug/m3	1.00	08/01/03 15:00	DMT			

Lab Sample No: 502633837 Project Sample Number: 5029050-030 Date Collected: 07/25/03 00:00
Client Sample ID: PM1958-21 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	17.4	ug/m3	1.00	08/01/03 15:00	DMT			

Lab Sample No: 502633845 Project Sample Number: 5029050-031 Date Collected: 07/25/03 00:00
Client Sample ID: PM2084-21 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	8.00	ug/m3	1.00	08/01/03 15:00	DMT			

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Lab Project Number: 5029050
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502633852 Project Sample Number: 5029050-032 Date Collected: 07/25/03 00:00
Client Sample ID: PM2587-23 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	20.0	ug/m3	1.00	08/01/03 15:00	DMT			

Lab Sample No: 502633860 Project Sample Number: 5029050-033 Date Collected: 07/25/03 00:00
Client Sample ID: PM2901-23 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	18.4	ug/m3	1.00	08/01/03 15:00	DMT			

Lab Sample No: 502634033 Project Sample Number: 5029050-034 Date Collected: 07/23/03 00:00
Client Sample ID: TP-FB-011 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	07/31/03 20:01	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/31/03 20:01	FRW	7440-38-2	1	
Antimony	ND	ug/m3	0.0500	07/31/03 20:01	FRW	7440-36-0		
Date Digested	07/31/03			07/31/03				
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	ND	ug/m3	1.00	08/01/03 15:00	DMT		2	

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Lab Project Number: 5029050
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502634041 Project Sample Number: 5029050-035 Date Collected: 07/24/03 00:00
Client Sample ID: TP-FB-012 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	07/31/03 20:46	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/31/03 20:46	FRW	7440-38-2	1	
Antimony	ND	ug/m3	0.0500	07/31/03 20:46	FRW	7440-36-0		
Date Digested	07/31/03			07/31/03				
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	ND	ug/m3	1.00	08/01/03 15:00	DMT		3	

Lab Sample No: 502634058 Project Sample Number: 5029050-036 Date Collected: 07/25/03 00:00
Client Sample ID: TP-FB-013 Matrix: Air Date Received: 07/29/03 10:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	07/31/03 21:37	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	07/31/03 21:37	FRW	7440-38-2	4	
Antimony	ND	ug/m3	0.0500	07/31/03 21:37	FRW	7440-36-0		
Date Digested	07/31/03			07/31/03				
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	ND	ug/m3	1.00	08/01/03 15:00	DMT		5	

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Lab Project Number: 5029050
Client Project ID: RSR OU5/TX - 3D959

PARAMETER FOOTNOTES

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
[1]	No volume given. Total ug <10 for all target analytes.
[2]	Initial wt. 4.2566g. Final wt. 4.2562g. Weight diff. -0.0004g.
[3]	Initial wt. 4.2392g. Final wt. 4.2381g. Weight diff. -0.0011g.
[4]	No volume given. total ug <10 for all target analytes.
[5]	Initial wt. 4.2313g. Final wt. 4.2304g. Weight diff -0.0009g.

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QUALITY CONTROL DATA

Lab Project Number: 5029050
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 55805 Analysis Method: 40CFR APG
QC Batch Method: Analysis Description: Lead in Air by 40CFR
Associated Lab Samples: 502633498 502633506 502633514 502633522 502633530
502633548 502633555 502633563 502633571 502633589
502633761 502633779 502633787 502633795 502633803
502633811 502634033 502634041 502634058

METHOD BLANK: 502640840
Associated Lab Samples: 502633498 502633506 502633514 502633522 502633530 502633548 502633555
502633563 502633571 502633589 502633761 502633779 502633787 502633795
502633803 502633811 502634033 502634041 502634058

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Arsenic	ug/m3	ND	0.0500	
Lead	ug/m3	ND	0.0500	
Antimony	ug/m3	ND	0.0500	

LABORATORY CONTROL SAMPLE: 502640857

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Lead	mg/l	0.5000	0.4800	96	1

SAMPLE DUPLICATE: 502640865

Parameter	Units	502633498 Result	DUP Result	RPD	Footnotes
Lead	ug/m3	ND	ND	NC	
Arsenic	ug/m3	ND	ND	NC	
Antimony	ug/m3	ND	ND	NC	

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QUALITY CONTROL DATA

Lab Project Number: 5029050
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 55804 Analysis Method: 40CFR APJ
QC Batch Method: Analysis Description: PM10 in Air by 40CFR
Associated Lab Samples: 502633597 502633621 502633639 502633647 502633654
502633662 502633670 502633688 502633696 502633704
502633712 502633720 502633829 502633837 502633845
502633852 502633860 502634033 502634041 502634058

SAMPLE DUPLICATE: 502640832

Parameter	Units	502633597 Result	DUP Result	RPD	Footnotes
Total Particles	ug/m3	47.10	47.10	0	

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Fax: 317.872.6189

Lab Project Number: 5029050
Client Project ID: RSR OU5/TX - 3D959

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
[1]	As: 101% recovery. Sb: 101% recovery.

REPORT OF LABORATORY ANALYSIS

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ENTACT
environmental tactics in waste management

CHAIN OF CUSTODY RECORD - AIR

4040 W. Royal Lane #136 • Irving, Texas 75063
972.580.1323 • Fax 972.550.7464

PROJECT NAME/LOCATION RSR005 / DALLAS
PROJECT NUMBER 30959
PROJECT MANAGER P. McDONALD
LABORATORY PACE
5029050

SAMPLED BY

KIRK GATES (PRINT NAME)
Kirk Gates SIGNATURE

ANALYSES

TURN AROUND TIME

PRIORITY RUSH 24 HR ☐
PRIORITY 3 DAY ☒
STANDARD ☐

DATE (2003)	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	Pb	As	Sb	PM_{10}			COMMENTS
7/23		TSP 5-13	TSP 5	TSP AIR	1.375	1959	X	X	X				5026334 98
7/24		TSP 5-14	↓		1.363	1895							5026335 06
7/23		TSP 6-17	TSP 6		1.383	2005							5026335 14
7/24		TSP 6-18	↓		1.378	1943							5026335 22
7/23		TSP 7-21	TSP 7		1.413	1992							5026335 30
7/24		TSP 7-22	↓		1.423	2006							5026335 48
7/23		TSP 10-21	TSP 10		1.460	2081							5026335 55
7/24		TSP 10-22	↓		1.471	2060							5026335 63
7/23		TSP 11-18	TSP 11		1.434	2015							5026335 71
7/24		TSP 11-19	↓		1.451	2068							5026335 89
7/23		PM1935-21	PM_{10} 1935	PM_{10} AIR	1.197	1630				X			5026335 97
7/24		PM1935-22	↓		1.194	1617							5026336 21
7/23		PM1957-08	PM_{10} 1957		1.193	1682							5026336 39
7/24		PM1957-09	↓		1.193	1633							5026336 47
7/23		PM1958-19	PM_{10} 1958		1.200	1692							5026336 54
7/24		PM1958-20	↓		1.202	1657							5026336 62
7/23		PM 2084-19	PM_{10} 2084		1.195	1685							5026336 70
7/24		PM 2084-20	↓		1.194	1635							5026336 88
7/23		PM2587-21	PM_{10} 2587		1.183	1685							5026336 96
7/24		PM2587-22	↓		1.181	1628							5026337 04

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:		RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	7/28/03	11:00	Jim Riddle	7-29-03 10:40				

METHOD OF SHIPMENT
Fed. Ex: 835789035093

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CHAIN OF CUSTODY RECORD - AIR

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PROJECT NAME/LOCATION KIRBY / DALLAS, TX
PROJECT NUMBER 3D9[redacted]
PROJECT MANAGER P. MCDONALD
LABORATORY PACE

SAMPLED BY

KIRK GATES (PRINT NAME)

Kirk Gates SIGNATURE

ANALYSES

TURN AROUND TIME

PRIORITY RUSH 24 HR ☐
PRIORITY 3 DAY ☒
STANDARD ☐

2003 DATE	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	Pb	As	Sb	PM_{10}			COMMENTS
7/23		PM2901-21	PM_{10} 2901	PM_{10} AIR	1.182	1684				X			5026337[illegible]2
7/24		PM2901-22	↓		1.182	1618				X			5026337[illegible]0
7/25		TSP5-15	TSP 5	TSP AIR	1.421	2075	X	X	X				5026337[illegible]1
7/25		TSP6-19	TSP 6	↓	1.349	1889	↓	↓	↓				5026337[illegible]9
7/25		TSP7-23	TSP 7		1.399	2056							5026337[illegible]7
7/25		TSP8-10	TSP 8		1.425	1995							5026337[illegible]5
7/25		TSP10-23	TSP 10		1.564	2314							5026338[illegible]3
7/25		TSP11-20	TSP 11	↓	1.275	1887							5026338[illegible]1
7/25		PM1935-23	PM_{10} 1935	PM_{10} AIR	1.185	1679				X			5026338[illegible]9
7/25		PM1958-21	PM_{10} 1958	↓	1.201	1725				↓			5026338[illegible]7
7/25		PM2084-21	PM_{10} 2084		1.197	1613							5026338[illegible]5
7/25		PM2587-23	PM_{10} 2587		1.174	1686							5026338[illegible]2
7/25		PM2901-23	PM_{10} 2901		1.176	1689							5026338[illegible]0
7/23		TP-FB-011		FB AIR			X	X	X	X			5026340[illegible]3
7/24		TP-FB 012		↓			↓	↓	↓	↓			5026340[illegible]1
7/25		TP-FB 013											5026340[illegible]8

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	7/28/03	11:00	Jill Riddle 7-29-03 10:40				

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August 05, 2003

Ms. Jenny Elste
Entact
4040 W. Royal Ln.
Suite 136
Irving, TX 75038

RE: Lab Project Number: 5029111
Client Project ID: RSR OU5/TX - 3D959

Dear Ms. Elste:

Enclosed are the analytical results for sample(s) received by the laboratory on July 31, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Jill Riddle

Jill Riddle
jill.riddle@pacelabs.com
Project Manager

Enclosures

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August 14, 2003

Case Narrative- Project Review
Project 5029111 (Entact)

Sample Receiving

No discrepancies were noted concerning sample receipt or sample transfer.

Metals in air- 40CFR APG.

For samples 502641400 and 502641418, there were no volumes documented. The total ug/filter result was less than 10 for each of these samples (footnote #1, page 8).

Additional LCS results are listed in footnote #1, page 11.

All quality control indicators for this project (method blank, duplicate and LCS results) are within laboratory acceptance limits.

PM10 in air- 40CFR APJ.

All quality control indicators for this project (duplicate results) are within laboratory acceptance limits.

I have reviewed the data from this project and have found all other discrepancies to be sufficiently covered in the footnotes in the sample results section and the quality control section of the final report.

Tim Harrison

Tim Harrison
Quality Manager
Pace Analytical Services

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Lab Project Number: 5029111
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502641137 Project Sample Number: 5029111-001 Date Collected: 07/28/03 00:00
Client Sample ID: TSP5-16 Matrix: Air Date Received: 07/31/03 10:09

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/04/03 19:32	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/04/03 19:32	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/04/03 19:32	FRW	7440-36-0		
Date Digested	08/04/03			08/04/03				

Lab Sample No: 502641145 Project Sample Number: 5029111-002 Date Collected: 07/29/03 00:00
Client Sample ID: TSP5-17 Matrix: Air Date Received: 07/31/03 10:09

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	0.903	ug/m3	0.0500	08/04/03 20:29	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/04/03 20:29	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/04/03 20:29	FRW	7440-36-0		
Date Digested	08/04/03			08/04/03				

Lab Sample No: 502641152 Project Sample Number: 5029111-003 Date Collected: 07/28/03 00:00
Client Sample ID: TSP6-20 Matrix: Air Date Received: 07/31/03 10:09

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/04/03 19:43	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/04/03 19:43	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/04/03 19:43	FRW	7440-36-0		
Date Digested	08/04/03			08/04/03				

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Lab Project Number: 5029111
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502641160 Project Sample Number: 5029111-004 Date Collected: 07/29/03 00:00
Client Sample ID: TSP6-21 Matrix: Air Date Received: 07/31/03 10:09

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/04/03 20:34	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/04/03 20:34	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/04/03 20:34	FRW	7440-36-0		
Date Digested	08/04/03			08/04/03				

Lab Sample No: 502641178 Project Sample Number: 5029111-005 Date Collected: 07/28/03 00:00
Client Sample ID: TSP7-24 Matrix: Air Date Received: 07/31/03 10:09

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/04/03 20:00	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/04/03 20:00	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/04/03 20:00	FRW	7440-36-0		
Date Digested	08/04/03			08/04/03				

Lab Sample No: 502641186 Project Sample Number: 5029111-006 Date Collected: 07/29/03 00:00
Client Sample ID: TSP7-25 Matrix: Air Date Received: 07/31/03 10:09

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/04/03 20:40	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/04/03 20:40	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/04/03 20:40	FRW	7440-36-0		
Date Digested	08/04/03			08/04/03				

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Lab Project Number: 5029111
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502641194 Project Sample Number: 5029111-007 Date Collected: 07/28/03 00:00
Client Sample ID: TSP8-11 Matrix: Air Date Received: 07/31/03 10:09

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/04/03 20:06	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/04/03 20:06	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/04/03 20:06	FRW	7440-36-0		
Date Digested	08/04/03			08/04/03				

Lab Sample No: 502641202 Project Sample Number: 5029111-008 Date Collected: 07/28/03 00:00
Client Sample ID: TSP10-24 Matrix: Air Date Received: 07/31/03 10:09

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/04/03 20:12	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/04/03 20:12	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/04/03 20:12	FRW	7440-36-0		
Date Digested	08/04/03			08/04/03				

Lab Sample No: 502641210 Project Sample Number: 5029111-009 Date Collected: 07/29/03 00:00
Client Sample ID: TSP10-25 Matrix: Air Date Received: 07/31/03 10:09

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/04/03 20:46	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/04/03 20:46	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/04/03 20:46	FRW	7440-36-0		
Date Digested	08/04/03			08/04/03				

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Lab Project Number: 5029111
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502641228 Project Sample Number: 5029111-010 Date Collected: 07/28/03 00:00
Client Sample ID: TSP11-21 Matrix: Air Date Received: 07/31/03 10:09

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	0.0870	ug/m3	0.0500	08/04/03 20:17	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/04/03 20:17	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/04/03 20:17	FRW	7440-36-0		
Date Digested	08/04/03			08/04/03				

Lab Sample No: 502641244 Project Sample Number: 5029111-011 Date Collected: 07/29/03 00:00
Client Sample ID: TSP11-22 Matrix: Air Date Received: 07/31/03 10:09

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	0.160	ug/m3	0.0500	08/04/03 20:52	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/04/03 20:52	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/04/03 20:52	FRW	7440-36-0		
Date Digested	08/04/03			08/04/03				

Lab Sample No: 502641277 Project Sample Number: 5029111-012 Date Collected: 07/28/03 00:00
Client Sample ID: PM1935-24 Matrix: Air Date Received: 07/31/03 10:09

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	56.3	ug/m3	1.00	08/04/03 10:00	DMT			

Lab Sample No: 502641285 Project Sample Number: 5029111-013 Date Collected: 07/29/03 00:00
Client Sample ID: PM1935-25 Matrix: Air Date Received: 07/31/03 10:09

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	76.5	ug/m3	1.00	08/04/03 10:00	DMT			

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Lab Project Number: 5029111
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502641319 Project Sample Number: 5029111-014 Date Collected: 07/28/03 00:00
Client Sample ID: PM1958-22 Matrix: Air Date Received: 07/31/03 10:09

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	42.2	ug/m3	1.00	08/04/03 10:00	DMT			

Lab Sample No: 502641335 Project Sample Number: 5029111-015 Date Collected: 07/29/03 00:00
Client Sample ID: PM1958-23 Matrix: Air Date Received: 07/31/03 10:09

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	40.6	ug/m3	1.00	08/04/03 10:00	DMT			

Lab Sample No: 502641343 Project Sample Number: 5029111-016 Date Collected: 07/28/03 00:00
Client Sample ID: PM2084-22 Matrix: Air Date Received: 07/31/03 10:09

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	38.4	ug/m3	1.00	08/04/03 10:00	DMT			

Lab Sample No: 502641350 Project Sample Number: 5029111-017 Date Collected: 07/29/03 00:00
Client Sample ID: PM2084-23 Matrix: Air Date Received: 07/31/03 10:09

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	37.4	ug/m3	1.00	08/04/03 10:00	DMT			

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Lab Project Number: 5029111
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502641368 Project Sample Number: 5029111-018 Date Collected: 07/28/03 00:00
Client Sample ID: PM2587-24 Matrix: Air Date Received: 07/31/03 10:09

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	41.1	ug/m3	1.00	08/04/03 10:00	DMT			

Lab Sample No: 502641376 Project Sample Number: 5029111-019 Date Collected: 07/29/03 00:00
Client Sample ID: PM2587-25 Matrix: Air Date Received: 07/31/03 10:09

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	37.6	ug/m3	1.00	08/04/03 10:00	DMT			

Lab Sample No: 502641384 Project Sample Number: 5029111-020 Date Collected: 07/28/03 00:00
Client Sample ID: PM2901-24 Matrix: Air Date Received: 07/31/03 10:09

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	40.5	ug/m3	1.00	08/04/03 10:00	DMT			

Lab Sample No: 502641392 Project Sample Number: 5029111-021 Date Collected: 07/29/03 00:00
Client Sample ID: PM2901-25 Matrix: Air Date Received: 07/31/03 10:09

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	38.4	ug/m3	1.00	08/04/03 10:00	DMT			

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Lab Project Number: 5029111
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502641400 Project Sample Number: 5029111-022 Date Collected: 07/28/03 00:00
Client Sample ID: TP-FB-014 Matrix: Air Date Received: 07/31/03 10:09

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/04/03 20:23	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/04/03 20:23	FRW	7440-38-2	1	
Antimony	ND	ug/m3	0.0500	08/04/03 20:23	FRW	7440-36-0		
Date Digested	08/04/03			08/04/03				
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	ND	ug/m3	1.00	08/04/03 10:00	DMT		2	

Lab Sample No: 502641418 Project Sample Number: 5029111-023 Date Collected: 07/29/03 00:00
Client Sample ID: TP-FB-015 Matrix: Air Date Received: 07/31/03 10:09

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/05/03 08:12	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/05/03 08:12	FRW	7440-38-2	1	
Antimony	ND	ug/m3	0.0500	08/05/03 08:12	FRW	7440-36-0		
Date Digested	08/04/03			08/04/03				
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	ND	ug/m3	1.00	08/04/03 10:00	DMT		3	

REPORT OF LABORATORY ANALYSIS

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Phone: 317.875.5894
Fax: 317.872.6189

Lab Project Number: 5029111
Client Project ID: RSR OU5/TX - 3D959

PARAMETER FOOTNOTES

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
[1]	No volume given. Total ug <10 for all target analytes.
[2]	Initial wt. 4.5973g. Final wt. 4.5965g. Weight diff. -0.0008g.
[3]	Initial wt. 4.6895g. Final wt. 4.6892g. Weight diff. -0.0003g.

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QUALITY CONTROL DATA

Lab Project Number: 5029111
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 55964 Analysis Method: 40CFR APG
QC Batch Method: Analysis Description: Lead in Air by 40CFR
Associated Lab Samples: 502641137 502641145 502641152 502641160 502641178
502641186 502641194 502641202 502641210 502641228
502641244 502641400 502641418

METHOD BLANK: 502651649
Associated Lab Samples: 502641137 502641145 502641152 502641160 502641178 502641186 502641194
502641202 502641210 502641228 502641244 502641400 502641418

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Arsenic	ug/m3	ND	0.0500	
Lead	ug/m3	ND	0.0500	
Antimony	ug/m3	ND	0.0500	

LABORATORY CONTROL SAMPLE: 502651656

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Lead	mg/l	0.5000	0.4840	97	1

SAMPLE DUPLICATE: 502651664

Parameter	Units	502641137 Result	DUP Result	RPD	Footnotes
Lead	ug/m3	ND	ND	NC	
Arsenic	ug/m3	ND	ND	NC	
Antimony	ug/m3	ND	ND	NC	

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QUALITY CONTROL DATA

Lab Project Number: 5029111
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 55963 Analysis Method: 40CFR APJ
QC Batch Method: Analysis Description: PM10 in Air by 40CFR
Associated Lab Samples: 502641277 502641285 502641319 502641335 502641343
502641350 502641368 502641376 502641384 502641392
502641400 502641418

SAMPLE DUPLICATE: 502651631

Parameter	Units	502641277 Result	DUP Result	RPD	Footnotes
Total Particles	ug/m3	56.30	56.30	0	

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Lab Project Number: 5029111
Client Project ID: RSR OU5/TX - 3D959

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
[1]	As: 98% recovery. Sb: 97% recovery.

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ENTACT
environmental tactics in waste management

CHAIN OF CUSTODY RECORD - AIR

4040 W. Royal Lane #136 • [redacted]g, Texas 75063
972.580.1323 • Fax 972.550.7464

PROJECT NAME/LOCATION RSK 045 / TX
PROJECT NUMBER 3D[redacted]
PROJECT MANAGER P. M[redacted]ALD
LABORATORY PACE

5029111

SAMPLED BY

KIRK GATES (PRINT NAME)

Kirk Gates SIGNATURE

ANALYSES

TURN AROUND TIME

- PRIORITY RUSH 24 HR ☐
- PRIORITY 3 DAY ☒
- STANDARD ☐

DATE	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	Pb	As	Sb	PM_{10}			COMMENTS
7/28		TSP5-16	TSP-5	AIR	1.370	2014	X	X	X				5026641137
7/29		TSP5-17	↓		1.438	2100							5026641145
7/28		TSP6-20	TSP6		1.369	1991							5026641152
7/29		TSP6-21	↓		1.348	1961							5026641160
7/28		TSP7-24	TSP7		1.388	2041							5026641178
7/29		TSP7-25	↓		1.409	2071							5026641186
7/28		TSP8-11	TSP8		1.462	2120							5026641194
7/28		TSP10-24	TSP10		1.473	2158							5026641202
7/29		TSP10-25	↓		1.504	2211							5026641210
7/28		TSP11-21	TSP11		1.339	1968							5026641228
7/29		TSP11-22	↓		1.382	1949	↓	↓	↓				5026641244
7/28		PM1935-24	PM_{10} 1935		1.195	1709				X			5026641277
7/29		PM1935-25	↓		1.187	1680							5026641285
7/28		PM1958-22	PM_{10} 1958		1.209	1717							5026641319
7/29		PM1958-23	↓		1.200	1699							5026641335
7/28		PM2084-22	PM_{10} 2084		1.196	1676							5026641343
7/29		PM2084-23	↓		1.185	1666							5026641350
7/28		PM2587-24	PM_{10} 2587		1.179	1675							5026641368
7/29		PM2587-25	↓		1.177	1666							5026641376
7/28		PM2901-24	PM_{10} 2901		1.180	1665				↓			5026641384

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	~~7/31/03~~ KG	13:25	Jim Riddle 7-31-03 10:09				

METHOD OF SHIPMENT 7/30/03
Fed Ex 835789035108

REMARKS:

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CHAIN OF CUSTODY RECORD - AIR

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972.580.1323 • Fax 972.550.7464

PROJECT NAME/LOCATION RSR OU5 / TX
PROJECT NUMBER 3D959
PROJECT MANAGER P. McDONALD
LABORATORY PACE
5029111

SAMPLED BY

KIRK GATES (PRINT NAME) — Kirk Gates (SIGNATURE)

ANALYSES

TURN AROUND TIME

PRIORITY RUSH 24 HR ☐
PRIORITY 3 DAY ☒
STANDARD ☐

DATE	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	Pb	As	Sb	PM_{10}			COMMENTS
7/29		PM2901-25	PM_{10} 2901	AIR	1.180	1682				X			5026 41392
7/28		TP-FB-014	—	↓	—	—	X	X	X	X			5026 41400
7/29		TP-FB-015	—	↓	—	—	↓	↓	↓	↓			5026 41418

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	7/30/03	13:25	Jill Biddle 7-31-03 10:09				

METHOD OF SHIPMENT
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REMARKS:

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August 07, 2003

Ms. Jenny Elste
Entact
4040 W. Royal Ln.
Suite 136
Irving, TX 75038

RE: Lab Project Number: 5029187
Client Project ID: RSR OU5/TX - 3D959

Dear Ms. Elste:

Enclosed are the analytical results for sample(s) received by the laboratory on August 4, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Jill Riddle for
jill.riddle@pacelabs.com
Project Manager

Enclosures

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August 14, 2003

Case Narrative- Project Review
Project 5029187 (Entact)

Sample Receiving

No discrepancies were noted concerning sample receipt or sample transfer.

Metals in air- 40CFR APG.

For samples 502651607 and 502651615, there were no volumes documented. The total ug/filter result was less than 10 for each of these samples (footnote #1, page 8).

Additional LCS results are listed in footnote #1, page 11.

All quality control indicators for this project (method blank, duplicate and LCS results) are within laboratory acceptance limits.

PM10 in air- 40CFR APJ.

All quality control indicators for this project (duplicate results) are within laboratory acceptance limits.

I have reviewed the data from this project and have found all other discrepancies to be sufficiently covered in the footnotes in the sample results section and the quality control section of the final report.

Tim Harrison

Tim Harrison
Quality Manager
Pace Analytical Services

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Lab Project Number: 5029187
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502651300 Project Sample Number: 5029187-001 Date Collected: 07/30/03 00:00
Client Sample ID: TSP5-18 Matrix: Air Date Received: 08/04/03 08:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	0.0760	ug/m3	0.0500	08/06/03 22:08	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/06/03 22:08	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/06/03 22:08	FRW	7440-36-0		
Date Digested	08/06/03			08/06/03				

Lab Sample No: 502651318 Project Sample Number: 5029187-002 Date Collected: 07/31/03 00:00
Client Sample ID: TSP5-19 Matrix: Air Date Received: 08/04/03 08:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	0.0780	ug/m3	0.0500	08/06/03 22:59	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/06/03 22:59	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/06/03 22:59	FRW	7440-36-0		
Date Digested	08/06/03			08/06/03				

Lab Sample No: 502651326 Project Sample Number: 5029187-003 Date Collected: 07/30/03 00:00
Client Sample ID: TSP6-22 Matrix: Air Date Received: 08/04/03 08:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/06/03 22:19	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/06/03 22:19	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/06/03 22:19	FRW	7440-36-0		
Date Digested	08/06/03			08/06/03				

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Lab Project Number: 5029187
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502651334 Project Sample Number: 5029187-004 Date Collected: 07/31/03 00:00
Client Sample ID: TSP6-23 Matrix: Air Date Received: 08/04/03 08:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/06/03 23:04	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/06/03 23:04	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/06/03 23:04	FRW	7440-36-0		
Date Digested	08/06/03			08/06/03				

Lab Sample No: 502651342 Project Sample Number: 5029187-005 Date Collected: 07/30/03 00:00
Client Sample ID: TSP7-26 Matrix: Air Date Received: 08/04/03 08:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	0.130	ug/m3	0.0500	08/06/03 22:36	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/06/03 22:36	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/06/03 22:36	FRW	7440-36-0		
Date Digested	08/06/03			08/06/03				

Lab Sample No: 502651359 Project Sample Number: 5029187-006 Date Collected: 07/31/03 00:00
Client Sample ID: TSP7-27 Matrix: Air Date Received: 08/04/03 08:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/06/03 23:10	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/06/03 23:10	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/06/03 23:10	FRW	7440-36-0		
Date Digested	08/06/03			08/06/03				

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Lab Project Number: 5029187
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502651367 Project Sample Number: 5029187-007 Date Collected: 07/30/03 00:00
Client Sample ID: TSP10-26 Matrix: Air Date Received: 08/04/03 08:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/06/03 22:42	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/06/03 22:42	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/06/03 22:42	FRW	7440-36-0		
Date Digested	08/06/03			08/06/03				

Lab Sample No: 502651383 Project Sample Number: 5029187-008 Date Collected: 07/31/03 00:00
Client Sample ID: TSP10-27 Matrix: Air Date Received: 08/04/03 08:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/06/03 23:16	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/06/03 23:16	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/06/03 23:16	FRW	7440-36-0		
Date Digested	08/06/03			08/06/03				

Lab Sample No: 502651417 Project Sample Number: 5029187-009 Date Collected: 07/30/03 00:00
Client Sample ID: TSP11-23 Matrix: Air Date Received: 08/04/03 08:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	0.0680	ug/m3	0.0500	08/06/03 22:47	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/06/03 22:47	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/06/03 22:47	FRW	7440-36-0		
Date Digested	08/06/03			08/06/03				

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Lab Project Number: 5029187
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502651433 Project Sample Number: 5029187-010 Date Collected: 07/31/03 00:00
Client Sample ID: TSP11-24 Matrix: Air Date Received: 08/04/03 08:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	0.0670	ug/m3	0.0500	08/06/03 23:21	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/06/03 23:21	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/06/03 23:21	FRW	7440-36-0		
Date Digested	08/06/03			08/06/03				

Lab Sample No: 502651466 Project Sample Number: 5029187-011 Date Collected: 07/30/03 00:00
Client Sample ID: PM1935-26 Matrix: Air Date Received: 08/04/03 08:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	69.9	ug/m3	1.00	08/06/03 11:30	DMT			

Lab Sample No: 502651482 Project Sample Number: 5029187-012 Date Collected: 07/31/03 00:00
Client Sample ID: PM1935-27 Matrix: Air Date Received: 08/04/03 08:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	61.7	ug/m3	1.00	08/06/03 11:30	DMT			

Lab Sample No: 502651490 Project Sample Number: 5029187-013 Date Collected: 07/30/03 00:00
Client Sample ID: PM1958-24 Matrix: Air Date Received: 08/04/03 08:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	38.0	ug/m3	1.00	08/06/03 11:30	DMT			

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Lab Project Number: 5029187
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502651508 Project Sample Number: 5029187-014 Date Collected: 07/31/03 00:00
Client Sample ID: PM1958-25 Matrix: Air Date Received: 08/04/03 08:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	36.4	ug/m3	1.00	08/06/03 11:30	DMT			

Lab Sample No: 502651516 Project Sample Number: 5029187-015 Date Collected: 07/30/03 00:00
Client Sample ID: PM2084-24 Matrix: Air Date Received: 08/04/03 08:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	31.4	ug/m3	1.00	08/06/03 11:30	DMT			

Lab Sample No: 502651532 Project Sample Number: 5029187-016 Date Collected: 07/31/03 00:00
Client Sample ID: PM2084-25 Matrix: Air Date Received: 08/04/03 08:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	39.0	ug/m3	1.00	08/06/03 11:30	DMT			

Lab Sample No: 502651557 Project Sample Number: 5029187-017 Date Collected: 07/30/03 00:00
Client Sample ID: PM2587-26 Matrix: Air Date Received: 08/04/03 08:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	35.1	ug/m3	1.00	08/06/03 11:30	DMT			

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Lab Project Number: 5029187
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502651573 Project Sample Number: 5029187-018 Date Collected: 07/31/03 00:00
Client Sample ID: PM2587-27 Matrix: Air Date Received: 08/04/03 08:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	36.7	ug/m3	1.00	08/06/03 11:30	DMT			

Lab Sample No: 502651581 Project Sample Number: 5029187-019 Date Collected: 07/30/03 00:00
Client Sample ID: PM2901-26 Matrix: Air Date Received: 08/04/03 08:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	33.6	ug/m3	1.00	08/06/03 11:30	DMT			

Lab Sample No: 502651599 Project Sample Number: 5029187-020 Date Collected: 07/31/03 00:00
Client Sample ID: PM2901-27 Matrix: Air Date Received: 08/04/03 08:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	36.3	ug/m3	1.00	08/06/03 11:30	DMT			

Lab Sample No: 502651607 Project Sample Number: 5029187-021 Date Collected: 07/30/03 00:00
Client Sample ID: TP-FB-016 Matrix: Air Date Received: 08/04/03 08:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/06/03 22:53	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/06/03 22:53	FRW	7440-38-2	1	
Antimony	ND	ug/m3	0.0500	08/06/03 22:53	FRW	7440-36-0		
Date Digested	08/06/03			08/06/03				
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							

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Lab Project Number: 5029187
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502651607 Project Sample Number: 5029187-021 Date Collected: 07/30/03 00:00
Client Sample ID: TP-FB-016 Matrix: Air Date Received: 08/04/03 08:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Total Particles	ND	ug/m3	1.00	08/06/03 11:30	DMT		2	

Lab Sample No: 502651615 Project Sample Number: 5029187-022 Date Collected: 07/31/03 00:00
Client Sample ID: TP-FB-017 Matrix: Air Date Received: 08/04/03 08:40

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/06/03 23:27	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/06/03 23:27	FRW	7440-38-2	1	
Antimony	ND	ug/m3	0.0500	08/06/03 23:27	FRW	7440-36-0		
Date Digested	08/06/03			08/06/03				
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	ND	ug/m3	1.00	08/06/03 11:30	DMT		3	

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Lab Project Number: 5029187
Client Project ID: RSR OU5/TX - 3D959

PARAMETER FOOTNOTES

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
[1]	No volume given. Total ug <10 for all target analytes.
[2]	Initial wt. 4.0322g. Final wt. 4.0322g. Weight diff. 0.0000g.
[3]	Initial wt. 4.0401g. Final wt. 4.0405g. Weight diff. +0.0004g.

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QUALITY CONTROL DATA

Lab Project Number: 5029187
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 56068 — Analysis Method: 40CFR APG
QC Batch Method: — Analysis Description: Lead in Air by 40CFR
Associated Lab Samples: 502651300 502651318 502651326 502651334 502651342 502651359 502651367 502651383 502651417 502651433 502651607 502651615

METHOD BLANK: 502655889
Associated Lab Samples: 502651300 502651318 502651326 502651334 502651342 502651359 502651367 502651383 502651417 502651433 502651607 502651615

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Arsenic	ug/m3	ND	0.0500	
Lead	ug/m3	ND	0.0500	
Antimony	ug/m3	ND	0.0500	

LABORATORY CONTROL SAMPLE: 502655897

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Lead	mg/l	0.5000	0.4960	99	1

SAMPLE DUPLICATE: 502655905

Parameter	Units	502651300 Result	DUP Result	RPD	Footnotes
Lead	ug/m3	0.07600	0.08000	5	
Arsenic	ug/m3	ND	ND	NC	
Antimony	ug/m3	ND	ND	NC	

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QUALITY CONTROL DATA

Lab Project Number: 5029187
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 56063 Analysis Method: 40CFR APJ
QC Batch Method: Analysis Description: PM10 in Air by 40CFR
Associated Lab Samples: 502651466 502651482 502651490 502651508 502651516
502651532 502651557 502651573 502651581 502651599
502651607 502651615

SAMPLE DUPLICATE: 502655541

Parameter	Units	502651466 Result	DUP Result	RPD	Footnotes
Total Particles	ug/m3	69.90	70.10	0	

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Lab Project Number: 5029187
Client Project ID: RSR OU5/TX - 3D959

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
[1]	As: 99% recovery. Sb: 99% recovery.

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ENTACT
environmental tactics in waste management

CHAIN OF CUSTODY RECORD - AIR

4040 W. Royal Lane #136 • Irving, Texas 75063
972.580.1323 • Fax 972.550.7464

PROJECT NAME/LOCATION RSR 0051 TX
PROJECT NUMBER 3D959
PROJECT MANAGER P. McDONALD
LABORATORY PACE
5029187

SAMPLED BY

Kirk Gates (PRINT NAME) — Kirk Gates SIGNATURE

ANALYSES

TURN AROUND TIME

- PRIORITY RUSH 24 HR ☐
- PRIORITY 3 DAY ☒
- STANDARD ☐

2003 DATE	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	Pb	As	Sb	PM_{10}	COMMENTS
7/30		TSP5-18	TSP 5	AIR	1.499	2136	X	X	X		5026051300
7/31		TSP5-19	↓		1.443	2064					1318
7/30		TSP6-22	TSP6		1.350	1971					1326
7/31		TSP6-23	↓		1.409	1972					1334
7/30		TSP7-26	TSP7		1.383	2033					1342
7/31		TSP7-27	↓		1.405	2016					1359
7/30		TSP10-26	TSP10		1.544	2207					1367
7/31		TSP10-27	↓		1.554	2222					1383
7/30		TSP11-23	TSP11		1.297	1907					1417
7/31		TSP11-24	↓		1.481	2110					1433
7/30		PM1935-26	PM_{10} 1935		1.185	1640				X	14616
7/31		PM1935-27	↓		1.183	1641					1482
7/30		PM1958-24	PM_{10} 1958		1.194	1635					1490
7/31		PM1958-25	↓		1.195	1652					1508
7/30		PM2084-24	PM_{10} 2084		1.187	1677					1516
7/31		PM2084-25	↓		1.186	1611					1532
7/30		PM2587-26	PM_{10} 2587		1.176	1627					1557
7/31		PM2587-27	↓		1.174	1634					1573
7/30		PM2901-26	PM_{10} 2901		1.174	1624					1581
7/31		PM2901-27	↓		1.174	1629					1599

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	8-1-03	17:05	Jill Biddle 8-4-03 8:40				

METHOD OF SHIPMENT
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RG 1 OF 2

ENTACT
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CHAIN OF CUSTODY RECORD - AIR

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PROJECT NAME/LOCATION
PROJECT NUMBER 3D95[redacted]
PROJECT MANAGER P. M[redacted]ONALD
LABORATORY PACE
5029187

SAMPLED BY

KIRK GATES (PRINT NAME)

Kirk Gates SIGNATURE

ANALYSES

TURN AROUND TIME

PRIORITY RUSH 24 HR ☐
PRIORITY 3 DAY ☒
STANDARD ☐

2003 DATE	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	Pb	As	Sb	PM10			COMMENTS
7/30		TP-FB-016	—	AIR	—	—	X	X	X	X			502651607
7/31		TP-FB-017	—	↓	—	—	X	X	X	X			↓ 1615

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	8-1-03	17:05	Jill Riddle 8-4-03 8:40				

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August 12, 2003

Ms. Jenny Elste
Entact
4040 W. Royal Ln.
Suite 136
Irving, TX 75038

RE: Lab Project Number: 5029220
Client Project ID: RSR OU5/TX - 3D959

Dear Ms. Elste:

Enclosed are the analytical results for sample(s) received by the laboratory on August 6, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Jill Riddle

Jill Riddle
jill.riddle@pacelabs.com
Project Manager

Enclosures

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August 14, 2003

Case Narrative- Project Review
Project 5029220 (Entact)

Sample Receiving

No discrepancies were noted concerning sample receipt or sample transfer.

Metals in air- 40CFR APG.

For samples 502655863 and 502655871, there were no volumes documented. The total ug/filter result was less than 10 for each of these samples (footnote #1, page 8).

Additional LCS results are listed in footnote #1, page 11.

All quality control indicators for this project (method blank, duplicate and LCS results) are within laboratory acceptance limits.

PM10 in air- 40CFR APJ.

All quality control indicators for this project (duplicate results) are within laboratory acceptance limits.

I have reviewed the data from this project and have found all other discrepancies to be sufficiently covered in the footnotes in the sample results section and the quality control section of the final report.

Tim Harrison

Tim Harrison
Quality Manager
Pace Analytical Services

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Lab Project Number: 5029220
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502655590 Project Sample Number: 5029220-001 Date Collected: 08/01/03 00:00
Client Sample ID: TSP5-20 Matrix: Air Date Received: 08/06/03 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/11/03 13:33	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/11/03 13:33	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/11/03 13:33	FRW	7440-36-0		
Date Digested	08/07/03			08/07/03				

Lab Sample No: 502655616 Project Sample Number: 5029220-002 Date Collected: 08/04/03 00:00
Client Sample ID: TSP5-21 Matrix: Air Date Received: 08/06/03 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	0.0680	ug/m3	0.0500	08/11/03 14:43	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/11/03 14:43	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/11/03 14:43	FRW	7440-36-0		
Date Digested	08/07/03			08/07/03				

Lab Sample No: 502655632 Project Sample Number: 5029220-003 Date Collected: 08/01/03 00:00
Client Sample ID: TSP6-24 Matrix: Air Date Received: 08/06/03 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/11/03 14:15	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/11/03 14:15	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/11/03 14:15	FRW	7440-36-0		
Date Digested	08/07/03			08/07/03				

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Lab Project Number: 5029220
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502655640 Project Sample Number: 5029220-004 Date Collected: 08/04/03 00:00
Client Sample ID: TSP6-25 Matrix: Air Date Received: 08/06/03 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/11/03 14:49	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/11/03 14:49	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/11/03 14:49	FRW	7440-36-0		
Date Digested	08/07/03			08/07/03				

Lab Sample No: 502655657 Project Sample Number: 5029220-005 Date Collected: 08/01/03 00:00
Client Sample ID: TSP7-28 Matrix: Air Date Received: 08/06/03 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/11/03 14:21	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/11/03 14:21	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/11/03 14:21	FRW	7440-36-0		
Date Digested	08/07/03			08/07/03				

Lab Sample No: 502655665 Project Sample Number: 5029220-006 Date Collected: 08/04/03 00:00
Client Sample ID: TSP7-29 Matrix: Air Date Received: 08/06/03 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/11/03 14:55	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/11/03 14:55	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/11/03 14:55	FRW	7440-36-0		
Date Digested	08/07/03			08/07/03				

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Lab Project Number: 5029220
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502655673 Project Sample Number: 5029220-007 Date Collected: 08/01/03 00:00
Client Sample ID: TSP10-28 Matrix: Air Date Received: 08/06/03 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/11/03 14:26	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/11/03 14:26	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/11/03 14:26	FRW	7440-36-0		
Date Digested	08/07/03			08/07/03				

Lab Sample No: 502655681 Project Sample Number: 5029220-008 Date Collected: 08/04/03 00:00
Client Sample ID: TSP10-29 Matrix: Air Date Received: 08/06/03 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/11/03 15:00	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/11/03 15:00	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/11/03 15:00	FRW	7440-36-0		
Date Digested	08/07/03			08/07/03				

Lab Sample No: 502655699 Project Sample Number: 5029220-009 Date Collected: 08/01/03 00:00
Client Sample ID: TSP11-25 Matrix: Air Date Received: 08/06/03 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/11/03 14:32	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/11/03 14:32	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/11/03 14:32	FRW	7440-36-0		
Date Digested	08/07/03			08/07/03				

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Lab Project Number: 5029220
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502655707 Project Sample Number: 5029220-010 Date Collected: 08/04/03 00:00
Client Sample ID: TSP11-26 Matrix: Air Date Received: 08/06/03 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/11/03 15:06	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/11/03 15:06	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/11/03 15:06	FRW	7440-36-0		
Date Digested	08/07/03			08/07/03				

Lab Sample No: 502655731 Project Sample Number: 5029220-011 Date Collected: 08/01/03 00:00
Client Sample ID: PM1935-28 Matrix: Air Date Received: 08/06/03 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	26.4	ug/m3	1.00	08/07/03 11:00	DMT			

Lab Sample No: 502655749 Project Sample Number: 5029220-012 Date Collected: 08/04/03 00:00
Client Sample ID: PM1935-29 Matrix: Air Date Received: 08/06/03 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	56.0	ug/m3	1.00	08/07/03 11:00	DMT			

Lab Sample No: 502655756 Project Sample Number: 5029220-013 Date Collected: 08/01/03 00:00
Client Sample ID: PM1958-26 Matrix: Air Date Received: 08/06/03 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	18.2	ug/m3	1.00	08/07/03 11:00	DMT			

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Lab Project Number: 5029220
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502655772 Project Sample Number: 5029220-014 Date Collected: 08/04/03 00:00
Client Sample ID: PM1958-27 Matrix: Air Date Received: 08/06/03 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	48.0	ug/m3	1.00	08/07/03 11:00	DMT			

Lab Sample No: 502655780 Project Sample Number: 5029220-015 Date Collected: 08/01/03 00:00
Client Sample ID: PM2084-26 Matrix: Air Date Received: 08/06/03 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	12.9	ug/m3	1.00	08/07/03 11:00	DMT			

Lab Sample No: 502655798 Project Sample Number: 5029220-016 Date Collected: 08/04/03 00:00
Client Sample ID: PM2084-27 Matrix: Air Date Received: 08/06/03 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	10.1	ug/m3	1.00	08/07/03 11:00	DMT			

Lab Sample No: 502655806 Project Sample Number: 5029220-017 Date Collected: 08/01/03 00:00
Client Sample ID: PM2587-28 Matrix: Air Date Received: 08/06/03 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	16.2	ug/m3	1.00	08/07/03 11:00	DMT			

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Lab Project Number: 5029220
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502655814 Project Sample Number: 5029220-018 Date Collected: 08/04/03 00:00
Client Sample ID: PM2587-29 Matrix: Air Date Received: 08/06/03 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	45.3	ug/m3	1.00	08/07/03 11:00	DMT			

Lab Sample No: 502655822 Project Sample Number: 5029220-019 Date Collected: 08/01/03 00:00
Client Sample ID: PM2901-28 Matrix: Air Date Received: 08/06/03 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	15.4	ug/m3	1.00	08/07/03 11:00	DMT			

Lab Sample No: 502655855 Project Sample Number: 5029220-020 Date Collected: 08/04/03 00:00
Client Sample ID: PM2901-29 Matrix: Air Date Received: 08/06/03 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	18.8	ug/m3	1.00	08/07/03 11:00	DMT			

Lab Sample No: 502655863 Project Sample Number: 5029220-021 Date Collected: 08/01/03 00:00
Client Sample ID: TP-FB-018 Matrix: Air Date Received: 08/06/03 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/11/03 14:38	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/11/03 14:38	FRW	7440-38-2	1	
Antimony	ND	ug/m3	0.0500	08/11/03 14:38	FRW	7440-36-0		
Date Digested	08/07/03			08/07/03				
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							

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Lab Project Number: 5029220
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502655863 Project Sample Number: 5029220-021 Date Collected: 08/01/03 00:00
Client Sample ID: TP-FB-018 Matrix: Air Date Received: 08/06/03 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Total Particles	ND	ug/m3	1.00	08/07/03 11:00	DMT		2	

Lab Sample No: 502655871 Project Sample Number: 5029220-022 Date Collected: 08/04/03 00:00
Client Sample ID: TP-FB-019 Matrix: Air Date Received: 08/06/03 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/11/03 15:23	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/11/03 15:23	FRW	7440-38-2	1	
Antimony	ND	ug/m3	0.0500	08/11/03 15:23	FRW	7440-36-0		
Date Digested	08/07/03			08/07/03				
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particles	ND	ug/m3	1.00	08/07/03 11:00	DMT		3	

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Lab Project Number: 5029220
Client Project ID: RSR OU5/TX - 3D959

PARAMETER FOOTNOTES

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
[1]	No volume given. Total ug <10 for all target analytes.
[2]	Initial wt. 4.3284g. Final wt. 4.3291g. Weight diff. +0.0007g.
[3]	Initial wt. 3.9974g. Final wt. 3.9979g. Weight diff. +0.0005g.

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QUALITY CONTROL DATA

Lab Project Number: 5029220
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 56144 Analysis Method: 40CFR APG
QC Batch Method: Analysis Description: Lead in Air by 40CFR
Associated Lab Samples: 502655590 502655616 502655632 502655640 502655657 502655665 502655673 502655681 502655699 502655707 502655863 502655871

METHOD BLANK: 502659089
Associated Lab Samples: 502655590 502655616 502655632 502655640 502655657 502655665 502655673 502655681 502655699 502655707 502655863 502655871

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Arsenic	ug/m3	ND	0.0500	
Lead	ug/m3	ND	0.0500	
Antimony	ug/m3	ND	0.0500	

LABORATORY CONTROL SAMPLE: 502659097

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Lead	mg/l	0.5000	0.4940	99	1

SAMPLE DUPLICATE: 502659105

Parameter	Units	502655590 Result	DUP Result	RPD	Footnotes
Lead	ug/m3	ND	ND	NC	
Arsenic	ug/m3	ND	ND	NC	
Antimony	ug/m3	ND	ND	NC	

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QUALITY CONTROL DATA

Lab Project Number: 5029220
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 56135 Analysis Method: 40CFR APJ
QC Batch Method: Analysis Description: PM10 in Air by 40CFR
Associated Lab Samples: 502655731 502655749 502655756 502655772 502655780
502655798 502655806 502655814 502655822 502655855
502655863 502655871

SAMPLE DUPLICATE: 502658842

Parameter	Units	502655731 Result	DUP Result	RPD	Footnotes
Total Particles	ug/m3	26.40	26.60	1	

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Lab Project Number: 5029220
Client Project ID: RSR OU5/TX - 3D959

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
[1]	As: 109% recovery. Sb: 108% recovery.

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environmental tactics in waste management

CHAIN OF CUSTODY RECORD - AIR

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972.580.1323 • Fax 972.550.7464

PROJECT NAME/LOCATION KSR 0451 TX
PROJECT NUMBER 3D959
PROJECT MANAGER P. McDonald
LABORATORY PACE

5029220

SAMPLED BY

Kirk Gates (PRINT NAME)
Kirk Gates SIGNATURE

ANALYSES

TURN AROUND TIME

PRIORITY RUSH 24 HR ☐
PRIORITY 3 DAY ☒
STANDARD ☐

2003 DATE	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	Pb	As	Sb	PM_{10}	COMMENTS
8/1		TSP 5-20	TSP 5	AIR	1.354	1943	X	X	X		5026555590
*8/4		TSP 5-21	↓		1.408	1999					616
8/1		TSP 6-24	TSP 6		1.361	1954					632
8/4		TSP 6-25	↓		1.372	1934					640
8/1		TSP 7-28	TSP 7		1.415	2037					657
8/4		TSP 7-29	↓		1.413	2007					665
8/1		TSP 10-28	TSP 10		1.565	2254					673
8/4		TSP 10-29	↓		1.426	2010					681
8/1		TSP 11-25	TSP 11		1.267	1857					699
8/4		TSP 11-26	↓		1.282	1820					707
8/1		PM1935-28	PM_{10} 1935		1.192	1664				X	731
8/4		PM 1935-29	↓		1.191	1651					749
8/1		PM 1958-26	PM_{10} 1958		1.197	1694					756
8/4		PM 1958-27	↓		1.202	1666					772
8/1		PM 2084-26	PM_{10} 2084		1.193	1665					780
8/4		PM 2084-27	↓		1.192	1641					798
8/1		PM2587-28	PM_{10} 2587		1.182	1656					806
8/4		PM 2587-29	↓		1.181	1626					814
8/1		PM 2901-28	PM_{10} 2901		1.191	1661					822
8/4		PM 2901-29	PM_{10} 2901		1.182	1627					855

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	8-5-03	13:20	M. Mayer/Pace 8-6-03 10:00				

METHOD OF SHIPMENT

FedEx 8334 0015 4710

REMARKS:

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CHAIN OF CUSTODY RECORD - AIR

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5029220

PROJECT NAME/LOCATION KSR OUS / TX
PROJECT NUMBER 3D9[redacted]
PROJECT MANAGER P. M[redacted]
LABORATORY PACE

SAMPLED BY

Kirk Gates (PRINT NAME)

Kirk Gates SIGNATURE

ANALYSES

TURN AROUND TIME

PRIORITY RUSH 24 HR ☐
PRIORITY 3 DAY ☒
STANDARD ☐

DATE	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	Pb	As	Sb	PM10			COMMENTS
8/1		TP-FB-018	—	—	—		X	X	X	X			502655863
8/4		TP-FB-019	—	—	—		X	X	X	X			502655871

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	8-5-03	13:20	M. Mayse Pace 08-03 10:20				

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REMARKS:

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August 15, 2003

Ms. Jenny Elste
Entact
4040 W. Royal Ln.
Suite 136
Irving, TX 75038

RE: Lab Project Number: 5029321
Client Project ID: RSR OU5/TX - 3D959

Dear Ms. Elste:

Enclosed are the analytical results for sample(s) received by the laboratory on August 11, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Jill Riddle

Jill Riddle
jill.riddle@pacelabs.com
Project Manager

Enclosures

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August 18, 2003

Case Narrative- Project Review
Project 5029321 (Entact)

Sample Receiving

No discrepancies were noted concerning sample receipt or sample transfer.

Metals in air- 40CFR APG.

For samples 502668411, 502668429 and 502668437, there were no volumes documented. The total ug/filter result was less than 10 for each of these samples (footnote #2, page 11).

Additional LCS results are listed in footnote #1, page 14.

All quality control indicators for this project (method blank, duplicate and LCS results) are within laboratory acceptance limits.

PM10 in air- 40CFR APJ.

All quality control indicators for this project (duplicate results) are within laboratory acceptance limits.

I have reviewed the data from this project and have found all other discrepancies to be sufficiently covered in the footnotes in the sample results section and the quality control section of the final report.

Tim Harrison
Quality Manager
Pace Analytical Services

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Lab Project Number: 5029321
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502667991 Project Sample Number: 5029321-001 Date Collected: 08/05/03 00:00
Client Sample ID: TSP5-22 Matrix: Air Date Received: 08/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/14/03 18:16	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/14/03 18:16	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/14/03 18:16	FRW	7440-36-0		
Date Digested	08/12/03			08/12/03				

Lab Sample No: 502668007 Project Sample Number: 5029321-002 Date Collected: 08/06/03 00:00
Client Sample ID: TSP5-23 Matrix: Air Date Received: 08/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	0.0560	ug/m3	0.0500	08/13/03 19:07	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/13/03 19:07	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/13/03 19:07	FRW	7440-36-0		
Date Digested	08/12/03			08/12/03				

Lab Sample No: 502668015 Project Sample Number: 5029321-003 Date Collected: 08/07/03 00:00
Client Sample ID: TSP5-24 Matrix: Air Date Received: 08/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	0.0580	ug/m3	0.0500	08/13/03 19:42	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/13/03 19:42	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/13/03 19:42	FRW	7440-36-0		
Date Digested	08/12/03			08/12/03				

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Lab Project Number: 5029321
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502668023 Project Sample Number: 5029321-004 Date Collected: 08/05/03 00:00
Client Sample ID: TSP6-26 Matrix: Air Date Received: 08/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/14/03 18:28	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/14/03 18:28	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/14/03 18:28	FRW	7440-36-0		
Date Digested	08/12/03			08/12/03				

Lab Sample No: 502668031 Project Sample Number: 5029321-005 Date Collected: 08/06/03 00:00
Client Sample ID: TSP6-27 Matrix: Air Date Received: 08/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/13/03 19:13	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/13/03 19:13	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/13/03 19:13	FRW	7440-36-0		
Date Digested	08/12/03			08/12/03				

Lab Sample No: 502668049 Project Sample Number: 5029321-006 Date Collected: 08/07/03 00:00
Client Sample ID: TSP6-28 Matrix: Air Date Received: 08/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/13/03 19:59	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/13/03 19:59	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/13/03 19:59	FRW	7440-36-0		
Date Digested	08/12/03			08/12/03				

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Lab Project Number: 5029321
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502668056 Project Sample Number: 5029321-007 Date Collected: 08/05/03 00:00
Client Sample ID: TSP7-30 Matrix: Air Date Received: 08/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/14/03 18:33	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/14/03 18:33	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/14/03 18:33	FRW	7440-36-0		
Date Digested	08/12/03			08/12/03				

Lab Sample No: 502668064 Project Sample Number: 5029321-008 Date Collected: 08/06/03 00:00
Client Sample ID: TSP7-31 Matrix: Air Date Received: 08/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	0.0500	ug/m3	0.0500	08/13/03 19:19	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/13/03 19:19	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/13/03 19:19	FRW	7440-36-0		
Date Digested	08/12/03			08/12/03				

Lab Sample No: 502668072 Project Sample Number: 5029321-009 Date Collected: 08/07/03 00:00
Client Sample ID: TSP7-32 Matrix: Air Date Received: 08/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/13/03 20:04	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/13/03 20:04	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/13/03 20:04	FRW	7440-36-0		
Date Digested	08/12/03			08/12/03				

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Lab Project Number: 5029321
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502668080 Project Sample Number: 5029321-010 Date Collected: 08/05/03 00:00
Client Sample ID: TSP10-30 Matrix: Air Date Received: 08/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/14/03 18:50	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/14/03 18:50	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/14/03 18:50	FRW	7440-36-0		
Date Digested	08/12/03			08/12/03				

Lab Sample No: 502668098 Project Sample Number: 5029321-011 Date Collected: 08/06/03 00:00
Client Sample ID: TSP10-31 Matrix: Air Date Received: 08/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/13/03 19:24	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/13/03 19:24	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/13/03 19:24	FRW	7440-36-0		
Date Digested	08/12/03			08/12/03				

Lab Sample No: 502668106 Project Sample Number: 5029321-012 Date Collected: 08/07/03 00:00
Client Sample ID: TSP10-32 Matrix: Air Date Received: 08/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/13/03 20:10	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/13/03 20:10	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/13/03 20:10	FRW	7440-36-0		
Date Digested	08/12/03			08/12/03				

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Lab Project Number: 5029321
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502668114 Project Sample Number: 5029321-013 Date Collected: 08/05/03 00:00
Client Sample ID: TSP11-27 Matrix: Air Date Received: 08/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	0.108	ug/m3	0.0500	08/14/03 18:56	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/14/03 18:56	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/14/03 18:56	FRW	7440-36-0		
Date Digested	08/12/03			08/12/03				

Lab Sample No: 502668122 Project Sample Number: 5029321-014 Date Collected: 08/06/03 00:00
Client Sample ID: TSP11-28 Matrix: Air Date Received: 08/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	0.0740	ug/m3	0.0500	08/13/03 19:30	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/13/03 19:30	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/13/03 19:30	FRW	7440-36-0		
Date Digested	08/12/03			08/12/03				

Lab Sample No: 502668130 Project Sample Number: 5029321-015 Date Collected: 08/07/03 00:00
Client Sample ID: TSP11-29 Matrix: Air Date Received: 08/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/13/03 20:16	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/13/03 20:16	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/13/03 20:16	FRW	7440-36-0		
Date Digested	08/12/03			08/12/03				

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Lab Project Number: 5029321
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502668148 Project Sample Number: 5029321-016 Date Collected: 08/05/03 00:00
Client Sample ID: PM1935-30 Matrix: Air Date Received: 08/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
TSP in Air by 40CFR	Method: 40CFR APJ							
PM10 in Air by 40CFR	43.5	ug/m3	1.00	08/12/03 17:00	DMT			

Lab Sample No: 502668197 Project Sample Number: 5029321-017 Date Collected: 08/06/03 00:00
Client Sample ID: PM1935-31 Matrix: Air Date Received: 08/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
TSP in Air by 40CFR	Method: 40CFR APJ							
PM10 in Air by 40CFR	50.9	ug/m3	1.00	08/12/03 17:00	DMT			

Lab Sample No: 502668205 Project Sample Number: 5029321-018 Date Collected: 08/07/03 00:00
Client Sample ID: PM1935-32 Matrix: Air Date Received: 08/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
TSP in Air by 40CFR	Method: 40CFR APJ							
PM10 in Air by 40CFR	61.0	ug/m3	1.00	08/12/03 17:00	DMT			

Lab Sample No: 502668213 Project Sample Number: 5029321-019 Date Collected: 08/05/03 00:00
Client Sample ID: PM1958-28 Matrix: Air Date Received: 08/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
TSP in Air by 40CFR	Method: 40CFR APJ							
PM10 in Air by 40CFR	20.4	ug/m3	1.00	08/12/03 17:00	DMT			

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Lab Project Number: 5029321
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502668221 Project Sample Number: 5029321-020 Date Collected: 08/06/03 00:00
Client Sample ID: PM1958-29 Matrix: Air Date Received: 08/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
TSP in Air by 40CFR	Method: 40CFR APJ							
PM10 in Air by 40CFR	36.6	ug/m3	1.00	08/12/03 17:00	DMT			

Lab Sample No: 502668270 Project Sample Number: 5029321-021 Date Collected: 08/07/03 00:00
Client Sample ID: PM1958-30 Matrix: Air Date Received: 08/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
TSP in Air by 40CFR	Method: 40CFR APJ							
PM10 in Air by 40CFR	41.9	ug/m3	1.00	08/12/03 17:00	DMT			

Lab Sample No: 502668320 Project Sample Number: 5029321-022 Date Collected: 08/05/03 00:00
Client Sample ID: PM2084-28 Matrix: Air Date Received: 08/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
TSP in Air by 40CFR	Method: 40CFR APJ							
PM10 in Air by 40CFR	33.1	ug/m3	1.00	08/12/03 17:00	DMT			

Lab Sample No: 502668338 Project Sample Number: 5029321-023 Date Collected: 08/06/03 00:00
Client Sample ID: PM2084-29 Matrix: Air Date Received: 08/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
TSP in Air by 40CFR	Method: 40CFR APJ							
PM10 in Air by 40CFR	36.9	ug/m3	1.00	08/12/03 17:00	DMT			

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Lab Project Number: 5029321
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502668346 Project Sample Number: 5029321-024 Date Collected: 08/07/03 00:00
Client Sample ID: PM2084-30 Matrix: Air Date Received: 08/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
TSP in Air by 40CFR	Method: 40CFR APJ							
PM10 in Air by 40CFR	40.8	ug/m3	1.00	08/12/03 17:00	DMT			

Lab Sample No: 502668353 Project Sample Number: 5029321-025 Date Collected: 08/05/03 00:00
Client Sample ID: PM2587-30 Matrix: Air Date Received: 08/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
TSP in Air by 40CFR	Method: 40CFR APJ							
PM10 in Air by 40CFR	31.4	ug/m3	1.00	08/12/03 17:00	DMT			

Lab Sample No: 502668361 Project Sample Number: 5029321-026 Date Collected: 08/06/03 00:00
Client Sample ID: PM2587-31 Matrix: Air Date Received: 08/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
TSP in Air by 40CFR	Method: 40CFR APJ							
PM10 in Air by 40CFR	36.3	ug/m3	1.00	08/12/03 17:00	DMT			

Lab Sample No: 502668379 Project Sample Number: 5029321-027 Date Collected: 08/07/03 00:00
Client Sample ID: PM2587-32 Matrix: Air Date Received: 08/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
TSP in Air by 40CFR	Method: 40CFR APJ							
PM10 in Air by 40CFR	7.87	ug/m3	1.00	08/12/03 17:00	DMT		1	

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Lab Project Number: 5029321
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502668387 Project Sample Number: 5029321-028 Date Collected: 08/05/03 00:00
Client Sample ID: PM2901-30 Matrix: Air Date Received: 08/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
TSP in Air by 40CFR	Method: 40CFR APJ							
PM10 in Air by 40CFR	34.8	ug/m3	1.00	08/12/03 17:00	DMT			

Lab Sample No: 502668395 Project Sample Number: 5029321-029 Date Collected: 08/06/03 00:00
Client Sample ID: PM2901-31 Matrix: Air Date Received: 08/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
TSP in Air by 40CFR	Method: 40CFR APJ							
PM10 in Air by 40CFR	38.3	ug/m3	1.00	08/12/03 17:00	DMT			

Lab Sample No: 502668403 Project Sample Number: 5029321-030 Date Collected: 08/07/03 00:00
Client Sample ID: PM2901-32 Matrix: Air Date Received: 08/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
TSP in Air by 40CFR	Method: 40CFR APJ							
PM10 in Air by 40CFR	41.3	ug/m3	1.00	08/12/03 17:00	DMT			

Lab Sample No: 502668411 Project Sample Number: 5029321-031 Date Collected: 08/05/03 00:00
Client Sample ID: TP-FB-20 Matrix: Air Date Received: 08/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/14/03 19:02	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/14/03 19:02	FRW	7440-38-2	2	
Antimony	ND	ug/m3	0.0500	08/14/03 19:02	FRW	7440-36-0		
Date Digested	08/12/03			08/12/03				
Wet Chemistry								
TSP in Air by 40CFR	Method: 40CFR APG							

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Lab Project Number: 5029321
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502668411 Project Sample Number: 5029321-031 Date Collected: 08/05/03 00:00
Client Sample ID: TP-FB-20 Matrix: Air Date Received: 08/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
PM10 in Air by 40CFR	ND	ug/m3	1.00	08/12/03 17:00	DMT		3	

Lab Sample No: 502668429 Project Sample Number: 5029321-032 Date Collected: 08/06/03 00:00
Client Sample ID: TP-FB-21 Matrix: Air Date Received: 08/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/13/03 19:36	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/13/03 19:36	FRW	7440-38-2	2	
Antimony	ND	ug/m3	0.0500	08/13/03 19:36	FRW	7440-36-0		
Date Digested	08/12/03			08/12/03				
Wet Chemistry								
TSP in Air by 40CFR	Method: 40CFR APG							
PM10 in Air by 40CFR	ND	ug/m3	1.00	08/12/03 17:00	DMT		4	

Lab Sample No: 502668437 Project Sample Number: 5029321-033 Date Collected: 08/07/03 00:00
Client Sample ID: TP-FB-22 Matrix: Air Date Received: 08/11/03 13:34

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/13/03 20:21	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/13/03 20:21	FRW	7440-38-2	2	
Antimony	ND	ug/m3	0.0500	08/13/03 20:21	FRW	7440-36-0		
Date Digested	08/12/03			08/12/03				
Wet Chemistry								
TSP in Air by 40CFR	Method: 40CFR APG							
PM10 in Air by 40CFR	ND	ug/m3	1.00	08/12/03 17:00	DMT		5	

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Lab Project Number: 5029321
Client Project ID: RSR OU5/TX - 3D959

PARAMETER FOOTNOTES

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
[1]	Filter was torn and significantly creased, craeting some potential weight loss. However, no visible portion of filter appeared to be missing.
[2]	No volume given. Total ug <10 for all target analytes.
[3]	No volume provided. Weight difference = +0.0004g.
[4]	No volume provided. Weight difference = +0.0010g.
[5]	No volume provided. Weight difference = +0.0005g.

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QUALITY CONTROL DATA

Lab Project Number: 5029321
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 56402 Analysis Method: 40CFR APG
QC Batch Method: Analysis Description: Lead in Air by 40CFR
Associated Lab Samples: 502667991 502668007 502668015 502668023 502668031
502668049 502668056 502668064 502668072 502668080
502668098 502668106 502668114 502668122 502668130
502668411 502668429 502668437

METHOD BLANK: 502672843
Associated Lab Samples: 502667991 502668007 502668015 502668023 502668031 502668049 502668056
502668064 502668072 502668080 502668098 502668106 502668114 502668122
502668130 502668411 502668429 502668437

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Arsenic	ug/m3	ND	0.0500	
Lead	ug/m3	ND	0.0500	
Antimony	ug/m3	ND	0.0500	

LABORATORY CONTROL SAMPLE: 502672850

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Lead	mg/l	0.5000	0.4880	98	1

SAMPLE DUPLICATE: 502672868

Parameter	Units	502667991 Result	DUP Result	RPD	Footnotes
Lead	ug/m3	ND	ND	NC	
Arsenic	ug/m3	ND	ND	NC	
Antimony	ug/m3	ND	ND	NC	

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QUALITY CONTROL DATA

Lab Project Number: 5029321
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 56401 Analysis Method: 40CFR APJ
QC Batch Method: Analysis Description: TSP in Air by 40CFR
Associated Lab Samples: 502668148 502668197 502668205 502668213 502668221
502668270 502668320 502668338 502668346 502668353
502668361 502668379 502668387 502668395 502668403
502668411 502668429 502668437

SAMPLE DUPLICATE: 502676562

Parameter	Units	502668148 Result	DUP Result	RPD	Footnotes
PM10 in Air by 40CFR	ug/m3	43.50	43.40	0	

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Lab Project Number: 5029321
Client Project ID: RSR OU5/TX - 3D959

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
[1]	As: 106% recovery. Sb: 105% recovery.

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ENTACT
environmental tactics in waste management

CHAIN OF CUSTODY RECORD - AIR

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PROJECT NAME/LOCATION KSR 0051 TX
PROJECT NUMBER 3D959
PROJECT MANAGER P.McDonald
LABORATORY PACE
5029321

SAMPLED BY

Kirk Gates (PRINT NAME) — Kirk Gates (SIGNATURE)

ANALYSES

TURN AROUND TIME

PRIORITY RUSH 24 HR ☐
PRIORITY 3 DAY ☒
STANDARD ☐

2003 DATE	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	Pb	As	Sb	PM_{10}			COMMENTS
8/5		TSP5-22	TSP 5	AIR	1.346	1932	X	X	X				5026677991
8/6		TSP5-23	↓		1.423	2071	↓	↓	↓				8007
8/7		TSP5-24	↓		1.429	2064							8015
8/5		TSP6-26	TSP 6		1.395	1994							8023
8/6		TSP6-27	↓		1.374	2019							8031
8/7		TSP6-28	↓		1.361	1960							8049
8/5		TSP7-30	TSP 7		1.373	1970							8056
8/6		TSP7-31	↓		1.374	2012							8064
8/7		TSP7-32	↓		1.419	2015							8072
8/5		TSP10-30	TSP 10		1.519	2187							8080
8/6		TSP10-31	↓		1.502	2200							8098
8/7		TSP10-32	↓		1.457	2077							8106
8/5		TSP11-27	TSP 11		1.484	2129							8114
8/6		TSP11-28	↓		1.443	2107							8122
8/7		TSP11-29	↓		1.427	2027	↓	↓	↓				8130
8/5		PM1935-30	PM_{10} 1935		1.195	1674				X			8148
8/6		PM1935-31	↓		1.198	1691				↓			8197
8/7		PM1935-32	↓		1.194	1676							8205
8/5		PM1958-28	PM_{10} 1958		1.202	1678							8213
8/6		PM1958-29	↓	↓	1.207	1715							8221

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	8-8-03	16:20	Jim Riddle 8-11-03 13:34				

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PROJECT NAME/LOCATION [redacted]
PROJECT NUMBER 3095[redacted]
PROJECT MANAGER P. M[redacted]NALD
LABORATORY PACE
5029321

SAMPLED BY

Kirk Gates (PRINT NAME)
Kirk Gates SIGNATURE

ANALYSES

Pb | As | Sb | PM_{10}

TURN AROUND TIME

PRIORITY RUSH 24 HR ☐
PRIORITY 3 DAY ☒
STANDARD ☐

2003 DATE	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	Pb	As	Sb	PM_{10}	COMMENTS
8/7		PM1958-30	PM_{10} 1958	AIR	1.206	1710				X	502668270
8/5		PM2084-28	PM_{10} 2084		1.196	1675					8320
8/6		PM2084-29			1.198	1697					8338
8/7		PM2084-30			1.195	1660					8346
8/5		PM2587-30	PM_{10} 2587		1.183	1651					8353
8/6		PM2587-31			1.185	1673					8361
8/7		PM2587-32			1.184	1627					8379
8/5		PM2901-30	PM_{10} 2901		1.180	1653					8387
8/6		PM2901-31			1.187	1681					8395
8/7		PM2901-32			1.186	1636					8403
8/5		TP-FB-20	—	—	—	—	X	X	X	X	8411
8/6		TP-FB-21	—	—	—	—					8429
8/7		TP-FB-22	—	—	—	—					8437

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	8-8-03	16:20	Jill Riddle 8-11-03 13:34				

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August 19, 2003

Ms. Jenny Elste
Entact
4040 W. Royal Ln.
Suite 136
Irving, TX 75038

RE: Lab Project Number: 5029362
Client Project ID: RSR OU5/TX - 3D959

Dear Ms. Elste:

Enclosed are the analytical results for sample(s) received by the laboratory on August 13, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Jill Riddle

Jill Riddle
jill.riddle@pacelabs.com
Project Manager

Enclosures

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August 19, 2003

Case Narrative- Project Review
Project 5029362 (Entact)

Sample Receiving

No discrepancies were noted concerning sample receipt or sample transfer.

Metals in air- 40CFR APG.

For samples 502675812 and 502675820, there were no volumes documented. The total ug/filter result was less than 10 for each of these samples (footnote #1, page 8).

Additional LCS results are listed in footnote #1, page 11.

The duplicate listed on page 9 is considered batch quality control data. A project-specific duplicate was not analyzed. All other quality control indicators for this project (method blank and LCS results) are within laboratory acceptance limits.

PM10 in air- 40CFR APJ.

All quality control indicators for this project (duplicate results) are within laboratory acceptance limits.

I have reviewed the data from this project and have found all other discrepancies to be sufficiently covered in the footnotes in the sample results section and the quality control section of the final report.

Tim Harrison

Tim Harrison
Quality Manager
Pace Analytical Services

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Lab Project Number: 5029362
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502675374 Project Sample Number: 5029362-001 Date Collected: 08/08/03 00:00
Client Sample ID: TSP5-25 Matrix: Air Date Received: 08/13/03 12:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/18/03 12:47	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/18/03 12:47	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/18/03 12:47	FRW	7440-36-0		
Date Digested	08/15/03			08/15/03				

Lab Sample No: 502675382 Project Sample Number: 5029362-002 Date Collected: 08/11/03 00:00
Client Sample ID: TSP5-26 Matrix: Air Date Received: 08/13/03 12:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/18/03 13:33	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/18/03 13:33	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/18/03 13:33	FRW	7440-36-0		
Date Digested	08/15/03			08/15/03				

Lab Sample No: 502675390 Project Sample Number: 5029362-003 Date Collected: 08/08/03 00:00
Client Sample ID: TSP6-29 Matrix: Air Date Received: 08/13/03 12:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/18/03 12:53	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/18/03 12:53	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/18/03 12:53	FRW	7440-36-0		
Date Digested	08/15/03			08/15/03				

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Lab Project Number: 5029362
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502675408 Project Sample Number: 5029362-004 Date Collected: 08/11/03 00:00
Client Sample ID: TSP6-30 Matrix: Air Date Received: 08/13/03 12:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/18/03 13:38	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/18/03 13:38	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/18/03 13:38	FRW	7440-36-0		
Date Digested	08/15/03			08/15/03				

Lab Sample No: 502675531 Project Sample Number: 5029362-005 Date Collected: 08/08/03 00:00
Client Sample ID: TSP7-33 Matrix: Air Date Received: 08/13/03 12:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/18/03 12:59	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/18/03 12:59	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/18/03 12:59	FRW	7440-36-0		
Date Digested	08/15/03			08/15/03				

Lab Sample No: 502675549 Project Sample Number: 5029362-006 Date Collected: 08/11/03 00:00
Client Sample ID: TSP7-34 Matrix: Air Date Received: 08/13/03 12:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/18/03 13:44	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/18/03 13:44	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/18/03 13:44	FRW	7440-36-0		
Date Digested	08/15/03			08/15/03				

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Lab Project Number: 5029362
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502675556 Project Sample Number: 5029362-007 Date Collected: 08/08/03 00:00
Client Sample ID: TSP10-33 Matrix: Air Date Received: 08/13/03 12:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	0.0770	ug/m3	0.0500	08/18/03 13:04	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/18/03 13:04	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/18/03 13:04	FRW	7440-36-0		
Date Digested	08/15/03			08/15/03				

Lab Sample No: 502675564 Project Sample Number: 5029362-008 Date Collected: 08/11/03 00:00
Client Sample ID: TSP10-34 Matrix: Air Date Received: 08/13/03 12:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/18/03 13:50	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/18/03 13:50	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/18/03 13:50	FRW	7440-36-0		
Date Digested	08/15/03			08/15/03				

Lab Sample No: 502675572 Project Sample Number: 5029362-009 Date Collected: 08/08/03 00:00
Client Sample ID: TSP11-30 Matrix: Air Date Received: 08/13/03 12:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/18/03 13:21	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/18/03 13:21	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/18/03 13:21	FRW	7440-36-0		
Date Digested	08/15/03			08/15/03				

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Lab Project Number: 5029362
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502675580 Project Sample Number: 5029362-010 Date Collected: 08/11/03 00:00
Client Sample ID: TSP11-31 Matrix: Air Date Received: 08/13/03 12:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/18/03 13:55	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/18/03 13:55	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/18/03 13:55	FRW	7440-36-0		
Date Digested	08/15/03			08/15/03				

Lab Sample No: 502675655 Project Sample Number: 5029362-011 Date Collected: 08/08/03 00:00
Client Sample ID: PM1935-33 Matrix: Air Date Received: 08/13/03 12:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
TSP in Air by 40CFR	Method: 40CFR APJ							
Total Particules	15.6	ug/m3	1.00	08/15/03 12:00	DMT			

Lab Sample No: 502675663 Project Sample Number: 5029362-012 Date Collected: 08/11/03 00:00
Client Sample ID: PM1935-34 Matrix: Air Date Received: 08/13/03 12:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particules	36.2	ug/m3	1.00	08/15/03 12:00	DMT			

Lab Sample No: 502675671 Project Sample Number: 5029362-013 Date Collected: 08/08/03 00:00
Client Sample ID: PM1958-31 Matrix: Air Date Received: 08/13/03 12:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particules	12.2	ug/m3	1.00	08/15/03 12:00	DMT			

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Lab Project Number: 5029362
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502675689 Project Sample Number: 5029362-014 Date Collected: 08/11/03 00:00
Client Sample ID: PM1958-32 Matrix: Air Date Received: 08/13/03 12:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particules	30.8	ug/m3	1.00	08/15/03 12:00	DMT			

Lab Sample No: 502675705 Project Sample Number: 5029362-015 Date Collected: 08/08/03 00:00
Client Sample ID: PM2084-31 Matrix: Air Date Received: 08/13/03 12:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particules	10.0	ug/m3	1.00	08/15/03 12:00	DMT			

Lab Sample No: 502675721 Project Sample Number: 5029362-016 Date Collected: 08/11/03 00:00
Client Sample ID: PM2084-32 Matrix: Air Date Received: 08/13/03 12:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particules	24.8	ug/m3	1.00	08/15/03 12:00	DMT			

Lab Sample No: 502675754 Project Sample Number: 5029362-017 Date Collected: 08/08/03 00:00
Client Sample ID: PM2587-33 Matrix: Air Date Received: 08/13/03 12:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particules	11.4	ug/m3	1.00	08/15/03 12:00	DMT			

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Lab Project Number: 5029362
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502675770 Project Sample Number: 5029362-018 Date Collected: 08/11/03 00:00
Client Sample ID: PM2587-34 Matrix: Air Date Received: 08/13/03 12:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particules	25.0	ug/m3	1.00	08/15/03 12:00	DMT			

Lab Sample No: 502675796 Project Sample Number: 5029362-019 Date Collected: 08/08/03 00:00
Client Sample ID: PM2901-33 Matrix: Air Date Received: 08/13/03 12:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particules	11.9	ug/m3	1.00	08/15/03 12:00	DMT			

Lab Sample No: 502675804 Project Sample Number: 5029362-020 Date Collected: 08/11/03 00:00
Client Sample ID: PM2901-34 Matrix: Air Date Received: 08/13/03 12:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APJ							
Total Particules	27.0	ug/m3	1.00	08/15/03 12:00	DMT			

Lab Sample No: 502675812 Project Sample Number: 5029362-021 Date Collected: 08/08/03 00:00
Client Sample ID: TP-FB-23 Matrix: Air Date Received: 08/13/03 12:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/18/03 13:27	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/18/03 13:27	FRW	7440-38-2	1	
Antimony	ND	ug/m3	0.0500	08/18/03 13:27	FRW	7440-36-0		
Date Digested	08/15/03			08/15/03				
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APG							

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Lab Project Number: 5029362
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502675812 Project Sample Number: 5029362-021 Date Collected: 08/08/03 00:00
Client Sample ID: TP-FB-23 Matrix: Air Date Received: 08/13/03 12:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Total Particules	ND	ug/m3	1.00	08/15/03 12:00	DMT	2		

Lab Sample No: 502675820 Project Sample Number: 5029362-022 Date Collected: 08/11/03 00:00
Client Sample ID: TP-FB-24 Matrix: Air Date Received: 08/13/03 12:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/18/03 14:01	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/18/03 14:01	FRW	7440-38-2	1	
Antimony	ND	ug/m3	0.0500	08/18/03 14:01	FRW	7440-36-0		
Date Digested	08/15/03			08/15/03				
Wet Chemistry								
PM10 in Air by 40CFR	Method: 40CFR APG							
Total Particules	ND	ug/m3	1.00	08/15/03 12:00	DMT	3		

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Lab Project Number: 5029362
Client Project ID: RSR OU5/TX - 3D959

PARAMETER FOOTNOTES

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
[1]	No volume given. Total ug <10 for all target analytes.
[2]	Initial wt. 4.1764g. Final wt. 4.1768g. Weight diff. +0.0004g.
[3]	Initial wt. 4.1320g. Final wt. 4.1326g. Weight diff. +0.0006g.

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QUALITY CONTROL DATA

Lab Project Number: 5029362
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 56590 Analysis Method: 40CFR APG
QC Batch Method: Analysis Description: Lead in Air by 40CFR
Associated Lab Samples: 502675374 502675382 502675390 502675408 502675531
502675549 502675556 502675564 502675572 502675580
502675812 502675820

METHOD BLANK: 502683246
Associated Lab Samples: 502675374 502675382 502675390 502675408 502675531 502675549 502675556
502675564 502675572 502675580 502675812 502675820

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Arsenic	ug/m3	ND	0.0500	
Lead	ug/m3	ND	0.0500	
Antimony	ug/m3	ND	0.0500	

LABORATORY CONTROL SAMPLE: 502683253

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Lead	mg/l	0.5000	0.4750	95	1

SAMPLE DUPLICATE: 502683261

Parameter	Units	502670011 Result	DUP Result	RPD	Footnotes
Arsenic	ug/m3	ND	ND	NC	
Lead	ug/m3	ND	ND	NC	
Antimony	ug/m3	ND	ND	NC	

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QUALITY CONTROL DATA

Lab Project Number: 5029362
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 56589 Analysis Method: 40CFR APJ
QC Batch Method: Analysis Description: PM10 in Air by 40CFR
Associated Lab Samples: 502675655 502675663 502675671 502675689 502675705
502675721 502675754 502675770 502675796 502675804
502675812 502675820

SAMPLE DUPLICATE: 502683204

Parameter	Units	502675655 Result	DUP Result	RPD	Footnotes
PM10 in Air by 40CFR	ug/m3	15.60	15.70	1	

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Lab Project Number: 5029362
Client Project ID: RSR OU5/TX - 3D959

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
[1]	As: 102% recovery. Cr: 96% recovery. Sb: 102% recovery.

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CHAIN OF CUSTODY RECORD - AIR

ENTACT
environmental tactics in waste management

4040 W. Royal Lane #136 • I[illegible], Texas 75063
972.580.1323 • Fax 972.550.7464

PROJECT NAME/LOCATION RSR DUST TX
PROJECT NUMBER 3D9[illegible]
PROJECT MANAGER P. McDONALD
LABORATORY PACE

5029362

SAMPLED BY

KIRK GATES (PRINT NAME)

Kirk Gates SIGNATURE

ANALYSES

TURN AROUND TIME

PRIORITY RUSH 24 HR ☐
PRIORITY 3 DAY ☒
STANDARD ☐

2003 DATE	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	Pb	As	PM_{10}	Sb	COMMENTS
8/8		TSP5-25	TSP5	AIR	1.420	2002	X	X		X	5026755374
8/11		TSP5-26	↓		1.425	2038					5382
8/8		TSP6-29	TSP6		1.377	1941					5390
8/11		TSP6-30	↓		1.376	1968					5408
8/8		TSP7-33	TSP7		1.424	2036					5531
8/11		TSP7-34	↓		1.421	2011					5549
8/8		TSP10-33	TSP10		1.500	2168					5556
8/11		TSP10-34	↓		1.582	2215					5564
8/8		TSP11-30	TSP11		1.375	2001					5572
8/11		TSP11-31	↓		1.394	1951					5580
8/8		PM1935-33	PM_{10} 1935		1.193	1644			X		5655
8/11		PM1935-34	↓		1.191	1678					5663
8/8		PM1958-31	PM_{10} 1958		1.202	1703					5671
8/11		PM1958-32	↓		1.201	1651					5689
8/8		PM2084-31	PM_{10} 2084		1.193	1638					5705
8/11		PM2084-32	↓		1.191	1672					5721
8/8		PM2587-33	PM_{10} 2587		1.181	1662					5754
8/11		PM2587-34	↓		1.181	1647					5770
8/8		PM2901-33	PM_{10} 2901		1.182	1669					5796
8/11		PM2901-34	↓		1.180	1634					5804

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	8-12-03	8-12-03			8-13-03	12:00	

METHOD OF SHIPMENT

REMARKS:

Fed Ex 8390 0052 6354

PT 1 - ORIGINAL - WHITE PT 2 - LAB - YELLOW PT 3 - CUSTOMER COPY - PINK

BT (22) Intact Pg 1 of 2

CHAIN OF CUSTODY RECORD - AIR

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972.580.1323 • Fax 972.550.7464

PROJECT NAME/LOCATION [illegible] TX
PROJECT NUMBER 30959
PROJECT MANAGER P. McDONALD
LABORATORY PACE
5029362

SAMPLED BY

KIRK GATES (PRINT NAME)
Kirk Gates SIGNATURE

ANALYSES

TURN AROUND TIME

- PRIORITY RUSH 24 HR ☐
- PRIORITY 3 DAY ☒
- STANDARD ☐

DATE (2003)	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	Pb	As	Sb	PM10	COMMENTS
8/8		TP-FB-23	—	AIR	—	—	X	X	X	X	5026675812
8/11		TP-FB-24	—		—	—	↓	↓	↓	↓	↓ 5820

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	8-12-03	15:20			8-13-03	12:00	

METHOD OF SHIPMENT

REMARKS:

FEDEX 792 0052 6354

PT 1 - ORIGINAL - WHITE PT 2 - LAB - [illegible] PT 3 - CUSTOMER COPY - PINK

22 BT INTACT

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August 21, 2003

Ms. Jenny Elste
Entact
4040 W. Royal Ln.
Suite 136
Irving, TX 75038

RE: Lab Project Number: 5029463
Client Project ID: RSR OU5/TX - 3D959

Dear Ms. Elste:

Enclosed are the analytical results for sample(s) received by the laboratory on August 18, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Jill Riddle

Jill Riddle
jill.riddle@pacelabs.com
Project Manager

Enclosures

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August 21, 2003

Case Narrative- Project Review
Project 5029463 (Entact)

Sample Receiving

No discrepancies were noted concerning sample receipt or sample transfer.

Metals in air- 40CFR APG.

Additional LCS results are listed in footnote #1, page 13.

All quality control indicators for this project (method blank, duplicate and LCS results) are within laboratory acceptance limits.

PM10 in air- 40CFR APJ.

All quality control indicators for this project (duplicate results) are within laboratory acceptance limits.

I have reviewed the data from this project and have found all other discrepancies to be sufficiently covered in the footnotes in the sample results section and the quality control section of the final report.

Tim Harrison
Quality Manager
Pace Analytical Services

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Lab Project Number: 5029463
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502688518 Project Sample Number: 5029463-001 Date Collected: 08/12/03 00:00
Client Sample ID: TSP5-27 Matrix: Air Date Received: 08/18/03 14:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	0.106	ug/m3	0.0500	08/21/03 00:50	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/21/03 00:50	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/21/03 00:50	FRW	7440-36-0		
Date Digested	08/20/03			08/20/03				

Lab Sample No: 502688534 Project Sample Number: 5029463-002 Date Collected: 08/13/03 00:00
Client Sample ID: TSP5-28 Matrix: Air Date Received: 08/18/03 14:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/21/03 01:36	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/21/03 01:36	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/21/03 01:36	FRW	7440-36-0		
Date Digested	08/20/03			08/20/03				

Lab Sample No: 502688559 Project Sample Number: 5029463-003 Date Collected: 08/14/03 00:00
Client Sample ID: TSP5-29 Matrix: Air Date Received: 08/18/03 14:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/21/03 02:18	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/21/03 02:18	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/21/03 02:18	FRW	7440-36-0		
Date Digested	08/20/03			08/20/03				

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Lab Project Number: 5029463
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502688575 Project Sample Number: 5029463-004 Date Collected: 08/12/03 00:00
Client Sample ID: TSP6-31 Matrix: Air Date Received: 08/18/03 14:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/21/03 01:14	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/21/03 01:14	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/21/03 01:14	FRW	7440-36-0		
Date Digested	08/20/03			08/20/03				

Lab Sample No: 502688583 Project Sample Number: 5029463-005 Date Collected: 08/13/03 00:00
Client Sample ID: TSP6-32 Matrix: Air Date Received: 08/18/03 14:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/21/03 01:42	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/21/03 01:42	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/21/03 01:42	FRW	7440-36-0		
Date Digested	08/20/03			08/20/03				

Lab Sample No: 502688591 Project Sample Number: 5029463-006 Date Collected: 08/14/03 00:00
Client Sample ID: TSP6-33 Matrix: Air Date Received: 08/18/03 14:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/21/03 02:23	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/21/03 02:23	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/21/03 02:23	FRW	7440-36-0		
Date Digested	08/20/03			08/20/03				

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Lab Project Number: 5029463
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502688617 Project Sample Number: 5029463-007 Date Collected: 08/12/03 00:00
Client Sample ID: TSP7-35 Matrix: Air Date Received: 08/18/03 14:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	0.0570	ug/m3	0.0500	08/21/03 01:19	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/21/03 01:19	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/21/03 01:19	FRW	7440-36-0		
Date Digested	08/20/03			08/20/03				

Lab Sample No: 502688633 Project Sample Number: 5029463-008 Date Collected: 08/13/03 00:00
Client Sample ID: TSP7-36 Matrix: Air Date Received: 08/18/03 14:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/21/03 01:48	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/21/03 01:48	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/21/03 01:48	FRW	7440-36-0		
Date Digested	08/20/03			08/20/03				

Lab Sample No: 502688658 Project Sample Number: 5029463-009 Date Collected: 08/14/03 00:00
Client Sample ID: TSP7-37 Matrix: Air Date Received: 08/18/03 14:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/21/03 02:29	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/21/03 02:29	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/21/03 02:29	FRW	7440-36-0		
Date Digested	08/20/03			08/20/03				

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Lab Project Number: 5029463
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502688674 Project Sample Number: 5029463-010 Date Collected: 08/12/03 00:00
Client Sample ID: TSP10-35 Matrix: Air Date Received: 08/18/03 14:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	0.0540	ug/m3	0.0500	08/21/03 01:25	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/21/03 01:25	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/21/03 01:25	FRW	7440-36-0		
Date Digested	08/20/03			08/20/03				

Lab Sample No: 502688682 Project Sample Number: 5029463-011 Date Collected: 08/13/03 00:00
Client Sample ID: TSP10-36 Matrix: Air Date Received: 08/18/03 14:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/21/03 01:53	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/21/03 01:53	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/21/03 01:53	FRW	7440-36-0		
Date Digested	08/20/03			08/20/03				

Lab Sample No: 502688690 Project Sample Number: 5029463-012 Date Collected: 08/14/03 00:00
Client Sample ID: TSP10-37 Matrix: Air Date Received: 08/18/03 14:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/21/03 02:35	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/21/03 02:35	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/21/03 02:35	FRW	7440-36-0		
Date Digested	08/20/03			08/20/03				

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Lab Project Number: 5029463
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502688708 Project Sample Number: 5029463-013 Date Collected: 08/12/03 00:00
Client Sample ID: TSP11-32 Matrix: Air Date Received: 08/18/03 14:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/21/03 01:31	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/21/03 01:31	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/21/03 01:31	FRW	7440-36-0		
Date Digested	08/20/03			08/20/03				

Lab Sample No: 502688716 Project Sample Number: 5029463-014 Date Collected: 08/13/03 00:00
Client Sample ID: TSP11-33 Matrix: Air Date Received: 08/18/03 14:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/21/03 01:59	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/21/03 01:59	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/21/03 01:59	FRW	7440-36-0		
Date Digested	08/20/03			08/20/03				

Lab Sample No: 502688724 Project Sample Number: 5029463-015 Date Collected: 08/14/03 00:00
Client Sample ID: TSP11-34 Matrix: Air Date Received: 08/18/03 14:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/21/03 02:40	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/21/03 02:40	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/21/03 02:40	FRW	7440-36-0		
Date Digested	08/20/03			08/20/03				

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Lab Project Number: 5029463
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502688773 Project Sample Number: 5029463-016 Date Collected: 08/12/03 00:00
Client Sample ID: PM1935-35 Matrix: Air Date Received: 08/18/03 14:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	32.0	ug/m3	1.00	08/20/03 18:00	DMT			

Lab Sample No: 502688781 Project Sample Number: 5029463-017 Date Collected: 08/13/03 00:00
Client Sample ID: PM1935-36 Matrix: Air Date Received: 08/18/03 14:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	39.3	ug/m3	1.00	08/20/03 18:00	DMT			

Lab Sample No: 502688799 Project Sample Number: 5029463-018 Date Collected: 08/14/03 00:00
Client Sample ID: PM1935-37 Matrix: Air Date Received: 08/18/03 14:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	39.3	ug/m3	1.00	08/20/03 18:00	DMT			

Lab Sample No: 502688807 Project Sample Number: 5029463-019 Date Collected: 08/12/03 00:00
Client Sample ID: PM1958-33 Matrix: Air Date Received: 08/18/03 14:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	22.2	ug/m3	1.00	08/20/03 18:00	DMT			

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Lab Project Number: 5029463
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502688815 Project Sample Number: 5029463-020 Date Collected: 08/13/03 00:00
Client Sample ID: PM1958-34 Matrix: Air Date Received: 08/18/03 14:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	35.2	ug/m3	1.00	08/20/03 18:00	DMT			

Lab Sample No: 502688823 Project Sample Number: 5029463-021 Date Collected: 08/14/03 00:00
Client Sample ID: PM1958-35 Matrix: Air Date Received: 08/18/03 14:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	28.8	ug/m3	1.00	08/20/03 18:00	DMT			

Lab Sample No: 502688831 Project Sample Number: 5029463-022 Date Collected: 08/12/03 00:00
Client Sample ID: PM2084-33 Matrix: Air Date Received: 08/18/03 14:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	21.3	ug/m3	1.00	08/20/03 18:00	DMT			

Lab Sample No: 502688849 Project Sample Number: 5029463-023 Date Collected: 08/13/03 00:00
Client Sample ID: PM2084-34 Matrix: Air Date Received: 08/18/03 14:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	28.6	ug/m3	1.00	08/20/03 18:00	DMT			

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Lab Project Number: 5029463
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502688856 Project Sample Number: 5029463-024 Date Collected: 08/14/03 00:00
Client Sample ID: PM2084-35 Matrix: Air Date Received: 08/18/03 14:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	23.8	ug/m3	1.00	08/20/03 18:00	DMT			

Lab Sample No: 502688864 Project Sample Number: 5029463-025 Date Collected: 08/12/03 00:00
Client Sample ID: PM2587-35 Matrix: Air Date Received: 08/18/03 14:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	22.1	ug/m3	1.00	08/20/03 18:00	DMT			

Lab Sample No: 502688872 Project Sample Number: 5029463-026 Date Collected: 08/13/03 00:00
Client Sample ID: PM2587-36 Matrix: Air Date Received: 08/18/03 14:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	31.1	ug/m3	1.00	08/20/03 18:00	DMT			

Lab Sample No: 502688880 Project Sample Number: 5029463-027 Date Collected: 08/14/03 00:00
Client Sample ID: PM2587-37 Matrix: Air Date Received: 08/18/03 14:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	26.4	ug/m3	1.00	08/20/03 18:00	DMT			

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Lab Project Number: 5029463
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502688898 Project Sample Number: 5029463-028 Date Collected: 08/12/03 00:00
Client Sample ID: PM2901-35 Matrix: Air Date Received: 08/18/03 14:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	26.0	ug/m3	1.00	08/20/03 18:00	DMT			

Lab Sample No: 502688906 Project Sample Number: 5029463-029 Date Collected: 08/13/03 00:00
Client Sample ID: PM2901-36 Matrix: Air Date Received: 08/18/03 14:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	34.6	ug/m3	1.00	08/20/03 18:00	DMT			

Lab Sample No: 502688914 Project Sample Number: 5029463-030 Date Collected: 08/14/03 00:00
Client Sample ID: PM2901-37 Matrix: Air Date Received: 08/18/03 14:45

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	29.8	ug/m3	1.00	08/20/03 18:00	DMT			

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Lab Project Number: 5029463
Client Project ID: RSR OU5/TX - 3D959

PARAMETER FOOTNOTES

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit

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QUALITY CONTROL DATA

Lab Project Number: 5029463
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 56809 Analysis Method: 40CFR APG
QC Batch Method: Analysis Description: Lead in Air by 40CFR
Associated Lab Samples: 502688518 502688534 502688559 502688575 502688583 502688591 502688617 502688633 502688658 502688674 502688682 502688690 502688708 502688716 502688724

METHOD BLANK: 502692692
Associated Lab Samples: 502688518 502688534 502688559 502688575 502688583 502688591 502688617 502688633 502688658 502688674 502688682 502688690 502688708 502688716 502688724

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Arsenic	ug/m3	ND	0.0500	
Lead	ug/m3	ND	0.0500	
Antimony	ug/m3	ND	0.0500	

LABORATORY CONTROL SAMPLE: 502692700

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Lead	mg/l	0.5000	0.4790	96	1

SAMPLE DUPLICATE: 502692718

Parameter	Units	502688518 Result	DUP Result	RPD	Footnotes
Lead	ug/m3	0.1060	0.1000	6	
Arsenic	ug/m3	ND	ND	NC	
Antimony	ug/m3	ND	ND	NC	

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QUALITY CONTROL DATA

Lab Project Number: 5029463
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 56810 Analysis Method: 40CFR APJ
QC Batch Method: 40CFR APJ Analysis Description: PM10 in Air by 40CFR APJ
Associated Lab Samples: 502688773 502688781 502688799 502688807 502688815
502688823 502688831 502688849 502688856 502688864
502688872 502688880 502688898 502688906 502688914

SAMPLE DUPLICATE: 502692726

Parameter	Units	502688773 Result	DUP Result	RPD	Footnotes
Total Particles	ug/m3	32.00	32.10	0	

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Lab Project Number: 5029463
Client Project ID: RSR OU5/TX - 3D959

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
[1]	As: 98% recovery. Sb: 104% recovery.

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CHAIN OF CUSTODY RECORD - AIR

ENTACT
environmental tactics in waste management
4040 W. Royal Lane #136 • Irving, Texas 75063
972.580.1323 • Fax 972.550.7464

PROJECT NAME/LOCATION KIRK GATES TX
PROJECT NUMBER 3D959
PROJECT MANAGER P. McDONALD
LABORATORY PACE
5029463

SAMPLED BY

Kirk Gates (PRINT NAME)

Kirk Gates SIGNATURE

ANALYSES

TURN AROUND TIME

PRIORITY RUSH 24 HR ☐
PRIORITY 3 DAY ☒
STANDARD ☐

DATE (2003)	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	Pb	As	Sb	PM10			COMMENTS
8/12		TSP 5 - 27	TSP 5	AIR	1.418	1999	X	X	X				5021688518
8/13		TSP 5 - 28	↓		1.453	2078							8534
8/14		TSP 5 - 29	↓		1.432	2098							8559
8/12		TSP 6 - 31	TSP 6		1.406	1996							8575
8/13		TSP 6 - 32	↓		1.412	2012							8583
8/14		TSP 6 - 33	↓		1.446	2119							8591
8/12		TSP 7 - 35	TSP 7		1.427	2041							8617
8/13		TSP 7 - 36	↓		1.415	2031							8633
8/14		TSP 7 - 37	↓		1.418	2070							8658
8/12		TSP 10 - 35	TSP 10		1.550	2224							8674
8/13		TSP 10 - 36	↓		1.551	2233							8682
8/14		TSP 10 - 37	↓		1.451	2111							8690
8/12		TSP 11 - 32	TSP 11		1.464	2093							8708
8/13		TSP 11 - 33	↓		1.438	2078							8716
8/14		TSP 11 - 34	↓		1.483	2165							8724
8/12		PM 1935 - 35	PM 1935		1.183	1655				X			8773
8/13		PM 1935 - 36	↓		1.188	1697				X			8781
8/14		PM 1935 - 37	↓		1.188	1739				X			8799
8/12		PM 1958 - 33	PM 1958		1.198	1706				X			8807
8/13		PM 1958 - 34	↓		1.197	1728				X			8815

* Per Kirk Gates 8-18-03, PM1935 (35-37) should be analyzed for PM10 - not metals. JPR

RELINQUISHED BY:	~~DATE~~ TIME	~~TIME~~ DATE	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	14:35	8-15-03	Jill Riddle 8-18-03 14:45				

METHOD OF SHIPMENT
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REMARKS:

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CHAIN OF CUSTODY RECORD - AIR

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972.580.1323 • Fax 972.550.7464

PROJECT NAME/LOCATION
PROJECT NUMBER 3D959
PROJECT MANAGER P.M. [illegible]
LABORATORY PACE

5029463

SAMPLED BY

Kirk Gates (PRINT NAME)

Kirk Gates SIGNATURE

ANALYSES

TURN AROUND TIME

PRIORITY RUSH 24 HR ☐
PRIORITY 3 DAY ☒
STANDARD ☐

2003 DATE	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	Pb	As	Sb	PM_{10}			COMMENTS
8/14		PM1958-35	Pm1958	AIR	1.196	1739				X			5026888823
8/12		PM2084-33	Pm 2084		1.189	1675				↓			8831
8/13		PM2084-34	↓		1.188	1697							8849
8/14		PM2084-35			1.188	1733							8856
8/12		PM2587-35	Pm2587		1.178	1672							8864
8/13		PM2587-36	↓		1.176	1680							8872
8/14		PM2587-37			1.176	1722							8880
8/12		PM2901-35	Pm2901		1.177	1670							8898
8/13		PM2901-36	↓		1.175	1684							8906
8/14		PM2901-37			1.175	1714							8914

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	8-15-03	14:35	Jill Riddle 8-18-03 14:45				

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August 25, 2003

Ms. Jenny Elste
Entact
4040 W. Royal Ln.
Suite 136
Irving, TX 75038

RE: Lab Project Number: 5029497
Client Project ID: RSR OU5/TX - 3D959

Dear Ms. Elste:

Enclosed are the analytical results for sample(s) received by the laboratory on August 20, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Jill Riddle

Jill Riddle
jill.riddle@pacelabs.com
Project Manager

Enclosures

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August 25, 2003

Case Narrative- Project Review
Project 5029497 (Entact)

Sample Receiving

No discrepancies were noted concerning sample receipt or sample transfer.

Metals in air- 40CFR APG.

Additional LCS results are listed in footnote #1, page 10.

All quality control indicators for this project (method blank, duplicate and LCS results) are within laboratory acceptance limits.

PM10 in air- 40CFR APJ.

All quality control indicators for this project (duplicate results) are within laboratory acceptance limits.

I have reviewed the data from this project and have found all other discrepancies to be sufficiently covered in the footnotes in the sample results section and the quality control section of the final report.

Tim Harrison
Quality Manager
Pace Analytical Services

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Lab Project Number: 5029497
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502692981 Project Sample Number: 5029497-001 Date Collected: 08/15/03 00:00
Client Sample ID: TSP5-30 Matrix: Air Date Received: 08/20/03 10:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/23/03 13:27	DDM	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/23/03 13:27	DDM	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/23/03 13:27	DDM	7440-36-0		
Date Digested	08/22/03			08/22/03				

Lab Sample No: 502692999 Project Sample Number: 5029497-002 Date Collected: 08/18/03 00:00
Client Sample ID: TSP5-31 Matrix: Air Date Received: 08/20/03 10:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/23/03 13:55	DDM	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/23/03 13:55	DDM	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/23/03 13:55	DDM	7440-36-0		
Date Digested	08/22/03			08/22/03				

Lab Sample No: 502693005 Project Sample Number: 5029497-003 Date Collected: 08/18/03 00:00
Client Sample ID: TSP6-34 Matrix: Air Date Received: 08/20/03 10:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/23/03 14:12	DDM	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/23/03 14:12	DDM	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/23/03 14:12	DDM	7440-36-0		
Date Digested	08/22/03			08/22/03				

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Lab Project Number: 5029497
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502693013 Project Sample Number: 5029497-004 Date Collected: 08/15/03 00:00
Client Sample ID: TSP7-38 Matrix: Air Date Received: 08/20/03 10:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/23/03 13:38	DDM	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/23/03 13:38	DDM	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/23/03 13:38	DDM	7440-36-0		
Date Digested	08/22/03			08/22/03				

Lab Sample No: 502693039 Project Sample Number: 5029497-005 Date Collected: 08/18/03 00:00
Client Sample ID: TSP7-39 Matrix: Air Date Received: 08/20/03 10:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/23/03 14:18	DDM	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/23/03 14:18	DDM	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/23/03 14:18	DDM	7440-36-0		
Date Digested	08/22/03			08/22/03				

Lab Sample No: 502693047 Project Sample Number: 5029497-006 Date Collected: 08/15/03 00:00
Client Sample ID: TSP10-38 Matrix: Air Date Received: 08/20/03 10:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/23/03 13:44	DDM	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/23/03 13:44	DDM	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/23/03 13:44	DDM	7440-36-0		
Date Digested	08/22/03			08/22/03				

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Lab Project Number: 5029497
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502693054 Project Sample Number: 5029497-007 Date Collected: 08/18/03 00:00
Client Sample ID: TSP10-39 Matrix: Air Date Received: 08/20/03 10:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/23/03 14:23	DDM	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/23/03 14:23	DDM	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/23/03 14:23	DDM	7440-36-0		
Date Digested	08/22/03			08/22/03				

Lab Sample No: 502693062 Project Sample Number: 5029497-008 Date Collected: 08/15/03 00:00
Client Sample ID: TSP11-35 Matrix: Air Date Received: 08/20/03 10:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/23/03 13:49	DDM	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/23/03 13:49	DDM	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/23/03 13:49	DDM	7440-36-0		
Date Digested	08/22/03			08/22/03				

Lab Sample No: 502693088 Project Sample Number: 5029497-009 Date Collected: 08/18/03 00:00
Client Sample ID: TSP11-36 Matrix: Air Date Received: 08/20/03 10:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/23/03 14:23	DDM	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/23/03 14:23	DDM	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/23/03 14:23	DDM	7440-36-0		
Date Digested	08/22/03			08/22/03				

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Lab Project Number: 5029497
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502693104 Project Sample Number: 5029497-010 Date Collected: 08/15/03 00:00
Client Sample ID: PM1935-38 Matrix: Air Date Received: 08/20/03 10:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	16.5	ug/m3	1.00	08/22/03 11:00	DMT			

Lab Sample No: 502693112 Project Sample Number: 5029497-011 Date Collected: 08/18/03 00:00
Client Sample ID: PM1935-39 Matrix: Air Date Received: 08/20/03 10:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	42.9	ug/m3	1.00	08/22/03 11:00	DMT			

Lab Sample No: 502693120 Project Sample Number: 5029497-012 Date Collected: 08/15/03 00:00
Client Sample ID: PM1958-36 Matrix: Air Date Received: 08/20/03 10:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	15.7	ug/m3	1.00	08/22/03 11:00	DMT			

Lab Sample No: 502693138 Project Sample Number: 5029497-013 Date Collected: 08/18/03 00:00
Client Sample ID: PM1958-37 Matrix: Air Date Received: 08/20/03 10:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	35.7	ug/m3	1.00	08/22/03 11:00	DMT			

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Lab Project Number: 5029497
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502693146 Project Sample Number: 5029497-014 Date Collected: 08/18/03 00:00
Client Sample ID: PM2084-36 Matrix: Air Date Received: 08/20/03 10:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	30.9	ug/m3	1.00	08/22/03 11:00	DMT			

Lab Sample No: 502693153 Project Sample Number: 5029497-015 Date Collected: 08/15/03 00:00
Client Sample ID: PM2587-38 Matrix: Air Date Received: 08/20/03 10:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	12.3	ug/m3	1.00	08/22/03 11:00	DMT			

Lab Sample No: 502693161 Project Sample Number: 5029497-016 Date Collected: 08/18/03 00:00
Client Sample ID: PM2587-39 Matrix: Air Date Received: 08/20/03 10:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	30.8	ug/m3	1.00	08/22/03 11:00	DMT			

Lab Sample No: 502693179 Project Sample Number: 5029497-017 Date Collected: 08/15/03 00:00
Client Sample ID: PM2901-38 Matrix: Air Date Received: 08/20/03 10:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	13.3	ug/m3	1.00	08/22/03 11:00	DMT			

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Lab Project Number: 5029497
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502693187 Project Sample Number: 5029497-018 Date Collected: 08/18/03 00:00
Client Sample ID: PM2901-39 Matrix: Air Date Received: 08/20/03 10:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	37.4	ug/m3	1.00	08/22/03 11:00	DMT			

Lab Sample No: 502693195 Project Sample Number: 5029497-019 Date Collected: 08/15/03 00:00
Client Sample ID: TP-FB-025 Matrix: Air Date Received: 08/20/03 10:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/23/03 13:15	DDM	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/23/03 13:15	DDM	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/23/03 13:15	DDM	7440-36-0		
Date Digested	08/22/03			08/22/03				
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	ND	ug/m3	1.00	08/22/03 11:00	DMT		1	

Lab Sample No: 502693203 Project Sample Number: 5029497-020 Date Collected: 08/18/03 00:00
Client Sample ID: TP-FB-026 Matrix: Air Date Received: 08/20/03 10:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/23/03 13:21	DDM	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/23/03 13:21	DDM	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/23/03 13:21	DDM	7440-36-0		
Date Digested	08/22/03			08/22/03				
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	ND	ug/m3	1.00	08/22/03 11:00	DMT		2	

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Lab Project Number: 5029497
Client Project ID: RSR OU5/TX - 3D959

PARAMETER FOOTNOTES

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
[1]	Initial wt. 4.1341g. Final wt. 4.1336g. Weight diff. -0.0005g.
[2]	Initial wt. 4.1226g. Final wt. 4.1225g. Weight diff. -0.0001g.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Lab Project Number: 5029497
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 56949 Analysis Method: 40CFR APG
QC Batch Method: Analysis Description: Lead in Air by 40CFR
Associated Lab Samples: 502692981 502692999 502693005 502693013 502693039 502693047 502693054 502693062 502693088 502693195 502693203

METHOD BLANK: 502700446
Associated Lab Samples: 502692981 502692999 502693005 502693013 502693039 502693047 502693054 502693062 502693088 502693195 502693203

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Arsenic	ug/m3	ND	0.0500	
Lead	ug/m3	ND	0.0500	
Antimony	ug/m3	ND	0.0500	

LABORATORY CONTROL SAMPLE: 502700453

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Lead	mg/l	0.5000	0.4966	99	1

SAMPLE DUPLICATE: 502701998

Parameter	Units	502692981 Result	DUP Result	RPD	Footnotes
Lead	ug/m3	ND	ND	NC	
Arsenic	ug/m3	ND	ND	NC	
Antimony	ug/m3	ND	ND	NC	

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QUALITY CONTROL DATA

Lab Project Number: 5029497
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 56948 Analysis Method: 40CFR APJ
QC Batch Method: 40CFR APJ Analysis Description: PM10 in Air by 40CFR APJ
Associated Lab Samples: 502693104 502693112 502693120 502693138 502693146
502693153 502693161 502693179 502693187 502693195
502693203

SAMPLE DUPLICATE: 502700438

Parameter	Units	502693104 Result	DUP Result	RPD	Footnotes
Total Particles	ug/m3	16.50	16.70	1	

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Lab Project Number: 5029497
Client Project ID: RSR OU5/TX - 3D959

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
[1]	As recovery = 105%. Sb recovery = 106%.

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CHAIN OF CUSTODY RECORD - AIR

ENTACT
environmental tactics in waste management

4040 W. Royal Lane #136 • I[illegible], Texas 75063
972.580.1323 • Fax 972.550.7464

PROJECT NAME/LOCATION [illegible] TX
PROJECT NUMBER 3D 9[illegible]
PROJECT MANAGER P. Mc[illegible]LD
LABORATORY PACE

5029497

SAMPLED BY

KIRK GATES (PRINT NAME)

Kirk Gates SIGNATURE

ANALYSES

TURN AROUND TIME

PRIORITY RUSH 24 HR ☐
PRIORITY 3 DAY ☒
STANDARD ☐

DATE	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	Pb	As	Sb	PM10			COMMENTS
8/15		TSP5-30	TSP5	AIR	1.461	2112	X	X	X				5029462981
8/18		TSP5-31	↓		1.429	1994							2999
8/18		TSP6-34	TSP6		1.257	1791							3005
8/15		TSP7-38	TSP7		1.401	2024							3013
8/18		TSP7-39	↓		1.412	1977							3039
8/15		TSP10-38	TSP10		1.501	2168							3047
8/18		TSP10-39	↓		1.495	2092							3054
8/15		TSP11-35	TSP11		1.341	1944							3062
8/18		TSP11-36	↓		1.385	1932							3088
8/15		PM1935-38	PM10 1935		1.186	1704				X			3104
8/18		PM1935-39	↓		1.193	1630							3112
8/15		PM1958-36	PM10 1958		1.195	1723							3120
8/18		PM1958-37	↓		1.202	1636							3138
8/18		PM2084-36	PM10 2084		1.193	1659							3146
8/15		PM2587-38	PM10 2587		1.176	1690							3153
8/18		PM2587-39	↓		1.182	1615							3161
8/15		PM2901-38	PM10 2901		1.175	1688							3179
8/18		PM2901-39	↓		1.183	1616				↓			3187
8/15		TP-FB-025	—		—	—	X	X	X	X			3195
8/18		TP-FB-026	—		—	—	X	X	X	X			3203

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	8-19-03	15:35	8/20/03 10:37				

METHOD OF SHIPMENT

REMARKS:

OK RV

Fedex: 8392 0852 6376

1 of 1

PT 1 - ORIGINAL - WHITE PT 2 - LAB - YELLOW PT 3 - CUSTOMER COPY - PINK

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August 28, 2003

Ms. Jenny Elste
Entact
4040 W. Royal Ln.
Suite 136
Irving, TX 75038

RE: Lab Project Number: 5029590
Client Project ID: RSR OU5/TX - 3D959

Dear Ms. Elste:

Enclosed are the analytical results for sample(s) received by the laboratory on August 25, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Jill Riddle

Jill Riddle
jill.riddle@pacelabs.com
Project Manager

Enclosures

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August 29, 2003

Case Narrative- Project Review
Project 5029590 (Entact)

Sample Receiving

No discrepancies were noted concerning sample receipt or sample transfer.

Metals in air- 40CFR APG.

For samples 502705759, 502705775 and 502705783, there were no volumes documented. The total ug/filter result was less than 10 for each of these samples (footnote #1, page 11).

Additional LCS results are listed in footnote #1, page 14.

All quality control indicators for this project (method blank, duplicate and LCS results) are within laboratory acceptance limits.

PM10 in air- 40CFR APJ.

All quality control indicators for this project (duplicate results) are within laboratory acceptance limits.

I have reviewed the data from this project and have found all other discrepancies to be sufficiently covered in the footnotes in the sample results section and the quality control section of the final report.

Tim Harrison
Quality Manager
Pace Analytical Services

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Lab Project Number: 5029590
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502705296 Project Sample Number: 5029590-001 Date Collected: 08/19/03 00:00
Client Sample ID: TSP5-32 Matrix: Air Date Received: 08/25/03 10:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/28/03 09:21	DDM	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/28/03 09:21	DDM	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/28/03 09:21	DDM	7440-36-0		
Date Digested	08/27/03			08/27/03				

Lab Sample No: 502705346 Project Sample Number: 5029590-002 Date Collected: 08/20/03 00:00
Client Sample ID: TSP5-33 Matrix: Air Date Received: 08/25/03 10:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/28/03 10:01	DDM	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/28/03 10:01	DDM	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/28/03 10:01	DDM	7440-36-0		
Date Digested	08/27/03			08/27/03				

Lab Sample No: 502705361 Project Sample Number: 5029590-003 Date Collected: 08/21/03 00:00
Client Sample ID: TSP5-34 Matrix: Air Date Received: 08/25/03 10:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/28/03 10:46	DDM	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/28/03 10:46	DDM	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/28/03 10:46	DDM	7440-36-0		
Date Digested	08/27/03			08/27/03				

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Lab Project Number: 5029590
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502705379 Project Sample Number: 5029590-004 Date Collected: 08/19/03 00:00
Client Sample ID: TSP6-35 Matrix: Air Date Received: 08/25/03 10:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/28/03 09:33	DDM	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/28/03 09:33	DDM	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/28/03 09:33	DDM	7440-36-0		
Date Digested	08/27/03			08/27/03				

Lab Sample No: 502705387 Project Sample Number: 5029590-005 Date Collected: 08/20/03 00:00
Client Sample ID: TSP6-36 Matrix: Air Date Received: 08/25/03 10:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/28/03 10:18	DDM	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/28/03 10:18	DDM	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/28/03 10:18	DDM	7440-36-0		
Date Digested	08/27/03			08/27/03				

Lab Sample No: 502705395 Project Sample Number: 5029590-006 Date Collected: 08/21/03 00:00
Client Sample ID: TSP6-37 Matrix: Air Date Received: 08/25/03 10:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/28/03 10:52	DDM	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/28/03 10:52	DDM	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/28/03 10:52	DDM	7440-36-0		
Date Digested	08/27/03			08/27/03				

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Lab Project Number: 5029590
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502705403 Project Sample Number: 5029590-007 Date Collected: 08/19/03 00:00
Client Sample ID: TSP7-40 Matrix: Air Date Received: 08/25/03 10:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/28/03 09:38	DDM	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/28/03 09:38	DDM	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/28/03 09:38	DDM	7440-36-0		
Date Digested	08/27/03			08/27/03				

Lab Sample No: 502705411 Project Sample Number: 5029590-008 Date Collected: 08/20/03 00:00
Client Sample ID: TSP7-41 Matrix: Air Date Received: 08/25/03 10:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/28/03 10:24	DDM	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/28/03 10:24	DDM	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/28/03 10:24	DDM	7440-36-0		
Date Digested	08/27/03			08/27/03				

Lab Sample No: 502705437 Project Sample Number: 5029590-009 Date Collected: 08/21/03 00:00
Client Sample ID: TSP7-42 Matrix: Air Date Received: 08/25/03 10:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/28/03 10:58	DDM	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/28/03 10:58	DDM	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/28/03 10:58	DDM	7440-36-0		
Date Digested	08/27/03			08/27/03				

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Lab Project Number: 5029590
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502705452 Project Sample Number: 5029590-010 Date Collected: 08/19/03 00:00
Client Sample ID: TSP10-40 Matrix: Air Date Received: 08/25/03 10:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/28/03 09:44	DDM	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/28/03 09:44	DDM	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/28/03 09:44	DDM	7440-36-0		
Date Digested	08/27/03			08/27/03				

Lab Sample No: 502705460 Project Sample Number: 5029590-011 Date Collected: 08/20/03 00:00
Client Sample ID: TSP10-41 Matrix: Air Date Received: 08/25/03 10:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/28/03 10:29	DDM	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/28/03 10:29	DDM	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/28/03 10:29	DDM	7440-36-0		
Date Digested	08/27/03			08/27/03				

Lab Sample No: 502705478 Project Sample Number: 5029590-012 Date Collected: 08/21/03 00:00
Client Sample ID: TSP10-42 Matrix: Air Date Received: 08/25/03 10:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	08/28/03 11:03	DDM	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/28/03 11:03	DDM	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/28/03 11:03	DDM	7440-36-0		
Date Digested	08/27/03			08/27/03				

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Lab Project Number: 5029590
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502705486 Project Sample Number: 5029590-013 Date Collected: 08/19/03 00:00
Client Sample ID: TSP11-37 Matrix: Air Date Received: 08/25/03 10:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/28/03 09:50	DDM	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/28/03 09:50	DDM	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/28/03 09:50	DDM	7440-36-0		
Date Digested	08/27/03			08/27/03				

Lab Sample No: 502705494 Project Sample Number: 5029590-014 Date Collected: 08/20/03 00:00
Client Sample ID: TSP11-38 Matrix: Air Date Received: 08/25/03 10:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/28/03 10:35	DDM	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/28/03 10:35	DDM	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/28/03 10:35	DDM	7440-36-0		
Date Digested	08/27/03			08/27/03				

Lab Sample No: 502705502 Project Sample Number: 5029590-015 Date Collected: 08/21/03 00:00
Client Sample ID: TSP11-39 Matrix: Air Date Received: 08/25/03 10:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/28/03 11:09	DDM	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/28/03 11:09	DDM	7440-38-2		
Antimony	ND	ug/m3	0.0500	08/28/03 11:09	DDM	7440-36-0		
Date Digested	08/27/03			08/27/03				

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Lab Project Number: 5029590
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502705510 Project Sample Number: 5029590-016 Date Collected: 08/19/03 00:00
Client Sample ID: PM1935-40 Matrix: Air Date Received: 08/25/03 10:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	44.7	ug/m3	1.00	08/27/03 17:00	DMT			

Lab Sample No: 502705528 Project Sample Number: 5029590-017 Date Collected: 08/20/03 00:00
Client Sample ID: PM1935-41 Matrix: Air Date Received: 08/25/03 10:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	32.7	ug/m3	1.00	08/27/03 17:00	DMT			

Lab Sample No: 502705544 Project Sample Number: 5029590-018 Date Collected: 08/21/03 00:00
Client Sample ID: PM1935-42 Matrix: Air Date Received: 08/25/03 10:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	41.1	ug/m3	1.00	08/27/03 17:00	DMT			

Lab Sample No: 502705619 Project Sample Number: 5029590-019 Date Collected: 08/19/03 00:00
Client Sample ID: PM1958-38 Matrix: Air Date Received: 08/25/03 10:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	32.4	ug/m3	1.00	08/27/03 17:00	DMT			

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Lab Project Number: 5029590
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502705627 Project Sample Number: 5029590-020 Date Collected: 08/20/03 00:00
Client Sample ID: PM1958-39 Matrix: Air Date Received: 08/25/03 10:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	23.1	ug/m3	1.00	08/27/03 17:00	DMT			

Lab Sample No: 502705635 Project Sample Number: 5029590-021 Date Collected: 08/21/03 00:00
Client Sample ID: PM1958-40 Matrix: Air Date Received: 08/25/03 10:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	28.4	ug/m3	1.00	08/27/03 17:00	DMT			

Lab Sample No: 502705643 Project Sample Number: 5029590-022 Date Collected: 08/19/03 00:00
Client Sample ID: PM2084-37 Matrix: Air Date Received: 08/25/03 10:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	26.4	ug/m3	1.00	08/27/03 17:00	DMT			

Lab Sample No: 502705650 Project Sample Number: 5029590-023 Date Collected: 08/20/03 00:00
Client Sample ID: PM2084-38 Matrix: Air Date Received: 08/25/03 10:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	21.6	ug/m3	1.00	08/27/03 17:00	DMT			

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 5029590
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502705668 Project Sample Number: 5029590-024 Date Collected: 08/21/03 00:00
Client Sample ID: PM2084-39 Matrix: Air Date Received: 08/25/03 10:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	25.8	ug/m3	1.00	08/27/03 17:00	DMT			

Lab Sample No: 502705676 Project Sample Number: 5029590-025 Date Collected: 08/19/03 00:00
Client Sample ID: PM2587-40 Matrix: Air Date Received: 08/25/03 10:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	29.4	ug/m3	1.00	08/27/03 17:00	DMT			

Lab Sample No: 502705684 Project Sample Number: 5029590-026 Date Collected: 08/20/03 00:00
Client Sample ID: PM2587-41 Matrix: Air Date Received: 08/25/03 10:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	21.7	ug/m3	1.00	08/27/03 17:00	DMT			

Lab Sample No: 502705692 Project Sample Number: 5029590-027 Date Collected: 08/21/03 00:00
Client Sample ID: PM2587-42 Matrix: Air Date Received: 08/25/03 10:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	23.8	ug/m3	1.00	08/27/03 17:00	DMT			

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Lab Project Number: 5029590
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502705700 Project Sample Number: 5029590-028 Date Collected: 08/19/03 00:00
Client Sample ID: PM2901-40 Matrix: Air Date Received: 08/25/03 10:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	5.66	ug/m3	1.00	08/27/03 17:00	DMT			

Lab Sample No: 502705718 Project Sample Number: 5029590-029 Date Collected: 08/20/03 00:00
Client Sample ID: PM2901-41 Matrix: Air Date Received: 08/25/03 10:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	4.70	ug/m3	1.00	08/27/03 17:00	DMT			

Lab Sample No: 502705726 Project Sample Number: 5029590-030 Date Collected: 08/21/03 00:00
Client Sample ID: PM2901-42 Matrix: Air Date Received: 08/25/03 10:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	5.95	ug/m3	1.00	08/27/03 17:00	DMT			

Lab Sample No: 502705759 Project Sample Number: 5029590-031 Date Collected: 08/19/03 00:00
Client Sample ID: TP-FB-27 Matrix: Air Date Received: 08/25/03 10:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/28/03 09:55	DDM	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/28/03 09:55	DDM	7440-38-2	1	
Antimony	ND	ug/m3	0.0500	08/28/03 09:55	DDM	7440-36-0		
Date Digested	08/27/03			08/27/03				
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							

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Lab Project Number: 5029590
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502705759 Project Sample Number: 5029590-031 Date Collected: 08/19/03 00:00
Client Sample ID: TP-FB-27 Matrix: Air Date Received: 08/25/03 10:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Total Particles	ND	ug/m3	1.00	08/27/03 17:00	DMT		2	

Lab Sample No: 502705775 Project Sample Number: 5029590-032 Date Collected: 08/20/03 00:00
Client Sample ID: TP-FB-28 Matrix: Air Date Received: 08/25/03 10:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/28/03 10:41	DDM	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/28/03 10:41	DDM	7440-38-2	1	
Antimony	ND	ug/m3	0.0500	08/28/03 10:41	DDM	7440-36-0		
Date Digested	08/27/03			08/27/03				
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	ND	ug/m3	1.00	08/27/03 17:00	DMT		3	

Lab Sample No: 502705783 Project Sample Number: 5029590-033 Date Collected: 08/21/03 00:00
Client Sample ID: TP-FB-29 Matrix: Air Date Received: 08/25/03 10:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	08/28/03 11:26	DDM	7439-92-1		
Arsenic	ND	ug/m3	0.0500	08/28/03 11:26	DDM	7440-38-2	1	
Antimony	ND	ug/m3	0.0500	08/28/03 11:26	DDM	7440-36-0		
Date Digested	08/27/03			08/27/03				
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	ND	ug/m3	1.00	08/27/03 17:00	DMT		4	

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Lab Project Number: 5029590
Client Project ID: RSR OU5/TX - 3D959

PARAMETER FOOTNOTES

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
[1]	No volume given. Total ug <10 for all target analytes.
[2]	Initial wt. 4.1516g. Final wt. 4.1523g. Weight diff. +0.0007g.
[3]	Initial wt. 4.1788g. Final wt. 4.1795g. Weight diff +0.0007g.
[4]	Initial wt. 4.1733g. Final wt. 4.1743g. Weight diff +0.0010g.

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QUALITY CONTROL DATA

Lab Project Number: 5029590
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 57191 — Analysis Method: 40CFR APG
QC Batch Method: — Analysis Description: Lead in Air by 40CFR
Associated Lab Samples: 502705296 502705346 502705361 502705379 502705387 502705395 502705403 502705411 502705437 502705452 502705460 502705478 502705486 502705494 502705502 502705759 502705775 502705783

METHOD BLANK: 502714397
Associated Lab Samples: 502705296 502705346 502705361 502705379 502705387 502705395 502705403 502705411 502705437 502705452 502705460 502705478 502705486 502705494 502705502 502705759 502705775 502705783

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Arsenic	ug/m3	ND	0.0500	
Lead	ug/m3	ND	0.0500	
Antimony	ug/m3	ND	0.0500	

LABORATORY CONTROL SAMPLE: 502714405

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Lead	mg/l	0.5000	0.4820	96	1

SAMPLE DUPLICATE: 502714413

Parameter	Units	502705296 Result	DUP Result	RPD	Footnotes
Lead	ug/m3	ND	ND	NC	
Arsenic	ug/m3	ND	ND	NC	
Antimony	ug/m3	ND	ND	NC	

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QUALITY CONTROL DATA

Lab Project Number: 5029590
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 57190 Analysis Method: 40CFR APJ
QC Batch Method: 40CFR APJ Analysis Description: PM10 in Air by 40CFR APJ
Associated Lab Samples: 502705510 502705528 502705544 502705619 502705627
502705635 502705643 502705650 502705668 502705676
502705684 502705692 502705700 502705718 502705726
502705759 502705775 502705783

SAMPLE DUPLICATE: 502714389

Parameter	Units	502705510 Result	DUP Result	RPD	Footnotes
Total Particles	ug/m3	44.70	44.70	0	

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Lab Project Number: 5029590
Client Project ID: RSR OU5/TX - 3D959

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
[1]	As: 101% recovery. Sb: 104% recovery.

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ENTACT
environmental tactics in waste management

CHAIN OF CUSTODY RECORD - AIR

4040 W. Royal Lane #136 • Irving, Texas 75063
972.580.1323 • Fax 972.550.7464

PROJECT NAME/LOCATION [illegible]
PROJECT NUMBER 3D959
PROJECT MANAGER P. McDONALD
LABORATORY PACE
5029590

SAMPLED BY

KIRK GATES (PRINT NAME) — Kirk Gates (SIGNATURE)

ANALYSES

TURN AROUND TIME

PRIORITY RUSH 24 HR ☐
PRIORITY 3 DAY ☒
STANDARD ☐

2003 DATE	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	Pb	As	Sb	PM10			COMMENTS
8/19		TSP 5 - 32	TSP 5	AIR	1.453	2128	X	X	X				5027052946
8/20		TSP 5 - 33	↓		1.445	2037							5346
8/21		TSP 5 - 34	↓		1.438	2035							5361
8/19		TSP 6 - 35	TSP 6		1.291	1852							5379
8/20		TSP 6 - 36	↓		1.396	1955							5387
8/21		TSP 6 - 37	↓		1.373	1984							5395
8/19		TSP 7 - 40	TSP 7		1.398	2040							5403
8/20		TSP 7 - 41	↓		1.411	2032							5411
8/21		TSP 7 - 42	↓		1.391	1989							5437
8/19		TSP 10 - 40	TSP 10		1.421	2075							5452
8/20		TSP 10 - 41	↓		1.550	2170							5460
8/21		TSP 10 - 42	↓		1.473	2106							5478
8/19		TSP 11 - 37	TSP 11		1.377	2017							5486
8/20		TSP 11 - 38	↓		1.521	2190							5494
8/21		TSP 11 - 39	↓		1.302	1862							5502
8/19		PM 1935 - 40	PM10 1935		1.190	1715				X			5510
8/20		PM 1935 - 41	↓		1.190	1644				↓			5528
8/21		PM 1935 - 42	↓		1.191	1653				↓			5544

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	8/22/03	11:40					

METHOD OF SHIPMENT

REMARKS: 8/25/03 10:30

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CHAIN OF CUSTODY RECORD - AIR

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972.580.1323 • Fax 972.550.7464

PROJECT NAME/LOCATION [illegible]
PROJECT NUMBER 3D95[illegible]
PROJECT MANAGER P.M[illegible]
LABORATORY PACE
5029590

SAMPLED BY

KIRK GATES (PRINT NAME)
Kirk Gates SIGNATURE

ANALYSES

TURN AROUND TIME

PRIORITY RUSH 24 HR ☐
PRIORITY 3 DAY ☒
STANDARD ☐

DATE	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	Pb	As	Sb	PM_{10}	COMMENTS
8/19		PM1958 - 38	PM_{10} 1958	AIR	1.202	1720				X	5027705619
8/20		PM1958 - 39	↓		1.201	1648				↓	5627
8/21		PM1958 - 40	↓		1.202	1686				↓	5635
8/19		PM2084 - 37	PM_{10} 2084		1.192	1683				↓	5643
8/20		PM2084 - 38	↓		1.193	1637				↓	5650
8/21		PM2084 - 39	↓		1.193	1685				↓	5668
8/19		PM2587 - 40	PM_{10} 2587		1.181	1696				↓	5676
8/20		PM2587 - 41	↓		1.181	1620				↓	5684
8/21		PM2587 - 42	↓		1.193	1653				↓	5692
8/19		PM2901 - 40	PM_{10} 2901		1.181	1696				↓	5700
8/20		PM2901 - 41	↓		1.182	1616				↓	5718
8/21		PM2901 - 42	↓		1.187	1664				↓	5726
8/19		TP - FB - 27	—		—	—	X	X	X	X	5759
8/20		TP - FB - 28	—		—	—	↓	↓	↓	↓	5775
8/21		TP - FB - 29	—		—	—	↓	↓	↓	↓	5783

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	8-22-03	11:40	[signature] 8/25/03 10:30				

METHOD OF SHIPMENT

REMARKS:

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September 05, 2003

Ms. Jenny Elste
Entact
4040 W. Royal Ln.
Suite 136
Irving, TX 75038

RE: Lab Project Number: 5029774
Client Project ID: RSR OU5/TX - 3D959

Dear Ms. Elste:

Enclosed are the analytical results for sample(s) received by the laboratory on September 2, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Jill Riddle

Jill Riddle
jill.riddle@pacelabs.com
Project Manager

Enclosures

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September 8, 2003

Case Narrative- Project Review
Project 5029774 (Entact)

Sample Receiving

No discrepancies were noted concerning sample receipt or sample transfer.

Metals in air- 40CFR APG.

For samples 502727290, 502727308, 502727316 and 502727324 there were no volumes documented. The total ug/filter result was less than 10 for each of these samples (footnotes #1 and 4, page 7).

Additional LCS results are listed in footnote #1, page 10.

All quality control indicators for this project (method blank, duplicate and LCS results) are within laboratory acceptance limits.

PM10 in air- 40CFR APJ.

All quality control indicators for this project (duplicate results) are within laboratory acceptance limits.

I have reviewed the data from this project and have found all other discrepancies to be sufficiently covered in the footnotes in the sample results section and the quality control section of the final report.

Tim Harrison
Quality Manager
Pace Analytical Services

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Lab Project Number: 5029774
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502727134 Project Sample Number: 5029774-001 Date Collected: 08/22/03 00:00
Client Sample ID: PM1935-43 Matrix: Air Date Received: 09/02/03 12:03

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	20.5	ug/m3	1.00	09/04/03 09:30	DMT			

Lab Sample No: 502727142 Project Sample Number: 5029774-002 Date Collected: 08/22/03 00:00
Client Sample ID: PM1958-41 Matrix: Air Date Received: 09/02/03 12:03

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	13.4	ug/m3	1.00	09/04/03 09:30	DMT			

Lab Sample No: 502727159 Project Sample Number: 5029774-003 Date Collected: 08/25/03 00:00
Client Sample ID: PM1958-42 Matrix: Air Date Received: 09/02/03 12:03

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	42.0	ug/m3	1.00	09/04/03 09:30	DMT			

Lab Sample No: 502727167 Project Sample Number: 5029774-004 Date Collected: 08/26/03 00:00
Client Sample ID: PM1958-43 Matrix: Air Date Received: 09/02/03 12:03

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	39.0	ug/m3	1.00	09/04/03 09:30	DMT			

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Lab Project Number: 5029774
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502727175 Project Sample Number: 5029774-005 Date Collected: 08/28/03 00:00
Client Sample ID: PM1958-44 Matrix: Air Date Received: 09/02/03 12:03

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	24.1	ug/m3	1.00	09/04/03 09:30	DMT			

Lab Sample No: 502727183 Project Sample Number: 5029774-006 Date Collected: 08/22/03 00:00
Client Sample ID: PM2084-40 Matrix: Air Date Received: 09/02/03 12:03

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	10.9	ug/m3	1.00	09/04/03 09:30	DMT			

Lab Sample No: 502727191 Project Sample Number: 5029774-007 Date Collected: 08/22/03 00:00
Client Sample ID: PM2587-43 Matrix: Air Date Received: 09/02/03 12:03

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	7.88	ug/m3	1.00	09/04/03 09:30	DMT			

Lab Sample No: 502727209 Project Sample Number: 5029774-008 Date Collected: 08/25/03 00:00
Client Sample ID: PM2587-44 Matrix: Air Date Received: 09/02/03 12:03

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	38.5	ug/m3	1.00	09/04/03 09:30	DMT			

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Lab Project Number: 5029774
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502727217 Project Sample Number: 5029774-009 Date Collected: 08/26/03 00:00
Client Sample ID: PM2587-45 Matrix: Air Date Received: 09/02/03 12:03

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	30.7	ug/m3	1.00	09/04/03 09:30	DMT			

Lab Sample No: 502727225 Project Sample Number: 5029774-010 Date Collected: 08/28/03 00:00
Client Sample ID: PM2587-46 Matrix: Air Date Received: 09/02/03 12:03

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	19.1	ug/m3	1.00	09/04/03 09:30	DMT			

Lab Sample No: 502727233 Project Sample Number: 5029774-011 Date Collected: 08/22/03 00:00
Client Sample ID: PM2901-43 Matrix: Air Date Received: 09/02/03 12:03

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	5.98	ug/m3	1.00	09/04/03 09:30	DMT			

Lab Sample No: 502727241 Project Sample Number: 5029774-012 Date Collected: 08/22/03 00:00
Client Sample ID: TSP5-35 Matrix: Air Date Received: 09/02/03 12:03

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	09/04/03 20:53	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	09/04/03 20:53	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	09/04/03 20:53	FRW	7440-36-0		
Date Digested	09/04/03			09/04/03				

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Lab Project Number: 5029774
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502727258 Project Sample Number: 5029774-013 Date Collected: 08/22/03 00:00
Client Sample ID: TSP6-38 Matrix: Air Date Received: 09/02/03 12:03

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	09/04/03 21:17	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	09/04/03 21:17	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	09/04/03 21:17	FRW	7440-36-0		
Date Digested	09/04/03			09/04/03				

Lab Sample No: 502727266 Project Sample Number: 5029774-014 Date Collected: 08/22/03 00:00
Client Sample ID: TSP7-43 Matrix: Air Date Received: 09/02/03 12:03

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	09/04/03 21:23	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	09/04/03 21:23	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	09/04/03 21:23	FRW	7440-36-0		
Date Digested	09/04/03			09/04/03				

Lab Sample No: 502727274 Project Sample Number: 5029774-015 Date Collected: 08/22/03 00:00
Client Sample ID: TSP10-43 Matrix: Air Date Received: 09/02/03 12:03

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	09/04/03 21:28	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	09/04/03 21:28	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	09/04/03 21:28	FRW	7440-36-0		
Date Digested	09/04/03			09/04/03				

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Lab Project Number: 5029774
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502727282 Project Sample Number: 5029774-016 Date Collected: 08/22/03 00:00
Client Sample ID: TSP11-40 Matrix: Air Date Received: 09/02/03 12:03

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	09/04/03 21:34	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	09/04/03 21:34	FRW	7440-38-2		
Antimony	ND	ug/m3	0.0500	09/04/03 21:34	FRW	7440-36-0		
Date Digested	09/04/03			09/04/03				

Lab Sample No: 502727290 Project Sample Number: 5029774-017 Date Collected: 08/22/03 00:00
Client Sample ID: TP-FB-30 Matrix: Air Date Received: 09/02/03 12:03

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	09/04/03 21:40	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	09/04/03 21:40	FRW	7440-38-2	1	
Antimony	ND	ug/m3	0.0500	09/04/03 21:40	FRW	7440-36-0		
Date Digested	09/04/03			09/04/03				
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	ND	ug/m3	1.00	09/04/03 09:30	DMT		2	

Lab Sample No: 502727308 Project Sample Number: 5029774-018 Date Collected: 08/25/03 00:00
Client Sample ID: TP-FB-31 Matrix: Air Date Received: 09/02/03 12:03

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method:	/ 40CFR APG						
Lead	ND	ug/m3	0.0500	09/04/03 21:45	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	09/04/03 21:45	FRW	7440-38-2	1	
Antimony	ND	ug/m3	0.0500	09/04/03 21:45	FRW	7440-36-0		
Date Digested	09/04/03			09/04/03				
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							

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Lab Project Number: 5029774
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502727308 Project Sample Number: 5029774-018 Date Collected: 08/25/03 00:00
Client Sample ID: TP-FB-31 Matrix: Air Date Received: 09/02/03 12:03

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Total Particles	ND	ug/m3	1.00	09/04/03 09:30	DMT		3	

Lab Sample No: 502727316 Project Sample Number: 5029774-019 Date Collected: 08/26/03 00:00
Client Sample ID: TP-FB-32 Matrix: Air Date Received: 09/02/03 12:03

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	09/04/03 21:51	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	09/04/03 21:51	FRW	7440-38-2	4	
Antimony	ND	ug/m3	0.0500	09/04/03 21:51	FRW	7440-36-0		
Date Digested	09/04/03			09/04/03				
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	ND	ug/m3	1.00	09/04/03 09:30	DMT		5	

Lab Sample No: 502727324 Project Sample Number: 5029774-020 Date Collected: 08/28/03 00:00
Client Sample ID: TP-FB-33 Matrix: Air Date Received: 09/02/03 12:03

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Lead in Air by 40CFR	Prep/Method: / 40CFR APG							
Lead	ND	ug/m3	0.0500	09/04/03 21:57	FRW	7439-92-1		
Arsenic	ND	ug/m3	0.0500	09/04/03 21:57	FRW	7440-38-2	1	
Antimony	ND	ug/m3	0.0500	09/04/03 21:57	FRW	7440-36-0		
Date Digested	09/04/03			09/04/03				
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	ND	ug/m3	1.00	09/04/03 09:30	DMT		6	

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Lab Project Number: 5029774
Client Project ID: RSR 0U5/TX - 3D959

PARAMETER FOOTNOTES

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
[1]	No volume given. Total ug <10 for all target analytes.
[2]	Initial wt. 4.1202g. Final wt. 4.1202g. Weight diff. 0.0000g.
[3]	Initial wt. 4.1555g. Final wt. 4.1561g. Weight diff. +0.0006g.
[4]	No volume give. Total ug <10 for all target analytes.
[5]	Initial wt. 4.1626g. Final wt. 4.1627g. Weight diff. +0.0001g.
[6]	Initial wt. 4.1324g. Final wt. 4.1320g. Weight diff. -0.0004g.

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QUALITY CONTROL DATA

Lab Project Number: 5029774
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 57512 Analysis Method: 40CFR APG
QC Batch Method: Analysis Description: Lead in Air by 40CFR
Associated Lab Samples: 502727241 502727258 502727266 502727274 502727282 502727290 502727308 502727316 502727324

METHOD BLANK: 502730641
Associated Lab Samples: 502727241 502727258 502727266 502727274 502727282 502727290 502727308 502727316 502727324

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Arsenic	ug/m3	ND	0.0500	
Lead	ug/m3	ND	0.0500	
Antimony	ug/m3	ND	0.0500	

LABORATORY CONTROL SAMPLE: 502730658

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Lead	mg/l	0.5000	0.4620	92	1

SAMPLE DUPLICATE: 502730666

Parameter	Units	502727241 Result	DUP Result	RPD	Footnotes
Lead	ug/m3	ND	ND	NC	
Arsenic	ug/m3	ND	ND	NC	
Antimony	ug/m3	ND	ND	NC	

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QUALITY CONTROL DATA

Lab Project Number: 5029774
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 57498 Analysis Method: 40CFR APJ
QC Batch Method: 40CFR APJ Analysis Description: PM10 in Air by 40CFR APJ
Associated Lab Samples: 502727134 502727142 502727159 502727167 502727175
502727183 502727191 502727209 502727217 502727225
502727233 502727290 502727308 502727316 502727324

SAMPLE DUPLICATE: 502730278

Parameter	Units	502727134 Result	DUP Result	RPD	Footnotes
Total Particles	ug/m3	20.50	20.40	0	

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Lab Project Number: 5029774
Client Project ID: RSR OU5/TX - 3D959

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
[1]	As: 97% recovery. Sb: 99% recovery.

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environmental tactics in waste management

CHAIN OF CUSTODY RECORD - AIR

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972.580.1323 • Fax 972.550.7464

PROJECT NAME/LOCATION
PROJECT NUMBER 3D959
PROJECT MANAGER P. McDONALD
LABORATORY PACE
5029774

SAMPLED BY

Kirk Gates (PRINT NAME)

Kirk Gates SIGNATURE

ANALYSES

TURN AROUND TIME

PRIORITY RUSH 24 HR ☐
PRIORITY 3 DAY ☒
STANDARD ☐

DATE	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	Pb	As	Sb	PM_{10}		COMMENTS
8/22		PM 1935-43	PM_{10} 1935	AIR	1.191	1667				X		502727134
8/22		PM 1958-41	PM_{10} 1958		1.202	1706						7142
8/25		PM 1958-42			1.205	1673						7159
8/26		PM 1958-43			1.209	1701						7167
8/28		PM 1958-44			1.200	1678						7175
8/22		PM 2084-40	PM_{10} 2084		1.192	1628						7183
8/22		PM 2587-43	PM_{10} 2587		1.183	1662						7191
8/25		PM 2587-44			1.183	1660						7209
8/26		PM 2587-45			1.174	1653						7217
8/28		PM 2587-46			1.178	1647						7225
8/22		PM 2901-43	PM_{10} 2901		1.193	1688						7233
8/22		TSP5-35	TSP 5		1.454	2086	X	X	X			7241
8/22		TSP6-38	TSP 6		1.392	1948						7258
8/22		TSP7-43	TSP 7		1.405	2024						72606
8/22		TSP10-43	TSP 10		1.570	2285						7274
8/22		TSP11-40	TSP 11		1.406	2039						7282
8/22		TP-FB-30	—		—	—	X	X	X	X		7290
8/25		TP-FB-31	—		—	—						7308
8/26		TP-FB-32	—		—	—						7316
8/28		TP-FB 33	—		—	—						7324

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	8/29/03	10:35		8/30/03			

METHOD OF SHIPMENT

REMARKS:

Fedex: 864417365151

NL

PT 1 - ORIGINAL - WHITE PT 2 - LAB - [illegible]W PT 3 - CUSTOMER COPY - PINK

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September 12, 2003

Ms. Jenny Elste
Entact
4040 W. Royal Ln.
Suite 136
Irving, TX 75038

RE: Lab Project Number: 5029977
Client Project ID: RSR OU5/TX - 3D959

Dear Ms. Elste:

Enclosed are the analytical results for sample(s) received by the laboratory on September 10, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Jill Riddle

Jill Riddle
jill.riddle@pacelabs.com
Project Manager

Enclosures

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Lab Project Number: 5029977
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502751241 Project Sample Number: 5029977-001 Date Collected: 09/03/03 00:00
Client Sample ID: PM1958-45 Matrix: Air Date Received: 09/10/03 10:54

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	15.8	ug/m3	1.00	09/12/03 08:00	LAD			

Lab Sample No: 502751258 Project Sample Number: 5029977-002 Date Collected: 09/04/03 00:00
Client Sample ID: PM1958-46 Matrix: Air Date Received: 09/10/03 10:54

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	23.7	ug/m3	1.00	09/12/03 08:00	LAD			

Lab Sample No: 502751266 Project Sample Number: 5029977-003 Date Collected: 09/05/03 00:00
Client Sample ID: PM1958-47 Matrix: Air Date Received: 09/10/03 10:54

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	12.7	ug/m3	1.00	09/12/03 08:00	LAD			

Lab Sample No: 502751274 Project Sample Number: 5029977-004 Date Collected: 09/08/03 00:00
Client Sample ID: PM1958-48 Matrix: Air Date Received: 09/10/03 10:54

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	35.8	ug/m3	1.00	09/12/03 08:00	LAD			

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Lab Project Number: 5029977
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502751282 Project Sample Number: 5029977-005 Date Collected: 09/03/03 00:00
Client Sample ID: PM2587-47 Matrix: Air Date Received: 09/10/03 10:54

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	14.6	ug/m3	1.00	09/12/03 08:00	LAD			

Lab Sample No: 502751290 Project Sample Number: 5029977-006 Date Collected: 09/04/03 00:00
Client Sample ID: PM2587-48 Matrix: Air Date Received: 09/10/03 10:54

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	21.7	ug/m3	1.00	09/12/03 08:00	LAD			

Lab Sample No: 502751308 Project Sample Number: 5029977-007 Date Collected: 09/05/03 00:00
Client Sample ID: PM2587-49 Matrix: Air Date Received: 09/10/03 10:54

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	9.90	ug/m3	1.00	09/12/03 08:00	LAD			

Lab Sample No: 502751407 Project Sample Number: 5029977-008 Date Collected: 09/08/03 00:00
Client Sample ID: PM2587-50 Matrix: Air Date Received: 09/10/03 10:54

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	48.6	ug/m3	1.00	09/12/03 08:00	LAD			

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Lab Project Number: 5029977
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502751415 Project Sample Number: 5029977-009 Date Collected: 09/03/03 00:00
Client Sample ID: TP-FB-34 Matrix: Air Date Received: 09/10/03 10:54

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	ND	ug/m3	1.00	09/12/03 08:00	LAD			

Lab Sample No: 502751423 Project Sample Number: 5029977-010 Date Collected: 09/04/03 00:00
Client Sample ID: TP-FB-35 Matrix: Air Date Received: 09/10/03 10:54

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	ND	ug/m3	1.00	09/12/03 08:00	LAD			

Lab Sample No: 502751431 Project Sample Number: 5029977-011 Date Collected: 09/05/03 00:00
Client Sample ID: TP-FB-36 Matrix: Air Date Received: 09/10/03 10:54

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	ND	ug/m3	1.00	09/12/03 08:00	LAD			

Lab Sample No: 502751449 Project Sample Number: 5029977-012 Date Collected: 09/08/03 00:00
Client Sample ID: TP-FB-37 Matrix: Air Date Received: 09/10/03 10:54

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	ND	ug/m3	1.00	09/12/03 08:00	LAD			

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Lab Project Number: 5029977
Client Project ID: RSR OU5/TX - 3D959

PARAMETER FOOTNOTES

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit

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QUALITY CONTROL DATA

Lab Project Number: 5029977
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 57965 Analysis Method: 40CFR APJ
QC Batch Method: 40CFR APJ Analysis Description: PM10 in Air by 40CFR APJ
Associated Lab Samples: 502751241 502751258 502751266 502751274 502751282
502751290 502751308 502751407 502751415 502751423
502751431 502751449

SAMPLE DUPLICATE: 502758931

Parameter	Units	502751241 Result	DUP Result	RPD	Footnotes
Total Particles	ug/m3	15.80	16.10	2	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
Phone: 317.875.5894
Fax: 317.872.6189

Lab Project Number: 5029977
Client Project ID: RSR OU5/TX - 3D959

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference

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environmental tactics in waste management

CHAIN OF CUSTODY RECORD - AIR

4040 W. Royal Lane #136 • Irving, Texas 75063
972.580.1323 • Fax 972.550.7464

PROJECT NAME/LOCATION [illegible]
PROJECT NUMBER 3D959
PROJECT MANAGER P. McDonald
LABORATORY PACE

5029977

SAMPLED BY

Kirk Gates (PRINT NAME)
Kirk Gates SIGNATURE

ANALYSES

TURN AROUND TIME

PRIORITY RUSH 24 HR ☐
PRIORITY 3 DAY ☒
STANDARD ☐

DATE	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	PM10	COMMENTS
9/3		PM1958-45	PM10 1958	AIR	1.189	1683	X	5027551241
9/4		PM 1958-46			1.194	1715		1258
9/5		PM 1958-47			1.192	1683		1266
9/8		PM 1958-48			1.193	1674		1274
9/3		PM 2587-47	PM10 2587		1.169	1643		1282
9/4		PM 2587-48			1.171	1694		1290
9/5		PM 2587-49			1.170	1657		1308
9/8		PM 2587-50			1.170	1641		1407
9/3		TP-FB-34	—		—	—		1415
9/4		TP-FB-35	—		—	—		1423
9/5		TP-FB-36	—		—	—		1431
9/8		TP-FB-37	—		—	—		1449
								12 OK KS

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	9/9/03	11:05	[signature] 9/10/03 10:54				

METHOD OF SHIPMENT

REMARKS:

FEDEX DOC # 8415 7553 9155

PT 1 - ORIGINAL - WHITE PT 2 - LAB - [illegible]W PT 3 - CUSTOMER COPY - PINK

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Phone: 317.875.5894
Fax: 317.872.6189

September 18, 2003

Ms. Jenny Elste
Entact
4040 W. Royal Ln.
Suite 136
Irving, TX 75038

RE: Lab Project Number: 5030127
Client Project ID: RSR OU5/TX - 3D959

Dear Ms. Elste:

Enclosed are the analytical results for sample(s) received by the laboratory on September 15, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Jill Riddle

Jill Riddle
jill.riddle@pacelabs.com
Project Manager

Enclosures

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Fax: 317.872.6189

Lab Project Number: 5030127
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502770928 Project Sample Number: 5030127-001 Date Collected: 09/09/03 00:00
Client Sample ID: PM1958-49 Matrix: Air Date Received: 09/15/03 11:02

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	40.0	ug/m3	1.00	09/17/03 17:00	DMT			

Lab Sample No: 502770936 Project Sample Number: 5030127-002 Date Collected: 09/10/03 00:00
Client Sample ID: PM1958-50 Matrix: Air Date Received: 09/15/03 11:02

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	25.6	ug/m3	1.00	09/17/03 17:00	DMT			

Lab Sample No: 502770944 Project Sample Number: 5030127-003 Date Collected: 09/09/03 00:00
Client Sample ID: PM2587-51 Matrix: Air Date Received: 09/15/03 11:02

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	41.3	ug/m3	1.00	09/17/03 17:00	DMT			

Lab Sample No: 502770951 Project Sample Number: 5030127-004 Date Collected: 09/10/03 00:00
Client Sample ID: PM2587-52 Matrix: Air Date Received: 09/15/03 11:02

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	27.1	ug/m3	1.00	09/17/03 17:00	DMT			

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Phone: 317.875.5894
Fax: 317.872.6189

Lab Project Number: 5030127
Client Project ID: RSR OU5/TX - 3D959

Lab Sample No: 502770969 Project Sample Number: 5030127-005 Date Collected: 09/09/03 00:00
Client Sample ID: TP-FB-38 Matrix: Air Date Received: 09/15/03 11:02

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	ND	ug/m3	1.00	09/17/03 17:00	DMT		1	

Lab Sample No: 502770977 Project Sample Number: 5030127-006 Date Collected: 09/10/03 00:00
Client Sample ID: TP-FB-39 Matrix: Air Date Received: 09/15/03 11:02

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry								
PM10 in Air by 40CFR APJ	Method: 40CFR APJ							
Total Particles	ND	ug/m3	1.00	09/17/03 17:00	DMT		2	

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Phone: 317.875.5894
Fax: 317.872.6189

Lab Project Number: 5030127
Client Project ID: RSR OU5/TX - 3D959

PARAMETER FOOTNOTES

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
[1]	Initial wt. 4.3203g. Final wt. 4.3193g. Weight diff. -0.0010g.
[2]	Initial wt. 4.3120g. Final wt. 4.3110g. Weight diff. -0.0010g.

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QUALITY CONTROL DATA

Lab Project Number: 5030127
Client Project ID: RSR OU5/TX - 3D959

QC Batch: 58212 Analysis Method: 40CFR APJ
QC Batch Method: 40CFR APJ Analysis Description: PM10 in Air by 40CFR APJ
Associated Lab Samples: 502770928 502770936 502770944 502770951 502770969 502770977

SAMPLE DUPLICATE: 502774631

Parameter	Units	502770928 Result	DUP Result	RPD	Footnotes
Total Particles	ug/m3	40.00	39.90	0	

REPORT OF LABORATORY ANALYSIS

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Phone: 317.875.5894
Fax: 317.872.6189

Lab Project Number: 5030127
Client Project ID: RSR OU5/TX - 3D959

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference

REPORT OF LABORATORY ANALYSIS

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972.580.1323 • Fax 972.550.7464

PROJECT NUMBER 3D959
PROJECT MANAGER P.McDonald
LABORATORY PACE

5030127

SAMPLED BY | **ANALYSES** | **TURN AROUND TIME**

KIRK GATES (PRINT NAME)

Kirk Gates SIGNATURE

PRIORITY RUSH 24 HR ☐
PRIORITY 3 DAY ☒
STANDARD ☐

2003 DATE	TIME	SAMPLE ID	INSTRUMENT ID	SAMPLE TYPE	FLOW RATE	VOLUME	PM10	COMMENTS
9/9		PM1958-49	PM10 1958	AIR	1.192	1714	X	502770928
9/10		PM1958-50	↓		1.192	1689	↓	09316
9/9		PM2587-51	PM10 2587		1.170	1647		0944
9/10		PM2587-52	↓		1.171	1665		0951
9/9		TP-FB-38	—		—	—		0969
9/10		TP-FB-39	—	↓	—	—	↓	0977

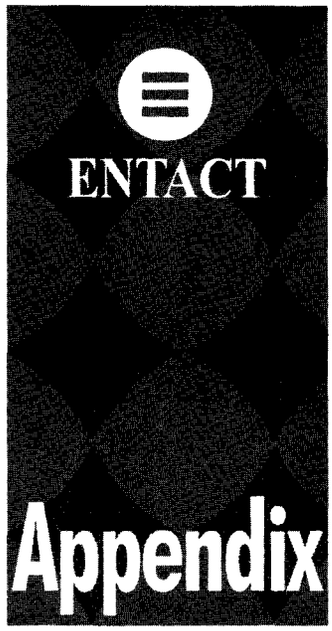
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Kirk Gates	9/12/03	8:30	9/15/03 11:20				

METHOD OF SHIPMENT

REMARKS:
6 on ice

FEDEX TRK# 8414 1736 5178

PT 1 - ORIGINAL - WHITE PT 2 - LAB - YELLOW PT 3 - CUSTOMER COPY - PINK


ENTACT
Appendix
C

Appendix C

Cover, Backfill and Topsoil Material Laboratory Analytical Reports

SEVERN TRENT STL

ANALYTICAL REPORT

JOB NUMBER: 217647

Prepared For:

Entact, Inc.
4040 W. Royal Lane
Suite 136
Irving, TX 75063

Attention: Jenny Elste

Date: 03/18/2003

Emily A. Bauer
Signature

3/18/03
Date

Name: Emily A. Bauer

Title: Project Manager

E-Mail: ebauer@stl-inc.com

Severn Trent Laboratories
1733 N. Padre Island Drive
Corpus Christi, TX 78408

PHONE: 361/289-2673
FAX..: 361/289-2471

SEVERN TRENT STL

CASE NARRATIVE

Job Number 217647

March 18, 2003

Volatile Organics Analysis

Sample 217647-2 was analyzed for volatile organics using EPA Method 8260B. The percent recovery result and the resultant RPD for toluene in the matrix spike pair associated with this sample were outside the acceptance criteria. The associated LCS was within acceptable limits and it appears the out of control data are due to the sample matrix.

Please call if you have any questions regarding this report or if we can be of further assistance.

Anh Tran
QA Assistant

SEVERN TRENT STL

SAMPLE INFORMATION
Date: 03/18/2003

Job Number.: 217647
Customer...: Entact, Inc.
Attn.....: Jenny Elste

Project Number.....: 98000203
Customer Project ID....: RSR-005-0959
Project Description....: Project-EAB

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
217647-1	BF-001 BACKFILL/CLAY SOURCE	Soil	03/10/2003	11:40	03/11/2003	09:20
217647-2	BF-001 BACKFILL/CLAY SOURCE	Soil	03/10/2003	11:45	03/11/2003	09:20
217647-3	BF-002 BACKFILL/CLAY SOURCE	Soil	03/10/2003	11:50	03/11/2003	09:20
217647-4	BF-002 BACKFILL/CLAY SOURCE	Soil	03/10/2003	11:55	03/11/2003	09:20

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 217647 Date: 03/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-005-0959 ATTN: Jenny Elste

Customer Sample ID: BF-001 BACKFILL/CLAY SOURCE
Date Sampled.....: 03/10/2003
Time Sampled.....: 11:40
Sample Matrix.....: Soil

Laboratory Sample ID: 217647-1
Date Received.....: 03/11/2003
Time Received.....: 09:20

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 7471A	Mercury (Hg), Solid	<0.5	0.5	mg/Kg	03/12/03	edr
SW-846 6010B	Antimony (Sb), Solid	<5	5	mg/Kg	03/11/03	jem
SW-846 6010B	Arsenic (As), Solid	<5	5	mg/Kg	03/11/03	jem
SW-846 6010B	Barium (Ba), Solid	36	5	mg/Kg	03/11/03	jem
SW-846 6010B	Cadmium (Cd), Solid	<5	5	mg/Kg	03/11/03	jem
SW-846 6010B	Chromium (Cr), Solid	32	5	mg/Kg	03/11/03	jem
SW-846 6010B	Lead (Pb), Solid	9	5	mg/Kg	03/11/03	jem
SW-846 6010B	Selenium (Se), Solid	<5	5	mg/Kg	03/11/03	jem
SW-846 6010B	Silver (Ag), Solid	<5	5	mg/Kg	03/11/03	jem
SW-846 3050B	Acid Digestion, Solids and Sludges	Complete			03/11/03	dml
SW-846 3550B	Extraction (Ultrasonic) SVOCs					
	Ultrasonic Extraction	Complete			03/11/03	sew
SW-846 8270C	Semivolatile Organics					
	Acenaphthene, Solid	ND	330	ug/Kg	03/12/03	bec
	Acenaphthylene, Solid	ND	330	ug/Kg	03/12/03	bec
	Aniline, Solid	ND	660	ug/Kg	03/12/03	bec
	Anthracene, Solid	ND	330	ug/Kg	03/12/03	bec
	Benzo(a)anthracene (1,2-Benzanthracene), Solid	ND	330	ug/Kg	03/12/03	bec
	Benzo(b)fluoranthene, Solid	ND	330	ug/Kg	03/12/03	bec
	Benzo(k)fluoranthene, Solid	ND	330	ug/Kg	03/12/03	bec
	Benzo(ghi)perylene, Solid	ND	330	ug/Kg	03/12/03	bec
	Benzo(a)pyrene, Solid	ND	330	ug/Kg	03/12/03	bec
	Benzyl alcohol, Solid	ND	660	ug/Kg	03/12/03	bec
	Bis(2-chloroethoxy)methane, Solid	ND	330	ug/Kg	03/12/03	bec
	Bis(2-chloroethyl)ether, Solid	ND	330	ug/Kg	03/12/03	bec
	Bis(2-chloroisopropyl)ether, Solid	ND	330	ug/Kg	03/12/03	bec
	Bis(2-ethylhexyl)phthalate, Solid	ND	330	ug/Kg	03/12/03	bec
	4-Bromophenyl phenyl ether, Solid	ND	330	ug/Kg	03/12/03	bec
	Butyl benzyl phthalate, Solid	ND	330	ug/Kg	03/12/03	bec
	4-Chloroaniline, Solid	ND	660	ug/Kg	03/12/03	bec
	4-Chloro-3-methylphenol, Solid	ND	660	ug/Kg	03/12/03	bec
	2-Chloronaphthalene, Solid	ND	330	ug/Kg	03/12/03	bec
	2-Chlorophenol, Solid	ND	330	ug/Kg	03/12/03	bec
	4-Chlorophenyl phenyl ether, Solid	ND	330	ug/Kg	03/12/03	bec
	Chrysene, Solid	ND	330	ug/Kg	03/12/03	bec
	Dibenzo(ah)anthracene, Solid	ND	330	ug/Kg	03/12/03	bec
	Dibenzofuran, Solid	ND	330	ug/Kg	03/12/03	bec

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 217647 Date: 03/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-005-0959 ATTN: Jenny Elste

Customer Sample ID: BF-001 BACKFILL/CLAY SOURCE
Date Sampled.....: 03/10/2003
Time Sampled.....: 11:40
Sample Matrix.....: Soil

Laboratory Sample ID: 217647-1
Date Received.....: 03/11/2003
Time Received.....: 09:20

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
	1,2-Dichlorobenzene, Solid	ND	330	ug/Kg	03/12/03	bec
	1,3-Dichlorobenzene, Solid	ND	330	ug/Kg	03/12/03	bec
	1,4-Dichlorobenzene, Solid	ND	330	ug/Kg	03/12/03	bec
	3,3-Dichlorobenzidine, Solid	ND	660	ug/Kg	03/12/03	bec
	Diethyl phthalate, Solid	ND	330	ug/Kg	03/12/03	bec
	Dimethyl phthalate, Solid	ND	330	ug/Kg	03/12/03	bec
	2,4-Dimethylphenol, Solid	ND	330	ug/Kg	03/12/03	bec
	Di-n-butyl phthalate, Solid	ND	330	ug/Kg	03/12/03	bec
	Di-n-octyl phthalate, Solid	ND	330	ug/Kg	03/12/03	bec
	2,4-Dichlorophenol, Solid	ND	330	ug/Kg	03/12/03	bec
	4,6-Dinitro-2-methylphenol, Solid	ND	1665	ug/Kg	03/12/03	bec
	2,4-Dinitrophenol, Solid	ND	1665	ug/Kg	03/12/03	bec
	2,4-Dinitrotoluene, Solid	ND	330	ug/Kg	03/12/03	bec
	2,6-Dinitrotoluene, Solid	ND	330	ug/Kg	03/12/03	bec
	Fluoranthene, Solid	ND	330	ug/Kg	03/12/03	bec
	Fluorene, Solid	ND	330	ug/Kg	03/12/03	bec
	Hexachlorobenzene, Solid	ND	330	ug/Kg	03/12/03	bec
	Hexachlorobutadiene, Solid	ND	330	ug/Kg	03/12/03	bec
	Hexachlorocyclopentadiene, Solid	ND	330	ug/Kg	03/12/03	bec
	Hexachloroethane, Solid	ND	330	ug/Kg	03/12/03	bec
	Indeno(123cd)pyrene, Solid	ND	330	ug/Kg	03/12/03	bec
	Isophorone, Solid	ND	330	ug/Kg	03/12/03	bec
	2-Methylnaphthalene, Solid	ND	330	ug/Kg	03/12/03	bec
	2-Methylphenol (o-cresol), Solid	ND	330	ug/Kg	03/12/03	bec
	3 & 4 Methylphenol (m&p cresol), Solid	ND	330	ug/Kg	03/12/03	bec
	Naphthalene, Solid	ND	330	ug/Kg	03/12/03	bec
	o-Nitroaniline, Solid	ND	1665	ug/Kg	03/12/03	bec
	m-Nitroaniline, Solid	ND	1665	ug/Kg	03/12/03	bec
	p-Nitroaniline, Solid	ND	660	ug/Kg	03/12/03	bec
	Nitrobenzene, Solid	ND	330	ug/Kg	03/12/03	bec
	2-Nitrophenol, Solid	ND	330	ug/Kg	03/12/03	bec
	4-Nitrophenol, Solid	ND	1665	ug/Kg	03/12/03	bec
	n-Nitrosodi-n-propylamine, Solid	ND	330	ug/Kg	03/12/03	bec
	n-Nitrosodiphenylamine, Solid	ND	330	ug/Kg	03/12/03	bec
	Pentachlorophenol, Solid	ND	1665	ug/Kg	03/12/03	bec
	Phenanthrene, Solid	ND	330	ug/Kg	03/12/03	bec
	Phenol, Solid	ND	330	ug/Kg	03/12/03	bec
	Pyrene, Solid	ND	330	ug/Kg	03/12/03	bec
	Pyridine, Solid	ND	330	ug/Kg	03/12/03	bec
	1,2,4-Trichlorobenzene, Solid	ND	330	ug/Kg	03/12/03	bec
	2,4,5-Trichlorophenol, Solid	ND	330	ug/Kg	03/12/03	bec
	2,4,6-Trichlorophenol, Solid	ND	330	ug/Kg	03/12/03	bec
TCEQ TX1005	Petroleum Hydrocarbons Extraction					
	n-Pentane Extraction - Solids & Wastes	Complete			03/11/03	rgc
TCEQ TX1005	Total Petroleum Hydrocarbons					
	Petroleum Hydrocarbons (C6 to C12), Solid	ND	50	mg/Kg	03/13/03	rgc
	Petroleum Hydrocarbons (>C12 to C28), Solid	ND	50	mg/Kg	03/13/03	rgc

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 217647

Date: 03/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-005-0959 ATTN: Jenny Elste

Customer Sample ID: BF-001 BACKFILL/CLAY SOURCE
Date Sampled.....: 03/10/2003
Time Sampled.....: 11:40
Sample Matrix.....: Soil

Laboratory Sample ID: 217647-1
Date Received.....: 03/11/2003
Time Received.....: 09:20

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
	Petroleum Hydrocarbons (>C28 to C35), Solid	ND	50	mg/Kg	03/13/03	rgc
	TPH (C6 to C35), Solid	ND	50	mg/Kg	03/13/03	rgc

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 217647 Date: 03/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-005-0959 ATTN: Jenny Elste

Customer Sample ID: BF-001 BACKFILL/CLAY SOURCE
Date Sampled.....: 03/10/2003
Time Sampled.....: 11:45
Sample Matrix.....: Soil

Laboratory Sample ID: 217647-2
Date Received.....: 03/11/2003
Time Received.....: 09:20

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 8260B	Volatile Organics					
	Acetone, Solid	ND	100	ug/Kg	03/13/03	krm
	Acetonitrile, Solid	ND	50	ug/Kg	03/13/03	krm
	Acrolein, Solid	ND	50	ug/Kg	03/13/03	krm
	Acrylonitrile, Solid	ND	20	ug/Kg	03/13/03	krm
	Benzene, Solid	ND	5	ug/Kg	03/13/03	krm
	Bromodichloromethane, Solid	ND	5	ug/Kg	03/13/03	krm
	Bromoform (Tribromomethane), Solid	ND	5	ug/Kg	03/13/03	krm
	Bromomethane (methyl bromide), Solid	ND	5	ug/Kg	03/13/03	krm
	Carbon Disulfide, Solid	ND	5	ug/Kg	03/13/03	krm
	Carbon Tetrachloride, Solid	ND	5	ug/Kg	03/13/03	krm
	Chlorobenzene, Solid	ND	5	ug/Kg	03/13/03	krm
	Chloroethane (Ethyl chloride), Solid	ND	5	ug/Kg	03/13/03	krm
	2-Chloroethylvinyl Ether, Solid	ND	5	ug/Kg	03/13/03	krm
	Chloroform, Solid	ND	5	ug/Kg	03/13/03	krm
	Chloromethane (methyl chloride), Solid	ND	5	ug/Kg	03/13/03	krm
	Dibromochloromethane, Solid	ND	5	ug/Kg	03/13/03	krm
	Dibromomethane, Solid	ND	5	ug/Kg	03/13/03	krm
	1,2-Dibromoethane (EDB), Solid	ND	5	ug/Kg	03/13/03	krm
	Dichlorodifluoromethane, Solid	ND	5	ug/Kg	03/13/03	krm
	1,1-Dichloroethane, Solid	ND	5	ug/Kg	03/13/03	krm
	1,2-Dichloroethane (EDC), Solid	ND	5	ug/Kg	03/13/03	krm
	1,1-Dichloroethene (Vinylidene chloride), Solid	ND	5	ug/Kg	03/13/03	krm
	cis-1,2-Dichloroethene, Solid	ND	5	ug/Kg	03/13/03	krm
	trans-1,2-Dichloroethene, Solid	ND	5	ug/Kg	03/13/03	krm
	1,2-Dichloropropane, Solid	ND	5	ug/Kg	03/13/03	krm
	1,3-Dichloropropane, Solid	ND	5	ug/Kg	03/13/03	krm
	2,2-Dichloropropane, Solid	ND	5	ug/Kg	03/13/03	krm
	1,1-Dichloropropene, Solid	ND	5	ug/Kg	03/13/03	krm
	cis-1,3-Dichloropropene, Solid	ND	5	ug/Kg	03/13/03	krm
	trans-1,3-Dichloropropene, Solid	ND	5	ug/Kg	03/13/03	krm
	1,4-Dioxane, Solid	ND	100	ug/Kg	03/13/03	krm
	Ethyl Acetate, Solid	ND	5	ug/Kg	03/13/03	krm
	Ethylbenzene, Solid	ND	5	ug/Kg	03/13/03	krm
	Ethyl Ether (Diethyl Ether), Solid	ND	5	ug/Kg	03/13/03	krm
	Ethyl Methacrylate, Solid	ND	5	ug/Kg	03/13/03	krm
	2-Hexanone, Solid	ND	5	ug/Kg	03/13/03	krm
	Iodomethane (Methyl Iodide), Solid	ND	5	ug/Kg	03/13/03	krm
	Methylene Chloride (Dichloromethane), Solid	ND	50	ug/Kg	03/13/03	krm
	Methyl Ethyl Ketone (2-Butanone), Solid	ND	10	ug/Kg	03/13/03	krm
	4-Methyl-2-Pentanone (MIBK), Solid	ND	5	ug/Kg	03/13/03	krm
	Methyl Methacrylate, Solid	ND	5	ug/Kg	03/13/03	krm
	tert-Butyl Methyl Ether (MTBE), Solid	ND	5	ug/Kg	03/13/03	krm
	2-Nitropropane, Solid	ND	5	ug/Kg	03/13/03	krm
	Styrene, Solid	ND	5	ug/Kg	03/13/03	krm
	1,1,2,2-Tetrachloroethane, Solid	ND	5	ug/Kg	03/13/03	krm
	Tetrachloroethene, Solid	ND	5	ug/Kg	03/13/03	krm
	Toluene, Solid	ND	5	ug/Kg	03/13/03	krm
	1,2,3-Trichlorobenzene, Solid	ND	5	ug/Kg	03/13/03	krm

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 217647 Date: 03/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-005-0959 ATTN: Jenny Elste

Customer Sample ID: BF-001 BACKFILL/CLAY SOURCE
Date Sampled.....: 03/10/2003
Time Sampled.....: 11:45
Sample Matrix.....: Soil

Laboratory Sample ID: 217647-2
Date Received.....: 03/11/2003
Time Received.....: 09:20

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
	1,1,1-Trichloroethane, Solid	ND	5	ug/Kg	03/13/03	krm
	1,1,2-Trichloroethane, Solid	ND	5	ug/Kg	03/13/03	krm
	Trichloroethene, Solid	ND	5	ug/Kg	03/13/03	krm
	Trichlorofluoromethane, Solid	ND	5	ug/Kg	03/13/03	krm
	1,1,2-Trichloro-1,2,2-Trifluoroethane, Solid	ND	50	ug/Kg	03/13/03	krm
	1,2,4-Trimethylbenzene, Solid	ND	5	ug/Kg	03/13/03	krm
	1,3,5-Trimethylbenzene, Solid	ND	5	ug/Kg	03/13/03	krm
	1,2,3-Trichloropropane, Solid	ND	5	ug/Kg	03/13/03	krm
	Vinyl Acetate, Solid	ND	5	ug/Kg	03/13/03	krm
	Vinyl Chloride (Chloroethene), Solid	ND	5	ug/Kg	03/13/03	krm
	Xylenes (total), Solid	ND	5	ug/Kg	03/13/03	krm

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 217647

Date: 03/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-005-0959 ATTN: Jenny Elste

Customer Sample ID: BF-002 BACKFILL/CLAY SOURCE
Date Sampled.....: 03/10/2003
Time Sampled.....: 11:50
Sample Matrix.....: Soil

Laboratory Sample ID: 217647-3
Date Received.....: 03/11/2003
Time Received.....: 09:20

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 7471A	Mercury (Hg), Solid	<0.5	0.5	mg/Kg	03/12/03	edr
SW-846 6010B	Antimony (Sb), Solid	<5	5	mg/Kg	03/11/03	jem
SW-846 6010B	Arsenic (As), Solid	<5	5	mg/Kg	03/11/03	jem
SW-846 6010B	Barium (Ba), Solid	27	5	mg/Kg	03/11/03	jem
SW-846 6010B	Cadmium (Cd), Solid	<5	5	mg/Kg	03/11/03	jem
SW-846 6010B	Chromium (Cr), Solid	41	5	mg/Kg	03/11/03	jem
SW-846 6010B	Lead (Pb), Solid	13	5	mg/Kg	03/11/03	jem
SW-846 6010B	Selenium (Se), Solid	<5	5	mg/Kg	03/11/03	jem
SW-846 6010B	Silver (Ag), Solid	<5	5	mg/Kg	03/11/03	jem
SW-846 3050B	Acid Digestion, Solids and Sludges	Complete			03/11/03	dml
SW-846 3550B	Extraction (Ultrasonic) SVOCs					
	Ultrasonic Extraction	Complete			03/11/03	sew
SW-846 8270C	Semivolatile Organics					
	Acenaphthene, Solid	ND	330	ug/Kg	03/12/03	bec
	Acenaphthylene, Solid	ND	330	ug/Kg	03/12/03	bec
	Aniline, Solid	ND	660	ug/Kg	03/12/03	bec
	Anthracene, Solid	ND	330	ug/Kg	03/12/03	bec
	Benzo(a)anthracene (1,2-Benzanthracene), Solid	ND	330	ug/Kg	03/12/03	bec
	Benzo(b)fluoranthene, Solid	ND	330	ug/Kg	03/12/03	bec
	Benzo(k)fluoranthene, Solid	ND	330	ug/Kg	03/12/03	bec
	Benzo(ghi)perylene, Solid	ND	330	ug/Kg	03/12/03	bec
	Benzo(a)pyrene, Solid	ND	330	ug/Kg	03/12/03	bec
	Benzyl alcohol, Solid	ND	660	ug/Kg	03/12/03	bec
	Bis(2-chloroethoxy)methane, Solid	ND	330	ug/Kg	03/12/03	bec
	Bis(2-chloroethyl)ether, Solid	ND	330	ug/Kg	03/12/03	bec
	Bis(2-chloroisopropyl)ether, Solid	ND	330	ug/Kg	03/12/03	bec
	Bis(2-ethylhexyl)phthalate, Solid	ND	330	ug/Kg	03/12/03	bec
	4-Bromophenyl phenyl ether, Solid	ND	330	ug/Kg	03/12/03	bec
	Butyl benzyl phthalate, Solid	ND	330	ug/Kg	03/12/03	bec
	4-Chloroaniline, Solid	ND	660	ug/Kg	03/12/03	bec
	4-Chloro-3-methylphenol, Solid	ND	660	ug/Kg	03/12/03	bec
	2-Chloronaphthalene, Solid	ND	330	ug/Kg	03/12/03	bec
	2-Chlorophenol, Solid	ND	330	ug/Kg	03/12/03	bec
	4-Chlorophenyl phenyl ether, Solid	ND	330	ug/Kg	03/12/03	bec
	Chrysene, Solid	ND	330	ug/Kg	03/12/03	bec
	Dibenzo(ah)anthracene, Solid	ND	330	ug/Kg	03/12/03	bec
	Dibenzofuran, Solid	ND	330	ug/Kg	03/12/03	bec

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 217647 Date: 03/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-005-0959 ATTN: Jenny Elste

Customer Sample ID: BF-002 BACKFILL/CLAY SOURCE
Date Sampled.....: 03/10/2003
Time Sampled.....: 11:50
Sample Matrix.....: Soil

Laboratory Sample ID: 217647-3
Date Received.....: 03/11/2003
Time Received.....: 09:20

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
	1,2-Dichlorobenzene, Solid	ND	330	ug/Kg	03/12/03	bec
	1,3-Dichlorobenzene, Solid	ND	330	ug/Kg	03/12/03	bec
	1,4-Dichlorobenzene, Solid	ND	330	ug/Kg	03/12/03	bec
	3,3-Dichlorobenzidine, Solid	ND	660	ug/Kg	03/12/03	bec
	Diethyl phthalate, Solid	ND	330	ug/Kg	03/12/03	bec
	Dimethyl phthalate, Solid	ND	330	ug/Kg	03/12/03	bec
	2,4-Dimethylphenol, Solid	ND	330	ug/Kg	03/12/03	bec
	Di-n-butyl phthalate, Solid	ND	330	ug/Kg	03/12/03	bec
	Di-n-octyl phthalate, Solid	ND	330	ug/Kg	03/12/03	bec
	2,4-Dichlorophenol, Solid	ND	330	ug/Kg	03/12/03	bec
	4,6-Dinitro-2-methylphenol, Solid	ND	1665	ug/Kg	03/12/03	bec
	2,4-Dinitrophenol, Solid	ND	1665	ug/Kg	03/12/03	bec
	2,4-Dinitrotoluene, Solid	ND	330	ug/Kg	03/12/03	bec
	2,6-Dinitrotoluene, Solid	ND	330	ug/Kg	03/12/03	bec
	Fluoranthene, Solid	ND	330	ug/Kg	03/12/03	bec
	Fluorene, Solid	ND	330	ug/Kg	03/12/03	bec
	Hexachlorobenzene, Solid	ND	330	ug/Kg	03/12/03	bec
	Hexachlorobutadiene, Solid	ND	330	ug/Kg	03/12/03	bec
	Hexachlorocyclopentadiene, Solid	ND	330	ug/Kg	03/12/03	bec
	Hexachloroethane, Solid	ND	330	ug/Kg	03/12/03	bec
	Indeno(123cd)pyrene, Solid	ND	330	ug/Kg	03/12/03	bec
	Isophorone, Solid	ND	330	ug/Kg	03/12/03	bec
	2-Methylnaphthalene, Solid	ND	330	ug/Kg	03/12/03	bec
	2-Methylphenol (o-cresol), Solid	ND	330	ug/Kg	03/12/03	bec
	3 & 4 Methylphenol (m&p cresol), Solid	ND	330	ug/Kg	03/12/03	bec
	Naphthalene, Solid	ND	330	ug/Kg	03/12/03	bec
	o-Nitroaniline, Solid	ND	1665	ug/Kg	03/12/03	bec
	m-Nitroaniline, Solid	ND	1665	ug/Kg	03/12/03	bec
	p-Nitroaniline, Solid	ND	660	ug/Kg	03/12/03	bec
	Nitrobenzene, Solid	ND	330	ug/Kg	03/12/03	bec
	2-Nitrophenol, Solid	ND	330	ug/Kg	03/12/03	bec
	4-Nitrophenol, Solid	ND	1665	ug/Kg	03/12/03	bec
	n-Nitrosodi-n-propylamine, Solid	ND	330	ug/Kg	03/12/03	bec
	n-Nitrosodiphenylamine, Solid	ND	330	ug/Kg	03/12/03	bec
	Pentachlorophenol, Solid	ND	1665	ug/Kg	03/12/03	bec
	Phenanthrene, Solid	ND	330	ug/Kg	03/12/03	bec
	Phenol, Solid	ND	330	ug/Kg	03/12/03	bec
	Pyrene, Solid	ND	330	ug/Kg	03/12/03	bec
	Pyridine, Solid	ND	330	ug/Kg	03/12/03	bec
	1,2,4-Trichlorobenzene, Solid	ND	330	ug/Kg	03/12/03	bec
	2,4,5-Trichlorophenol, Solid	ND	330	ug/Kg	03/12/03	bec
	2,4,6-Trichlorophenol, Solid	ND	330	ug/Kg	03/12/03	bec
TCEQ TX1005	Petroleum Hydrocarbons Extraction					
	n-Pentane Extraction - Solids & Wastes	Complete			03/11/03	rgc
TCEQ TX1005	Total Petroleum Hydrocarbons					
	Petroleum Hydrocarbons (C6 to C12), Solid	ND	50	mg/Kg	03/13/03	rgc
	Petroleum Hydrocarbons (>C12 to C28), Solid	ND	50	mg/Kg	03/13/03	rgc

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 217647 Date: 03/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-005-0959 ATTN: Jenny Elste

Customer Sample ID: BF-002 BACKFILL/CLAY SOURCE
Date Sampled.....: 03/10/2003
Time Sampled.....: 11:50
Sample Matrix.....: Soil

Laboratory Sample ID: 217647-3
Date Received.....: 03/11/2003
Time Received.....: 09:20

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
	Petroleum Hydrocarbons (>C28 to C35), Solid	ND	50	mg/Kg	03/13/03	rgc
	TPH (C6 to C35), Solid	ND	50	mg/Kg	03/13/03	rgc

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 217647

Date: 03/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-005-0959 ATTN: Jenny Elste

Customer Sample ID: BF-002 BACKFILL/CLAY SOURCE
Date Sampled.....: 03/10/2003
Time Sampled.....: 11:55
Sample Matrix.....: Soil

Laboratory Sample ID: 217647-4
Date Received.....: 03/11/2003
Time Received.....: 09:20

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 8260B	Volatile Organics					
	Acetone, Solid	ND	100	ug/Kg	03/13/03	krm
	Acetonitrile, Solid	ND	50	ug/Kg	03/13/03	krm
	Acrolein, Solid	ND	50	ug/Kg	03/13/03	krm
	Acrylonitrile, Solid	ND	20	ug/Kg	03/13/03	krm
	Benzene, Solid	ND	5	ug/Kg	03/13/03	krm
	Bromodichloromethane, Solid	ND	5	ug/Kg	03/13/03	krm
	Bromoform (Tribromomethane), Solid	ND	5	ug/Kg	03/13/03	krm
	Bromomethane (methyl bromide), Solid	ND	5	ug/Kg	03/13/03	krm
	Carbon Disulfide, Solid	8	5	ug/Kg	03/13/03	krm
	Carbon Tetrachloride, Solid	ND	5	ug/Kg	03/13/03	krm
	Chlorobenzene, Solid	ND	5	ug/Kg	03/13/03	krm
	Chloroethane (Ethyl chloride), Solid	ND	5	ug/Kg	03/13/03	krm
	2-Chloroethylvinyl Ether, Solid	ND	5	ug/Kg	03/13/03	krm
	Chloroform, Solid	ND	5	ug/Kg	03/13/03	krm
	Chloromethane (methyl chloride), Solid	ND	5	ug/Kg	03/13/03	krm
	Dibromochloromethane, Solid	ND	5	ug/Kg	03/13/03	krm
	Dibromomethane, Solid	ND	5	ug/Kg	03/13/03	krm
	1,2-Dibromoethane (EDB), Solid	ND	5	ug/Kg	03/13/03	krm
	Dichlorodifluoromethane, Solid	ND	5	ug/Kg	03/13/03	krm
	1,1-Dichloroethane, Solid	ND	5	ug/Kg	03/13/03	krm
	1,2-Dichloroethane (EDC), Solid	ND	5	ug/Kg	03/13/03	krm
	1,1-Dichloroethene (Vinylidene chloride), Solid	ND	5	ug/Kg	03/13/03	krm
	cis-1,2-Dichloroethene, Solid	ND	5	ug/Kg	03/13/03	krm
	trans-1,2-Dichloroethene, Solid	ND	5	ug/Kg	03/13/03	krm
	1,2-Dichloropropane, Solid	ND	5	ug/Kg	03/13/03	krm
	1,3-Dichloropropane, Solid	ND	5	ug/Kg	03/13/03	krm
	2,2-Dichloropropane, Solid	ND	5	ug/Kg	03/13/03	krm
	1,1-Dichloropropene, Solid	ND	5	ug/Kg	03/13/03	krm
	cis-1,3-Dichloropropene, Solid	ND	5	ug/Kg	03/13/03	krm
	trans-1,3-Dichloropropene, Solid	ND	5	ug/Kg	03/13/03	krm
	1,4-Dioxane, Solid	ND	100	ug/Kg	03/13/03	krm
	Ethyl Acetate, Solid	ND	5	ug/Kg	03/13/03	krm
	Ethylbenzene, Solid	ND	5	ug/Kg	03/13/03	krm
	Ethyl Ether (Diethyl Ether), Solid	ND	5	ug/Kg	03/13/03	krm
	Ethyl Methacrylate, Solid	ND	5	ug/Kg	03/13/03	krm
	2-Hexanone, Solid	ND	5	ug/Kg	03/13/03	krm
	Iodomethane (Methyl Iodide), Solid	ND	5	ug/Kg	03/13/03	krm
	Methylene Chloride (Dichloromethane), Solid	ND	50	ug/Kg	03/13/03	krm
	Methyl Ethyl Ketone (2-Butanone), Solid	ND	10	ug/Kg	03/13/03	krm
	4-Methyl-2-Pentanone (MIBK), Solid	ND	5	ug/Kg	03/13/03	krm
	Methyl Methacrylate, Solid	ND	5	ug/Kg	03/13/03	krm
	tert-Butyl Methyl Ether (MTBE), Solid	ND	5	ug/Kg	03/13/03	krm
	2-Nitropropane, Solid	ND	5	ug/Kg	03/13/03	krm
	Styrene, Solid	ND	5	ug/Kg	03/13/03	krm
	1,1,2,2-Tetrachloroethane, Solid	ND	5	ug/Kg	03/13/03	krm
	Tetrachloroethene, Solid	ND	5	ug/Kg	03/13/03	krm
	Toluene, Solid	ND	5	ug/Kg	03/13/03	krm
	1,2,3-Trichlorobenzene, Solid	ND	5	ug/Kg	03/13/03	krm

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 217647

Date: 03/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-005-0959 ATTN: Jenny Elste

Customer Sample ID: BF-002 BACKFILL/CLAY SOURCE
Date Sampled.....: 03/10/2003
Time Sampled.....: 11:55
Sample Matrix.....: Soil

Laboratory Sample ID: 217647-4
Date Received.....: 03/11/2003
Time Received.....: 09:20

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
	1,1,1-Trichloroethane, Solid	ND	5	ug/Kg	03/13/03	krm
	1,1,2-Trichloroethane, Solid	ND	5	ug/Kg	03/13/03	krm
	Trichloroethene, Solid	ND	5	ug/Kg	03/13/03	krm
	Trichlorofluoromethane, Solid	ND	5	ug/Kg	03/13/03	krm
	1,1,2-Trichloro-1,2,2-Trifluoroethane, Solid	ND	50	ug/Kg	03/13/03	krm
	1,2,4-Trimethylbenzene, Solid	9	5	ug/Kg	03/13/03	krm
	1,3,5-Trimethylbenzene, Solid	ND	5	ug/Kg	03/13/03	krm
	1,2,3-Trichloropropane, Solid	ND	5	ug/Kg	03/13/03	krm
	Vinyl Acetate, Solid	ND	5	ug/Kg	03/13/03	krm
	Vinyl Chloride (Chloroethene), Solid	ND	5	ug/Kg	03/13/03	krm
	Xylenes (total), Solid	6	5	ug/Kg	03/13/03	krm

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 217647 Report Date.: 03/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-005-0959 ATTN: Jenny Elste

Test Method.....: SW-846 7471A Batch.....: 78307 Analyst...: edr
Method Description.: Mercury (CVAA) Units.....: mg/Kg Test Code.: HG
Parameter.....: Mercury (Hg)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICV		M031203HG	0.00480		0.005000		96.0	%	90-110	03/12/2003	2013
ICB			0.000047							03/12/2003	2015
LCS		M031203LG	0.00517		0.005000		103.4	%	85-115	03/12/2003	2017
MB			-0.000156							03/12/2003	2019
CCV		M031203HG	0.00482		0.005000		96.4	%	80-120	03/12/2003	2035
CCB			0.000093							03/12/2003	2037
MS	217624-4	M031203HG	0.00456		0.005000	-0.000015	91.5	%	85-115	03/12/2003	2044
MSD	217624-4	M031203HG	0.00464	0.00456	0.005000	-0.000015	93.1	%	85-115	03/12/2003	2046
							1.7	R	20		
CCV		M031203HG	0.00449		0.005000		89.8	%	80-120	03/12/2003	2057
CCB			0.000003							03/12/2003	2059
CCV		M031203HG	0.00455		0.005000		91.0	%	80-120	03/12/2003	2106
CCB			-0.000291							03/12/2003	2108

Test Method.....: SW-846 6010B Batch.....: 78262 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SB
Parameter.....: Antimony (Sb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0353	1.00629817		1.00		100.6	%	90-110	03/11/2003	1012
ICV		M0346	1.07326959		1.00		107.3	%	90-110	03/11/2003	1016
ICV		M0356	1.09047497		1.00		109.0	%	90-110	03/11/2003	1024
ICB			-0.0039678							03/11/2003	1031
CCV		M0354	1.04015261		1.00		104.0	%	90-110	03/11/2003	1052
CCB			0.00134188							03/11/2003	1059
CCV		M0354	1.03505576		1.00		103.5	%	90-110	03/11/2003	1146
CCB			0.00337098							03/11/2003	1154
MB		3010	-0.0049802							03/11/2003	1210
LCS		M346	0.47053835		0.500		94.1	%	64-138	03/11/2003	1214
CCV		M0354	1.01084519		1.00		101.1	%	90-110	03/11/2003	1238
CCB			0.00627658							03/11/2003	1246
MS	217610-8	M346	0.51610464		0.500	0.00419731	102.4	%	75-125	03/11/2003	1307
MSD	217610-8	M346	0.51055167	0.51610464	0.500	0.00419731	101.3	%	75-125	03/11/2003	1312
							1.1	R	20		
CCV		M0354	1.00995741		1.00		101.0	%	90-110	03/11/2003	1334
CCB			0.00670721							03/11/2003	1342
CCV		M0354	1.00498489		1.00		100.5	%	90-110	03/11/2003	1429
CCB			0.00419928							03/11/2003	1436
MB		3050	0.00482793							03/11/2003	1440
LCS		M346	0.53085647		0.500		106.2	%	64-138	03/11/2003	1444
PDS	217604-5	M346B	1.02941337		1.00	0.02056142	100.9	%	75-125	03/11/2003	1519
CCV		M0354	0.99577101		1.00		99.6	%	90-110	03/11/2003	1523
CCB			0.00972074							03/11/2003	1531
PSD	217604-5	M346B	1.04704075	1.02941337	1.00	0.02056142	102.6	%	75-125	03/11/2003	1535
							1.7	R	20		
CCV		M0354	0.98156207		1.00		98.2	%	90-110	03/11/2003	1624
CCB			0.00580790							03/11/2003	1631
MB		3050	-0.0004963							03/11/2003	1635
LCS		M346	0.48049752		0.500		96.1	%	64-138	03/11/2003	163
PDS	217639-1	M346B	0.79067502		1.00	0.00239800	78.8	%	75-125	03/11/2003	170
PSD	217639-1	M346B	0.70451965	0.79067502	1.00	0.00239800	70.2	%	75-125	03/11/2003	1710
							11.5	R	20		

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 217647 Report Date.: 03/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-005-0959 ATTN: Jenny Elste

Test Method.....: SW-846 6010B Batch.....: 78262 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SB
Parameter.....: Antimony (Sb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0354	0.94525626		1.00		94.5	%	90-110	03/11/2003	1723
CCB			0.00442168							03/11/2003	1731
MB		3010	-0.0031761							03/11/2003	1743
LCS		M346	0.46655217		0.500		93.3	%	64-138	03/11/2003	1747
CCV		M0346	0.95801425		1.00		95.8	%	90-110	03/11/2003	1817
CCB			0.00493348							03/11/2003	1824
MS	217626-1	M346	0.48951948		0.500	0.00550834	96.8	%	75-125	03/11/2003	1908
MSD	217626-1	M346	0.49963965	0.48951948	0.500	0.00550834	98.8	%	75-125	03/11/2003	1912
							2.0	R	20		
CCV		M0354	0.97636227		1.00		97.6	%	90-110	03/11/2003	1916
CCB			0.00426588							03/11/2003	1924

Test Method.....: SW-846 6010B Batch.....: 78262 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0343	2.00377921		2.00		100.2	%	90-110	03/11/2003	1008
ICV		M0346	1.02008863		1.00		102.0	%	90-110	03/11/2003	1016
ICV		M0356	1.03736074		1.00		103.7	%	90-110	03/11/2003	1024
ICB			-0.0028946							03/11/2003	1031
CCV		M0354	1.05696604		1.00		105.7	%	90-110	03/11/2003	1052
CCB			0.00230304							03/11/2003	1059
CCV		M0354	1.06868249		1.00		106.9	%	90-110	03/11/2003	1146
CCB			0.00036017							03/11/2003	1154
MB		3010	-0.0003576							03/11/2003	1210
LCS		M346	0.48715207		0.500		97.4	%	85-110	03/11/2003	1214
CCV		M0354	1.05453717		1.00		105.5	%	90-110	03/11/2003	1238
CCB			0.00021576							03/11/2003	1246
MS	217610-8	M346	0.50838979		0.500	-0.0083914	103.4	%	75-125	03/11/2003	1307
MSD	217610-8	M346	0.50621420	0.50838979	0.500	-0.0083914	102.9	%	75-125	03/11/2003	1312
							0.4	R	20		
CCV		M0354	1.06290835		1.00		106.3	%	90-110	03/11/2003	1334
CCB			0.00248456							03/11/2003	1342
CCV		M0354	1.06055887		1.00		106.1	%	90-110	03/11/2003	1429
CCB			-0.0015589							03/11/2003	1436
MB		3050	-0.0008941							03/11/2003	1440
LCS		M346	0.52399962		0.500		104.8	%	85-110	03/11/2003	1444
MS	217604-5	M346	0.51296855		0.500	-0.0006418	102.7	%	75-125	03/11/2003	1510
MSD	217604-5	M346	0.50407562	0.51296855	0.500	-0.0006418	100.9	%	75-125	03/11/2003	1514
							1.7	R	20		
PDS	217604-5	M346B	1.01953429		1.00	-0.0006418	102.0	%	75-125	03/11/2003	1519
CCV		M0354	1.06556057		1.00		106.6	%	90-110	03/11/2003	1523
CCB			0.00198693							03/11/2003	1531
PSD	217604-5	M346B	1.01816554	1.01953429	1.00	-0.0006418	101.9	%	75-125	03/11/2003	1535
							0.1	R	20		
CCV		M0354	1.06061853		1.00		106.1	%	90-110	03/11/2003	1624
CCB			0.00136570							03/11/2003	1631
MB		3050	0.00082642							03/11/2003	1635
LCS		M346	0.52888207		0.500		105.8	%	85-110	03/11/2003	1638
MS	217639-1	M346	0.55570111		0.500	0.06151513	98.8	%	75-125	03/11/2003	1656

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 217647 Report Date.: 03/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-005-0959 ATTN: Jenny Elste

Test Method.....: SW-846 6010B Batch.....: 78262 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MSD	217639-1	M346	0.54207465	0.55570111	0.500	0.06151513	96.1	%	75-125	03/11/2003	1701
							2.5	R	20		
PDS	217639-1	M346B	1.04941655		1.00	0.06151513	98.8	%	75-125	03/11/2003	1705
PSD	217639-1	M346B	1.03491367	1.04941655	1.00	0.06151513	97.3	%	75-125	03/11/2003	1710
							1.4	R	20		
CCV		M0354	1.04959855		1.00		105.0	%	90-110	03/11/2003	1723
CCB			0.00059811							03/11/2003	1731
MB		3010	0.00030961							03/11/2003	1743
LCS		M346	0.51112918		0.500		102.2	%	85-110	03/11/2003	1747
CCV		M0346	1.03495791		1.00		103.5	%	90-110	03/11/2003	1817
CCB			0.00085388							03/11/2003	1824
MS	217626-1	M346	0.51226154		0.500	-0.0062478	103.7	%	75-125	03/11/2003	1908
MSD	217626-1	M346	0.51085465	0.51226154	0.500	-0.0062478	103.4	%	75-125	03/11/2003	1912
							0.3	R	20		
CCV		M0354	1.01654361		1.00		101.7	%	90-110	03/11/2003	1916
CCB			-0.0000906							03/11/2003	1924

Test Method.....: SW-846 6010B Batch.....: 78262 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: BA
Parameter.....: Barium (Ba)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0343	1.99707424		2.00		99.9	%	90-110	03/11/2003	1008
ICV		M0348	0.99067770		1.00		99.1	%	90-110	03/11/2003	1020
ICV		M0357	1.00734638		1.00		100.7	%	90-110	03/11/2003	1028
ICB			-0.0015589							03/11/2003	1031
CCV		M0354	1.06795892		1.00		106.8	%	90-110	03/11/2003	1052
CCB			-0.0014644							03/11/2003	1059
CCV		M0354	1.07890740		1.00		107.9	%	90-110	03/11/2003	1146
CCB			-0.0013313							03/11/2003	1154
MB		3010	-0.0013163							03/11/2003	1210
LCS		M346	0.50290402		0.500		100.6	%	90-110	03/11/2003	1214
CCV		M0354	1.05627088		1.00		105.6	%	90-110	03/11/2003	1238
CCB			-0.0011808							03/11/2003	1246
MS	217610-8	M346	0.60492626		0.500	0.10114429	100.8	%	75-125	03/11/2003	1307
MSD	217610-8	M346	0.59896671	0.60492626	0.500	0.10114429	99.6	%	75-125	03/11/2003	1312
							1.0	R	20		
CCV		M0354	1.06748955		1.00		106.7	%	90-110	03/11/2003	1334
CCB			-0.0012612							03/11/2003	1342
CCV		M0354	1.06739287		1.00		106.7	%	90-110	03/11/2003	1429
CCB			-0.0013081							03/11/2003	1436
MB		3050	0.00213109							03/11/2003	1440
LCS		M346	0.54320772		0.500		108.6	%	90-110	03/11/2003	1444
MS	217604-5	M346	0.64006679		0.500	0.17189228	93.6	%	75-125	03/11/2003	1510
MSD	217604-5	M346	0.62504705	0.64006679	0.500	0.17189228	90.6	%	75-125	03/11/2003	1514
							2.4	R	20		
PDS	217604-5	M346B	1.12375353		1.00	0.17189228	95.2	%	75-125	03/11/2003	1519
CCV		M0354	1.06982570		1.00		107.0	%	90-110	03/11/2003	1523
CCB			-0.0011533							03/11/2003	153
PSD	217604-5	M346B	1.13097020	1.12375353	1.00	0.17189228	95.9	%	75-125	03/11/2003	153
							0.6	R	20		

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 217647 Report Date.: 03/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-005-0959 ATTN: Jenny Elste

Test Method.....: SW-846 6010B Batch.....: 78262 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: BA
Parameter.....: Barium (Ba)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0354	1.06053566		1.00		106.1	%	90-110	03/11/2003	1624
CCB			-0.0011992							03/11/2003	1631
MB		3050	0.00143383							03/11/2003	1635
LCS		M346	0.53940385		0.500		107.9	%	90-110	03/11/2003	1638
MS	217639-1	M346	1.49052271		0.500	0.93944073	110.2	%	75-125	03/11/2003	1656
MSD	217639-1	M346	1.38713707	1.49052271	0.500	0.93944073	89.5	%	75-125	03/11/2003	1701
							7.2	R	20		
PDS	217639-1	M346B	1.90645655		1.00	0.93944073	96.7	%	75-125	03/11/2003	1705
PSD	217639-1	M346B	1.88578066	1.90645655	1.00	0.93944073	94.6	%	75-125	03/11/2003	1710
							1.1	R	20		
CCV		M0354	1.04826237		1.00		104.8	%	90-110	03/11/2003	1723
CCB			-0.0019537							03/11/2003	1731
MB		3010	-0.0019026							03/11/2003	1743
LCS		M346	0.51118686		0.500		102.2	%	90-110	03/11/2003	1747
CCB			-0.0015535							03/11/2003	1824
M[redacted]	7626-1	M346	0.54312275		0.500	0.04071495	100.5	%	75-125	03/11/2003	1908
M[redacted]	7626-1	M346	0.54267319	0.54312275	0.500	0.04071495	100.4	%	75-125	03/11/2003	1912
							0.1	R	20		
CCV		M0354	1.02657010		1.00		102.7	%	90-110	03/11/2003	1916
CCB			-0.0014853							03/11/2003	1924

Test Method.....: SW-846 6010B Batch.....: 78262 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CD
Parameter.....: Cadmium (Cd)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0343	2.00133417		2.00		100.1	%	90-110	03/11/2003	1008
ICV		M0346	1.03883201		1.00		103.9	%	90-110	03/11/2003	1016
ICV		M0356	1.03968938		1.00		104.0	%	90-110	03/11/2003	1024
ICB			-0.0003173							03/11/2003	1031
CCV		M0354	1.06507885		1.00		106.5	%	90-110	03/11/2003	1052
CCB			-0.0002899							03/11/2003	1059
CCV		M0354	1.05500254		1.00		105.5	%	90-110	03/11/2003	1146
CCB			-0.0000731							03/11/2003	1154
MB		3010	-0.0005567							03/11/2003	1210
LCS		M346	0.49170277		0.500		98.3	%	87-110	03/11/2003	1214
CCV		M0354	1.04540962		1.00		104.5	%	90-110	03/11/2003	1238
CCB			-0.0003258							03/11/2003	1246
MS	217610-8	M346	0.49220364		0.500	-0.0007662	98.6	%	75-125	03/11/2003	1307
MSD	217610-8	M346	0.48520448	0.49220364	0.500	-0.0007662	97.2	%	75-125	03/11/2003	1312
							1.4	R	20		
CCV		M0354	1.06602609		1.00		106.6	%	90-110	03/11/2003	1334
CCB			-0.0004954							03/11/2003	1342
CCV		M0354	1.06501630		1.00		106.5	%	90-110	03/11/2003	1429
CCB			-0.0006536							03/11/2003	1436
MB		3050	0.00010422							03/11/2003	1440
LCS		M346	0.52167107		0.500		104.3	%	87-110	03/11/2003	1444
[redacted]	217604-5	M346	0.46142095		0.500	0.00187799	91.9	%	75-125	03/11/2003	1510
[redacted]	217604-5	M346	0.45852944	0.46142095	0.500	0.00187799	91.3	%	75-125	03/11/2003	1514
							0.6	R	20		
PDS	217604-5	M346B	0.92279082		1.00	0.00187799	92.1	%	75-125	03/11/2003	1519

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 217647 Report Date.: 03/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-005-0959 ATTN: Jenny Elste

Test Method.....: SW-846 6010B Batch.....: 78262 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CD
Parameter.....: Cadmium (Cd)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0354	1.04811682		1.00		104.8	%	90-110	03/11/2003	1523
CCB			-0.0001740							03/11/2003	1531
PSD	217604-5	M346B	0.92527394	0.92279082	1.00	0.00187799	92.3	%	75-125	03/11/2003	1535
							0.3	R	20		
CCV		M0354	1.03877937		1.00		103.9	%	90-110	03/11/2003	1624
CCB			-0.0003412							03/11/2003	1631
MB		3050	-0.0004344							03/11/2003	1635
LCS		M346	0.51493787		0.500		103.0	%	87-110	03/11/2003	1638
MS	217639-1	M346	0.49301440		0.500	0.00066244	98.5	%	75-125	03/11/2003	1656
MSD	217639-1	M346	0.47551764	0.49301440	0.500	0.00066244	95.0	%	75-125	03/11/2003	1701
							3.6	R	20		
PDS	217639-1	M346B	0.96123832		1.00	0.00066244	96.1	%	75-125	03/11/2003	1705
PSD	217639-1	M346B	0.94796174	0.96123832	1.00	0.00066244	94.7	%	75-125	03/11/2003	1710
							1.4	R	20		
CCV		M0354	1.02831218		1.00		102.8	%	90-110	03/11/2003	1723
CCB			-0.0002498							03/11/2003	1731
MB		3010	-0.0006265							03/11/2003	1743
LCS		M346	0.49567761		0.500		99.1	%	87-110	03/11/2003	1747
CCV		M0346	1.02554838		1.00		102.6	%	90-110	03/11/2003	1817
CCB			0.00009392							03/11/2003	1824
MS	217626-1	M346	0.49226404		0.500	-0.0005927	98.6	%	75-125	03/11/2003	1908
MSD	217626-1	M346	0.49087543	0.49226404	0.500	-0.0005927	98.3	%	75-125	03/11/2003	1912
							0.3	R	20		
CCV		M0354	1.02226024		1.00		102.2	%	90-110	03/11/2003	1916
CCB			-0.0002355							03/11/2003	1924

Test Method.....: SW-846 6010B Batch.....: 78262 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CR
Parameter.....: Chromium (Cr)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0343	2.00360487		2.00		100.2	%	90-110	03/11/2003	1008
ICV		M0346	1.04424321		1.00		104.4	%	90-110	03/11/2003	1016
ICV		M0356	1.05334548		1.00		105.3	%	90-110	03/11/2003	1024
ICB			-0.0000979							03/11/2003	1031
CCV		M0354	1.06318489		1.00		106.3	%	90-110	03/11/2003	1052
CCB			-0.0002558							03/11/2003	1059
CCV		M0354	1.07434329		1.00		107.4	%	90-110	03/11/2003	1146
CCB			-0.0001770							03/11/2003	1154
MB		3010	-0.0002556							03/11/2003	1210
LCS		M346	0.50266290		0.500		100.5	%	90-110	03/11/2003	1214
CCV		M0354	1.05625655		1.00		105.6	%	90-110	03/11/2003	1238
CCB			-0.0001238							03/11/2003	1246
MS	217610-8	M346	0.50803824		0.500	0.00028674	101.6	%	75-125	03/11/2003	1307
MSD	217610-8	M346	0.50397291	0.50803824	0.500	0.00028674	100.7	%	75-125	03/11/2003	1312
							0.8	R	20		
CCV		M0354	1.06627912		1.00		106.6	%	90-110	03/11/2003	1334
CCB			-0.0004657							03/11/2003	134[illegible]
CCV		M0354	1.07022957		1.00		107.0	%	90-110	03/11/2003	14[illegible]
CCB			-0.0002166							03/11/2003	143[illegible]
MB		3050	0.00072555							03/11/2003	1440

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 217647 Report Date.: 03/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-005-0959 ATTN: Jenny Elste

Test Method.....: SW-846 6010B Batch.....: 78262 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CR
Parameter.....: Chromium (Cr)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
LCS		M346	0.53830904		0.500		107.7	%	90-110	03/11/2003	1444
MS	217604-5	M346	0.54248378		0.500	0.04545810	99.4	%	75-125	03/11/2003	1510
MSD	217604-5	M346	0.54418349	0.54248378	0.500	0.04545810	99.7	%	75-125	03/11/2003	1514
							0.3	R	20		
PDS	217604-5	M346B	1.02328164		1.00	0.04545810	97.8	%	75-125	03/11/2003	1519
CCV		M0354	1.07352414		1.00		107.4	%	90-110	03/11/2003	1523
CCB			0.00006340							03/11/2003	1531
PSD	217604-5	M346B	1.02581334	1.02328164	1.00	0.04545810	98.0	%	75-125	03/11/2003	1535
							0.2	R	20		
CCV		M0354	1.06216056		1.00		106.2	%	90-110	03/11/2003	1624
CCB			-0.0001362							03/11/2003	1631
MB		3050	0.00021103							03/11/2003	1635
LCS		M346	0.53786502		0.500		107.6	%	90-110	03/11/2003	1638
MS	217639-1	M346	0.62992391		0.500	0.09596718	106.8	%	75-125	03/11/2003	1656
MSD	217639-1	M346	0.60179966	0.62992391	0.500	0.09596718	101.2	%	75-125	03/11/2003	1701
							4.6	R	20		
P[redacted]	7639-1	M346B	1.09757450		1.00	0.09596718	100.2	%	75-125	03/11/2003	1705
PS[redacted]	17639-1	M346B	1.08431489	1.09757450	1.00	0.09596718	98.8	%	75-125	03/11/2003	1710
							1.2	R	20		
CCV		M0354	1.05548861		1.00		105.5	%	90-110	03/11/2003	1723
CCB			-0.0000828							03/11/2003	1731
MB		3010	-0.0000602							03/11/2003	1743
LCS		M346	0.51866273		0.500		103.7	%	90-110	03/11/2003	1747
CCV		M0346	1.04209022		1.00		104.2	%	90-110	03/11/2003	1817
CCB			-0.0002270							03/11/2003	1824
MS	217626-1	M346	0.51412827		0.500	-0.0000452	102.8	%	75-125	03/11/2003	1908
MSD	217626-1	M346	0.51551730	0.51412827	0.500	-0.0000452	103.1	%	75-125	03/11/2003	1912
							0.3	R	20		
CCV		M0354	1.03697959		1.00		103.7	%	90-110	03/11/2003	1916
CCB			-0.0002944							03/11/2003	1924

Test Method.....: SW-846 6010B Batch.....: 78262 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0343	1.99875594		2.00		99.9	%	90-110	03/11/2003	1008
ICV		M0346	1.03241148		1.00		103.2	%	90-110	03/11/2003	1016
ICV		M0356	1.04811351		1.00		104.8	%	90-110	03/11/2003	1024
ICB			-0.0000783							03/11/2003	1031
CCV		M0354	1.05985847		1.00		106.0	%	90-110	03/11/2003	1052
CCB			-0.0002231							03/11/2003	1059
CCV		M0354	1.06570132		1.00		106.6	%	90-110	03/11/2003	1146
CCB			-0.0012446							03/11/2003	1154
MB		3010	0.00051872							03/11/2003	1210
LCS		M346	0.49306545		0.500		98.6	%	87-112	03/11/2003	1214
CCV		M0354	1.05414727		1.00		105.4	%	90-110	03/11/2003	1238
C[redacted]			0.00087941							03/11/2003	1246
[redacted]	17610-8	M346	0.49492379		0.500	0.00124201	98.7	%	75-125	03/11/2003	1307
MS[redacted]	217610-8	M346	0.48870887	0.49492379	0.500	0.00124201	97.5	%	75-125	03/11/2003	1312
							1.3	R	20		

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 217647 Report Date.: 03/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-005-0959 ATTN: Jenny Elste

Test Method.....: SW-846 6010B Batch.....: 78262 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0354	1.05495612		1.00		105.5	%	90-110	03/11/2003	1334
CCB			0.00044502							03/11/2003	1342
CCV		M0354	1.05437518		1.00		105.4	%	90-110	03/11/2003	1429
CCB			-0.0002189							03/11/2003	1436
MB		3050	0.00092887							03/11/2003	1440
LCS		M346	0.52175544		0.500		104.4	%	87-112	03/11/2003	1444
MS	217604-5	M346	0.54910743		0.500	0.11065225	87.7	%	75-125	03/11/2003	1510
MSD	217604-5	M346	0.53780892	0.54910743	0.500	0.11065225	85.4	%	75-125	03/11/2003	1514
							2.1	R	20		
PDS	217604-5	M346B	1.04609660		1.00	0.11065225	93.5	%	75-125	03/11/2003	1519
CCV		M0354	1.04892441		1.00		104.9	%	90-110	03/11/2003	1523
CCB			0.00059748							03/11/2003	1531
PSD	217604-5	M346B	1.05240171	1.04609660	1.00	0.11065225	94.2	%	75-125	03/11/2003	1535
							0.6	R	20		
CCV		M0354	1.04712834		1.00		104.7	%	90-110	03/11/2003	1624
CCB			0.00047290							03/11/2003	1631
MB		3050	0.00104414							03/11/2003	1635
LCS		M346	0.50405050		0.500		100.8	%	87-112	03/11/2003	1638
MS	217639-1	M346	0.58396940		0.500	0.09425208	97.9	%	75-125	03/11/2003	1656
MSD	217639-1	M346	0.57093297	0.58396940	0.500	0.09425208	95.3	%	75-125	03/11/2003	1701
							2.3	R	20		
PDS	217639-1	M346B	1.05303131		1.00	0.09425208	95.9	%	75-125	03/11/2003	1705
PSD	217639-1	M346B	1.03268013	1.05303131	1.00	0.09425208	93.8	%	75-125	03/11/2003	1710
							2.0	R	20		
CCV		M0354	1.03454517		1.00		103.5	%	90-110	03/11/2003	1723
CCB			0.00122402							03/11/2003	1731
MB		3010	0.00000501							03/11/2003	1743
LCS		M346	0.49860409		0.500		99.7	%	87-112	03/11/2003	1747
CCV		M0346	1.02128365		1.00		102.1	%	90-110	03/11/2003	1817
CCB			0.00040156							03/11/2003	1824
MS	217626-1	M346	0.49357356		0.500	0.00151730	98.4	%	75-125	03/11/2003	1908
MSD	217626-1	M346	0.49360669	0.49357356	0.500	0.00151730	98.4	%	75-125	03/11/2003	1912
							0.0	R	20		
CCV		M0354	1.01119706		1.00		101.1	%	90-110	03/11/2003	1916
CCB			-0.0007666							03/11/2003	1924

Test Method.....: SW-846 6010B Batch.....: 78262 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SE
Parameter.....: Selenium (Se)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0343	2.01652128		2.00		100.8	%	90-110	03/11/2003	1008
ICV		M0346	1.04693176		1.00		104.7	%	90-110	03/11/2003	1016
ICV		M0356	1.05168922		1.00		105.2	%	90-110	03/11/2003	1024
ICB			0.00417138							03/11/2003	1031
CCV		M0354	1.06056482		1.00		106.1	%	90-110	03/11/2003	1052
CCB			0.00346479							03/11/2003	1059
CCV		M0354	1.06590222		1.00		106.6	%	90-110	03/11/2003	1146
CCB			0.00822148							03/11/2003	115
MB		3010	0.00154966							03/11/2003	121
LCS		M346	0.47829484		0.500		95.7	%	82-111	03/11/2003	1214

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 217647 Report Date.: 03/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-005-0959 ATTN: Jenny Elste

Test Method.....: SW-846 6010B Batch.....: 78262 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SE
Parameter.....: Selenium (Se)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0354	1.04683717		1.00		104.7	%	90-110	03/11/2003	1238
CCB			0.01016561							03/11/2003	1246
MS	217610-8	M346	0.49349634		0.500	-0.0003735	98.8	%	75-125	03/11/2003	1307
MSD	217610-8	M346	0.49482155	0.49349634	0.500	-0.0003735	99.0	%	75-125	03/11/2003	1312
							0.3	R	20		
CCV		M0354	1.04952603		1.00		105.0	%	90-110	03/11/2003	1334
CCB			0.00961800							03/11/2003	1342
CCV		M0354	1.05711955		1.00		105.7	%	90-110	03/11/2003	1429
CCB			0.00134327							03/11/2003	1436
MB		3050	0.01331421							03/11/2003	1440
LCS		M346	0.50396802		0.500		100.8	%	82-111	03/11/2003	1444
MS	217604-5	M346	0.47702231		0.500	-0.0250439	100.4	%	75-125	03/11/2003	1510
MSD	217604-5	M346	0.46660466	0.47702231	0.500	-0.0250439	98.3	%	75-125	03/11/2003	1514
							2.2	R	20		
PDS	217604-5	M346B	0.95964739		1.00	-0.0250439	98.5	%	75-125	03/11/2003	1519
C		M0354	1.06252692		1.00		106.3	%	90-110	03/11/2003	1523
C			0.00784601							03/11/2003	1531
PSD	217604-5	M346B	0.96738714	0.95964739	1.00	-0.0250439	99.2	%	75-125	03/11/2003	1535
							0.8	R	20		
CCV		M0354	1.05900320		1.00		105.9	%	90-110	03/11/2003	1624
CCB			0.00522847							03/11/2003	1631
MB		3050	0.01111255							03/11/2003	1635
LCS		M346	0.51423277		0.500		102.8	%	82-111	03/11/2003	1638
MS	217639-1	M346	0.49711466		0.500	0.00645382	98.1	%	75-125	03/11/2003	1656
MSD	217639-1	M346	0.48118859	0.49711466	0.500	0.00645382	94.9	%	75-125	03/11/2003	1701
							3.3	R	20		
PDS	217639-1	M346B	0.96034978		1.00	0.00645382	95.4	%	75-125	03/11/2003	1705
PSD	217639-1	M346B	0.94520331	0.96034978	1.00	0.00645382	93.9	%	75-125	03/11/2003	1710
							1.6	R	20		
CCV		M0354	1.04240504		1.00		104.2	%	90-110	03/11/2003	1723
CCB			0.00832363							03/11/2003	1731
MB		3010	0.00684450							03/11/2003	1743
LCS		M346	0.48958817		0.500		97.9	%	82-111	03/11/2003	1747
CCV		M0346	1.02119298		1.00		102.1	%	90-110	03/11/2003	1817
CCB			0.00227819							03/11/2003	1824
MS	217626-1	M346	0.49269078		0.500	-0.0025774	99.1	%	75-125	03/11/2003	1908
MSD	217626-1	M346	0.48552397	0.49269078	0.500	-0.0025774	97.6	%	75-125	03/11/2003	1912
							1.5	R	20		
CCV		M0354	1.01480054		1.00		101.5	%	90-110	03/11/2003	1916
CCB			0.00777888							03/11/2003	1924

Test Method.....: SW-846 6010B Batch.....: 78262 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AG
Parameter.....: Silver (Ag)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0343	0.99725521		1.0		99.7	%	90-110	03/11/2003	1008
		M0348	1.01520724		1.00		101.5	%	90-110	03/11/2003	1020
		M0357	0.51370348		0.50		102.7	%	90-110	03/11/2003	1028
ICB			0.00179849							03/11/2003	1031
CCV		M0354	0.53169214		0.50		106.3	%	90-110	03/11/2003	1052

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 217647 Report Date.: 03/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-005-0959 ATTN: Jenny Elste

Test Method.....: SW-846 6010B Batch.....: 78262 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AG
Parameter.....: Silver (Ag)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB			0.00009879							03/11/2003	1059
CCV		M0354	0.53483352		0.50		107.0	%	90-110	03/11/2003	1146
CCB			0.00034952							03/11/2003	1154
MB		3010	0.00019665							03/11/2003	1210
LCS		M346	0.24202795		0.25		96.8	%	87-110	03/11/2003	1214
CCV		M0354	0.52456627		0.50		104.9	%	90-110	03/11/2003	1238
CCB			0.00007635							03/11/2003	1246
CCV		M0354	0.53064132		0.50		106.1	%	90-110	03/11/2003	1334
CCB			0.00071580							03/11/2003	1342
CCV		M0354	0.53340578		0.50		106.7	%	90-110	03/11/2003	1429
CCB			0.00025973							03/11/2003	1436
MB		3050	-0.0002085							03/11/2003	1440
LCS		M346	0.26042499		0.25		104.2	%	87-110	03/11/2003	1444
MS	217604-5	M346	0.27129944		0.25	0.00241171	107.6	%	75-125	03/11/2003	1510
MSD	217604-5	M346	0.27230594	0.27129944	0.25	0.00241171	108.0	%	75-125	03/11/2003	1514
							0.4	R	20		
PDS	217604-5	M346B	0.53760851		0.50	0.00241171	107.0	%	75-125	03/11/2003	1519
CCV		M0354	0.53404603		0.50		106.8	%	90-110	03/11/2003	1523
CCB			0.00056200							03/11/2003	1531
PSD	217604-5	M346B	0.54670064	0.53760851	0.50	0.00241171	108.9	%	75-125	03/11/2003	1535
							1.7	R	20		
CCV		M0354	0.52831535		0.50		105.7	%	90-110	03/11/2003	1624
CCB			-0.0001545							03/11/2003	1631
MB		3050	-0.0000554							03/11/2003	1635
LCS		M346	0.24006864		0.25		96.0	%	87-110	03/11/2003	1638
MS	217639-1	M346	0.23481553		0.25	-0.0003405	94.1	%	75-125	03/11/2003	1656
MSD	217639-1	M346	0.22593665	0.23481553	0.25	-0.0003405	90.5	%	75-125	03/11/2003	1701
							3.9	R	20		
PDS	217639-1	M346B	0.49440618		0.50	-0.0003405	98.9	%	75-125	03/11/2003	1705
PSD	217639-1	M346B	0.50481179	0.49440618	0.50	-0.0003405	101.0	%	75-125	03/11/2003	1710
							2.1	R	20		
CCV		M0354	0.52407268		0.50		104.8	%	90-110	03/11/2003	1723
CCB			0.00020396							03/11/2003	1731
MB		3010	0.00035721							03/11/2003	1743
LCS		M346	0.23217314		0.25		92.9	%	87-110	03/11/2003	1747
CCB			0.00033341							03/11/2003	1824
MS	217626-1	M346	0.23627510		0.25	0.00023583	94.4	%	75-125	03/11/2003	1908
MSD	217626-1	M346	0.23674391	0.23627510	0.25	0.00023583	94.6	%	75-125	03/11/2003	1912
							0.2	R	20		
CCV		M0354	0.51767909		0.50		103.5	%	90-110	03/11/2003	1916
CCB			0.00064535							03/11/2003	1924

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 217647 Report Date.: 03/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-005-0959 ATTN: Jenny Elste

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank	031103			03/12/2003	2052

Test Method.....: SW-846 8270C Units.....: ug/L Analyst...: bec
Method Description.: Semivolatile Organics Batch.....: 78320

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Acenaphthene, Solid	ND						
Acenaphthylene, Solid	ND						
Aniline, Solid	ND						
Anthracene, Solid	ND						
Benzo(a)anthracene (1,2-Benzanthracene),	ND						
Benzo(b)fluoranthene, Solid	ND						
Benzo(k)fluoranthene, Solid	ND						
Benzo(ghi)perylene, Solid	ND						
Benzo(a)pyrene, Solid	ND						
Benzyl alcohol, Solid	ND						
Bis(2-chloroethoxy)methane, Solid	ND						
Bis(2-chloroethyl)ether, Solid	ND						
Bi[redacted]chloroisopropyl)ether, Solid	ND						
B[redacted]ethylhexyl)phthalate, Solid	ND						
4-Bromophenyl phenyl ether, Solid	ND						
Butyl benzyl phthalate, Solid	ND						
4-Chloroaniline, Solid	ND						
4-Chloro-3-methylphenol, Solid	ND						
2-Chloronaphthalene, Solid	ND						
2-Chlorophenol, Solid	ND						
4-Chlorophenyl phenyl ether, Solid	ND						
Chrysene, Solid	ND						
Dibenzo(ah)anthracene, Solid	ND						
Dibenzofuran, Solid	ND						
1,2-Dichlorobenzene, Solid	ND						
1,3-Dichlorobenzene, Solid	ND						
1,4-Dichlorobenzene, Solid	ND						
3,3-Dichlorobenzidine, Solid	ND						
Diethyl phthalate, Solid	ND						
Dimethyl phthalate, Solid	ND						
2,4-Dimethylphenol, Solid	ND						
Di-n-butyl phthalate, Solid	ND						
Di-n-octyl phthalate, Solid	ND						
2,4-Dichlorophenol, Solid	ND						
4,6-Dinitro-2-methylphenol, Solid	ND						
2,4-Dinitrophenol, Solid	ND						
2,4-Dinitrotoluene, Solid	ND						
2,6-Dinitrotoluene, Solid	ND						
Fluoranthene, Solid	ND						
Fluorene, Solid	ND						
Hexachlorobenzene, Solid	ND						
Hexachlorobutadiene, Solid	ND						
Hexachlorocyclopentadiene, Solid	ND						
Hexachloroethane, Solid	ND						
Indeno(123cd)pyrene, Solid	ND						
Isophorone, Solid	ND						
2[redacted]hylnaphthalene, Solid	ND						
[redacted]ylphenol (o-cresol), Solid	ND						
3 & 4 Methylphenol (m&p cresol), Solid	ND						
Naphthalene, Solid	ND						

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 217647 Report Date.: 03/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-005-0959 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank	031103			03/12/2003	2052

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
o-Nitroaniline, Solid	ND						
m-Nitroaniline, Solid	ND						
p-Nitroaniline, Solid	ND						
Nitrobenzene, Solid	ND						
2-Nitrophenol, Solid	ND						
4-Nitrophenol, Solid	ND						
n-Nitrosodi-n-propylamine, Solid	ND						
n-Nitrosodiphenylamine, Solid	ND						
Pentachlorophenol, Solid	ND						
Phenanthrene, Solid	ND						
Phenol, Solid	ND						
Pyrene, Solid	ND						
Pyridine, Solid	ND						
1,2,4-Trichlorobenzene, Solid	ND						
2,4,5-Trichlorophenol, Solid	ND						
2,4,6-Trichlorophenol, Solid	ND						

MS	Matrix Spike	EX30226A	217629-1	30.00	03/12/2003	2310

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Acenaphthene, Solid	3.40		3.333333	ND	102.0	%	68-115
4-Chloro-3-methylphenol, Solid	6.86		5.000000	ND	137.2	%	67-115
2-Chlorophenol, Solid	3.98		5.000000	ND	79.6	%	61-115
1,4-Dichlorobenzene, Solid	2.56		3.333333	ND	76.8	%	56-115
2,4-Dinitrotoluene, Solid	2.53		3.333333	ND	75.9	%	68-115
4-Nitrophenol, Solid	2.57		5.000000	ND	51.4	%	65-122
n-Nitrosodi-n-propylamine, Solid	2.56		3.333333	ND	76.8	%	60-115
Pentachlorophenol, Solid	2.43		5.000000	ND	48.6	%	68-125
Phenol, Solid	3.74		5.000000	ND	74.8	%	56-115
Pyrene, Solid	3.57		3.333333	0.56	90.3	%	66-117
1,2,4-Trichlorobenzene, Solid	2.84		3.333333	ND	85.2	%	60-115

MSD	Matrix Spike Duplicate	EX30226A	217629-1	30.00	03/12/2003	2338

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Acenaphthene, Solid	2.57	3.40	3.333333	ND	77.1	%	68-115
					27.8	R	28
4-Chloro-3-methylphenol, Solid	5.29	6.86	5.000000	ND	105.8	%	67-115
					25.8	R	37
2-Chlorophenol, Solid	2.65	3.98	5.000000	ND	53.0	%	61-115
					40.1	R	29
1,4-Dichlorobenzene, Solid	1.81	2.56	3.333333	ND	54.3	%	56-115
					34.3	R	32
2,4-Dinitrotoluene, Solid	1.87	2.53	3.333333	ND	56.1	%	68-115
					30.0	R	22
4-Nitrophenol, Solid	1.52	2.57	5.000000	ND	30.4	%	65-122
					51.3	R	47
n-Nitrosodi-n-propylamine, Solid	1.85	2.56	3.333333	ND	55.5	%	60-115
					32.2	R	55
Pentachlorophenol, Solid	1.95	2.43	5.000000	ND	39.0	%	68-125
					21.9	R	49

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 217647 Report Date.: 03/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-005-0959 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MSD	Matrix Spike Duplicate	EX30226A	217629-1	30.00	03/12/2003	2338

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Phenol, Solid	2.62	3.74	5.000000	ND	52.4	%	56-115
					35.2	R	23
Pyrene, Solid	2.74	3.57	3.333333	0.56	65.4	%	66-117
					26.3	R	25
1,2,4-Trichlorobenzene, Solid	1.97	2.84	3.333333	ND	59.1	%	60-115
					36.2	R	28

SB	Spiked Blank	EX30226A			03/12/2003 2119

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Acenaphthene, Solid	75.66		100.0		75.7	%	68-115
4-Chloro-3-methylphenol, Solid	108.25		150.0		72.2	%	67-115
2-Chlorophenol, Solid	110.95		150.0		74.0	%	61-115
1,4-Dichlorobenzene, Solid	70.08		100.0		70.1	%	56-115
2,[illegible]nitrotoluene, Solid	76.47		100.0		76.5	%	68-115
4-[illegible]phenol, Solid	114.91		150.0		76.6	%	65-122
n-Nitrosodi-n-propylamine, Solid	77.37		100.0		77.4	%	60-115
Pentachlorophenol, Solid	126.99		150.0		84.7	%	68-125
Phenol, Solid	100.19		150.0		66.8	%	56-115
Pyrene, Solid	85.03		100.0		85.0	%	66-117
1,2,4-Trichlorobenzene, Solid	70.53		100.0		70.5	%	60-115

Test Method.....: SW-846 8260B Units.....: ug/L Analyst...: krm
Method Description.: Volatile Organics Batch.....: 78323

LCS	Laboratory Control Sample	V30308A			03/13/2003 0925

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Benzene, Solid	52.13		50.000000		104.3	%	83-125
Chlorobenzene, Solid	50.61		50.000000		101.2	%	77-121
1,1-Dichloroethene (Vinylidene chloride)	49.32		50.000000		98.6	%	70-124
Toluene, Solid	47.95		50.000000		95.9	%	83-120
Trichloroethene, Solid	49.12		50.000000		98.2	%	78-120

MB	Method Blank	03132003			03/13/2003 1001

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Acetone, Solid	ND						
Acetonitrile, Solid	ND						
Acrolein, Solid	ND						
Acrylonitrile, Solid	ND						
Benzene, Solid	ND						
Bromodichloromethane, Solid	ND						
B[illegible]form (Tribromomethane), Solid	ND						
[illegible]ethane (methyl bromide), Solid	ND						
Carbon Disulfide, Solid	ND						
Carbon Tetrachloride, Solid	ND						

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 217647

Report Date.: 03/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-005-0959 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank	03132003			03/13/2003	1001

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Chlorobenzene, Solid	ND						
Chloroethane (Ethyl chloride), Solid	ND						
2-Chloroethylvinyl Ether, Solid	ND						
Chloroform, Solid	ND						
Chloromethane (methyl chloride), Solid	ND						
Dibromochloromethane, Solid	ND						
Dibromomethane, Solid	ND						
1,2-Dibromoethane (EDB), Solid	ND						
Dichlorodifluoromethane, Solid	ND						
1,1-Dichloroethane, Solid	ND						
1,2-Dichloroethane (EDC), Solid	ND						
1,1-Dichloroethene (Vinylidene chloride)	ND						
cis-1,2-Dichloroethene, Solid	ND						
trans-1,2-Dichloroethene, Solid	ND						
1,2-Dichloropropane, Solid	ND						
1,3-Dichloropropane, Solid	ND						
2,2-Dichloropropane, Solid	ND						
1,1-Dichloropropene, Solid	ND						
cis-1,3-Dichloropropene, Solid	ND						
trans-1,3-Dichloropropene, Solid	ND						
1,4-Dioxane, Solid	ND						
Ethyl Acetate, Solid	ND						
Ethylbenzene, Solid	ND						
Ethyl Ether (Diethyl Ether), Solid	ND						
Ethyl Methacrylate, Solid	ND						
2-Hexanone, Solid	ND						
Iodomethane (Methyl Iodide), Solid	ND						
Methylene Chloride (Dichloromethane), So	8.88						
Methyl Ethyl Ketone (2-Butanone), Solid	ND						
4-Methyl-2-Pentanone (MIBK), Solid	ND						
Methyl Methacrylate, Solid	ND						
tert-Butyl Methyl Ether (MTBE), Solid	ND						
2-Nitropropane, Solid	ND						
Styrene, Solid	ND						
1,1,2,2-Tetrachloroethane, Solid	ND						
Tetrachloroethene, Solid	ND						
Toluene, Solid	ND						
1,2,3-Trichlorobenzene, Solid	1.06						
1,1,1-Trichloroethane, Solid	ND						
1,1,2-Trichloroethane, Solid	ND						
Trichloroethene, Solid	ND						
Trichlorofluoromethane, Solid	ND						
1,1,2-Trichloro-1,2,2-Trifluoroethane, S	ND						
1,2,4-Trimethylbenzene, Solid	ND						
1,3,5-Trimethylbenzene, Solid	ND						
1,2,3-Trichloropropane, Solid	ND						
Vinyl Acetate, Solid	ND						
Vinyl Chloride (Chloroethene), Solid	ND						
Xylenes (total), Solid	ND						

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 217647 Report Date.: 03/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-005-0959 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MS	Matrix Spike	V30308A	217647-2	0.99	03/13/2003	1600

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Benzene, Solid	43.33		50.000000	ND	86.7	%	83-125
Chlorobenzene, Solid	39.57		50.000000	ND	79.1	%	77-121
1,1-Dichloroethene (Vinylidene chloride)	45.48		50.000000	ND	91.0	%	70-124
Toluene, Solid	40.32		50.000000	ND	80.6	%	83-120
Trichloroethene, Solid	42.37		50.000000	ND	84.7	%	78-120

MSD	Matrix Spike Duplicate	V30308A	217647-2	0.98	03/13/2003	1640

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Benzene, Solid	45.73	43.33	50.000000	ND	91.5	%	83-125
					5.4	R	20
Chlorobenzene, Solid	41.11	39.57	50.000000	ND	82.2	%	77-121
					3.8	R	20
1,1-Dichloroethene (Vinylidene chloride)	47.84	45.48	50.000000	ND	95.7	%	70-124
					5.1	R	20
To[redacted], Solid	54.15	40.32	50.000000	ND	108.3	%	83-120
					29.3	R	20
Trichloroethene, Solid	44.40	42.37	50.000000	ND	88.8	%	78-120
					4.7	R	20

Test Method.....: TCEQ TX1005 Units.....: mg/L Analyst...: rgc
Method Description.: Total Petroleum Hydrocarbons Batch.....: 78340

LCD	Laboratory Control Sample Duplicate	TE30206A			03/12/2003	1038

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
TPH (C6 to C35), Solid	206	230	250.000000		82.4	%	70-128
					11.0	R	20

LCS	Laboratory Control Sample	TE30206A			03/12/2003	0949

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
TPH (C6 to C35), Solid	230		250.000000		92.0	%	70-128

MB	Method Blank	03/11/03			03/12/2003	0859

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Petroleum Hydrocarbons (C6 to C12), Soli	ND						
Petroleum Hydrocarbons (>C12 to C28), So	ND						
Petroleum Hydrocarbons (>C28 to C35), So	ND						
TPH (C6 to C35), Solid	ND						

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 217647 Report Date.: 03/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-005-0959 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MS	Matrix Spike	TE30206A	217599-1		03/12/2003	1217

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
TPH (C6 to C35), Solid	230		250.000000	ND	92.0	%	70-128

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MSD	Matrix Spike Duplicate	TE30206A	217599-1		03/12/2003	1307

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
TPH (C6 to C35), Solid	244	230	250.000000	ND	97.6	%	70-128
					5.9	R	20

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

SURROGATE RECOVERIES REPORT

Job Number.: 217647 Report Date.: 03/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-005-0959 ATTN: Jenny Elste

Method.....: Semivolatile Organics Method Code.....: 8270CC
Batch.....: 78320 Analyst.....: bec Equipment Code: SVOC GC/MS #2

Surrogate	Units
2,4,6-Tribromophenol	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	Solid	MB	1.00	111.51	150	74	53-124		03/12/2003	2052
	Solid	SB	1.00	116.95	150	78	53-124		03/12/2003	2119
217647-1	Solid		1.00	115.28	150	77	53-124		03/12/2003	2147
217647-3	Solid		1.00	95.38	150	64	53-124		03/12/2003	2215
217629-1	Solid		30.00	3.41	150	68	53-124		03/12/2003	2242
217629-1	Solid	MS	30.00	3.41	150	68	53-124		03/12/2003	2310
217629-1	Solid	MSD	30.00	2.96	150	59	53-124		03/12/2003	2338
217639-7	Solid		30.00	3.92	150	78	53-124		03/13/2003	0005

Surrogate	Units
2-Fluorobiphenyl	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	Solid	MB	1.00	71.27	100	71	41-115		03/12/2003	2052
	Solid	SB	1.00	69.86	100	70	41-115		03/12/2003	2119
217647-1	Solid		1.00	66.63	100	67	41-115		03/12/2003	2147
217647-3	Solid		1.00	62.61	100	63	41-115		03/12/2003	2215
217629-1	Solid		30.00	2.49	100	75	41-115		03/12/2003	2242
217629-1	Solid	MS	30.00	2.60	100	78	41-115		03/12/2003	2310
217629-1	Solid	MSD	30.00	1.95	100	58	41-115		03/12/2003	2338
217639-7	Solid		30.00	2.72	100	82	41-115		03/13/2003	0005

Surrogate	Units
2-Fluorophenol	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	Solid	MB	1.00	96.56	150	64	31-115		03/12/2003	2052
	Solid	SB	1.00	96.64	150	64	31-115		03/12/2003	2119
217647-1	Solid		1.00	95.59	150	64	31-115		03/12/2003	2147
217647-3	Solid		1.00	85.53	150	57	31-115		03/12/2003	2215
217629-1	Solid		30.00	2.56	150	51	31-115		03/12/2003	2242
217629-1	Solid	MS	30.00	2.80	150	56	31-115		03/12/2003	2310
217629-1	Solid	MSD	30.00	1.97	150	39	31-115		03/12/2003	2338
217639-7	Solid		30.00	3.16	150	63	31-115		03/13/2003	0005

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SEVERN TRENT STL

SURROGATE RECOVERIES REPORT

Job Number.: 217647 Report Date.: 03/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-005-0959 ATTN: Jenny Elste

Surrogate	Units
Nitrobenzene-d5	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	Solid	MB	1.00	64.88	100	65	39-115		03/12/2003	2052
	Solid	SB	1.00	63.68	100	64	39-115		03/12/2003	2119
217647-1	Solid		1.00	63.86	100	64	39-115		03/12/2003	2147
217647-3	Solid		1.00	58.30	100	58	39-115		03/12/2003	2215
217629-1	Solid		30.00	2.06	100	62	39-115		03/12/2003	2242
217629-1	Solid	MS	30.00	2.19	100	66	39-115		03/12/2003	2310
217629-1	Solid	MSD	30.00	1.55	100	46	39-115		03/12/2003	2338
217639-7	Solid		30.00	2.29	100	69	39-115		03/13/2003	0005

Surrogate	Units
Phenol-d5	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	Solid	MB	1.00	93.33	150	62	40-115		03/12/2003	2052
	Solid	SB	1.00	97.92	150	65	40-115		03/12/2003	2119
217647-1	Solid		1.00	97.25	150	65	40-115		03/12/2003	2147
217647-3	Solid		1.00	90.40	150	60	40-115		03/12/2003	2215
217629-1	Solid		30.00	3.39	150	68	40-115		03/12/2003	2242
217629-1	Solid	MS	30.00	3.73	150	75	40-115		03/12/2003	2310
217629-1	Solid	MSD	30.00	2.57	150	51	40-115		03/12/2003	2338
217639-7	Solid		30.00	3.42	150	68	40-115		03/13/2003	0005

Surrogate	Units
Terphenyl-d14	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	Solid	MB	1.00	72.69	100	73	55-115		03/12/2003	2052
	Solid	SB	1.00	76.50	100	76	55-115		03/12/2003	2119
217647-1	Solid		1.00	74.58	100	75	55-115		03/12/2003	2147
217647-3	Solid		1.00	73.19	100	73	55-115		03/12/2003	2215
217629-1	Solid		30.00	1.90	100	57	55-115		03/12/2003	2242
217629-1	Solid	MS	30.00	2.56	100	77	55-115		03/12/2003	2310
217629-1	Solid	MSD	30.00	2.03	100	61	55-115		03/12/2003	2338
217639-7	Solid		30.00	2.70	100	81	55-115		03/13/2003	0005

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SEVERN TRENT STL

SURROGATE RECOVERIES REPORT

Job Number.: 217647 Report Date.: 03/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-005-0959 ATTN: Jenny Elste

Method.....: Volatile Organics Method Code.....: 8260CC
Batch.....: 78323 Analyst.....: krm Equipment Code: VOC GC/MS #2

Surrogate	Units
1,2-Dichloroethane-d4	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	Solid	LCS	1.00	49.02	50.00000	98.0	69-132		03/13/2003	0925
	Solid	MB	1.00	50.06	50.00000	100.1	69-132		03/13/2003	1001
217647-2	Solid		1.00	52.66	50.00000	105.3	69-132		03/13/2003	1037
217486-1	Solid		3.07	50.58	50.00000	101.2	69-132		03/13/2003	1304
217647-4	Solid		1.00	40.54	50.00000	81.1	69-132		03/13/2003	1449
217647-2	Solid	MS	0.99	44.64	50.00000	89.3	69-132		03/13/2003	1600
217647-2	Solid	MSD	0.98	55.30	50.00000	110.6	69-132		03/13/2003	1640

Surrogate	Units
4-Bromofluorobenzene	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	Solid	LCS	1.00	48.26	50.00000	96.5	51-139		03/13/2003	0925
	Solid	MB	1.00	51.16	50.00000	102.3	51-139		03/13/2003	1001
217647-2	Solid		1.00	44.03	50.00000	88.1	51-139		03/13/2003	1037
217486-1	Solid		3.07	42.79	50.00000	85.6	51-139		03/13/2003	1304
217647-4	Solid		1.00	35.12	50.00000	70.2	51-139		03/13/2003	1449
217647-2	Solid	MS	0.99	39.01	50.00000	78.0	51-139		03/13/2003	1600
217647-2	Solid	MSD	0.98	40.55	50.00000	81.1	51-139		03/13/2003	1640

Surrogate	Units
Dibromofluoromethane	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	Solid	LCS	1.00	48.21	50.00000	96.4	66-135		03/13/2003	0925
	Solid	MB	1.00	49.64	50.00000	99.3	66-135		03/13/2003	1001
217647-2	Solid		1.00	42.68	50.00000	85.4	66-135		03/13/2003	1037
217486-1	Solid		3.07	47.81	50.00000	95.6	66-135		03/13/2003	1304
217647-4	Solid		1.00	42.66	50.00000	85.3	66-135		03/13/2003	1449
217647-2	Solid	MS	0.99	45.95	50.00000	91.9	66-135		03/13/2003	1600
217647-2	Solid	MSD	0.98	43.88	50.00000	87.8	66-135		03/13/2003	1640

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SEVERN TRENT STL

SURROGATE RECOVERIES REPORT

Job Number.: 217647 Report Date.: 03/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-005-0959 ATTN: Jenny Elste

Surrogate	Units
Toluene-d8	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	Solid	LCS	1.00	47.49	50.00000	95.0	63-136		03/13/2003	0925
	Solid	MB	1.00	49.95	50.00000	99.9	63-136		03/13/2003	1001
217647-2	Solid		1.00	46.22	50.00000	92.4	63-136		03/13/2003	1037
217486-1	Solid		3.07	40.95	50.00000	81.9	63-136		03/13/2003	1304
217647-4	Solid		1.00	36.48	50.00000	73.0	63-136		03/13/2003	1449
217647-2	Solid	MS	0.99	40.98	50.00000	82.0	63-136		03/13/2003	1600
217647-2	Solid	MSD	0.98	54.77	50.00000	109.5	63-136		03/13/2003	1640

Method.....: Total Petroleum Hydrocarbons Method Code.....: TX1005
Batch.....: 78340 Analyst.....: rgc Equipment Code:

Surrogate	Units
Nitrobenzene-d5	mg/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	Solid	MB		107.0	100	107	10-150		03/12/2003	0859
	Solid	LCS		108.0	100	108	10-150		03/12/2003	0949
	Solid	LCD		100.1	100	100	10-150		03/12/2003	1038
217599-1	Solid			90.2	100	90	10-150		03/12/2003	1128
217599-1	Solid	MS		81.9	100	82	10-150		03/12/2003	1217
217599-1	Solid	MSD		91.5	100	92	10-150		03/12/2003	1307
217599-2	Solid			87.6	100	88	10-150		03/12/2003	1356
217599-3	Solid			95.3	100	95	10-150		03/12/2003	1446
217599-4	Solid			94.2	100	94	10-150		03/12/2003	1535
217636-1	Solid			98.4	100	98	10-150		03/12/2003	1625
217636-2	Solid			95.8	100	96	10-150		03/12/2003	1714
217636-3	Solid			96.0	100	96	10-150		03/12/2003	1804
217637-1	Solid			92.2	100	92	10-150		03/12/2003	1854
217637-2	Solid			97.6	100	98	10-150		03/12/2003	1943
217637-3	Solid			98.3	100	98	10-150		03/12/2003	2033
217641-2	Solid		10	11.1	100	111	10-150		03/12/2003	2122
217641-4	Solid			68.0	100	68	10-150		03/12/2003	2212
217641-5	Solid			65.0	100	65	10-150		03/12/2003	2301
217641-9	Solid			86.4	100	86	10-150		03/12/2003	2351
217641-10	Solid			78.1	100	78	10-150		03/13/2003	0040
217641-12	Solid			78.2	100	78	10-150		03/13/2003	0130
217641-14	Solid			75.0	100	75	10-150		03/13/2003	0219
217641-16	Solid			77.0	100	77	10-150		03/13/2003	0309
217647-1	Solid			96.6	100	97	10-150		03/13/2003	0358
217647-3	Solid			89.9	100	90	10-150		03/13/2003	0448

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SEVERN TRENT STL

SURROGATE RECOVERIES REPORT

Job Number.: 217647 Report Date.: 03/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-005-0959 ATTN: Jenny Elste

Surrogate	Units
o-Terphenyl (Surrogate)	mg/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	Solid	MB		106.6	100	107	74-147		03/12/2003	0859
	Solid	LCS		104.7	100	105	74-147		03/12/2003	0949
	Solid	LCD		96.5	100	96	74-147		03/12/2003	1038
217599-1	Solid			98.5	100	98	74-147		03/12/2003	1128
217599-1	Solid	MS		100.4	100	100	74-147		03/12/2003	1217
217599-1	Solid	MSD		107.9	100	108	74-147		03/12/2003	1307
217599-2	Solid			107.2	100	107	74-147		03/12/2003	1356
217599-3	Solid			101.8	100	102	74-147		03/12/2003	1446
217599-4	Solid			100.7	100	101	74-147		03/12/2003	1535
217636-1	Solid			102.8	100	103	74-147		03/12/2003	1625
217636-2	Solid			98.7	100	99	74-147		03/12/2003	1714
217636-3	Solid			99.9	100	100	74-147		03/12/2003	1804
217637-1	Solid			109.3	100	109	74-147		03/12/2003	1854
217637-2	Solid			104.2	100	104	74-147		03/12/2003	1943
217637-3	Solid			106.6	100	107	74-147		03/12/2003	2033
217641-2	Solid		10	12.4	100	124	74-147		03/12/2003	2122
217641-4	Solid			98.5	100	98	74-147		03/12/2003	2212
217641-5	Solid			95.5	100	96	74-147		03/12/2003	2301
217641-9	Solid			107.9	100	108	74-147		03/12/2003	2351
217641-10	Solid			100.4	100	100	74-147		03/13/2003	0040
217641-12	Solid			97.0	100	97	74-147		03/13/2003	0130
217641-14	Solid			99.8	100	100	74-147		03/13/2003	0219
217641-16	Solid			97.5	100	98	74-147		03/13/2003	0309
217647-1	Solid			102.6	100	103	74-147		03/13/2003	0358
217647-3	Solid			102.9	100	103	74-147		03/13/2003	0448

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SEVERN TRENT STL

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 03/18/2003

(1) EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983
(2) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, September 1986, and Updates I, II, IIA, IIB, and III
(3) Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
(4) Methods of Organic Chemical Analysis of Municipal and Industrial Wastewater, Federal Register, Vol. 49, No. 209, October 1984 and 40 CFR Part 136 amendments
(5) EPA 600/2-78-054, Field and Laboratory Methods Applicable to Overburdens and Minesoils
(6) Methods of Soil Analysis, American Society of Agronomy, Agronomy No. 9, 1965
(7) ASTM, Section 11 Water and Environmental Technology, Volume 11.01 Water (1), 1991
(8) American Society for Testing and Materials, Petroleum Products, Lubricants, and Fossil Fuels, Section 5, Volumes 05.01 - 05.05
(9) Hach Handbook of Water Analysis, 1979

Comments:
Data in the QC report may differ from final results due to digestion and/or dilution of sample into analytical ranges. The "Time Analyzed" may not be the actual time of analysis. The "Date Analyzed" is the actual date of analysis. Sludge samples are reported on a wet weight basis (i.e., not corrected for percent moisture) unless otherwise indicated.

Quality Control acceptance criteria are based either on limits specified in the referenced method or on actual laboratory performance.

All data is reported on sample "as received" unless noted.

Sample IDs with a "-00" at the end indicate a blank spike or blank spike duplicate associated with the numbered sample.

SAMPLE RESULT IDENTIFICATION

ND	= Not detected at a value greater than the reporting limit
TNTC	= Too numerous to count

BLANK QC SAMPLE IDENTIFICATION

MB	Method Blank
ICB	Initial Calibration Blank
CCB	Continuing Calibration Blank

SPIKE QC SAMPLE IDENTIFICATION

MS	Method (Matrix) Spike
MSD	Method (Matrix) Spike Duplicate
PDS	Post Digestion/Distillation Spike
SB	Spiked Blank
SBD	Spiked Blank Duplicate

REFERENCE STANDARD QC SAMPLE IDENTIFICATION

LCS	Laboratory Control Standard
RS	Reference Standard
ICV	Initial Calibration Verification Standard
CCV	Continuing Calibration Verification Standard
ISA/ISB	ICP Interference Check Sample
DSC	Distilled Standard Check

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SEVERN TRENT STL

QUALITY ASSURANCE METHODS
REFERENCES AND NOTES
Report Date: 03/18/2003

DUPLICATE QC SAMPLE IDENTIFICATION

MD	Method (Matrix) Duplicate
ED	Extraction Duplicate
DD	Digestion Duplicate
PDD	Post Digestion Duplicate
PSD	Post Digestion/Distillation Spike Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "technician" using the following codes:

SUBCONTRACT LABORATORIES

Severn Trent Laboratories:

Los Angeles, CA	*la	Houston, TX	*he
Aurora, CO	*au	North Canton, OH	*nc
Tampa, FL	*ta	Valparaiso, IN	*vp
Sacramento, CA	*sa	Chicago, IL	*ch
Pensacola, FL	*pe		

Other:

Client provided data	*cp	Non-STL Subcontract Lab	*xx

EXPLANATION OF DATA FLAGS

B - This flag is used to indicate that an analyte is present the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.
D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.
E - Indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.
I - Used to indicate matrix interference.
X - Indicates that a surrogate recovery is outside the specified quality control limits.
Y - Used to identify a spike or spike duplicate recovery is outside the specified quality control limits.
* - Indicates a relative percent difference for a duplicate analysis is outside the specified quality control limits.
` - Used to indicate that a standard is outside specified quality control limits.

EXPLANATION OF DATA QUALIFIERS

B - Indicates that a value for an inorganic analysis is an estimate. It is used when a compound is determined to be present but at a concentration less than the quantitation limit of the method.
J - Indicates that a value for an organic analysis is an estimate. It is used when a compound is determined to be present based on chromatographic pattern or mass spectral data, but at a concentration less than the quantitation limit of the method. This flag is also used when estimating the concentration of a tentatively identified compound.
U - Indicates that a value is less than the MDL or was not detected.

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SEVERN TRENT SERVICES

SEVERN TRENT LABORATORIES

No. 14450

CHAIN OF CUSTODY RECORD

0.5°C Custody seal intact

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: ENTACT	PROJECT NAME/NUMBER: RSR-005-0959
SEND REPORT TO: Jenny Elste	**BILLING INFORMATION**
ADDRESS: 4040 W. Royal Ln #136	BILL TO: ENTACT
Irving, TX 75063	ADDRESS: 4040 W. Royal Ln
	Irving TX 75063
PHONE: 972-580-1323	PHONE: 972-580-1323
FAX: 972-550-7464	FAX: 972-550-7464 PO NO.:

LAB JOB NO. 217647

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: RCRA8 total + Pb dissolved	SVOC	VOC + TPH-1005	REMARKS/PRECAUTIONS
BF-001	Backfill/Clay Source	3/10/03	11:40 am	Soil	8oz	ICE	1	X	X		0-12' yellow/Grey
BF-001	Backfill/Clay Source	3/10/03	11:45 am	Soil	8oz	ICE	1			X	0-12' yellow/Grey
BF-002	Backfill/Clay Source	3/10/03	11:50 am	Soil	8oz	ICE	1	X	X		12'-25' Grey
BF-002	Backfill/Clay Source	3/10/03	11:55 am	Soil	8oz	ICE	1			X	12'-25' Grey

SAMPLER: Pat McDonald

SHIPMENT METHOD:

AIRBILL NO.:

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☑ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☐ OTHER

1. RELINQUISHED BY: Patrick McDonald	DATE	2. RELINQUISHED BY:	DATE		DATE
SIGNATURE:	3/10/03	SIGNATURE: Lisa R. Monroe	3/10/03	SIGNATURE: FedEx	
PRINTED NAME/COMPANY: ENTACT	TIME 2:07 pm	PRINTED NAME/COMPANY: LISA R. MONROE	TIME 5:57 PM	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE		DATE
SIGNATURE: Lisa R. Monroe	3/10/03	SIGNATURE: FedEx		SIGNATURE:	3/11/03
PRINTED NAME/COMPANY: LISA R. MONROE	TIME 2:07 PM	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: STL-C	TIME 0920

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

FedEx # 833548363601

SEVERN TRENT LABORATORIES
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 Fax (361) 289-2471

rpjsckl	Job Sample Receipt Checklist Report	V2

Job Number.: 217647 Location.: 57203 Check List Number.: 1 Description.:
Customer Job ID.....: Job Check List Date.: Date of the Report..: 03/11/2003
Project Number.: 98000203 Project Description.: Project-EAB Project Manager.....: eab
Customer.....: Entact, Inc. Contact.: Jenny Elste

Questions ?	(Y/N)	Comments
How did samples arrive?	Y	FED EX DELIVERED
Chain-of-Custody Present?	Y	
Custody seal on shipping container?	Y	
...If "yes", custody seal intact?	Y	
Custody seals on sample containers?	N	
...If "yes", custody seal intact?		
Samples chilled?	Y	
Temperature blank in cooler?	Y	
Temp of cooler acceptable? (0.05 to 6.00 deg C)	Y	0.5 DEGREES C
Samples received intact (good condition)?	Y	
Volatile samples acceptable? (no headspace)		N/A
Correct containers used?	Y	
Adequate sample volume provided?	Y	
Samples preserved correctly?	Y	
Samples received within holding-time?	Y	
Agreement between COC and sample labels?	Y	
Additional		
Comments		
Sample Custodian Signature		3-11-03

SEVERN TRENT STL

DOC. NO. 43.2

ANALYTICAL REPORT

JOB NUMBER: 220328

Prepared For:

Entact, Inc.
4040 W. Royal Lane
Suite 136
Irving, TX 75063

Attention: Jenny Elste

Date: 08/27/2003

Signature

8/28/03
Date

Name: Chip Meador

Title: Laboratory Director

E-Mail: cmeador@stl-inc.com

Severn Trent Laboratories
1733 N. Padre Island Drive
Corpus Christi, TX 78408

PHONE: 361/289-2673
FAX..: 361/289-2471

TOTAL # OF PAGES 37

SEVERN TRENT STL

CASE NARRATIVE

Job Number 220328

August 27, 2003

Semivolatile Organics Analysis

Sample 220328-1 was analyzed for semivolatile organics using EPA Method 8270C. The percent recovery result for 2, 4-dinitrophenol in the matrix spike associated with this sample was below the default QC limits. No laboratory control chart limits have been established for this compound. The associated LCS was within acceptable limits and it appears the out of control datum is due to the sample matrix. The data is therefore reported.

Volatile Organics Analysis

Sample 220328-1 was analyzed for volatile organics using EPA Method 8260B. The percent recovery results for some of the spiked compounds in the matrix spikes associated with this sample were below the acceptance criteria but within the EPA limits. In addition, the percent recovery result for methylene chloride in the associated LCS was above the default QC limits. No laboratory control chart limits have been established for this compound. Methylene chloride was detected in the sample at a concentration above the reporting limit. Methylene chloride was also detected in the associated method blank at a concentration of 36.7ug/Kg. However, this concentration is below the reporting limit.

Please call if you have any questions regarding this report or if we can be of further assistance.

Anh Tran
QA Assistant

SEVERN TRENT STL

SAMPLE INFORMATION
Date: 08/27/2003

Job Number.: 220328
Customer...: Entact, Inc.
Attn.....: Jenny Elste

Project Number.....: 98000203
Customer Project ID....: RSR 0U5 3D959
Project Description....: Project-EAB

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
220328-1	TS-001	Soil	08/18/2003	14:45	08/19/2003	09:10

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220328 Date: 08/27/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN: Jenny Elste

Customer Sample ID: TS-001
Date Sampled.....: 08/18/2003
Time Sampled.....: 14:45
Sample Matrix.....: Soil

Laboratory Sample ID: 220328-1
Date Received.....: 08/19/2003
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 7471A	Mercury (Hg), Solid	<0.1	0.1	mg/Kg	08/20/03	dev
SM 2540G	% Solids (@ 104 deg. C)	84.3	0.1	%	08/19/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	15.7	0.1	%	08/19/03	hmz
SW-846 6010B	Arsenic (As), Solid	2	1	mg/Kg	08/21/03	jem
SW-846 6010B	Barium (Ba), Solid	83	1	mg/Kg	08/21/03	jem
SW-846 6010B	Cadmium (Cd), Solid	<1	1	mg/Kg	08/21/03	jem
SW-846 6010B	Chromium (Cr), Solid	11	1	mg/Kg	08/21/03	jem
SW-846 6010B	Lead (Pb), Solid	8	1	mg/Kg	08/21/03	jem
SW-846 6010B	Selenium (Se), Solid	4	1	mg/Kg	08/21/03	jem
SW-846 6010B	Silver (Ag), Solid	<1	1	mg/Kg	08/21/03	jem
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/19/03	ac
SW-846 3550B	Extraction (Ultrasonic) SVOCs					
	Ultrasonic Extraction	Complete			08/19/03	dml
SW-846 8270C	Semivolatile Organics					
	Acenaphthene, Solid	ND	330	ug/Kg	08/20/03	bec
	Acenaphthylene, Solid	ND	330	ug/Kg	08/20/03	bec
	Aniline, Solid	ND	660	ug/Kg	08/20/03	bec
	Anthracene, Solid	ND	330	ug/Kg	08/20/03	bec
	Benzo(a)anthracene (1,2-Benzanthracene), Solid	ND	330	ug/Kg	08/20/03	bec
	Benzo(b)fluoranthene, Solid	ND	330	ug/Kg	08/20/03	bec
	Benzo(k)fluoranthene, Solid	ND	330	ug/Kg	08/20/03	bec
	Benzo(ghi)perylene, Solid	ND	330	ug/Kg	08/20/03	bec
	Benzo(a)pyrene, Solid	ND	330	ug/Kg	08/20/03	bec
	Benzyl alcohol, Solid	ND	660	ug/Kg	08/20/03	bec
	Bis(2-chloroethoxy)methane, Solid	ND	330	ug/Kg	08/20/03	bec
	Bis(2-chloroethyl)ether, Solid	ND	330	ug/Kg	08/20/03	bec
	Bis(2-chloroisopropyl)ether, Solid	ND	330	ug/Kg	08/20/03	bec
	Bis(2-ethylhexyl)phthalate, Solid	ND	330	ug/Kg	08/20/03	bec
	4-Bromophenyl phenyl ether, Solid	ND	330	ug/Kg	08/20/03	bec
	Butyl benzyl phthalate, Solid	ND	330	ug/Kg	08/20/03	bec
	4-Chloroaniline, Solid	ND	660	ug/Kg	08/20/03	bec
	4-Chloro-3-methylphenol, Solid	ND	660	ug/Kg	08/20/03	bec
	2-Chloronaphthalene, Solid	ND	330	ug/Kg	08/20/03	bec
	2-Chlorophenol, Solid	ND	330	ug/Kg	08/20/03	bec
	4-Chlorophenyl phenyl ether, Solid	ND	330	ug/Kg	08/20/03	bec
	Chrysene, Solid	ND	330	ug/Kg	08/20/03	bec

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220328 Date: 08/27/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN: Jenny Elste

Customer Sample ID: TS-001
Date Sampled.....: 08/18/2003
Time Sampled.....: 14:45
Sample Matrix.....: Soil

Laboratory Sample ID: 220328-1
Date Received.....: 08/19/2003
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
	Dibenzo(ah)anthracene, Solid	ND	330	ug/Kg	08/20/03	bec
	Dibenzofuran, Solid	ND	330	ug/Kg	08/20/03	bec
	1,2-Dichlorobenzene, Solid	ND	330	ug/Kg	08/20/03	bec
	1,3-Dichlorobenzene, Solid	ND	330	ug/Kg	08/20/03	bec
	1,4-Dichlorobenzene, Solid	ND	330	ug/Kg	08/20/03	bec
	3,3-Dichlorobenzidine, Solid	ND	660	ug/Kg	08/20/03	bec
	Diethyl phthalate, Solid	ND	330	ug/Kg	08/20/03	bec
	Dimethyl phthalate, Solid	ND	330	ug/Kg	08/20/03	bec
	2,4-Dimethylphenol, Solid	ND	330	ug/Kg	08/20/03	bec
	Di-n-butyl phthalate, Solid	ND	330	ug/Kg	08/20/03	bec
	Di-n-octyl phthalate, Solid	ND	330	ug/Kg	08/20/03	bec
	2,4-Dichlorophenol, Solid	ND	330	ug/Kg	08/20/03	bec
	4,6-Dinitro-2-methylphenol, Solid	ND	1665	ug/Kg	08/20/03	bec
	2,4-Dinitrophenol, Solid	ND	1665	ug/Kg	08/20/03	bec
	2,4-Dinitrotoluene, Solid	ND	330	ug/Kg	08/20/03	bec
	2,6-Dinitrotoluene, Solid	ND	330	ug/Kg	08/20/03	bec
	Fluoranthene, Solid	ND	330	ug/Kg	08/20/03	bec
	Fluorene, Solid	ND	330	ug/Kg	08/20/03	bec
	Hexachlorobenzene, Solid	ND	330	ug/Kg	08/20/03	bec
	Hexachlorobutadiene, Solid	ND	330	ug/Kg	08/20/03	bec
	Hexachlorocyclopentadiene, Solid	ND	330	ug/Kg	08/20/03	bec
	Hexachloroethane, Solid	ND	330	ug/Kg	08/20/03	bec
	Indeno(123cd)pyrene, Solid	ND	330	ug/Kg	08/20/03	bec
	Isophorone, Solid	ND	330	ug/Kg	08/20/03	bec
	2-Methylnaphthalene, Solid	ND	330	ug/Kg	08/20/03	bec
	2-Methylphenol (o-cresol), Solid	ND	330	ug/Kg	08/20/03	bec
	3 & 4 Methylphenol (m&p cresol), Solid	ND	330	ug/Kg	08/20/03	bec
	Naphthalene, Solid	ND	330	ug/Kg	08/20/03	bec
	o-Nitroaniline, Solid	ND	1665	ug/Kg	08/20/03	bec
	m-Nitroaniline, Solid	ND	1665	ug/Kg	08/20/03	bec
	p-Nitroaniline, Solid	ND	660	ug/Kg	08/20/03	bec
	Nitrobenzene, Solid	ND	330	ug/Kg	08/20/03	bec
	2-Nitrophenol, Solid	ND	330	ug/Kg	08/20/03	bec
	4-Nitrophenol, Solid	ND	1665	ug/Kg	08/20/03	bec
	n-Nitrosodi-n-propylamine, Solid	ND	330	ug/Kg	08/20/03	bec
	n-Nitrosodiphenylamine, Solid	ND	330	ug/Kg	08/20/03	bec
	Pentachlorophenol, Solid	ND	1665	ug/Kg	08/20/03	bec
	Phenanthrene, Solid	ND	330	ug/Kg	08/20/03	bec
	Phenol, Solid	ND	330	ug/Kg	08/20/03	bec
	Pyrene, Solid	ND	330	ug/Kg	08/20/03	bec
	Pyridine, Solid	ND	330	ug/Kg	08/20/03	bec
	1,2,4-Trichlorobenzene, Solid	ND	330	ug/Kg	08/20/03	bec
	2,4,5-Trichlorophenol, Solid	ND	330	ug/Kg	08/20/03	bec
	2,4,6-Trichlorophenol, Solid	ND	330	ug/Kg	08/20/03	bec
SW-846 8260B	Volatile Organics					
	Acetone, Solid	ND	100	ug/Kg	08/21/03	krm
	Acetonitrile, Solid	ND	50	ug/Kg	08/21/03	krm
	Acrolein, Solid	ND	50	ug/Kg	08/21/03	krm

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220328 Date: 08/27/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN: Jenny Elste

Customer Sample ID: TS-001
Date Sampled.....: 08/18/2003
Time Sampled.....: 14:45
Sample Matrix.....: Soil

Laboratory Sample ID: 220328-1
Date Received.....: 08/19/2003
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
	Acrylonitrile, Solid	ND	20	ug/Kg	08/21/03	krm
	Benzene, Solid	ND	5	ug/Kg	08/21/03	krm
	Bromodichloromethane, Solid	ND	5	ug/Kg	08/21/03	krm
	Bromoform (Tribromomethane), Solid	ND	5	ug/Kg	08/21/03	krm
	Bromomethane (methyl bromide), Solid	ND	5	ug/Kg	08/21/03	krm
	Carbon Disulfide, Solid	ND	5	ug/Kg	08/21/03	krm
	Carbon Tetrachloride, Solid	ND	5	ug/Kg	08/21/03	krm
	Chlorobenzene, Solid	ND	5	ug/Kg	08/21/03	krm
	Chloroethane (Ethyl chloride), Solid	ND	5	ug/Kg	08/21/03	krm
	2-Chloroethylvinyl Ether, Solid	ND	5	ug/Kg	08/21/03	krm
	Chloroform, Solid	ND	5	ug/Kg	08/21/03	krm
	Chloromethane (methyl chloride), Solid	ND	5	ug/Kg	08/21/03	krm
	Dibromochloromethane, Solid	ND	5	ug/Kg	08/21/03	krm
	Dibromomethane, Solid	ND	5	ug/Kg	08/21/03	krm
	1,2-Dibromoethane (EDB), Solid	ND	5	ug/Kg	08/21/03	krm
	Dichlorodifluoromethane, Solid	ND	5	ug/Kg	08/21/03	krm
	1,1-Dichloroethane, Solid	ND	5	ug/Kg	08/21/03	krm
	1,2-Dichloroethane (EDC), Solid	ND	5	ug/Kg	08/21/03	krm
	1,1-Dichloroethene (Vinylidene chloride), Solid	ND	5	ug/Kg	08/21/03	krm
	cis-1,2-Dichloroethene, Solid	ND	5	ug/Kg	08/21/03	krm
	trans-1,2-Dichloroethene, Solid	ND	5	ug/Kg	08/21/03	krm
	1,2-Dichloropropane, Solid	ND	5	ug/Kg	08/21/03	krm
	1,3-Dichloropropane, Solid	ND	5	ug/Kg	08/21/03	krm
	2,2-Dichloropropane, Solid	ND	5	ug/Kg	08/21/03	krm
	1,1-Dichloropropene, Solid	ND	5	ug/Kg	08/21/03	krm
	cis-1,3-Dichloropropene, Solid	ND	5	ug/Kg	08/21/03	krm
	trans-1,3-Dichloropropene, Solid	ND	5	ug/Kg	08/21/03	krm
	1,4-Dioxane, Solid	ND	100	ug/Kg	08/21/03	krm
	Ethyl Acetate, Solid	ND	5	ug/Kg	08/21/03	krm
	Ethylbenzene, Solid	ND	5	ug/Kg	08/21/03	krm
	Ethyl Ether (Diethyl Ether), Solid	ND	5	ug/Kg	08/21/03	krm
	Ethyl Methacrylate, Solid	ND	5	ug/Kg	08/21/03	krm
	2-Hexanone, Solid	ND	5	ug/Kg	08/21/03	krm
	Iodomethane (Methyl Iodide), Solid	ND	5	ug/Kg	08/21/03	krm
	Methylene Chloride (Dichloromethane), Solid	59	50	ug/Kg	08/21/03	krm
	Methyl Ethyl Ketone (2-Butanone), Solid	ND	10	ug/Kg	08/21/03	krm
	4-Methyl-2-Pentanone (MIBK), Solid	ND	5	ug/Kg	08/21/03	krm
	Methyl Methacrylate, Solid	ND	5	ug/Kg	08/21/03	krm
	tert-Butyl Methyl Ether (MTBE), Solid	ND	5	ug/Kg	08/21/03	krm
	2-Nitropropane, Solid	ND	5	ug/Kg	08/21/03	krm
	Styrene, Solid	ND	5	ug/Kg	08/21/03	krm
	1,1,2,2-Tetrachloroethane, Solid	ND	5	ug/Kg	08/21/03	krm
	Tetrachloroethene, Solid	ND	5	ug/Kg	08/21/03	krm
	Toluene, Solid	ND	5	ug/Kg	08/21/03	krm
	1,2,3-Trichlorobenzene, Solid	ND	5	ug/Kg	08/21/03	krm
	1,1,1-Trichloroethane, Solid	ND	5	ug/Kg	08/21/03	krm
	1,1,2-Trichloroethane, Solid	ND	5	ug/Kg	08/21/03	krm
	Trichloroethene, Solid	ND	5	ug/Kg	08/21/03	krm
	Trichlorofluoromethane, Solid	ND	5	ug/Kg	08/21/03	krm

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220328 Date: 08/27/2003

CUSTOMER: Entact, Inc. PROJECT: RSR 0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: TS-001
Date Sampled.....: 08/18/2003
Time Sampled.....: 14:45
Sample Matrix.....: Soil

Laboratory Sample ID: 220328-1
Date Received.....: 08/19/2003
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
	1,1,2-Trichloro-1,2,2-Trifluoroethane, Solid	ND	50	ug/Kg	08/21/03	krm
	1,2,4-Trimethylbenzene, Solid	ND	5	ug/Kg	08/21/03	krm
	1,3,5-Trimethylbenzene, Solid	ND	5	ug/Kg	08/21/03	krm
	1,2,3-Trichloropropane, Solid	ND	5	ug/Kg	08/21/03	krm
	Vinyl Acetate, Solid	ND	5	ug/Kg	08/21/03	krm
	Vinyl Chloride (Chloroethene), Solid	ND	5	ug/Kg	08/21/03	krm
	Xylenes (total), Solid	ND	5	ug/Kg	08/21/03	krm
TCEQ TX1005	Petroleum Hydrocarbons Extraction					
	n-Pentane Extraction - Solids & Wastes	Complete			08/19/03	amw
TCEQ TX1005	Total Petroleum Hydrocarbons					
	Petroleum Hydrocarbons (C6 to C12), Solid	ND	50	mg/Kg	08/20/03	amw
	Petroleum Hydrocarbons (>C12 to C28), Solid	ND	50	mg/Kg	08/20/03	amw
	Petroleum Hydrocarbons (>C28 to C35), Solid	ND	50	mg/Kg	08/20/03	amw
	TPH (C6 to C35), Solid	ND	50	mg/Kg	08/20/03	amw

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220328 Report Date.: 08/27/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN: Jenny Elste

Test Method.....: SW-846 7471A Batch.....: 83953 Analyst...: dev
Method Description.: Mercury (CVAA) Units.....: mg/Kg Test Code.: HGL
Parameter.....: Mercury (Hg)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICV		M082003HG	0.00482		0.005000		96.4	%	90-110	08/20/2003	1248
ICB			0.000052							08/20/2003	1252
LCS		M082003LG	0.00502		0.0050		100.4	%	85-115	08/20/2003	1254
MB			-0.000088							08/20/2003	1256
MS	220328-1	M082003LG	0.00507		0.0050	-0.000050	102.4	%	85-115	08/20/2003	1317
MSD	220328-1	M082003LG	0.00473	0.00507	0.0050	-0.000050	95.6	%	85-115	08/20/2003	1319
							6.9	R	20		
CCV		M082003HG	0.00473		0.005000		94.6	%	80-120	08/20/2003	1325
CCB			-0.000077							08/20/2003	1329
CCV		M082003HG	0.00476		0.005000		95.2	%	80-120	08/20/2003	1337
CCB			-0.000024							08/20/2003	1345

Test Method.....: SM 2540G Batch.....: 83944 Analyst...: hmz
Method Description.: Total, Fixed, and Volatile Solids Units.....: % Test Code.: %SOLID
Parameter.....: % Solids (@ 104 deg. C)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Tim
MB		EX30731B	100.0							08/19/2003	1505
MD	220327-2		76.8			77.2	0.5	R	20	08/19/2003	1518
MD	220327-9		79.1			79.6	0.6	R	20	08/19/2003	1540

Test Method.....: SM 2540G Batch.....: 83944 Analyst...: hmz
Method Description.: Total, Fixed, and Volatile Solids Units.....: % Test Code.: MOIST
Parameter.....: Moisture (@ 104 deg. C)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MB		EX30731B	0.0							08/19/2003	1505
MD	220327-2		23.2			22.8	1.7	R	20	08/19/2003	1518
MD	220327-9		20.9			20.4	2.4	R	20	08/19/2003	1540

Test Method.....: SW-846 6010B Batch.....: 84103 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICV		M0346	0.96714084		1.00		96.7	%	90-110	08/21/2003	1421
ICV		M0356	0.95717395		1.00		95.7	%	90-110	08/21/2003	1429
ICB			0.00377063							08/21/2003	1440
CCV		M0363	1.06425748		1.00		106.4	%	90-110	08/21/2003	1456
CCB			-0.0006653							08/21/2003	1507
MB		3050	0.00056839							08/21/2003	1510
LCS		M345	0.50987205		0.500		102.0	%	85-110	08/21/2003	1514
CCV		M0363	1.05271109		1.00		105.3	%	90-110	08/21/2003	1602
CCB			0.00338945							08/21/2003	160
MB		3050	0.00231200							08/21/2003	1
LCS		M347	0.50220833		0.500		100.4	%	85-110	08/21/2003	16
MS	220321-3	M347	0.48029096		0.500	-0.0038683	96.8	%	75-125	08/21/2003	1648

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220328 Report Date.: 08/27/2003

CUSTOMER: Entact, Inc. PROJECT: RSR 0U5 3D959 ATTN: Jenny Elste

Test Method.....: SW-846 6010B Batch.....: 84103 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0363	0.92585137		1.00		92.6	%	90-110	08/21/2003	1652
CCB			0.00773415							08/21/2003	1659
MSD	220321-3	M347	0.44608470	0.48029096	0.500	-0.0038683	90.0	%	75-125	08/21/2003	1703
							7.4	R	20		
PDS	220321-3	M346B	0.90982537		1.00	-0.0038683	91.4	%	75-125	08/21/2003	1707
PSD	220321-3	M346B	0.91339269	0.90982537	1.00	-0.0038683	91.7	%	75-125	08/21/2003	1711
							0.4	R	20		
MB		3010	0.00280914							08/21/2003	1715
LCS		M347	0.51344502		0.500		102.7	%	85-110	08/21/2003	1718
MS	219836-1	M347	0.51478015		0.500	0.00874347	101.2	%	75-125	08/21/2003	1726
MSD	219836-1	M347	0.51349742	0.51478015	0.500	0.00874347	101.0	%	75-125	08/21/2003	1730
							0.2	R	20		
PDS	219836-1	M346B	0.99583287		1.00	0.00874347	98.7	%	75-125	08/21/2003	1734
PSD	219836-1	M346B	0.98865671	0.99583287	1.00	0.00874347	98.0	%	75-125	08/21/2003	1738
							0.7	R	20		
CCV		M0363	0.91764067		1.00		91.8	%	90-110	08/21/2003	1742
			0.00451278							08/21/2003	1750
		M0363	0.96666865		1.00		96.7	%	90-110	08/21/2003	1831
CCB			0.01008495							08/21/2003	1835
MB		3010	0.00825079							08/21/2003	1909
LCS		M347	0.51145961		0.500		102.3	%	85-110	08/21/2003	1913
CCV		M0363	0.95576692		1.00		95.6	%	90-110	08/21/2003	1921
CCB			0.00367038							08/21/2003	1928
MS	220239-1	M347	0.43168037		0.500	-0.0242767	91.2	%	75-125	08/21/2003	1932
MSD	220239-1	M347	0.43886740	0.43168037	0.500	-0.0242767	92.6	%	75-125	08/21/2003	1936
							1.7	R	20		
CCV		M0363	0.95784369		1.00		95.8	%	90-110	08/21/2003	2010
CCB			0.00303015							08/21/2003	2017
MB		3010	0.01329698							08/21/2003	2032
LCS		M347	0.45579262		0.500		91.2	%	85-110	08/21/2003	2036
CCV		M0363	0.97446095		1.00		97.4	%	90-110	08/21/2003	2058
CCB			0.01044548							08/21/2003	2102
MS	220311-2	M347	0.46257403		0.500	-0.0044960	93.4	%	75-125	08/21/2003	2136
MSD	220311-2	M347	0.46197828	0.46257403	0.500	-0.0044960	93.3	%	75-125	08/21/2003	2140
							0.1	R	20		
CCV		M0363	0.92329959		1.00		92.3	%	90-110	08/21/2003	2151
CCB			0.00611995							08/21/2003	2159
MB		3050	0.00243889							08/21/2003	2203
LCS		M347	0.47988877		0.500		96.0	%	85-110	08/21/2003	2206
CCV		M0363	0.95253887		1.00		95.3	%	90-110	08/21/2003	2239
CCB			0.00518877							08/21/2003	2243
CCV		M0363	0.95698582		1.00		95.7	%	90-110	08/21/2003	2328
CCB			0.00381003							08/21/2003	2336

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220328 Report Date.: 08/27/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 30959 ATTN: Jenny Elste

Test Method.....: SW-846 6010B Batch.....: 84103 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: BA
Parameter.....: Barium (Ba)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICV		M0348	1.08002509		1.00		108.0	%	90-110	08/21/2003	1425
ICV		M0360	1.00114033		1.00		100.1	%	90-110	08/21/2003	1433
ICB			-0.0000279							08/21/2003	1440
CCV		M0363	1.08119387		1.00		108.1	%	90-110	08/21/2003	1456
CCB			0.00002421							08/21/2003	1507
MB		3050	0.00064209							08/21/2003	1510
LCS		M345	0.52406196		0.500		104.8	%	90-110	08/21/2003	1514
CCV		M0363	1.07543416		1.00		107.5	%	90-110	08/21/2003	1602
CCB			0.00092394							08/21/2003	1609
MB		3050	0.00911557							08/21/2003	1633
LCS		M347	0.51918643		0.500		103.8	%	90-110	08/21/2003	1636
CCV		M0363	0.95958433		1.00		96.0	%	90-110	08/21/2003	1652
CCB			0.00153414							08/21/2003	1659
MB		3010	0.00680962							08/21/2003	1715
LCS		M347	0.52749282		0.500		105.5	%	90-110	08/21/2003	1718
MS	219836-1	M347	0.53969497		0.500	0.02733214	102.5	%	75-125	08/21/2003	1726
MSD	219836-1	M347	0.54779722	0.53969497	0.500	0.02733214	104.1	%	75-125	08/21/2003	173
							1.5	R	20		
PDS	219836-1	M346B	1.03068864		1.00	0.02733214	100.3	%	75-125	08/21/2003	1734
PSD	219836-1	M346B	1.04440087	1.03068864	1.00	0.02733214	101.7	%	75-125	08/21/2003	1738
							1.3	R	20		
CCV		M0363	0.94415241		1.00		94.4	%	90-110	08/21/2003	1742
CCB			0.00061184							08/21/2003	1750
CCV		M0363	0.97471261		1.00		97.5	%	90-110	08/21/2003	1831
CCB			0.00020897							08/21/2003	1835
MB		3010	0.00042532							08/21/2003	1909
LCS		M347	0.52344600		0.500		104.7	%	90-110	08/21/2003	1913
CCV		M0363	0.97172903		1.00		97.2	%	90-110	08/21/2003	1921
CCB			0.00029749							08/21/2003	1928
MS	220239-1	M347	0.62409783		0.500	0.12770389	99.3	%	75-125	08/21/2003	1932
MSD	220239-1	M347	0.61667220	0.62409783	0.500	0.12770389	97.8	%	75-125	08/21/2003	1936
							1.2	R	20		
CCV		M0363	0.97748657		1.00		97.7	%	90-110	08/21/2003	2010
CCB			0.00033862							08/21/2003	2017
MB		3010	0.00053398							08/21/2003	2032
LCS		M347	0.45596446		0.500		91.2	%	90-110	08/21/2003	2036
CCV		M0363	0.98014419		1.00		98.0	%	90-110	08/21/2003	2058
CCB			0.00019387							08/21/2003	2106
MS	220311-2	M347	1.03587064		0.500	0.56015643	95.1	%	75-125	08/21/2003	2136
MSD	220311-2	M347	1.05183822	1.03587064	0.500	0.56015643	98.3	%	75-125	08/21/2003	2140
							1.5	R	20		
CCV		M0363	0.97854199		1.00		97.9	%	90-110	08/21/2003	2151
CCB			0.00009442							08/21/2003	2159
MB		3050	0.00052902							08/21/2003	2203
LCS		M347	0.50865700		0.500		101.7	%	90-110	08/21/2003	2206
CCV		M0363	0.98370386		1.00		98.4	%	90-110	08/21/2003	2239
CCB			0.00037194							08/21/2003	2243
CCV		M0363	0.99330679		1.00		99.3	%	90-110	08/21/2003	2328
CCB			0.00006968							08/21/2003	2336

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220328 Report Date.: 08/27/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 30959 ATTN: Jenny Elste

Test Method.....: SW-846 6010B Batch.....: 84103 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CD
Parameter.....: Cadmium (Cd)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICV		M0346	0.99212370		1.00		99.2	%	90-110	08/21/2003	1421
ICV		M0356	0.95592221		1.00		95.6	%	90-110	08/21/2003	1429
ICB			-0.0000037							08/21/2003	1440
CCV		M0363	1.07292980		1.00		107.3	%	90-110	08/21/2003	1456
CCB			0.00002537							08/21/2003	1507
MB		3050	0.00470396							08/21/2003	1510
LCS		M345	0.50578682		0.500		101.2	%	87-110	08/21/2003	1514
CCV		M0363	1.03391491		1.00		103.4	%	90-110	08/21/2003	1602
CCB			0.00048435							08/21/2003	1609
MB		3050	-0.0002635							08/21/2003	1633
LCS		M347	0.49751070		0.500		99.5	%	87-110	08/21/2003	1636
MS	220321-3	M347	0.45288553		0.500	0.00356517	89.9	%	75-125	08/21/2003	1648
CCV		M0363	0.92021662		1.00		92.0	%	90-110	08/21/2003	1652
CCB			0.00044535							08/21/2003	1659
MSD	220321-3	M347	0.43517580	0.45288553	0.500	0.00356517	86.3	%	75-125	08/21/2003	1703
							4.0	R	20		
	220321-3	M346B	0.86363870		1.00	0.00356517	86.0	%	75-125	08/21/2003	1707
	220321-3	M346B	0.85901010	0.86363870	1.00	0.00356517	85.5	%	75-125	08/21/2003	1711
							0.5	R	20		
MB		3010	0.00013623							08/21/2003	1715
LCS		M347	0.50246386		0.500		100.5	%	87-110	08/21/2003	1718
MS	219836-1	M347	0.48965655		0.500	0.00110130	97.7	%	75-125	08/21/2003	1726
MSD	219836-1	M347	0.49835844	0.48965655	0.500	0.00110130	99.5	%	75-125	08/21/2003	1730
							1.8	R	20		
PDS	219836-1	M346B	0.96317395		1.00	0.00110130	96.2	%	75-125	08/21/2003	1734
PSD	219836-1	M346B	0.98213242	0.96317395	1.00	0.00110130	98.1	%	75-125	08/21/2003	1738
							1.9	R	20		
CCV		M0363	0.92089638		1.00		92.1	%	90-110	08/21/2003	1742
CCB			0.00077288							08/21/2003	1750
CCV		M0363	0.95214804		1.00		95.2	%	90-110	08/21/2003	1831
CCB			0.00071446							08/21/2003	1835
MB		3010	-0.0001468							08/21/2003	1909
LCS		M347	0.50306437		0.500		100.6	%	87-110	08/21/2003	1913
CCV		M0363	0.94729136		1.00		94.7	%	90-110	08/21/2003	1921
CCB			0.00042097							08/21/2003	1928
MS	220239-1	M347	0.47670685		0.500	0.00102304	95.1	%	75-125	08/21/2003	1932
MSD	220239-1	M347	0.46939868	0.47670685	0.500	0.00102304	93.7	%	75-125	08/21/2003	1936
							1.5	R	20		
CCV		M0363	0.96227375		1.00		96.2	%	90-110	08/21/2003	2010
CCB			0.00000137							08/21/2003	2017
MB		3010	0.00024433							08/21/2003	2032
LCS		M347	0.44610725		0.500		89.2	%	87-110	08/21/2003	2036
CCV		M0363	0.95986948		1.00		96.0	%	90-110	08/21/2003	2058
CCB			0.00056594							08/21/2003	2106
MS	220311-2	M347	0.74856285		0.500	0.27712737	94.3	%	75-125	08/21/2003	2136
MSD	220311-2	M347	0.75905431	0.74856285	0.500	0.27712737	96.4	%	75-125	08/21/2003	2140
							1.4	R	20		
CCV		M0363	0.97399020		1.00		97.4	%	90-110	08/21/2003	2151
CCB			-0.0000993							08/21/2003	2159
		3050	0.00192828							08/21/2003	2203
		M347	0.49223463		0.500		98.4	%	87-110	08/21/2003	2206
	220346-1	M347	0.45819685		0.500	0.00409842	90.8	%	75-125	08/21/2003	2214
MSD	220346-1	M346	0.46936593	0.45819685	0.500	0.00409842	93.1	%	75-125	08/21/2003	2218
							2.4	R	20		

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220328 Report Date.: 08/27/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 30959 ATTN: Jenny Elste

Test Method.....: SW-846 6010B Batch.....: 84103 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CD
Parameter.....: Cadmium (Cd)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0363	0.95952327		1.00		96.0	%	90-110	08/21/2003	2239
CCB			0.00147843							08/21/2003	2243
CCV		M0363	0.97093285		1.00		97.1	%	90-110	08/21/2003	2328
CCB			0.00058365							08/21/2003	2336

Test Method.....: SW-846 6010B Batch.....: 84103 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CR
Parameter.....: Chromium (Cr)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICV		M0346	0.99158067		1.00		99.2	%	90-110	08/21/2003	1421
ICV		M0356	0.96137746		1.00		96.1	%	90-110	08/21/2003	1429
ICB			-0.0000554							08/21/2003	1440
CCV		M0363	1.07819264		1.00		107.8	%	90-110	08/21/2003	1456
CCB			-0.0000162							08/21/2003	150
MB		3050	0.00029695							08/21/2003	151
LCS		M345	0.53633474		0.500		107.3	%	90-110	08/21/2003	1514
CCV		M0363	1.07479092		1.00		107.5	%	90-110	08/21/2003	1602
CCB			0.00008368							08/21/2003	1609
MB		3050	0.00158567							08/21/2003	1633
LCS		M347	0.53291121		0.500		106.6	%	90-110	08/21/2003	1636
MS	220321-3	M347	0.54148316		0.500	0.06584291	95.1	%	75-125	08/21/2003	1648
CCV		M0363	0.95528921		1.00		95.5	%	90-110	08/21/2003	1652
CCB			0.00018335							08/21/2003	1659
MSD	220321-3	M347	0.52205968	0.54148316	0.500	0.06584291	91.2	%	75-125	08/21/2003	1703
							3.7	R	20		
PDS	220321-3	M346B	0.97633853		1.00	0.06584291	91.0	%	75-125	08/21/2003	1707
PSD	220321-3	M346B	0.97031636	0.97633853	1.00	0.06584291	90.4	%	75-125	08/21/2003	1711
							0.6	R	20		
MB		3010	0.00063133							08/21/2003	1715
LCS		M347	0.52524758		0.500		105.0	%	90-110	08/21/2003	1718
MS	219836-1	M347	0.51823804		0.500	0.00215205	103.2	%	75-125	08/21/2003	1726
MSD	219836-1	M347	0.52522289	0.51823804	0.500	0.00215205	104.6	%	75-125	08/21/2003	1730
							1.3	R	20		
PDS	219836-1	M346B	1.01029297		1.00	0.00215205	100.8	%	75-125	08/21/2003	1734
PSD	219836-1	M346B	1.02197757	1.01029297	1.00	0.00215205	102.0	%	75-125	08/21/2003	1738
							1.1	R	20		
CCV		M0363	0.94539831		1.00		94.5	%	90-110	08/21/2003	1742
CCB			0.00004342							08/21/2003	1750
CCV		M0363	0.98661831		1.00		98.7	%	90-110	08/21/2003	1831
CCB			0.00643479							08/21/2003	1835
MB		3010	0.00184046							08/21/2003	1909
LCS		M347	0.53192415		0.500		106.4	%	90-110	08/21/2003	1913
CCV		M0363	0.98367651		1.00		98.4	%	90-110	08/21/2003	1921
CCB			0.00129072							08/21/2003	1928
MS	220239-1	M347	0.51012301		0.500	0.00304985	101.4	%	75-125	08/21/2003	1932
MSD	220239-1	M347	0.50290843	0.51012301	0.500	0.00304985	100.0	%	75-125	08/21/2003	1936
							1.4	R	20		
CCV		M0363	0.99059192		1.00		99.1	%	90-110	08/21/2003	20
CCB			0.00072619							08/21/2003	201
MB		3010	0.00033161							08/21/2003	2032

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220328 Report Date.: 08/27/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 30959 ATTN: Jenny Elste

Test Method.....: SW-846 6010B Batch.....: 84103 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CR
Parameter.....: Chromium (Cr)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
LCS		M347	0.45997472		0.500		92.0	%	90-110	08/21/2003	2036
CCV		M0363	0.99137974		1.00		99.1	%	90-110	08/21/2003	2058
CCB			0.00030944							08/21/2003	2106
MS	220311-2	M347	0.48330697		0.500	0.01033604	94.6	%	75-125	08/21/2003	2136
MSD	220311-2	M347	0.49645249	0.48330697	0.500	0.01033604	97.2	%	75-125	08/21/2003	2140
							2.7	R	20		
CCV		M0363	0.99246269		1.00		99.2	%	90-110	08/21/2003	2151
CCB			0.00005909							08/21/2003	2159
MB		3050	0.00025403							08/21/2003	2203
LCS		M347	0.51510416		0.500		103.0	%	90-110	08/21/2003	2206
MS	220346-1	M347	0.54528588		0.500	0.07337082	94.4	%	75-125	08/21/2003	2214
MSD	220346-1	M346	0.56769015	0.54528588	0.500	0.07337082	98.9	%	75-125	08/21/2003	2218
							4.0	R	20		
CCV		M0363	0.99952065		1.00		100.0	%	90-110	08/21/2003	2239
CCB			0.00074401							08/21/2003	2243
CCV		M0363	1.01094282		1.00		101.1	%	90-110	08/21/2003	2328
			-0.0000342							08/21/2003	2336

Test Method.....: SW-846 6010B Batch.....: 84103 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICV		M0346	0.99942107		1.00		99.9	%	90-110	08/21/2003	1421
ICV		M0356	0.98509777		1.00		98.5	%	90-110	08/21/2003	1429
ICB			-0.0017911							08/21/2003	1440
CCV		M0363	1.07451570		1.00		107.5	%	90-110	08/21/2003	1456
CCB			-0.0010223							08/21/2003	1507
MB		3050	0.00435811							08/21/2003	1510
LCS		M345	0.50892148		0.500		101.8	%	87-112	08/21/2003	1514
CCV		M0363	1.06867347		1.00		106.9	%	90-110	08/21/2003	1602
CCB			0.00236039							08/21/2003	1609
MB		3050	0.00205662							08/21/2003	1633
LCS		M347	0.49830566		0.500		99.7	%	87-112	08/21/2003	1636
MS	220321-3	M347	0.65151351		0.500	0.17189506	95.9	%	75-125	08/21/2003	1648
CCV		M0363	0.93092352		1.00		93.1	%	90-110	08/21/2003	1652
CCB			-0.0002174							08/21/2003	1659
MSD	220321-3	M347	0.69756577	0.65151351	0.500	0.17189506	105.1	%	75-125	08/21/2003	1703
							6.8	R	20		
PDS	220321-3	M346B	1.03305773		1.00	0.17189506	86.1	%	75-125	08/21/2003	1707
PSD	220321-3	M346B	1.02916592	1.03305773	1.00	0.17189506	85.7	%	75-125	08/21/2003	1711
							0.4	R	20		
MB		3010	-0.0016312							08/21/2003	1715
LCS		M347	0.50444957		0.500		100.9	%	87-112	08/21/2003	1718
MS	219836-1	M347	0.49862172		0.500	0.00245275	99.2	%	75-125	08/21/2003	1726
MSD	219836-1	M347	0.50039224	0.49862172	0.500	0.00245275	99.6	%	75-125	08/21/2003	1730
							0.4	R	20		
PDS	219836-1	M346B	0.97673190		1.00	0.00245275	97.4	%	75-125	08/21/2003	1734
PSD	219836-1	M346B	0.97640465	0.97673190	1.00	0.00245275	97.4	%	75-125	08/21/2003	1738
							0.0	R	20		
CCV		M0363	0.92842551		1.00		92.8	%	90-110	08/21/2003	1742

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220328 Report Date.: 08/27/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 30959 ATTN: Jenny Elste

Test Method.....: SW-846 6010B Batch.....: 84103 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB			-0.0008840							08/21/2003	1750
CCV		M0363	0.95352174		1.00		95.4	%	90-110	08/21/2003	1831
CCB			-0.0006059							08/21/2003	1835
MB		3010	-0.0012659							08/21/2003	1909
LCS		M347	0.50079984		0.500		100.2	%	87-112	08/21/2003	1913
CCV		M0363	0.95012708		1.00		95.0	%	90-110	08/21/2003	1921
CCB			-0.0017137							08/21/2003	1928
MS	220239-1	M347	0.46842161		0.500	0.00436971	92.8	%	75-125	08/21/2003	1932
MSD	220239-1	M347	0.46281859	0.46842161	0.500	0.00436971	91.7	%	75-125	08/21/2003	1936
							1.2	R	20		
CCV		M0363	0.95505182		1.00		95.5	%	90-110	08/21/2003	2010
CCB			-0.0013931							08/21/2003	2017
MB		3010	-0.0052984							08/21/2003	2032
LCS		M347	0.43856185		0.500		87.7	%	87-112	08/21/2003	2036
CCV		M0363	0.94306539		1.00		94.3	%	90-110	08/21/2003	2058
CCB			-0.0053883							08/21/2003	2104
MS	220311-2	M347	2.67547070		0.500	2.14108166	106.9	%	75-125	08/21/2003	21
MSD	220311-2	M347	2.67949890	2.67547070	0.500	2.14108166	107.7	%	75-125	08/21/2003	214
							0.2	R	20		
CCV		M0363	0.96406178		1.00		96.4	%	90-110	08/21/2003	2151
CCB			-0.0033369							08/21/2003	2159
MB		3050	-0.0004161							08/21/2003	2203
LCS		M347	0.48784462		0.500		97.6	%	87-112	08/21/2003	2206
CCV		M0363	0.99820580		1.00		99.8	%	90-110	08/21/2003	2239
CCV		M0363	0.96645073		1.00		96.6	%	90-110	08/21/2003	2328
CCB			-0.0017813							08/21/2003	2336

Test Method.....: SW-846 6010B Batch.....: 84103 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SE
Parameter.....: Selenium (Se)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICV		M0346	0.97817159		1.00		97.8	%	90-110	08/21/2003	1421
ICV		M0356	0.96870512		1.00		96.9	%	90-110	08/21/2003	1429
ICB			-0.0041457							08/21/2003	1440
CCV		M0363	1.07177967		1.00		107.2	%	90-110	08/21/2003	1456
CCB			-0.0041700							08/21/2003	1507
MB		3050	0.00304846							08/21/2003	1510
LCS		M345	0.48086030		0.500		96.2	%	82-111	08/21/2003	1514
CCV		M0363	1.05867090		1.00		105.9	%	90-110	08/21/2003	1602
CCB			-0.0056164							08/21/2003	1609
MB		3050	-0.0022662							08/21/2003	1633
LCS		M347	0.47435376		0.500		94.9	%	82-111	08/21/2003	1636
MS	220321-3	M347	0.50493246		0.500	0.03971456	93.0	%	75-125	08/21/2003	1648
CCV		M0363	0.91709363		1.00		91.7	%	90-110	08/21/2003	1652
CCB			0.00047178							08/21/2003	1659
MSD	220321-3	M347	0.48569933	0.50493246	0.500	0.03971456	89.2	%	75-125	08/21/2003	1703
							3.9	R	20		
PDS	220321-3	M346B	0.94528183		1.00	0.03971456	90.6	%	75-125	08/21/2003	17
PSD	220321-3	M346B	0.95498669	0.94528183	1.00	0.03971456	91.5	%	75-125	08/21/2003	1711
							1.0	R	20		

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220328 Report Date.: 08/27/2003

CUSTOMER: Entact, Inc. PROJECT: RSR 0U5 30959 ATTN: Jenny Elste

Test Method.....: SW-846 6010B Batch.....: 84103 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SE
Parameter.....: Selenium (Se)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MB		3010	-0.0076739							08/21/2003	1715
LCS		M347	0.49002584		0.500		98.0	%	82-111	08/21/2003	1718
MS	219836-1	M347	0.47700418		0.500	0.00046076	95.3	%	75-125	08/21/2003	1726
MSD	219836-1	M347	0.48424459	0.47700418	0.500	0.00046076	96.8	%	75-125	08/21/2003	1730
							1.5	R	20		
PDS	219836-1	M346B	0.95905370		1.00	0.00046076	95.9	%	75-125	08/21/2003	1734
PSD	219836-1	M346B	0.95123894	0.95905370	1.00	0.00046076	95.1	%	75-125	08/21/2003	1738
							0.8	R	20		
CCV		M0363	0.92678989		1.00		92.7	%	90-110	08/21/2003	1742
CCB			-0.0057448							08/21/2003	1750
CCV		M0363	0.95759721		1.00		95.8	%	90-110	08/21/2003	1831
CCB			-0.0018045							08/21/2003	1835
MB		3010	-0.0092222							08/21/2003	1909
LCS		M347	0.48828359		0.500		97.7	%	82-111	08/21/2003	1913
CCV		M0363	0.96085841		1.00		96.1	%	90-110	08/21/2003	1921
CCB			-0.0007472							08/21/2003	1928
		M0363	0.95620217		1.00		95.6	%	90-110	08/21/2003	2010
			-0.0022428							08/21/2003	2017
MB		3010	0.00261937							08/21/2003	2032
LCS		M347	0.43634118		0.500		87.3	%	82-111	08/21/2003	2036
CCV		M0363	0.97255395		1.00		97.3	%	90-110	08/21/2003	2058
CCB			0.00100610							08/21/2003	2106
MS	220311-2	M347	0.48356056		0.500	0.00674707	95.4	%	75-125	08/21/2003	2136
MSD	220311-2	M347	0.45976377	0.48356056	0.500	0.00674707	90.6	%	75-125	08/21/2003	2140
							5.0	R	20		
CCV		M0363	0.95327402		1.00		95.3	%	90-110	08/21/2003	2151
CCB			0.00852769							08/21/2003	2159
MB		3050	0.00119733							08/21/2003	2203
LCS		M347	0.46335193		0.500		92.7	%	82-111	08/21/2003	2206
MS	220346-1	M347	0.47141795		0.500	0.02753471	88.8	%	75-125	08/21/2003	2214
MSD	220346-1	M346	0.47490124	0.47141795	0.500	0.02753471	89.5	%	75-125	08/21/2003	2218
							0.7	R	20		
CCV		M0363	0.97386034		1.00		97.4	%	90-110	08/21/2003	2239
CCB			-0.0030147							08/21/2003	2247
CCV		M0363	0.98765852		1.00		98.8	%	90-110	08/21/2003	2328
CCB			0.00544829							08/21/2003	2336

Test Method.....: SW-846 6010B Batch.....: 84103 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AG
Parameter.....: Silver (Ag)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICV		M0360	0.51325359		0.50		102.7	%	90-110	08/21/2003	1433
ICB			0.00052917							08/21/2003	1440
CCV		M0363	0.53866890		0.50		107.7	%	90-110	08/21/2003	1456
CCB			-0.0009595							08/21/2003	1507
MB		3050	0.00004344							08/21/2003	1510
LCS		M345	0.25558796		0.25		102.2	%	87-110	08/21/2003	1514
		M0363	0.53248198		0.50		106.5	%	90-110	08/21/2003	1602
			0.00035549							08/21/2003	1609
MB		3050	-0.0005867							08/21/2003	1633

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220328 Report Date.: 08/27/2003

CUSTOMER: Entact, Inc. PROJECT: RSR 0U5 3D959 ATTN: Jenny Elste

Test Method.....: SW-846 6010B Batch.....: 84103 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AG
Parameter.....: Silver (Ag)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
LCS		M347	0.25352263		0.25		101.4	%	87-110	08/21/2003	1636
MS	220321-3	M347	0.23794357		0.25	-0.0025653	96.2	%	75-125	08/21/2003	1648
CCV		M0363	0.47394385		0.50		94.8	%	90-110	08/21/2003	1652
CCB			-0.0002211							08/21/2003	1659
MSD	220321-3	M347	0.23082359	0.23794357	0.25	-0.0025653	93.4	%	75-125	08/21/2003	1703
							3.0	R	20		
PDS	220321-3	M346B	0.47020545		0.50	-0.0025653	94.6	%	75-125	08/21/2003	1707
PSD	220321-3	M346B	0.46709706	0.47020545	0.50	-0.0025653	93.9	%	75-125	08/21/2003	1711
							0.7	R	20		
MB		3010	-0.0005441							08/21/2003	1715
LCS		M347	0.25429490		0.25		101.7	%	87-110	08/21/2003	1718
MS	219836-1	M347	0.24555071		0.25	0.00033239	98.1	%	75-125	08/21/2003	1726
MSD	219836-1	M347	0.24869477	0.24555071	0.25	0.00033239	99.3	%	75-125	08/21/2003	1730
							1.3	R	20		
PDS	219836-1	M346B	0.49575457		0.50	0.00033239	99.1	%	75-125	08/21/2003	1734
PSD	219836-1	M346B	0.50589911	0.49575457	0.50	0.00033239	101.1	%	75-125	08/21/2003	1738
							2.0	R	20		
CCV		M0363	0.46906239		0.50		93.8	%	90-110	08/21/2003	174
CCB			0.00025057							08/21/2003	1750
CCV		M0363	0.49342164		0.50		98.7	%	90-110	08/21/2003	1831
CCB			-0.0004530							08/21/2003	1835
MB		3010	-0.0005666							08/21/2003	1909
LCS		M347	0.25400200		0.25		101.6	%	87-110	08/21/2003	1913
CCV		M0363	0.48778711		0.50		97.6	%	90-110	08/21/2003	1921
CCB			-0.0005895							08/21/2003	1928
CCV		M0363	0.49244762		0.50		98.5	%	90-110	08/21/2003	2010
CCB			-0.0005362							08/21/2003	2017
MB		3010	-0.0005501							08/21/2003	2032
LCS		M347	0.22558301		0.25		90.2	%	87-110	08/21/2003	2036
CCV		M0363	0.50417157		0.50		100.8	%	90-110	08/21/2003	2058
CCB			-0.0009503							08/21/2003	2106
CCV		M0363	0.49587163		0.50		99.2	%	90-110	08/21/2003	2151
CCB			-0.0005158							08/21/2003	2159
MB		3050	-0.0010146							08/21/2003	2203
LCS		M347	0.25001675		0.25		100.0	%	87-110	08/21/2003	2206
MS	220346-1	M347	0.23796402		0.25	-0.0012661	95.7	%	75-125	08/21/2003	2214
MSD	220346-1	M346	0.24498821	0.23796402	0.25	-0.0012661	98.5	%	75-125	08/21/2003	2218
							2.9	R	20		
CCV		M0363	0.49862336		0.50		99.7	%	90-110	08/21/2003	2239
CCB			-0.0000097							08/21/2003	2243
CCV		M0363	0.50282481		0.50		100.6	%	90-110	08/21/2003	2328
CCB			-0.0008351							08/21/2003	2336

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220328 Report Date.: 08/27/2003

CUSTOMER: Entact, Inc. PROJECT: RSR 0U5 30959 ATTN: Jenny Elste

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank	081903			08/20/2003	1726

Test Method.....: SW-846 8270C Units.....: ug/L Analyst...: bec
Method Description.: Semivolatile Organics Batch.....: 84000

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Acenaphthene, Solid	ND						
Acenaphthylene, Solid	ND						
Aniline, Solid	ND						
Anthracene, Solid	ND						
Benzo(a)anthracene (1,2-Benzanthracene),	ND						
Benzo(b)fluoranthene, Solid	ND						
Benzo(k)fluoranthene, Solid	ND						
Benzo(ghi)perylene, Solid	ND						
Benzo(a)pyrene, Solid	ND						
Benzyl alcohol, Solid	ND						
Bis(2-chloroethoxy)methane, Solid	ND						
Bis(2-chloroethyl)ether, Solid	ND						
Bis(2-chloroisopropyl)ether, Solid	ND						
[redacted]-ethylhexyl)phthalate, Solid	ND						
[redacted]ophenyl phenyl ether, Solid	ND						
Butyl benzyl phthalate, Solid	ND						
4-Chloroaniline, Solid	ND						
4-Chloro-3-methylphenol, Solid	ND						
2-Chloronaphthalene, Solid	ND						
2-Chlorophenol, Solid	ND						
4-Chlorophenyl phenyl ether, Solid	ND						
Chrysene, Solid	ND						
Dibenzo(ah)anthracene, Solid	ND						
Dibenzofuran, Solid	ND						
1,2-Dichlorobenzene, Solid	ND						
1,3-Dichlorobenzene, Solid	ND						
1,4-Dichlorobenzene, Solid	ND						
3,3-Dichlorobenzidine, Solid	ND						
Diethyl phthalate, Solid	ND						
Dimethyl phthalate, Solid	ND						
2,4-Dimethylphenol, Solid	ND						
Di-n-butyl phthalate, Solid	ND						
Di-n-octyl phthalate, Solid	ND						
2,4-Dichlorophenol, Solid	ND						
4,6-Dinitro-2-methylphenol, Solid	ND						
2,4-Dinitrophenol, Solid	ND						
2,4-Dinitrotoluene, Solid	ND						
2,6-Dinitrotoluene, Solid	ND						
Fluoranthene, Solid	ND						
Fluorene, Solid	ND						
Hexachlorobenzene, Solid	ND						
Hexachlorobutadiene, Solid	ND						
Hexachlorocyclopentadiene, Solid	ND						
Hexachloroethane, Solid	ND						
Indeno(123cd)pyrene, Solid	ND						
Isophorone, Solid	ND						
2-Methylnaphthalene, Solid	ND						
[redacted]hylphenol (o-cresol), Solid	ND						
[redacted] Methylphenol (m&p cresol), Solid	ND						
Naphthalene, Solid	ND						

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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QUALITY CONTROL RESULTS

Job Number.: 220328 Report Date.: 08/27/2003

CUSTOMER: Entact, Inc. PROJECT: RSR 0U5 3D959 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank	081903			08/20/2003	1726

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
o-Nitroaniline, Solid	ND						
m-Nitroaniline, Solid	ND						
p-Nitroaniline, Solid	ND						
Nitrobenzene, Solid	ND						
2-Nitrophenol, Solid	ND						
4-Nitrophenol, Solid	ND						
n-Nitrosodi-n-propylamine, Solid	ND						
n-Nitrosodiphenylamine, Solid	ND						
Pentachlorophenol, Solid	ND						
Phenanthrene, Solid	ND						
Phenol, Solid	ND						
Pyrene, Solid	ND						
Pyridine, Solid	ND						
1,2,4-Trichlorobenzene, Solid	ND						
2,4,5-Trichlorophenol, Solid	ND						
2,4,6-Trichlorophenol, Solid	ND						

MS	Matrix Spike	EX30703A	220328-1		08/20/2003	184

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Acenaphthene, Solid	85.36		100.0	ND	85.4	%	68-115
Acenaphthylene, Solid	85.81		100.0	ND	85.8	%	40-160
Aniline, Solid	66.01		100.0	ND	66.0	%	40-160
Anthracene, Solid	91.77		100.0	ND	91.8	%	40-160
Benzo(a)anthracene (1,2-Benzanthracene),	96.87		100.0	ND	96.9	%	40-160
Benzo(b)fluoranthene, Solid	93.47		100.0	ND	93.5	%	40-160
Benzo(k)fluoranthene, Solid	92.00		100.0	ND	92.0	%	40-160
Benzo(ghi)perylene, Solid	85.83		100.0	ND	85.8	%	40-160
Benzo(a)pyrene, Solid	91.48		100.0	ND	91.5	%	40-160
Benzyl alcohol, Solid	84.60		100.0	ND	84.6	%	40-160
Bis(2-chloroethoxy)methane, Solid	79.82		100.0	ND	79.8	%	40-160
Bis(2-chloroethyl)ether, Solid	77.81		100.0	ND	77.8	%	40-160
Bis(2-chloroisopropyl)ether, Solid	77.83		100.0	ND	77.8	%	40-160
Bis(2-ethylhexyl)phthalate, Solid	106.36		100.0	ND	106.4	%	40-160
4-Bromophenyl phenyl ether, Solid	91.35		100.0	ND	91.3	%	40-160
Butyl benzyl phthalate, Solid	102.17		100.0	ND	102.2	%	40-160
4-Chloroaniline, Solid	62.40		100.0	ND	62.4	%	40-160
4-Chloro-3-methylphenol, Solid	94.03		100.0	ND	94.0	%	67-115
2-Chloronaphthalene, Solid	83.19		100.0	ND	83.2	%	40-160
2-Chlorophenol, Solid	80.36		100.0	ND	80.4	%	61-115
4-Chlorophenyl phenyl ether, Solid	87.49		100.0	ND	87.5	%	40-160
Chrysene, Solid	85.46		100.0	ND	85.5	%	40-160
Dibenzo(ah)anthracene, Solid	85.40		100.0	ND	85.4	%	40-160
Dibenzofuran, Solid	85.48		100.0	ND	85.5	%	40-160
1,2-Dichlorobenzene, Solid	75.71		100.0	ND	75.7	%	40-160
1,3-Dichlorobenzene, Solid	74.92		100.0	ND	74.9	%	40-160
1,4-Dichlorobenzene, Solid	75.21		100.0	ND	75.2	%	56-115
3,3-Dichlorobenzidine, Solid	76.36		100.0	ND	76.4	%	40-160
Diethyl phthalate, Solid	92.14		100.0	ND	92.1	%	40-160
Dimethyl phthalate, Solid	86.59		100.0	ND	86.6	%	40-160
2,4-Dimethylphenol, Solid	85.86		100.0	ND	85.9	%	40-160
Di-n-butyl phthalate, Solid	94.48		100.0	ND	94.5	%	40-160

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220328 Report Date.: 08/27/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MS	Matrix Spike	EX30703A	220328-1		08/20/2003	1849

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Di-n-octyl phthalate, Solid	107.15		100.0	ND	107.2	%	40-160
2,4-Dichlorophenol, Solid	86.34		100.0	ND	86.3	%	40-160
4,6-Dinitro-2-methylphenol, Solid	72.73		100.0	ND	72.7	%	40-160
2,4-Dinitrophenol, Solid	34.95		100.0	ND	35.0	%	40-160
2,4-Dinitrotoluene, Solid	93.57		100.0	ND	93.6	%	68-115
2,6-Dinitrotoluene, Solid	92.85		100.0	ND	92.8	%	40-160
Fluoranthene, Solid	89.91		100.0	ND	89.9	%	40-160
Fluorene, Solid	88.74		100.0	ND	88.7	%	40-160
Hexachlorobenzene, Solid	90.06		100.0	ND	90.1	%	40-160
Hexachlorobutadiene, Solid	80.47		100.0	ND	80.5	%	40-160
Hexachlorocyclopentadiene, Solid	75.27		100.0	ND	75.3	%	40-160
Hexachloroethane, Solid	76.69		100.0	ND	76.7	%	40-160
Indeno(123cd)pyrene, Solid	90.63		100.0	ND	90.6	%	40-160
Isophorone, Solid	80.63		100.0	ND	80.6	%	40-160
2-Methylnaphthalene, Solid	82.40		100.0	ND	82.4	%	40-160
2-Methylphenol (o-cresol), Solid	83.13		100.0	ND	83.1	%	60-140
3 & 4 Methylphenol (m&p cresol), Solid	164.80		200.0	ND	82.4	%	60-140
[redacted]halene, Solid	80.84		100.0	ND	80.8	%	40-160
[redacted]roaniline, Solid	90.52		100.0	ND	90.5	%	40-160
m-Nitroaniline, Solid	79.55		100.0	ND	79.5	%	40-160
p-Nitroaniline, Solid	91.64		100.0	ND	91.6	%	40-160
Nitrobenzene, Solid	79.32		100.0	ND	79.3	%	40-160
2-Nitrophenol, Solid	83.91		100.0	ND	83.9	%	40-160
4-Nitrophenol, Solid	92.96		100.0	ND	93.0	%	65-122
n-Nitrosodi-n-propylamine, Solid	79.32		100.0	ND	79.3	%	40-115
n-Nitrosodiphenylamine, Solid	89.63		100.0	ND	89.6	%	40-160
Pentachlorophenol, Solid	90.18		100.0	ND	90.2	%	68-125
Phenanthrene, Solid	90.54		100.0	ND	90.5	%	40-160
Phenol, Solid	78.73		100.0	ND	78.7	%	56-115
Pyrene, Solid	96.38		100.0	ND	96.4	%	66-117
Pyridine, Solid	61.05		100.0	ND	61.0	%	40-160
1,2,4-Trichlorobenzene, Solid	80.93		100.0	ND	80.9	%	60-115
2,4,5-Trichlorophenol, Solid	93.75		100.0	ND	93.8	%	40-160
2,4,6-Trichlorophenol, Solid	90.62		100.0	ND	90.6	%	40-160

MSD	Matrix Spike Duplicate	EX30703A	220328-1		08/20/2003	1917

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Acenaphthene, Solid	88.00	85.36	100.0	ND	88.0	%	68-115
					3.0	R	28
Acenaphthylene, Solid	88.06	85.81	100.0	ND	88.1	%	40-160
					2.6	R	30
Aniline, Solid	72.00	66.01	100.0	ND	72.0	%	40-160
					8.7	R	40
Anthracene, Solid	91.04	91.77	100.0	ND	91.0	%	40-160
					0.8	R	30
Benzo(a)anthracene (1,2-Benzanthracene),	94.45	96.87	100.0	ND	94.5	%	40-160
					2.5	R	30
Benzo(b)fluoranthene, Solid	92.61	93.47	100.0	ND	92.6	%	40-160
					0.9	R	30
[redacted](k)fluoranthene, Solid	93.03	92.00	100.0	ND	93.0	%	40-160
					1.1	R	30

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220328 Report Date.: 08/27/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
MSD	Matrix Spike Duplicate	EX30703A	220328-1		08/20/2003 1917

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits
Benzo(ghi)perylene, Solid	85.32	85.83	100.0	ND	85.3	% 40-160
					0.6	R 30
Benzo(a)pyrene, Solid	91.71	91.48	100.0	ND	91.7	% 40-160
					0.3	R 30
Benzyl alcohol, Solid	91.89	84.60	100.0	ND	91.9	% 40-160
					8.3	R 30
Bis(2-chloroethoxy)methane, Solid	85.24	79.82	100.0	ND	85.2	% 40-160
					6.6	R 30
Bis(2-chloroethyl)ether, Solid	86.35	77.81	100.0	ND	86.3	% 40-160
					10.4	R 30
Bis(2-chloroisopropyl)ether, Solid	84.25	77.83	100.0	ND	84.2	% 40-160
					7.9	R 30
Bis(2-ethylhexyl)phthalate, Solid	103.57	106.36	100.0	ND	103.6	% 40-160
					2.7	R 30
4-Bromophenyl phenyl ether, Solid	91.86	91.35	100.0	ND	91.9	% 40-160
					0.6	R 30
Butyl benzyl phthalate, Solid	100.09	102.17	100.0	ND	100.1	% 40-160
					2.1	R 30
4-Chloroaniline, Solid	60.48	62.40	100.0	ND	60.5	% 40-160
					3.1	R 30
4-Chloro-3-methylphenol, Solid	98.25	94.03	100.0	ND	98.2	% 67-115
					4.4	R 37
2-Chloronaphthalene, Solid	87.20	83.19	100.0	ND	87.2	% 40-160
					4.7	R 30
2-Chlorophenol, Solid	87.42	80.36	100.0	ND	87.4	% 61-115
					8.4	R 29
4-Chlorophenyl phenyl ether, Solid	89.31	87.49	100.0	ND	89.3	% 40-160
					2.1	R 30
Chrysene, Solid	84.69	85.46	100.0	ND	84.7	% 40-160
					0.9	R 30
Dibenzo(ah)anthracene, Solid	83.66	85.40	100.0	ND	83.7	% 40-160
					2.1	R 30
Dibenzofuran, Solid	87.07	85.48	100.0	ND	87.1	% 40-160
					1.8	R 30
1,2-Dichlorobenzene, Solid	82.77	75.71	100.0	ND	82.8	% 40-160
					8.9	R 30
1,3-Dichlorobenzene, Solid	82.53	74.92	100.0	ND	82.5	% 40-160
					9.7	R 30
1,4-Dichlorobenzene, Solid	82.64	75.21	100.0	ND	82.6	% 56-115
					9.4	R 32
3,3-Dichlorobenzidine, Solid	76.30	76.36	100.0	ND	76.3	% 40-160
					0.1	R 30
Diethyl phthalate, Solid	92.38	92.14	100.0	ND	92.4	% 40-160
					0.3	R 30
Dimethyl phthalate, Solid	87.80	86.59	100.0	ND	87.8	% 40-160
					1.4	R 30
2,4-Dimethylphenol, Solid	90.44	85.86	100.0	ND	90.4	% 40-160
					5.2	R 30
Di-n-butyl phthalate, Solid	92.88	94.48	100.0	ND	92.9	% 40-160
					1.7	R 30
Di-n-octyl phthalate, Solid	104.07	107.15	100.0	ND	104.1	% 40-160
					2.9	R 30
2,4-Dichlorophenol, Solid	92.58	86.34	100.0	ND	92.6	% 40-160
					7.0	R 30

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220328 Report Date.: 08/27/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
MSD	Matrix Spike Duplicate	EX30703A	220328-1		08/20/2003 1917

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits
4,6-Dinitro-2-methylphenol, Solid	77.21	72.73	100.0	ND	77.2	% 40-160
					6.0	R 30
2,4-Dinitrophenol, Solid	40.34	34.95	100.0	ND	40.3	% 40-160
					14.3	R 30
2,4-Dinitrotoluene, Solid	93.65	93.57	100.0	ND	93.7	% 68-115
					0.1	R 30
2,6-Dinitrotoluene, Solid	94.72	92.85	100.0	ND	94.7	% 40-160
					2.0	R 30
Fluoranthene, Solid	88.64	89.91	100.0	ND	88.6	% 40-160
					1.4	R 30
Fluorene, Solid	88.97	88.74	100.0	ND	89.0	% 40-160
					0.3	R 30
Hexachlorobenzene, Solid	90.23	90.06	100.0	ND	90.2	% 40-160
					0.2	R 30
Hexachlorobutadiene, Solid	86.21	80.47	100.0	ND	86.2	% 40-160
					6.9	R 30
Hexachlorocyclopentadiene, Solid	82.44	75.27	100.0	ND	82.4	% 40-160
					9.1	R 30
[illegible]loroethane, Solid	84.27	76.69	100.0	ND	84.3	% 40-160
					9.4	R 30
Indeno(123cd)pyrene, Solid	89.18	90.63	100.0	ND	89.2	% 40-160
					1.6	R 30
Isophorone, Solid	85.68	80.63	100.0	ND	85.7	% 40-160
					6.1	R 30
2-Methylnaphthalene, Solid	86.60	82.40	100.0	ND	86.6	% 40-160
					5.0	R 30
2-Methylphenol (o-cresol), Solid	91.00	83.13	100.0	ND	91.0	% 60-140
					9.0	R 30
3 & 4 Methylphenol (m&p cresol), Solid	177.72	164.80	200.0	ND	88.9	% 60-140
					7.5	R 30
Naphthalene, Solid	86.49	80.84	100.0	ND	86.5	% 40-160
					6.8	R 30
o-Nitroaniline, Solid	91.55	90.52	100.0	ND	91.5	% 40-160
					1.1	R 30
m-Nitroaniline, Solid	78.28	79.55	100.0	ND	78.3	% 40-160
					1.6	R 30
p-Nitroaniline, Solid	92.66	91.64	100.0	ND	92.7	% 40-160
					1.1	R 30
Nitrobenzene, Solid	85.39	79.32	100.0	ND	85.4	% 40-160
					7.4	R 30
2-Nitrophenol, Solid	90.47	83.91	100.0	ND	90.5	% 40-160
					7.5	R 30
4-Nitrophenol, Solid	93.89	92.96	100.0	ND	93.9	% 65-122
					1.0	R 47
n-Nitrosodi-n-propylamine, Solid	86.33	79.32	100.0	ND	86.3	% 40-115
					8.5	R 55
n-Nitrosodiphenylamine, Solid	90.47	89.63	100.0	ND	90.5	% 40-160
					0.9	R 30
Pentachlorophenol, Solid	93.81	90.18	100.0	ND	93.8	% 68-125
					3.9	R 49
Phenanthrene, Solid	90.17	90.54	100.0	ND	90.2	% 40-160
					0.4	R 30
[illegible]ol, Solid	85.53	78.73	100.0	ND	85.5	% 56-115
					8.3	R 23

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220328 Report Date.: 08/27/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
MSD	Matrix Spike Duplicate	EX30703A	220328-1		08/20/2003 1917

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Pyrene, Solid	95.47	96.38	100.0	ND	95.5	%	66-117
					0.9	R	30
Pyridine, Solid	67.13	61.05	100.0	ND	67.1	%	40-160
					9.5	R	30
1,2,4-Trichlorobenzene, Solid	85.69	80.93	100.0	ND	85.7	%	60-115
					5.7	R	28
2,4,5-Trichlorophenol, Solid	94.58	93.75	100.0	ND	94.6	%	40-160
					0.9	R	30
2,4,6-Trichlorophenol, Solid	93.90	90.62	100.0	ND	93.9	%	40-160
					3.6	R	30

SB	Spiked Blank	EX30703A			08/20/2003 1754

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Acenaphthene, Solid	85.72		100.0		85.7	%	68-115
Acenaphthylene, Solid	86.08		100.0		86.1	%	40-160
Aniline, Solid	65.40		100.0		65.4	%	40-160
Anthracene, Solid	91.94		100.0		91.9	%	40-160
Benzo(a)anthracene (1,2-Benzanthracene),	98.22		100.0		98.2	%	40-160
Benzo(b)fluoranthene, Solid	102.12		100.0		102.1	%	40-160
Benzo(k)fluoranthene, Solid	83.16		100.0		83.2	%	40-160
Benzo(ghi)perylene, Solid	87.86		100.0		87.9	%	40-160
Benzo(a)pyrene, Solid	91.95		100.0		92.0	%	40-160
Benzyl alcohol, Solid	87.36		100.0		87.4	%	40-160
Bis(2-chloroethoxy)methane, Solid	81.05		100.0		81.0	%	40-160
Bis(2-chloroethyl)ether, Solid	81.90		100.0		81.9	%	40-160
Bis(2-chloroisopropyl)ether, Solid	79.29		100.0		79.3	%	40-160
Bis(2-ethylhexyl)phthalate, Solid	106.56		100.0		106.6	%	40-160
4-Bromophenyl phenyl ether, Solid	92.07		100.0		92.1	%	40-160
Butyl benzyl phthalate, Solid	103.29		100.0		103.3	%	40-160
4-Chloroaniline, Solid	67.13		100.0		67.1	%	40-160
4-Chloro-3-methylphenol, Solid	92.55		100.0		92.5	%	67-115
2-Chloronaphthalene, Solid	84.58		100.0		84.6	%	40-160
2-Chlorophenol, Solid	81.87		100.0		81.9	%	61-115
4-Chlorophenyl phenyl ether, Solid	87.88		100.0		87.9	%	40-160
Chrysene, Solid	86.03		100.0		86.0	%	40-160
Dibenzo(ah)anthracene, Solid	85.31		100.0		85.3	%	40-160
Dibenzofuran, Solid	85.06		100.0		85.1	%	40-160
1,2-Dichlorobenzene, Solid	77.61		100.0		77.6	%	40-160
1,3-Dichlorobenzene, Solid	77.35		100.0		77.3	%	40-160
1,4-Dichlorobenzene, Solid	77.50		100.0		77.5	%	56-115
3,3-Dichlorobenzidine, Solid	78.04		100.0		78.0	%	40-160
Diethyl phthalate, Solid	91.48		100.0		91.5	%	40-160
Dimethyl phthalate, Solid	86.70		100.0		86.7	%	40-160
2,4-Dimethylphenol, Solid	86.92		100.0		86.9	%	40-160
Di-n-butyl phthalate, Solid	96.09		100.0		96.1	%	40-160
Di-n-octyl phthalate, Solid	109.24		100.0		109.2	%	40-160
2,4-Dichlorophenol, Solid	87.50		100.0		87.5	%	40-160
4,6-Dinitro-2-methylphenol, Solid	84.22		100.0		84.2	%	40-160
2,4-Dinitrophenol, Solid	82.18		100.0		82.2	%	40-160
2,4-Dinitrotoluene, Solid	91.03		100.0		91.0	%	68-115
2,6-Dinitrotoluene, Solid	92.16		100.0		92.2	%	40-160

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220328 Report Date.: 08/27/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 30959 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
SB	Spiked Blank	EX30703A			08/20/2003	1754

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Fluoranthene, Solid	91.35		100.0		91.3	%	40-160
Fluorene, Solid	87.94		100.0		87.9	%	40-160
Hexachlorobenzene, Solid	89.93		100.0		89.9	%	40-160
Hexachlorobutadiene, Solid	84.05		100.0		84.0	%	40-160
Hexachlorocyclopentadiene, Solid	81.19		100.0		81.2	%	40-160
Hexachloroethane, Solid	80.18		100.0		80.2	%	40-160
Indeno(123cd)pyrene, Solid	90.42		100.0		90.4	%	40-160
Isophorone, Solid	82.31		100.0		82.3	%	40-160
2-Methylnaphthalene, Solid	83.83		100.0		83.8	%	40-160
2-Methylphenol (o-cresol), Solid	84.51		100.0		84.5	%	60-140
3 & 4 Methylphenol (m&p cresol), Solid	166.47		200.0		83.2	%	60-140
Naphthalene, Solid	82.80		100.0		82.8	%	40-160
o-Nitroaniline, Solid	89.22		100.0		89.2	%	40-160
m-Nitroaniline, Solid	73.91		100.0		73.9	%	40-160
p-Nitroaniline, Solid	89.57		100.0		89.6	%	40-160
Nitrobenzene, Solid	80.68		100.0		80.7	%	40-160
2-Nitrophenol, Solid	85.41		100.0		85.4	%	40-160
[illegible]rophenol, Solid	93.95		100.0		94.0	%	65-122
[illegible]trosodi-n-propylamine, Solid	81.26		100.0		81.3	%	40-115
n-Nitrosodiphenylamine, Solid	89.90		100.0		89.9	%	40-160
Pentachlorophenol, Solid	103.86		100.0		103.9	%	68-125
Phenanthrene, Solid	91.17		100.0		91.2	%	40-160
Phenol, Solid	79.63		100.0		79.6	%	56-115
Pyrene, Solid	97.07		100.0		97.1	%	66-117
Pyridine, Solid	58.30		100.0		58.3	%	40-160
1,2,4-Trichlorobenzene, Solid	82.21		100.0		82.2	%	60-115
2,4,5-Trichlorophenol, Solid	92.56		100.0		92.6	%	40-160
2,4,6-Trichlorophenol, Solid	91.16		100.0		91.2	%	40-160

Test Method.....: SW-846 8260B Units.....: ug/L Analyst...: krm
Method Description.: Volatile Organics Batch.....: 84040

LCS	Laboratory Control Sample	V30821B			08/21/2003	1158

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Acetone, Solid	18.27		20.00		91.3	%	50-150
Acetonitrile, Solid	282.02		200.00		141.0	%	50-150
Acrolein, Solid	213.90		200.00		107.0	%	50-150
Acrylonitrile, Solid	230.55		200.00		115.3	%	50-150
Benzene, Solid	21.86		20.00		109.3	%	83-125
Bromodichloromethane, Solid	21.82		20.00		109.1	%	50-150
Bromoform (Tribromomethane), Solid	20.34		20.00		101.7	%	50-150
Bromomethane (methyl bromide), Solid	27.12		20.00		135.6	%	50-150
Carbon Disulfide, Solid	29.17		20.00		145.8	%	40-160
Carbon Tetrachloride, Solid	23.02		20.00		115.1	%	50-150
Chlorobenzene, Solid	20.14		20.00		100.7	%	77-121
Chloroethane (Ethyl chloride), Solid	22.79		20.00		114.0	%	50-150
[illegible]hloroethylvinyl Ether, Solid	32.38		20.00		161.9	%	1-305
[illegible]oform, Solid	22.56		20.00		112.8	%	50-150
[illegible]romethane (methyl chloride), Solid	23.49		20.00		117.5	%	50-150
Dibromochloromethane, Solid	20.95		20.00		104.8	%	50-150

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220328 Report Date.: 08/27/2003

CUSTOMER: Entact, Inc. PROJECT: RSR 0U5 3D959 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
LCS	Laboratory Control Sample	V30821B			08/21/2003	1158

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Dibromomethane, Solid	21.87		20.00		109.3	%	50-150
1,2-Dibromoethane (EDB), Solid	22.02		20.00		110.1	%	50-150
Dichlorodifluoromethane, Solid	19.83		20.00		99.2	%	50-150
1,1-Dichloroethane, Solid	22.45		20.00		112.2	%	50-150
1,2-Dichloroethane (EDC), Solid	21.75		20.00		108.8	%	50-150
1,1-Dichloroethene (Vinylidene chloride)	22.30		20.00		111.5	%	70-124
cis-1,2-Dichloroethene, Solid	21.81		20.00		109.0	%	50-150
trans-1,2-Dichloroethene, Solid	22.06		20.00		110.3	%	50-150
1,2-Dichloropropane, Solid	21.76		20.00		108.8	%	50-150
1,3-Dichloropropane, Solid	21.95		20.00		109.8	%	50-150
2,2-Dichloropropane, Solid	22.78		20.00		113.9	%	50-150
1,1-Dichloropropene, Solid	22.50		20.00		112.5	%	50-150
cis-1,3-Dichloropropene, Solid	21.32		20.00		106.6	%	50-150
trans-1,3-Dichloropropene, Solid	22.51		20.00		112.5	%	50-150
1,4-Dioxane, Solid	434.33		400.00		108.6	%	50-150
Ethyl Acetate, Solid	23.66		20.00		118.3	%	50-150
Ethylbenzene, Solid	20.21		20.00		101.0	%	50-150
Ethyl Ether (Diethyl Ether), Solid	23.74		20.00		118.7	%	50-150
Ethyl Methacrylate, Solid	21.07		20.00		105.3	%	50-150
2-Hexanone, Solid	19.41		20.00		97.0	%	50-150
Iodomethane (Methyl Iodide), Solid	19.06		20.00		95.3	%	50-150
→ Methylene Chloride (Dichloromethane), So	47.39		20.00		236.9	%	50-150
Methyl Ethyl Ketone (2-Butanone), Solid	19.45		20.00		97.2	%	50-150
4-Methyl-2-Pentanone (MIBK), Solid	21.12		20.00		105.6	%	50-150
Methyl Methacrylate, Solid	20.87		20.00		104.3	%	50-150
tert-Butyl Methyl Ether (MTBE), Solid	22.35		20.00		111.8	%	50-150
2-Nitropropane, Solid	25.86		20.00		129.3	%	50-150
Styrene, Solid	20.33		20.00		101.7	%	50-150
1,1,2,2-Tetrachloroethane, Solid	22.26		20.00		111.3	%	50-150
Tetrachloroethene, Solid	19.22		20.00		96.1	%	50-150
Toluene, Solid	21.41		20.00		107.0	%	83-120
1,2,3-Trichlorobenzene, Solid	20.80		20.00		104.0	%	50-150
1,1,1-Trichloroethane, Solid	22.56		20.00		112.8	%	50-150
1,1,2-Trichloroethane, Solid	22.21		20.00		111.0	%	50-150
Trichloroethene, Solid	20.94		20.00		104.7	%	78-120
Trichlorofluoromethane, Solid	21.47		20.00		107.3	%	50-150
1,1,2-Trichloro-1,2,2-Trifluoroethane, S	20.04		20.0		100.2	%	50-150
1,2,4-Trimethylbenzene, Solid	20.46		20.00		102.3	%	50-150
1,3,5-Trimethylbenzene, Solid	20.29		20.00		101.5	%	50-150
1,2,3-Trichloropropane, Solid	21.89		20.00		109.5	%	50-150
Vinyl Acetate, Solid	37.62		40.00		94.0	%	50-150
Vinyl Chloride (Chloroethene), Solid	22.37		20.00		111.8	%	50-150
Xylenes (total), Solid	61.43		60.00		102.4	%	50-150

MB	Method Blank	08212003			08/21/2003	1331

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
→ Acetone, Solid	4.91						
Acetonitrile, Solid	ND						
Acrolein, Solid	ND						
Acrylonitrile, Solid	ND						
Benzene, Solid	ND						

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220328 Report Date.: 08/27/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank	08212003			08/21/2003	1331

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Bromodichloromethane, Solid	ND						
Bromoform (Tribromomethane), Solid	ND						
Bromomethane (methyl bromide), Solid	1.95						
Carbon Disulfide, Solid	ND						
Carbon Tetrachloride, Solid	ND						
Chlorobenzene, Solid	ND						
Chloroethane (Ethyl chloride), Solid	ND						
2-Chloroethylvinyl Ether, Solid	ND						
Chloroform, Solid	ND						
Chloromethane (methyl chloride), Solid	0.50						
Dibromochloromethane, Solid	ND						
Dibromomethane, Solid	ND						
1,2-Dibromoethane (EDB), Solid	ND						
Dichlorodifluoromethane, Solid	ND						
1,1-Dichloroethane, Solid	ND						
1,2-Dichloroethane (EDC), Solid	ND						
1,1-Dichloroethene (Vinylidene chloride)	ND						
[illegible]2-Dichloroethene, Solid	ND						
[illegible]-1,2-Dichloroethene, Solid	ND						
1,2-Dichloropropane, Solid	ND						
1,3-Dichloropropane, Solid	ND						
2,2-Dichloropropane, Solid	ND						
1,1-Dichloropropene, Solid	ND						
cis-1,3-Dichloropropene, Solid	ND						
trans-1,3-Dichloropropene, Solid	ND						
1,4-Dioxane, Solid	ND						
Ethyl Acetate, Solid	ND						
Ethylbenzene, Solid	ND						
Ethyl Ether (Diethyl Ether), Solid	ND						
Ethyl Methacrylate, Solid	ND						
2-Hexanone, Solid	ND						
Iodomethane (Methyl Iodide), Solid	ND						
Methylene Chloride (Dichloromethane), So	36.66						
Methyl Ethyl Ketone (2-Butanone), Solid	ND						
4-Methyl-2-Pentanone (MIBK), Solid	2.14						
Methyl Methacrylate, Solid	ND						
tert-Butyl Methyl Ether (MTBE), Solid	ND						
2-Nitropropane, Solid	ND						
Styrene, Solid	ND						
1,1,2,2-Tetrachloroethane, Solid	ND						
Tetrachloroethene, Solid	ND						
Toluene, Solid	1.60						
1,2,3-Trichlorobenzene, Solid	ND						
1,1,1-Trichloroethane, Solid	ND						
1,1,2-Trichloroethane, Solid	ND						
Trichloroethene, Solid	ND						
Trichlorofluoromethane, Solid	0.58						
1,1,2-Trichloro-1,2,2-Trifluoroethane, S	ND						
1,2,4-Trimethylbenzene, Solid	ND						
1,3,5-Trimethylbenzene, Solid	ND						
[illegible]3-Trichloropropane, Solid	ND						
[illegible] Acetate, Solid	ND						
[illegible] Chloride (Chloroethene), Solid	ND						
Xylenes (total), Solid	ND						

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220328 Report Date.: 08/27/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
MS	Matrix Spike	V30820A	220328-1		08/21/2003 1607

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Benzene, Solid	18.26		20.000000	ND	91.3	%	83-125
Chlorobenzene, Solid	16.05		20.000000	ND	80.2	%	77-121
1,1-Dichloroethene (Vinylidene chloride)	21.24		20.000000	ND	106.2	%	70-124
Toluene, Solid	19.27		20.000000	2.80	82.3	%	83-120
Trichloroethene, Solid	17.67		20.000000	ND	88.3	%	78-120

MSD	Matrix Spike Duplicate	V30820A	220328-1		08/21/2003 1638

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Benzene, Solid	16.98	18.26	20.000000	ND	84.9	%	83-125
					7.3	R	21
Chlorobenzene, Solid	14.78	16.05	20.000000	ND	73.9	%	77-121
					8.2	R	21
1,1-Dichloroethene (Vinylidene chloride)	14.15	21.24	20.000000	ND	70.8	%	70-124
					40.1	R	22
Toluene, Solid	17.53	19.27	20.000000	2.80	73.7	%	83-120
					9.5	R	21
Trichloroethene, Solid	15.38	17.67	20.000000	ND	76.9	%	78-120
					13.9	R	24

Test Method.....: TCEQ TX1005 Units.....: mg/L Analyst...: amw
Method Description.: Total Petroleum Hydrocarbons Batch.....: 83973

LCD	Laboratory Control Sample Duplicate	TE30726A			08/19/2003 1726

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
TPH (C6 to C35), Solid	239	245	250.000000		95.6	%	67-118
					2.5	R	20

LCS	Laboratory Control Sample	TE30726A			08/19/2003 1643

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
TPH (C6 to C35), Solid	245		250.000000		98.0	%	67-118

MB	Method Blank	08/19/03			08/19/2003 1601

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Petroleum Hydrocarbons (C6 to C12), Soli	ND						
Petroleum Hydrocarbons (>C12 to C28), So	ND						
Petroleum Hydrocarbons (>C28 to C35), So	ND						
TPH (C6 to C35), Solid	ND						

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220328 Report Date.: 08/27/2003

CUSTOMER: Entact, Inc. PROJECT: RSR 0U5 30959 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MS	Matrix Spike	TE30726A	220296-4		08/20/2003	0029

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
TPH (C6 to C35), Solid	256		250.000000	ND	102.4	%	67-118

MSD	Matrix Spike Duplicate	TE30726A	220296-4		08/20/2003	0112

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
TPH (C6 to C35), Solid	262	256	250.000000	ND	104.8	%	67-118
					2.3	R	20

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

SURROGATE RECOVERIES REPORT

Job Number.: 220328 Report Date.: 08/27/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN: Jenny Elste

Method.....: Total Petroleum Hydrocarbons Method Code.....: TX1005
Batch.....: 83973 Analyst.....: amw Equipment Code:

Surrogate	Units
Nitrobenzene-d5	mg/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	Solid	MB		100.7	100	101	46-131		08/19/2003	1601
	Solid	LCS		102.5	100	102	46-131		08/19/2003	1643
	Solid	LCD		105.6	100	106	46-131		08/19/2003	1726
220296-2	Solid			106.4	100	106	46-131		08/19/2003	2222
220296-3	Solid			72.7	100	73	46-131		08/19/2003	2305
220296-4	Solid			104.3	100	104	46-131		08/19/2003	2347
220296-4	Solid	MS		107.3	100	107	46-131		08/20/2003	0029
220296-4	Solid	MSD		106.2	100	106	46-131		08/20/2003	0112
220296-5	Solid			105.4	100	105	46-131		08/20/2003	0154
220296-6	Solid			65.7	100	66	46-131		08/20/2003	0237
220296-7	Solid			67.2	100	67	46-131		08/20/2003	0319
220296-9	Solid			98.1	100	98	46-131		08/20/2003	044
220296-10	Solid			105.7	100	106	46-131		08/20/2003	052
220328-1	Solid			82.0	100	82	46-131		08/20/2003	0816
220296-8	Solid		10	6.2	100	62	46-131		08/20/2003	1616
220331-1	Solid		30	2.8	100	84	46-131		08/20/2003	1859

Surrogate	Units
o-Terphenyl (Surrogate)	mg/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	Solid	MB		101.5	100	102	67-132		08/19/2003	1601
	Solid	LCS		103.2	100	103	67-132		08/19/2003	1643
	Solid	LCD		105.3	100	105	67-132		08/19/2003	1726
220296-2	Solid			108.8	100	109	67-132		08/19/2003	2222
220296-3	Solid			106.1	100	106	67-132		08/19/2003	2305
220296-4	Solid			105.7	100	106	67-132		08/19/2003	2347
220296-4	Solid	MS		110.0	100	110	67-132		08/20/2003	0029
220296-4	Solid	MSD		109.8	100	110	67-132		08/20/2003	0112
220296-5	Solid			107.6	100	108	67-132		08/20/2003	0154
220296-6	Solid			104.7	100	105	67-132		08/20/2003	0237
220296-7	Solid			106.2	100	106	67-132		08/20/2003	0319
220296-9	Solid			108.2	100	108	67-132		08/20/2003	0444
220296-10	Solid			108.0	100	108	67-132		08/20/2003	0526
220328-1	Solid			116.1	100	116	67-132		08/20/2003	0816
220296-8	Solid		10	7.8	100	78	67-132		08/20/2003	1616
220331-1	Solid		30	3.8	100	114	67-132		08/20/2003	1859

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SEVERN TRENT STL

SURROGATE RECOVERIES REPORT

Job Number.: 220328 Report Date.: 08/27/2003

CUSTOMER: Entact, Inc. PROJECT: RSR 0U5 3D959 ATTN: Jenny Elste

Method.....: Semivolatile Organics Method Code.....: 8270CC
Batch.....: 84000 Analyst.....: bec Equipment Code: SVOC GC/MS #2

Surrogate	Units
2,4,6-Tribromophenol	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	Solid	MB	1.00	143.99	150	96	53-124		08/20/2003	1726
	Solid	SB	1.00	156.47	150	104	53-124		08/20/2003	1754
220328-1	Solid		1.00	149.97	150	100	53-124		08/20/2003	1822
220328-1	Solid	MS	1.00	154.10	150	103	53-124		08/20/2003	1849
220328-1	Solid	MSD	1.00	152.73	150	102	53-124		08/20/2003	1917
220334-1	Solid		1.00	155.06	150	103	53-124		08/20/2003	1945
220334-2	Solid		1.00	150.71	150	100	53-124		08/20/2003	2013

Surrogate	Units
Fluorobiphenyl	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	Solid	MB	1.00	74.89	100	75	41-115		08/20/2003	1726
	Solid	SB	1.00	83.52	100	84	41-115		08/20/2003	1754
220328-1	Solid		1.00	71.18	100	71	41-115		08/20/2003	1822
220328-1	Solid	MS	1.00	78.40	100	78	41-115		08/20/2003	1849
220328-1	Solid	MSD	1.00	79.18	100	79	41-115		08/20/2003	1917
220334-1	Solid		1.00	81.41	100	81	41-115		08/20/2003	1945
220334-2	Solid		1.00	77.77	100	78	41-115		08/20/2003	2013

Surrogate	Units
2-Fluorophenol	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	Solid	MB	1.00	104.73	150	70	31-115		08/20/2003	1726
	Solid	SB	1.00	120.31	150	80	31-115		08/20/2003	1754
220328-1	Solid		1.00	96.84	150	65	31-115		08/20/2003	1822
220328-1	Solid	MS	1.00	115.70	150	77	31-115		08/20/2003	1849
220328-1	Solid	MSD	1.00	122.83	150	82	31-115		08/20/2003	1917
220334-1	Solid		1.00	110.75	150	74	31-115		08/20/2003	1945
220334-2	Solid		1.00	101.00	150	67	31-115		08/20/2003	2013

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SEVERN TRENT STL

SURROGATE RECOVERIES REPORT

Job Number.: 220328 Report Date.: 08/27/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN: Jenny Elste

Surrogate	Units
Nitrobenzene-d5	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	Solid	MB	1.00	74.43	100	74	39-115		08/20/2003	1726
	Solid	SB	1.00	81.14	100	81	39-115		08/20/2003	1754
220328-1	Solid		1.00	69.46	100	69	39-115		08/20/2003	1822
220328-1	Solid	MS	1.00	78.11	100	78	39-115		08/20/2003	1849
220328-1	Solid	MSD	1.00	80.31	100	80	39-115		08/20/2003	1917
220334-1	Solid		1.00	78.28	100	78	39-115		08/20/2003	1945
220334-2	Solid		1.00	72.48	100	72	39-115		08/20/2003	2013

Surrogate	Units
Phenol-d5	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	Solid	MB	1.00	107.15	150	71	40-115		08/20/2003	172
	Solid	SB	1.00	121.76	150	81	40-115		08/20/2003	1754
220328-1	Solid		1.00	103.54	150	69	40-115		08/20/2003	1822
220328-1	Solid	MS	1.00	117.51	150	78	40-115		08/20/2003	1849
220328-1	Solid	MSD	1.00	123.18	150	82	40-115		08/20/2003	1917
220334-1	Solid		1.00	115.47	150	77	40-115		08/20/2003	1945
220334-2	Solid		1.00	106.43	150	71	40-115		08/20/2003	2013

Surrogate	Units
Terphenyl-d14	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	Solid	MB	1.00	89.45	100	89	55-115		08/20/2003	1726
	Solid	SB	1.00	96.73	100	97	55-115		08/20/2003	1754
220328-1	Solid		1.00	92.19	100	92	55-115		08/20/2003	1822
220328-1	Solid	MS	1.00	96.82	100	97	55-115		08/20/2003	1849
220328-1	Solid	MSD	1.00	93.34	100	93	55-115		08/20/2003	1917
220334-1	Solid		1.00	95.71	100	96	55-115		08/20/2003	1945
220334-2	Solid		1.00	89.68	100	90	55-115		08/20/2003	2013

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SEVERN TRENT STL

SURROGATE RECOVERIES REPORT

Job Number.: 220328 Report Date.: 08/27/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN: Jenny Elste

Method.....: Volatile Organics Method Code.....: 8260CC
Batch.....: 84040 Analyst.....: krm Equipment Code: VOC GC/MS #4

Surrogate	Units
1,2-Dichloroethane-d4	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	Solid	LCS	1.00	53.35	50.00000	106.7	69-132		08/21/2003	1158
	Solid	MB	1.00	53.66	50.00000	107.3	69-132		08/21/2003	1331
220334-1	Solid		0.99	56.14	50.00000	112.3	69-132		08/21/2003	1434
220328-1	Solid		1.00	49.98	50.00000	100.0	69-132		08/21/2003	1536
220328-1	Solid	MS	1.01	50.10	50.00000	100.2	69-132		08/21/2003	1607
220328-1	Solid	MSD	1.00	43.46	50.00000	86.9	69-132		08/21/2003	1638
220334-2	Solid		0.98	57.14	50.00000	114.3	69-132		08/21/2003	1710

Surrogate	Units
[redacted]omofluorobenzene	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	Solid	LCS	1.00	49.32	50.00000	98.6	51-139		08/21/2003	1158
	Solid	MB	1.00	47.58	50.00000	95.2	51-139		08/21/2003	1331
220334-1	Solid		0.99	44.67	50.00000	89.3	51-139		08/21/2003	1434
220328-1	Solid		1.00	37.36	50.00000	74.7	51-139		08/21/2003	1536
220328-1	Solid	MS	1.01	35.84	50.00000	71.7	51-139		08/21/2003	1607
220328-1	Solid	MSD	1.00	28.77	50.00000	57.5	51-139		08/21/2003	1638
220334-2	Solid		0.98	43.20	50.00000	86.4	51-139		08/21/2003	1710

Surrogate	Units
Dibromofluoromethane	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	Solid	LCS	1.00	54.22	50.00000	108.4	66-135		08/21/2003	1158
	Solid	MB	1.00	55.33	50.00000	110.7	66-135		08/21/2003	1331
220334-1	Solid		0.99	59.37	50.00000	118.7	66-135		08/21/2003	1434
220328-1	Solid		1.00	51.04	50.00000	102.1	66-135		08/21/2003	1536
220328-1	Solid	MS	1.01	52.77	50.00000	105.5	66-135		08/21/2003	1607
220328-1	Solid	MSD	1.00	43.19	50.00000	86.4	66-135		08/21/2003	1638
220334-2	Solid		0.98	61.35	50.00000	122.7	66-135		08/21/2003	1710

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SEVERN TRENT STL

SURROGATE RECOVERIES REPORT

Job Number.: 220328 Report Date.: 08/27/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN: Jenny Elste

Surrogate	Units
Toluene-d8	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	Solid	LCS	1.00	51.81	50.00000	103.6	63-136		08/21/2003	1158
	Solid	MB	1.00	52.66	50.00000	105.3	63-136		08/21/2003	1331
220334-1	Solid		0.99	51.92	50.00000	103.8	63-136		08/21/2003	1434
220328-1	Solid		1.00	45.32	50.00000	90.6	63-136		08/21/2003	1536
220328-1	Solid	MS	1.01	44.86	50.00000	89.7	63-136		08/21/2003	1607
220328-1	Solid	MSD	1.00	36.99	50.00000	74.0	63-136		08/21/2003	1638
220334-2	Solid		0.98	52.11	50.00000	104.2	63-136		08/21/2003	1710

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SEVERN TRENT STL

LABORATORY CHRONICLE

Job Number: 220328 Date: 08/27/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN: Jenny Elste

Lab ID: 220328-1 Client ID: TS-001 Date Recvd: 08/19/2003 Sample Date: 08/18/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83899		08/19/2003	1100	
SW-846 3550B	Extraction (Ultrasonic) SVOCs	1	83905		08/19/2003	1220	
SW-846 7471A	Mercury (CVAA)	1	83953		08/20/2003	1312	
SW-846 6010B	Metals Analysis (ICAP)	1	84103		08/21/2003	1858	
TCEQ TX1005	Petroleum Hydrocarbons Extraction	1	83903		08/19/2003	1125	
SW-846 8270C	Semivolatile Organics	1	84000		08/20/2003	1822	1.00
TCEQ TX1005	Total Petroleum Hydrocarbons	1	83973		08/20/2003	0816	
SM 2540G	Total, Fixed, and Volatile Solids	1	83944		08/19/2003	1545	
SW-846 8260B	Volatile Organics	1	84040		08/21/2003	1536	1.00

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 08/27/2003

(1) EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983
(2) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, September 1986, and Updates I, II, IIA, IIB, and III
(3) Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
(4) Methods of Organic Chemical Analysis of Municipal and Industrial Wastewater, Federal Register, Vol. 49, No. 209, October 1984 and 40 CFR Part 136 amendments
(5) EPA 600/2-78-054, Field and Laboratory Methods Applicable to Overburdens and Minesoils
(6) Methods of Soil Analysis, American Society of Agronomy, Agronomy No. 9, 1965
(7) ASTM, Section 11 Water and Environmental Technology, Volume 11.01 Water (1), 1991
(8) American Society for Testing and Materials, Petroleum Products, Lubricants, and Fossil Fuels, Section 5, Volumes 05.01 - 05.05
(9) Hach Handbook of Water Analysis, 1979

Comments:
Data in the QC report may differ from final results due to digestion and/or dilution of sample into analytical ranges. The "Time Analyzed" may not be the actual time of analysis. The "Date Analyzed" is the actual date of analysis. Sludge samples are reported on a wet weight basis (i.e., not corrected for percent moisture) unless otherwise indicated.

Quality Control acceptance criteria are based either on limits specified in the referenced method or on actual laboratory performance.

All data is reported on sample "as received" unless noted.

Sample IDs with a "-00" at the end indicate a blank spike or blank spike duplicate associated with the numbered sample.

SAMPLE RESULT IDENTIFICATION

ND	= Not detected at a value greater than the reporting limit
TNTC	= Too numerous to count

BLANK QC SAMPLE IDENTIFICATION

MB	Method Blank
ICB	Initial Calibration Blank
CCB	Continuing Calibration Blank

SPIKE QC SAMPLE IDENTIFICATION

MS	Method (Matrix) Spike
MSD	Method (Matrix) Spike Duplicate
PDS	Post Digestion/Distillation Spike
SB	Spiked Blank
SBD	Spiked Blank Duplicate

REFERENCE STANDARD QC SAMPLE IDENTIFICATION

LCS	Laboratory Control Standard
RS	Reference Standard
ICV	Initial Calibration Verification Standard
CCV	Continuing Calibration Verification Standard
ISA/ISB	ICP Interference Check Sample
DSC	Distilled Standard Check

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 08/27/2003

DUPLICATE QC SAMPLE IDENTIFICATION

MD	Method (Matrix) Duplicate
ED	Extraction Duplicate
DD	Digestion Duplicate
PDD	Post Digestion Duplicate
PSD	Post Digestion/Distillation Spike Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "technician" using the following codes:

SUBCONTRACT LABORATORIES

Severn Trent Laboratories:

Los Angeles, CA	*la	Houston, TX	*he
Aurora, CO	*au	North Canton, OH	*nc
Tampa, FL	*ta	Valparaiso, IN	*vp
Sacramento, CA	*sa	Chicago, IL	*ch
Pensacola, FL	*pe	Tallahassee, FL	*tl

Other:

Client provided data	*cp	Non-STL Subcontract Lab	*xx

EXPLANATION OF DATA FLAGS

B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.
D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.
E - Indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.
I - Used to indicate matrix interference.
X - Indicates that a surrogate recovery is outside the specified quality control limits.
Y - Used to identify a spike or spike duplicate recovery is outside the specified quality control limits.
* - Indicates a relative percent difference for a duplicate analysis is outside the specified quality control limits.
^ - Used to indicate that a standard is outside specified quality control limits.

EXPLANATION OF DATA QUALIFIERS

B - Indicates that a value for an inorganic analysis is an estimate. It is used when a compound is determined to be present but at a concentration less than the quantitation limit of the method.
J - Indicates that a value for an organic analysis is an estimate. It is used when a compound is determined to be present based on chromatographic pattern or mass spectral data, but at a concentration less than the quantitation limit of the method. This flag is also used when estimating the concentration of a tentatively identified compound.
U - Indicates that a value is less than the MDL or was not detected.

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SEVERN TRENT **STL**

No. 17169

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: ENTACT	PROJECT NAME/NUMBER: RSR OUS / 30959
SEND REPORT TO: JENNY ELSTE	**BILLING INFORMATION**
ADDRESS: 4040 W. ROYAL LN #136	BILL TO: SAME
IRVING, TX 75063	ADDRESS:
PHONE: 972-580-1323	PHONE:
FAX: 972-550-7464	FAX: PO NO:

custody seal intact on ice

LAB JOB NO. 220328

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: TOTAL RCRA 8 METALS	TPH	VOC	SEMI-VOC	% MOISTURE	REMARKS/PRECAUTIONS
1	TS-001	8-18-03	14:45	SOIL	3-4oz			X	X	X	X	X	> Report "As Received"
													> Level III Data
													> RL's Pb <5
													As <1

SAMPLER: KIRK GATES | SHIPMENT METHOD: FedEx | AIRBILL NO.: 841431104125

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☒ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☐ OTHER

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Kirk Gates	8-18-03	SIGNATURE: Lisa R. Monroe	8-18-03	SIGNATURE: FedEx	
PRINTED NAME/COMPANY: KIRK GATES / ENTACT	TIME 16:15	PRINTED NAME/COMPANY: LISA R. MONROE / STL	TIME 1700	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: Lisa R Monroe	8-18-03	SIGNATURE: FedEx		SIGNATURE:	8/19/03
PRINTED NAME/COMPANY: LISA R. MONROE / STL	TIME 16:15	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: STL-CC	TIME 0910

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / (361) 289-2471

[redacted]kl | Job Sample Receipt Checklist Report | V2

Job Number.: 220328 Location.: 57203 Check List Number.: 1 Description.:
Customer Job ID.....: Job Check List Date.: Date of the Report..: 08/19/2003
Project Number.: 98000203 Project Description.: Project-EAB Project Manager.....: eab
Customer.....: Entact, Inc. Contact.: Jenny Elste

Questions ?	(Y/N)	Comments
How did samples arrive?.....	Y	FED EX DELIVERED
Chain-of-Custody Present?.....	Y	
Custody seal on shipping container?.....	Y	
...If "yes", custody seal intact?.....	Y	
Custody seals on sample containers?.....	N	
...If "yes", custody seal intact?.....		
Samples chilled?.....	Y	
Temperature blank in cooler?.....	N	
Temp of cooler acceptable? (0.05 to 6.00 deg C)	Y	ON ICE
Samples received intact (good condition)?.....	Y	
Volatile samples acceptable? (no headspace).....		N/A
Correct containers used?.....	Y	
[redacted]uate sample volume provided?.....	Y	
Samples preserved correctly?.....	Y	
Samples received within holding-time?.....	Y	
Agreement between COC and sample labels?.....	Y	
Additional.....		
Comments.....		
Sample Custodian Signature.....		8/19/03

SEVERN TRENT STL

ANALYTICAL REPORT

JOB NUMBER: 220570

Prepared For:

Entact, Inc.
4040 W. Royal Lane
Suite 136
Irving, TX 75063

Attention: Jenny Elste

Date: 09/11/2003

Signature

9/18/03
Date

Name: Chip Meador

Title: Laboratory Director

E-Mail: cmeador@stl-inc.com

Severn Trent Laboratories
1733 N. Padre Island Drive
Corpus Christi, TX 78408

PHONE: 361/289-2673
FAX..: 361/289-2471

TOTAL # OF PAGES 33

SEVERN TRENT STL

SAMPLE INFORMATION
Date: 09/11/2003

Job Number.: 220570
Customer...: Entact, Inc.
Attn.....: Jenny Elste

Project Number.....: 98000203
Customer Project ID....: RSR 0U5 3D959
Project Description....: Project-EAB

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
220570-1	TS-002	Soil	09/03/2003	10:00	09/04/2003	09:35

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220570 Date: 09/11/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN: Jenny Elste

Customer Sample ID: TS-002
Date Sampled.....: 09/03/2003
Time Sampled.....: 10:00
Sample Matrix.....: Soil

Laboratory Sample ID: 220570-1
Date Received.....: 09/04/2003
Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 7471A	Mercury (Hg), Solid	<0.1	0.1	mg/Kg	09/05/03	edr
SM 2540G	% Solids (@ 104 deg. C)	80.0	0.1	%	09/04/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	20.0	0.1	%	09/04/03	hmz
SW-846 6010B	Arsenic (As), Solid	6.3	0.5	mg/Kg	09/05/03	jem
SW-846 6010B	Barium (Ba), Solid	79.4	0.5	mg/Kg	09/05/03	jem
SW-846 6010B	Cadmium (Cd), Solid	0.7	0.5	mg/Kg	09/05/03	jem
SW-846 6010B	Chromium (Cr), Solid	8.8	0.5	mg/Kg	09/05/03	jem
SW-846 6010B	Lead (Pb), Solid	9.9	0.5	mg/Kg	09/05/03	jem
SW-846 6010B	Selenium (Se), Solid	<0.5	0.5	mg/Kg	09/05/03	jem
SW-846 6010B	Silver (Ag), Solid	<0.5	0.5	mg/Kg	09/05/03	jem
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			09/04/03	ac
SW-846 3550B	Extraction (Ultrasonic) SVOCs Ultrasonic Extraction	Complete			09/04/03	sew
SW-846 8270C	Semivolatile Organics					
	Acenaphthene, Solid	ND	330	ug/Kg	09/05/03	bec
	Acenaphthylene, Solid	ND	330	ug/Kg	09/05/03	bec
	Aniline, Solid	ND	660	ug/Kg	09/05/03	bec
	Anthracene, Solid	ND	330	ug/Kg	09/05/03	bec
	Benzo(a)anthracene (1,2-Benzanthracene), Solid	ND	330	ug/Kg	09/05/03	bec
	Benzo(b)fluoranthene, Solid	ND	330	ug/Kg	09/05/03	bec
	Benzo(k)fluoranthene, Solid	ND	330	ug/Kg	09/05/03	bec
	Benzo(ghi)perylene, Solid	ND	330	ug/Kg	09/05/03	bec
	Benzo(a)pyrene, Solid	ND	330	ug/Kg	09/05/03	bec
	Benzyl alcohol, Solid	ND	660	ug/Kg	09/05/03	bec
	Bis(2-chloroethoxy)methane, Solid	ND	330	ug/Kg	09/05/03	bec
	Bis(2-chloroethyl)ether, Solid	ND	330	ug/Kg	09/05/03	bec
	Bis(2-chloroisopropyl)ether, Solid	ND	330	ug/Kg	09/05/03	bec
	Bis(2-ethylhexyl)phthalate, Solid	ND	330	ug/Kg	09/05/03	bec
	4-Bromophenyl phenyl ether, Solid	ND	330	ug/Kg	09/05/03	bec
	Butyl benzyl phthalate, Solid	ND	330	ug/Kg	09/05/03	bec
	4-Chloroaniline, Solid	ND	660	ug/Kg	09/05/03	bec
	4-Chloro-3-methylphenol, Solid	ND	660	ug/Kg	09/05/03	bec
	2-Chloronaphthalene, Solid	ND	330	ug/Kg	09/05/03	bec
	2-Chlorophenol, Solid	ND	330	ug/Kg	09/05/03	bec
	4-Chlorophenyl phenyl ether, Solid	ND	330	ug/Kg	09/05/03	bec
	Chrysene, Solid	ND	330	ug/Kg	09/05/03	bec

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220570 Date: 09/11/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN: Jenny Elste

Customer Sample ID: TS-002
Date Sampled.....: 09/03/2003
Time Sampled.....: 10:00
Sample Matrix.....: Soil

Laboratory Sample ID: 220570-1
Date Received.....: 09/04/2003
Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
	Dibenzo(ah)anthracene, Solid	ND	330	ug/Kg	09/05/03	bec
	Dibenzofuran, Solid	ND	330	ug/Kg	09/05/03	bec
	1,2-Dichlorobenzene, Solid	ND	330	ug/Kg	09/05/03	bec
	1,3-Dichlorobenzene, Solid	ND	330	ug/Kg	09/05/03	bec
	1,4-Dichlorobenzene, Solid	ND	330	ug/Kg	09/05/03	bec
	3,3-Dichlorobenzidine, Solid	ND	660	ug/Kg	09/05/03	bec
	Diethyl phthalate, Solid	ND	330	ug/Kg	09/05/03	bec
	Dimethyl phthalate, Solid	ND	330	ug/Kg	09/05/03	bec
	2,4-Dimethylphenol, Solid	ND	330	ug/Kg	09/05/03	bec
	Di-n-butyl phthalate, Solid	ND	330	ug/Kg	09/05/03	bec
	Di-n-octyl phthalate, Solid	ND	330	ug/Kg	09/05/03	bec
	2,4-Dichlorophenol, Solid	ND	330	ug/Kg	09/05/03	bec
	4,6-Dinitro-2-methylphenol, Solid	ND	1665	ug/Kg	09/05/03	bec
	2,4-Dinitrophenol, Solid	ND	1665	ug/Kg	09/05/03	bec
	2,4-Dinitrotoluene, Solid	ND	330	ug/Kg	09/05/03	bec
	2,6-Dinitrotoluene, Solid	ND	330	ug/Kg	09/05/03	bec
	Fluoranthene, Solid	ND	330	ug/Kg	09/05/03	bec
	Fluorene, Solid	ND	330	ug/Kg	09/05/03	bec
	Hexachlorobenzene, Solid	ND	330	ug/Kg	09/05/03	bec
	Hexachlorobutadiene, Solid	ND	330	ug/Kg	09/05/03	bec
	Hexachlorocyclopentadiene, Solid	ND	330	ug/Kg	09/05/03	bec
	Hexachloroethane, Solid	ND	330	ug/Kg	09/05/03	bec
	Indeno(123cd)pyrene, Solid	ND	330	ug/Kg	09/05/03	bec
	Isophorone, Solid	ND	330	ug/Kg	09/05/03	bec
	2-Methylnaphthalene, Solid	ND	330	ug/Kg	09/05/03	bec
	2-Methylphenol (o-cresol), Solid	ND	330	ug/Kg	09/05/03	bec
	3 & 4 Methylphenol (m&p cresol), Solid	ND	330	ug/Kg	09/05/03	bec
	Naphthalene, Solid	ND	330	ug/Kg	09/05/03	bec
	o-Nitroaniline, Solid	ND	1665	ug/Kg	09/05/03	bec
	m-Nitroaniline, Solid	ND	1665	ug/Kg	09/05/03	bec
	p-Nitroaniline, Solid	ND	660	ug/Kg	09/05/03	bec
	Nitrobenzene, Solid	ND	330	ug/Kg	09/05/03	bec
	2-Nitrophenol, Solid	ND	330	ug/Kg	09/05/03	bec
	4-Nitrophenol, Solid	ND	1665	ug/Kg	09/05/03	bec
	n-Nitrosodi-n-propylamine, Solid	ND	330	ug/Kg	09/05/03	bec
	n-Nitrosodiphenylamine, Solid	ND	330	ug/Kg	09/05/03	bec
	Pentachlorophenol, Solid	ND	1665	ug/Kg	09/05/03	bec
	Phenanthrene, Solid	ND	330	ug/Kg	09/05/03	bec
	Phenol, Solid	ND	330	ug/Kg	09/05/03	bec
	Pyrene, Solid	ND	330	ug/Kg	09/05/03	bec
	Pyridine, Solid	ND	330	ug/Kg	09/05/03	bec
	1,2,4-Trichlorobenzene, Solid	ND	330	ug/Kg	09/05/03	bec
	2,4,5-Trichlorophenol, Solid	ND	330	ug/Kg	09/05/03	bec
	2,4,6-Trichlorophenol, Solid	ND	330	ug/Kg	09/05/03	bec
SW-846 8260B	Volatile Organics					
	Acetone, Solid	ND	100	ug/Kg	09/04/03	krm
	Acetonitrile, Solid	ND	50	ug/Kg	09/04/03	krm
	Acrolein, Solid	ND	50	ug/Kg	09/04/03	krm

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220570 Date: 09/11/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN: Jenny Elste

Customer Sample ID: TS-002
Date Sampled.....: 09/03/2003
Time Sampled.....: 10:00
Sample Matrix.....: Soil

Laboratory Sample ID: 220570-1
Date Received.....: 09/04/2003
Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
	Acrylonitrile, Solid	ND	20	ug/Kg	09/04/03	krm
	Benzene, Solid	ND	5	ug/Kg	09/04/03	krm
	Bromodichloromethane, Solid	ND	5	ug/Kg	09/04/03	krm
	Bromoform (Tribromomethane), Solid	ND	5	ug/Kg	09/04/03	krm
	Bromomethane (methyl bromide), Solid	ND	5	ug/Kg	09/04/03	krm
	Carbon Disulfide, Solid	ND	5	ug/Kg	09/04/03	krm
	Carbon Tetrachloride, Solid	ND	5	ug/Kg	09/04/03	krm
	Chlorobenzene, Solid	ND	5	ug/Kg	09/04/03	krm
	Chloroethane (Ethyl chloride), Solid	ND	5	ug/Kg	09/04/03	krm
	2-Chloroethylvinyl Ether, Solid	ND	5	ug/Kg	09/04/03	krm
	Chloroform, Solid	ND	5	ug/Kg	09/04/03	krm
	Chloromethane (methyl chloride), Solid	ND	5	ug/Kg	09/04/03	krm
	Dibromochloromethane, Solid	ND	5	ug/Kg	09/04/03	krm
	Dibromomethane, Solid	ND	5	ug/Kg	09/04/03	krm
	1,2-Dibromoethane (EDB), Solid	ND	5	ug/Kg	09/04/03	krm
	Dichlorodifluoromethane, Solid	ND	5	ug/Kg	09/04/03	krm
	1,1-Dichloroethane, Solid	ND	5	ug/Kg	09/04/03	krm
	1,2-Dichloroethane (EDC), Solid	ND	5	ug/Kg	09/04/03	krm
	1,1-Dichloroethene (Vinylidene chloride), Solid	ND	5	ug/Kg	09/04/03	krm
	cis-1,2-Dichloroethene, Solid	ND	5	ug/Kg	09/04/03	krm
	trans-1,2-Dichloroethene, Solid	ND	5	ug/Kg	09/04/03	krm
	1,2-Dichloropropane, Solid	ND	5	ug/Kg	09/04/03	krm
	1,3-Dichloropropane, Solid	ND	5	ug/Kg	09/04/03	krm
	2,2-Dichloropropane, Solid	ND	5	ug/Kg	09/04/03	krm
	1,1-Dichloropropene, Solid	ND	5	ug/Kg	09/04/03	krm
	cis-1,3-Dichloropropene, Solid	ND	5	ug/Kg	09/04/03	krm
	trans-1,3-Dichloropropene, Solid	ND	5	ug/Kg	09/04/03	krm
	1,4-Dioxane, Solid	ND	100	ug/Kg	09/04/03	krm
	Ethyl Acetate, Solid	ND	5	ug/Kg	09/04/03	krm
	Ethylbenzene, Solid	ND	5	ug/Kg	09/04/03	krm
	Ethyl Ether (Diethyl Ether), Solid	ND	5	ug/Kg	09/04/03	krm
	Ethyl Methacrylate, Solid	ND	5	ug/Kg	09/04/03	krm
	2-Hexanone, Solid	ND	5	ug/Kg	09/04/03	krm
	Iodomethane (Methyl Iodide), Solid	ND	5	ug/Kg	09/04/03	krm
	Methylene Chloride (Dichloromethane), Solid	ND	50	ug/Kg	09/04/03	krm
	Methyl Ethyl Ketone (2-Butanone), Solid	ND	10	ug/Kg	09/04/03	krm
	4-Methyl-2-Pentanone (MIBK), Solid	ND	5	ug/Kg	09/04/03	krm
	Methyl Methacrylate, Solid	ND	5	ug/Kg	09/04/03	krm
	tert-Butyl Methyl Ether (MTBE), Solid	ND	5	ug/Kg	09/04/03	krm
	2-Nitropropane, Solid	ND	5	ug/Kg	09/04/03	krm
	Styrene, Solid	ND	5	ug/Kg	09/04/03	krm
	1,1,2,2-Tetrachloroethane, Solid	ND	5	ug/Kg	09/04/03	krm
	Tetrachloroethene, Solid	ND	5	ug/Kg	09/04/03	krm
	Toluene, Solid	ND	5	ug/Kg	09/04/03	krm
	1,2,3-Trichlorobenzene, Solid	ND	5	ug/Kg	09/04/03	krm
	1,1,1-Trichloroethane, Solid	ND	5	ug/Kg	09/04/03	krm
	1,1,2-Trichloroethane, Solid	ND	5	ug/Kg	09/04/03	krm
	Trichloroethene, Solid	ND	5	ug/Kg	09/04/03	krm
	Trichlorofluoromethane, Solid	ND	5	ug/Kg	09/04/03	krm

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220570 Date: 09/11/2003

CUSTOMER: Entact, Inc. PROJECT: RSR 0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: TS-002
Date Sampled.....: 09/03/2003
Time Sampled.....: 10:00
Sample Matrix.....: Soil

Laboratory Sample ID: 220570-1
Date Received.....: 09/04/2003
Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
	1,1,2-Trichloro-1,2,2-Trifluoroethane, Solid	ND	50	ug/Kg	09/04/03	krm
	1,2,4-Trimethylbenzene, Solid	ND	5	ug/Kg	09/04/03	krm
	1,3,5-Trimethylbenzene, Solid	ND	5	ug/Kg	09/04/03	krm
	1,2,3-Trichloropropane, Solid	ND	5	ug/Kg	09/04/03	krm
	Vinyl Acetate, Solid	ND	5	ug/Kg	09/04/03	krm
	Vinyl Chloride (Chloroethene), Solid	ND	5	ug/Kg	09/04/03	krm
	Xylenes (total), Solid	ND	5	ug/Kg	09/04/03	krm
TCEQ TX1005	Petroleum Hydrocarbons Extraction					
	n-Pentane Extraction - Solids & Wastes	Complete			09/04/03	amw
TCEQ TX1005	Total Petroleum Hydrocarbons					
	Petroleum Hydrocarbons (C6 to C12), Solid	ND	50	mg/Kg	09/06/03	den
	Petroleum Hydrocarbons (>C12 to C28), Solid	ND	50	mg/Kg	09/06/03	den
	Petroleum Hydrocarbons (>C28 to C35), Solid	ND	50	mg/Kg	09/06/03	den
	TPH (C6 to C35), Solid	ND	50	mg/Kg	09/06/03	den

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220570 Report Date.: 09/11/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN: Jenny Elste

Test Method.....: SW-846 7471A Batch.....: 84478 Analyst...: edr
Method Description.: Mercury (CVAA) Units.....: mg/Kg Test Code.: HGL
Parameter.....: Mercury (Hg)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICV		M090503HG	0.00538		0.005000		107.6	%	90-110	09/05/2003	1416
ICB			-0.000056							09/05/2003	1418
LCS		M090503LG	0.00516		0.0050		103.2	%	85-115	09/05/2003	1422
MB			-0.000123							09/05/2003	1424
MS	220571-2	M090503HG	0.00546		0.005000	-0.000022	109.6	%	85-115	09/05/2003	1439
MSD	220571-2	M090503HG	0.00567	0.00546	0.005000	-0.000022	113.8	%	85-115	09/05/2003	1441
							3.8	R	20		
CCV		M090503HG	0.00555		0.005000		111.0	%	80-120	09/05/2003	1445
CCB			0.000069							09/05/2003	1447

Test Method.....: SM 2540G Batch.....: 84466 Analyst...: hmz
Method Description.: Total, Fixed, and Volatile Solids Units.....: % Test Code.: %SOLID
Parameter.....: % Solids (@ 104 deg. C)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MB		EX30731B	100.0							09/04/2003	1020
MD	220570-1		80.3			80.0	0.4	R	20	09/04/2003	1027
MD	220570-1		80.2	80.3		80.0	0.2	R	20	09/04/2003	1030

Test Method.....: SM 2540G Batch.....: 84466 Analyst...: hmz
Method Description.: Total, Fixed, and Volatile Solids Units.....: % Test Code.: MOIST
Parameter.....: Moisture (@ 104 deg. C)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MB		EX30731B	0.0							09/04/2003	1020
MD	220570-1		19.7			20.0	1.5	R	20	09/04/2003	1027
MD	220570-1		19.8	19.7		20.0	1.0	R	20	09/04/2003	1030

Test Method.....: SW-846 6010B Batch.....: 84489 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0364	1.99352317		2.00		99.7	%	90-110	09/05/2003	1027
ICV		M0346	0.98925953		1.00		98.9	%	90-110	09/05/2003	1035
ICV		M0356	0.98914842		1.00		98.9	%	90-110	09/05/2003	1042
ICB			0.00325166							09/05/2003	1054
CCV		M0363	1.01059776		1.00		101.1	%	90-110	09/05/2003	1110
CCB			0.00339123							09/05/2003	1116
MB		3010	-0.0009824							09/05/2003	1150
LCS		M347	0.49424663		0.500		98.8	%	85-110	09/05/2003	1154
MS	220573-2	M347	0.52072218		0.500	0.00312458	103.5	%	75-125	09/05/2003	1218
MSD	220573-2	M347	0.51535463	0.52072218	0.500	0.00312458	102.4	%	75-125	09/05/2003	1222
							1.0	R	20		
[redacted]	220573-2	M346B	1.01837689		1.00	0.00312458	101.5	%	75-125	09/05/2003	1226
		M0363	1.00520206		1.00		100.5	%	90-110	09/05/2003	1230
CCB			-0.0022425							09/05/2003	1237

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220570 Report Date.: 09/11/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN: Jenny Elste

Test Method.....: SW-846 6010B Batch.....: 84489 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
PSD	220573-2	M346B	0.99595964	1.01837689	1.00	0.00312458	99.3	%	75-125	09/05/2003	1241
							2.2	R	20		
MB		3050	0.00160481							09/05/2003	1305
LCS		M347	0.47669111		0.500		95.3	%	85-110	09/05/2003	1309
CCV		M0363	1.00326026		1.00		100.3	%	90-110	09/05/2003	1321
CCB			-0.0002984							09/05/2003	1329
MS	220565-1	M347	0.55020935		0.500	0.06965235	96.1	%	75-125	09/05/2003	1345
MSD	220565-1	M347	0.51489276	0.55020935	0.500	0.06965235	89.0	%	75-125	09/05/2003	1349
							6.6	R	20		
PDS	220565-1	M346B	1.01827901		1.00	0.06965235	94.9	%	75-125	09/05/2003	1353
PSD	220565-1	M346B	1.02352205	1.01827901	1.00	0.06965235	95.4	%	75-125	09/05/2003	1357
							0.5	R	20		
CCV		M0363	0.99455846		1.00		99.5	%	90-110	09/05/2003	1414
CCB			0.00301665							09/05/2003	1422
CCV		M0363	0.99795407		1.00		99.8	%	90-110	09/05/2003	1446
CCB			0.00344224							09/05/2003	1453
MB		3010	0.00167797							09/05/2003	14[illegible]
LCS		M347	0.50271473		0.500		100.5	%	85-110	09/05/2003	150[illegible]
MB		3010	0.00641868							09/05/2003	1600
LCS		M347	0.54684799		0.500		109.4	%	85-110	09/05/2003	1605
CCV		M0363	1.03952547		1.00		104.0	%	90-110	09/05/2003	1616
CCB			0.01166312							09/05/2003	1620

Test Method.....: SW-846 6010B Batch.....: 84489 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: BA
Parameter.....: Barium (Ba)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0364	2.00030998		2.00		100.0	%	90-110	09/05/2003	1027
ICV		M0348	1.01010905		1.00		101.0	%	90-110	09/05/2003	1038
ICV		M0360	0.98515199		1.00		98.5	%	90-110	09/05/2003	1046
ICB			-0.0007512							09/05/2003	1054
CCV		M0363	1.02400895		1.00		102.4	%	90-110	09/05/2003	1110
CCB			-0.0005495							09/05/2003	1116
MB		3010	-0.0008452							09/05/2003	1150
LCS		M347	0.50058279		0.500		100.1	%	90-110	09/05/2003	1154
MS	220573-2	M347	0.72821363		0.500	0.21435280	102.8	%	75-125	09/05/2003	1218
MSD	220573-2	M347	0.73069140	0.72821363	0.500	0.21435280	103.3	%	75-125	09/05/2003	1222
							0.3	R	20		
PDS	220573-2	M346B	1.20600333		1.00	0.21435280	99.2	%	75-125	09/05/2003	1226
CCV		M0363	1.04414850		1.00		104.4	%	90-110	09/05/2003	1230
CCB			-0.0007892							09/05/2003	1237
PSD	220573-2	M346B	1.20797743	1.20600333	1.00	0.21435280	99.4	%	75-125	09/05/2003	1241
							0.2	R	20		
MB		3050	-0.0004480							09/05/2003	1305
LCS		M347	0.49146529		0.500		98.3	%	90-110	09/05/2003	1309
CCV		M0363	1.02537587		1.00		102.5	%	90-110	09/05/2003	1321
CCB			-0.0004498							09/05/2003	13[illegible]
PDS	220565-1	M346B	1.91327887		1.00	1.00002161	91.3	%	75-125	09/05/2003	13[illegible]
PSD	220565-1	M346B	1.90877169	1.91327887	1.00	1.00002161	90.9	%	75-125	09/05/2003	135[illegible]
							0.2	R	20		

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220570 Report Date.: 09/11/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN: Jenny Elste

Test Method.....: SW-846 6010B Batch.....: 84489 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: BA
Parameter.....: Barium (Ba)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0363	1.01843917		1.00		101.8	%	90-110	09/05/2003	1414
CCB			-0.0004383							09/05/2003	1422
CCV		M0363	1.01705952		1.00		101.7	%	90-110	09/05/2003	1446
CCB			-0.0007262							09/05/2003	1453
MB		3010	-0.0007636							09/05/2003	1457
LCS		M347	0.51850324		0.500		103.7	%	90-110	09/05/2003	1501
MB		3010	-0.0009014							09/05/2003	1600
LCS		M347	0.55011467		0.500		110.0	%	90-110	09/05/2003	1605
CCV		M0363	1.04954627		1.00		105.0	%	90-110	09/05/2003	1616
CCB			-0.0002958							09/05/2003	1620

Test Method.....: SW-846 6010B Batch.....: 84489 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CD
Parameter.....: Cadmium (Cd)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
		M0364	2.00655095		2.00		100.3	%	90-110	09/05/2003	1027
ICV		M0346	1.01330310		1.00		101.3	%	90-110	09/05/2003	1035
ICV		M0356	0.99013143		1.00		99.0	%	90-110	09/05/2003	1042
ICB			-0.0002995							09/05/2003	1054
CCV		M0363	1.02418039		1.00		102.4	%	90-110	09/05/2003	1110
CCB			-0.0003400							09/05/2003	1116
MB		3010	-0.0004015							09/05/2003	1150
LCS		M347	0.49605145		0.500		99.2	%	87-110	09/05/2003	1154
MS	220573-2	M347	0.51249455		0.500	-0.0003533	102.6	%	75-125	09/05/2003	1218
MSD	220573-2	M347	0.51212649	0.51249455	0.500	-0.0003533	102.5	%	75-125	09/05/2003	1222
							0.1	R	20		
PDS	220573-2	M346B	0.99647793		1.00	-0.0003533	99.7	%	75-125	09/05/2003	1226
CCV		M0363	1.04897701		1.00		104.9	%	90-110	09/05/2003	1230
CCB			-0.0001575							09/05/2003	1237
PSD	220573-2	M346B	0.99863975	0.99647793	1.00	-0.0003533	99.9	%	75-125	09/05/2003	1241
							0.2	R	20		
MB		3050	0.00494734							09/05/2003	1305
LCS		M347	0.48156624		0.500		96.3	%	87-110	09/05/2003	1309
CCV		M0363	0.99813669		1.00		99.8	%	90-110	09/05/2003	1321
CCB			0.00050670							09/05/2003	1329
MS	220565-1	M347	0.45932896		0.500	0.00874436	90.1	%	75-125	09/05/2003	1345
MSD	220565-1	M347	0.45840194	0.45932896	0.500	0.00874436	89.9	%	75-125	09/05/2003	1349
							0.2	R	20		
PDS	220565-1	M346B	0.92027126		1.00	0.00874436	91.2	%	75-125	09/05/2003	1353
PSD	220565-1	M346B	0.91965047	0.92027126	1.00	0.00874436	91.1	%	75-125	09/05/2003	1357
							0.1	R	20		
CCV		M0363	0.98327257		1.00		98.3	%	90-110	09/05/2003	1414
CCB			0.00059086							09/05/2003	1422
CCV		M0363	0.98127074		1.00		98.1	%	90-110	09/05/2003	1446
CCB			0.00047251							09/05/2003	1453
MB		3010	0.00007808							09/05/2003	1457
LCS		M347	0.50288668		0.500		100.6	%	87-110	09/05/2003	1501
		3010	-0.0000500							09/05/2003	1600
		M347	0.56845219		0.500		113.7	%	80-120	09/05/2003	1605
CCV		M0363	1.08688843		1.00		108.7	%	90-110	09/05/2003	1616

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220570 Report Date.: 09/11/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN: Jenny Elste

Test Method.....: SW-846 6010B Batch.....: 84489 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CD
Parameter.....: Cadmium (Cd)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB			0.00097220							09/05/2003	1620

Test Method.....: SW-846 6010B Batch.....: 84489 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: CR
Parameter.....: Chromium (Cr)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0364	2.00195901		2.00		100.1	%	90-110	09/05/2003	1027
ICV		M0346	1.00978272		1.00		101.0	%	90-110	09/05/2003	1035
ICV		M0356	0.99569277		1.00		99.6	%	90-110	09/05/2003	1042
ICB			-0.0006426							09/05/2003	1054
CCV		M0363	1.02235565		1.00		102.2	%	90-110	09/05/2003	1110
CCB			-0.0007738							09/05/2003	1116
MB		3010	-0.0009136							09/05/2003	1150
LCS		M347	0.50288652		0.500		100.6	%	90-110	09/05/2003	11
MS	220573-2	M347	0.52296117		0.500	0.00425016	103.7	%	75-125	09/05/2003	121
MSD	220573-2	M347	0.52389189	0.52296117	0.500	0.00425016	103.9	%	75-125	09/05/2003	1222
							0.2	R	20		
PDS	220573-2	M346B	1.01404609		1.00	0.00425016	101.0	%	75-125	09/05/2003	1226
CCV		M0363	1.05393429		1.00		105.4	%	90-110	09/05/2003	1230
CCB			-0.0012280							09/05/2003	1237
PSD	220573-2	M346B	1.01438300	1.01404609	1.00	0.00425016	101.0	%	75-125	09/05/2003	1241
							0.0	R	20		
MB		3050	-0.0006055							09/05/2003	1305
LCS		M347	0.49450532		0.500		98.9	%	90-110	09/05/2003	1309
CCV		M0363	1.03561002		1.00		103.6	%	90-110	09/05/2003	1321
CCB			-0.0010162							09/05/2003	1329
MS	220565-1	M347	0.60276955		0.500	0.10153469	100.2	%	75-125	09/05/2003	1345
MSD	220565-1	M347	0.56409119	0.60276955	0.500	0.10153469	92.5	%	75-125	09/05/2003	1349
							6.6	R	20		
PDS	220565-1	M346B	1.06827044		1.00	0.10153469	96.7	%	75-125	09/05/2003	1353
PSD	220565-1	M346B	1.06663704	1.06827044	1.00	0.10153469	96.5	%	75-125	09/05/2003	1357
							0.2	R	20		
CCV		M0363	1.03314712		1.00		103.3	%	90-110	09/05/2003	1414
CCB			-0.0013138							09/05/2003	1422
CCV		M0363	1.03384808		1.00		103.4	%	90-110	09/05/2003	1446
CCB			-0.0013264							09/05/2003	1453
MB		3010	-0.0012197							09/05/2003	1457
LCS		M347	0.52647097		0.500		105.3	%	90-110	09/05/2003	1501
MB		3010	0.02390719							09/05/2003	1600
LCS		M347	0.58378867		0.500		116.8	%	80-120	09/05/2003	1605
CCV		M0363	1.09493030		1.00		109.5	%	90-110	09/05/2003	1616
CCB			0.01391348							09/05/2003	1620

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220570 Report Date.: 09/11/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN: Jenny Elste

Test Method.....: SW-846 6010B Batch.....: 84489 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0364	2.00044809		2.00		100.0	%	90-110	09/05/2003	1027
ICV		M0346	1.01521566		1.00		101.5	%	90-110	09/05/2003	1035
ICV		M0356	1.01254698		1.00		101.3	%	90-110	09/05/2003	1042
ICB			-0.0001524							09/05/2003	1054
CCV		M0363	1.01114713		1.00		101.1	%	90-110	09/05/2003	1110
CCB			-0.0001772							09/05/2003	1116
MB		3010	0.00008124							09/05/2003	1150
LCS		M347	0.49447343		0.500		98.9	%	87-112	09/05/2003	1154
MS	220573-2	M347	0.51132286		0.500	0.00590731	101.1	%	75-125	09/05/2003	1218
MSD	220573-2	M347	0.51017323	0.51132286	0.500	0.00590731	100.9	%	75-125	09/05/2003	1222
							0.2	R	20		
PDS	220573-2	M346B	0.99788279		1.00	0.00590731	99.2	%	75-125	09/05/2003	1226
CCV		M0363	1.02141402		1.00		102.1	%	90-110	09/05/2003	1230
CCB			0.00206349							09/05/2003	1237
PSD	220573-2	M346B	0.98347922	0.99788279	1.00	0.00590731	97.8	%	75-125	09/05/2003	1241
							1.5	R	20		
		3050	0.02544143							09/05/2003	1305
		M347	0.54800423		0.500		109.6	%	87-112	09/05/2003	1309
CCV		M0363	0.99803636		1.00		99.8	%	90-110	09/05/2003	1321
CCB			0.00117176							09/05/2003	1329
MS	220565-1	M347	0.56485383		0.500	0.11117779	90.7	%	75-125	09/05/2003	1345
MSD	220565-1	M347	0.54917966	0.56485383	0.500	0.11117779	87.6	%	75-125	09/05/2003	1349
							2.8	R	20		
PDS	220565-1	M346B	1.02347720		1.00	0.11117779	91.2	%	75-125	09/05/2003	1353
PSD	220565-1	M346B	1.02448348	1.02347720	1.00	0.11117779	91.3	%	75-125	09/05/2003	1357
							0.1	R	20		
CCV		M0363	0.99222976		1.00		99.2	%	90-110	09/05/2003	1414
CCB			0.00202409							09/05/2003	1422
CCV		M0363	0.99376244		1.00		99.4	%	90-110	09/05/2003	1446
CCB			0.00066291							09/05/2003	1453
MB		3010	0.00139811							09/05/2003	1457
LCS		M347	0.50381998		0.500		100.8	%	87-112	09/05/2003	1501
MB		3010	0.00134003							09/05/2003	1600
LCS		M347	0.56966846		0.500		113.9	%	80-120	09/05/2003	1605
CCV		M0363	1.07696217		1.00		107.7	%	90-110	09/05/2003	1616
CCB			0.00447683							09/05/2003	1620

Test Method.....: SW-846 6010B Batch.....: 84489 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SE
Parameter.....: Selenium (Se)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0364	2.02217346		2.00		101.1	%	90-110	09/05/2003	1027
ICV		M0346	1.02620009		1.00		102.6	%	90-110	09/05/2003	1035
ICV		M0356	1.00194602		1.00		100.2	%	90-110	09/05/2003	1042
ICB			0.00568771							09/05/2003	1054
CCV		M0363	1.01265888		1.00		101.3	%	90-110	09/05/2003	1110
CCB			0.00403284							09/05/2003	1116
		3010	-0.0014590							09/05/2003	1150
		M347	0.47678520		0.500		95.4	%	82-111	09/05/2003	1154
MS	220573-2	M347	0.51290828		0.500	0.01450993	99.7	%	75-125	09/05/2003	1218

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220570 Report Date.: 09/11/2003

CUSTOMER: Entact, Inc. PROJECT: RSR 0U5 3D959 ATTN: Jenny Elste

Test Method.....: SW-846 6010B Batch.....: 84489 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SE
Parameter.....: Selenium (Se)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MSD	220573-2	M347	0.50923805	0.51290828	0.500	0.01450993	98.9	%	75-125	09/05/2003	1222
							0.7	R	20		
PDS	220573-2	M346B	1.00004110		1.00	0.01450993	98.6	%	75-125	09/05/2003	1226
CCV		M0363	1.03010863		1.00		103.0	%	90-110	09/05/2003	1230
CCB			-0.0028131							09/05/2003	1237
PSD	220573-2	M346B	0.99483491	1.00004110	1.00	0.01450993	98.0	%	75-125	09/05/2003	1241
							0.5	R	20		
MB		3050	0.00433633							09/05/2003	1305
LCS		M347	0.45140341		0.500		90.3	%	82-111	09/05/2003	1309
CCV		M0363	0.99276389		1.00		99.3	%	90-110	09/05/2003	1321
CCB			0.00480993							09/05/2003	1325
MS	220565-1	M347	0.45256727		0.500	0.01931517	86.7	%	75-125	09/05/2003	1345
MSD	220565-1	M347	0.47267363	0.45256727	0.500	0.01931517	90.7	%	75-125	09/05/2003	1349
							4.3	R	20		
PDS	220565-1	M346B	0.93377037		1.00	0.01931517	91.4	%	75-125	09/05/2003	1353
PSD	220565-1	M346B	0.93708059	0.93377037	1.00	0.01931517	91.8	%	75-125	09/05/2003	1357
							0.4	R	20		
CCV		M0363	0.96561414		1.00		96.6	%	90-110	09/05/2003	141[illegible]
CCB			-0.0038562							09/05/2003	1422
CCV		M0363	0.97144932		1.00		97.1	%	90-110	09/05/2003	1446
CCB			-0.0086324							09/05/2003	1449
MB		3010	0.00065315							09/05/2003	1457
LCS		M347	0.47191826		0.500		94.4	%	82-111	09/05/2003	1501
MB		3010	0.01354209							09/05/2003	1600
LCS		M347	0.49224150		0.500		98.4	%	82-111	09/05/2003	1605
CCV		M0363	0.97492641		1.00		97.5	%	90-110	09/05/2003	1616
CCB			0.00141502							09/05/2003	1620

Test Method.....: SW-846 6010B Batch.....: 84489 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AG
Parameter.....: Silver (Ag)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0364	1.00161996		1.0		100.2	%	90-110	09/05/2003	1027
ICV		M0348	1.03741367		1.00		103.7	%	90-110	09/05/2003	1038
ICV		M0360	0.50532648		0.50		101.1	%	90-110	09/05/2003	1046
ICB			0.00019417							09/05/2003	1054
CCV		M0363	0.50891244		0.50		101.8	%	90-110	09/05/2003	1110
CCB			0.00080335							09/05/2003	1116
MB		3010	0.00101152							09/05/2003	1150
LCS		M347	0.24417859		0.25		97.7	%	87-110	09/05/2003	1154
PDS	220573-2	M346B	0.48563508		0.50	-0.0004076	97.2	%	75-125	09/05/2003	1226
CCV		M0363	0.51641829		0.50		103.3	%	90-110	09/05/2003	1230
CCB			0.00037943							09/05/2003	1237
PSD	220573-2	M346B	0.48296107	0.48563508	0.50	-0.0004076	96.7	%	75-125	09/05/2003	1241
							0.6	R	20		
MB		3050	0.00122344							09/05/2003	1305
LCS		M347	0.23802703		0.25		95.2	%	87-110	09/05/2003	130[illegible]
CCV		M0363	0.50314580		0.50		100.6	%	90-110	09/05/2003	13[illegible]
CCB			0.00020715							09/05/2003	132[illegible]
MS	220565-1	M347	0.23905945		0.25	-0.0025401	96.6	%	75-125	09/05/2003	1345

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220570 Report Date.: 09/11/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN: Jenny Elste

Test Method.....: SW-846 6010B Batch.....: 84489 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AG
Parameter.....: Silver (Ag)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MSD	220565-1	M347	0.24062427	0.23905945	0.25	-0.0025401	97.3	%	75-125	09/05/2003	1349
							0.7	R	20		
PDS	220565-1	M346B	0.48161713		0.50	-0.0025401	96.8	%	75-125	09/05/2003	1353
PSD	220565-1	M346B	0.47974306	0.48161713	0.50	-0.0025401	96.5	%	75-125	09/05/2003	1357
							0.4	R	20		
CCV		M0363	0.50203206		0.50		100.4	%	90-110	09/05/2003	1414
CCB			0.00053610							09/05/2003	1422
CCV		M0363	0.50271048		0.50		100.5	%	90-110	09/05/2003	1446
CCB			0.00037605							09/05/2003	1453
MB		3010	-0.0001940							09/05/2003	1457
LCS		M347	0.25307495		0.25		101.2	%	87-110	09/05/2003	1501
MB		3010	0.0010416							09/05/2003	1600
LCS		M347	0.25315845		0.25		101.3	%	87-110	09/05/2003	1605
CCV		M0363	0.49075370		0.50		98.2	%	90-110	09/05/2003	1616
CCB			0.00132562							09/05/2003	1620

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220570 Report Date.: 09/11/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN: Jenny Elste

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank	090403			09/04/2003	2332

Test Method.....: SW-846 8270C Units.....: ug/L Analyst...: bec
Method Description.: Semivolatile Organics Batch.....: 84487

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Acenaphthene, Solid	ND						
Acenaphthylene, Solid	ND						
Aniline, Solid	ND						
Anthracene, Solid	ND						
Benzo(a)anthracene (1,2-Benzanthracene),	ND						
Benzo(b)fluoranthene, Solid	ND						
Benzo(k)fluoranthene, Solid	ND						
Benzo(ghi)perylene, Solid	ND						
Benzo(a)pyrene, Solid	ND						
Benzyl alcohol, Solid	ND						
Bis(2-chloroethoxy)methane, Solid	ND						
Bis(2-chloroethyl)ether, Solid	ND						
Bis(2-chloroisopropyl)ether, Solid	ND						
Bis(2-ethylhexyl)phthalate, Solid	ND						
4-Bromophenyl phenyl ether, Solid	ND						
Butyl benzyl phthalate, Solid	ND						
4-Chloroaniline, Solid	ND						
4-Chloro-3-methylphenol, Solid	ND						
2-Chloronaphthalene, Solid	ND						
2-Chlorophenol, Solid	ND						
4-Chlorophenyl phenyl ether, Solid	ND						
Chrysene, Solid	ND						
Dibenzo(ah)anthracene, Solid	ND						
Dibenzofuran, Solid	ND						
1,2-Dichlorobenzene, Solid	ND						
1,3-Dichlorobenzene, Solid	ND						
1,4-Dichlorobenzene, Solid	ND						
3,3-Dichlorobenzidine, Solid	ND						
Diethyl phthalate, Solid	ND						
Dimethyl phthalate, Solid	ND						
2,4-Dimethylphenol, Solid	ND						
Di-n-butyl phthalate, Solid	ND						
Di-n-octyl phthalate, Solid	ND						
2,4-Dichlorophenol, Solid	ND						
4,6-Dinitro-2-methylphenol, Solid	ND						
2,4-Dinitrophenol, Solid	ND						
2,4-Dinitrotoluene, Solid	ND						
2,6-Dinitrotoluene, Solid	ND						
Fluoranthene, Solid	ND						
Fluorene, Solid	ND						
Hexachlorobenzene, Solid	ND						
Hexachlorobutadiene, Solid	ND						
Hexachlorocyclopentadiene, Solid	ND						
Hexachloroethane, Solid	ND						
Indeno(123cd)pyrene, Solid	ND						
Isophorone, Solid	ND						
2-Methylnaphthalene, Solid	ND						
2-Methylphenol (o-cresol), Solid	ND						
3 & 4 Methylphenol (m&p cresol), Solid	ND						
Naphthalene, Solid	ND						

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220570 Report Date.: 09/11/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank	090403			09/04/2003	2332

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
o-Nitroaniline, Solid	ND						
m-Nitroaniline, Solid	ND						
p-Nitroaniline, Solid	ND						
Nitrobenzene, Solid	ND						
2-Nitrophenol, Solid	ND						
4-Nitrophenol, Solid	ND						
n-Nitrosodi-n-propylamine, Solid	ND						
n-Nitrosodiphenylamine, Solid	ND						
Pentachlorophenol, Solid	ND						
Phenanthrene, Solid	ND						
Phenol, Solid	ND						
Pyrene, Solid	ND						
Pyridine, Solid	ND						
1,2,4-Trichlorobenzene, Solid	ND						
2,4,5-Trichlorophenol, Solid	ND						
2,4,6-Trichlorophenol, Solid	ND						

	Matrix Spike	EX30703A	220570-1		09/05/2003	0055

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Acenaphthene, Solid	91.36		100.0	ND	91.4	%	68-115
Acenaphthylene, Solid	91.16		100.0	ND	91.2	%	40-160
Aniline, Solid	73.38		100.0	ND	73.4	%	40-160
Anthracene, Solid	94.79		100.0	ND	94.8	%	40-160
Benzo(a)anthracene (1,2-Benzanthracene),	97.89		100.0	ND	97.9	%	40-160
Benzo(b)fluoranthene, Solid	104.87		100.0	ND	104.9	%	40-160
Benzo(k)fluoranthene, Solid	84.60		100.0	ND	84.6	%	40-160
Benzo(ghi)perylene, Solid	91.96		100.0	ND	92.0	%	40-160
Benzo(a)pyrene, Solid	94.64		100.0	ND	94.6	%	40-160
Benzyl alcohol, Solid	90.13		100.0	ND	90.1	%	40-160
Bis(2-chloroethoxy)methane, Solid	88.51		100.0	ND	88.5	%	40-160
Bis(2-chloroethyl)ether, Solid	84.47		100.0	ND	84.5	%	40-160
Bis(2-chloroisopropyl)ether, Solid	84.73		100.0	ND	84.7	%	40-160
Bis(2-ethylhexyl)phthalate, Solid	92.39		100.0	ND	92.4	%	40-160
4-Bromophenyl phenyl ether, Solid	95.23		100.0	ND	95.2	%	40-160
Butyl benzyl phthalate, Solid	97.97		100.0	ND	98.0	%	40-160
4-Chloroaniline, Solid	75.08		100.0	ND	75.1	%	40-160
4-Chloro-3-methylphenol, Solid	93.66		100.0	ND	93.7	%	67-115
2-Chloronaphthalene, Solid	90.97		100.0	ND	91.0	%	40-160
2-Chlorophenol, Solid	88.77		100.0	ND	88.8	%	61-115
4-Chlorophenyl phenyl ether, Solid	89.91		100.0	ND	89.9	%	40-160
Chrysene, Solid	87.50		100.0	ND	87.5	%	40-160
Dibenzo(ah)anthracene, Solid	86.78		100.0	ND	86.8	%	40-160
Dibenzofuran, Solid	91.25		100.0	ND	91.2	%	40-160
1,2-Dichlorobenzene, Solid	82.42		100.0	ND	82.4	%	40-160
1,3-Dichlorobenzene, Solid	81.40		100.0	ND	81.4	%	40-160
1,4-Dichlorobenzene, Solid	81.00		100.0	ND	81.0	%	56-115
3,3-Dichlorobenzidine, Solid	86.47		100.0	ND	86.5	%	40-160
Diethyl phthalate, Solid	89.19		100.0	ND	89.2	%	40-160
[illegible]thyl phthalate, Solid	88.52		100.0	ND	88.5	%	40-160
[illegible]Dimethylphenol, Solid	94.46		100.0	ND	94.5	%	40-160
Di-n-butyl phthalate, Solid	88.29		100.0	ND	88.3	%	40-160

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220570 Report Date.: 09/11/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
MS	Matrix Spike	EX30703A	220570-1		09/05/2003 0055

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Di-n-octyl phthalate, Solid	93.82		100.0	ND	93.8	%	40-160
2,4-Dichlorophenol, Solid	92.44		100.0	ND	92.4	%	40-160
4,6-Dinitro-2-methylphenol, Solid	61.29		100.0	ND	61.3	%	40-160
2,4-Dinitrophenol, Solid	51.71		100.0	ND	51.7	%	40-160
2,4-Dinitrotoluene, Solid	93.48		100.0	ND	93.5	%	68-115
2,6-Dinitrotoluene, Solid	93.98		100.0	ND	94.0	%	40-160
Fluoranthene, Solid	90.84		100.0	ND	90.8	%	40-160
Fluorene, Solid	91.57		100.0	ND	91.6	%	40-160
Hexachlorobenzene, Solid	93.56		100.0	ND	93.6	%	40-160
Hexachlorobutadiene, Solid	87.44		100.0	ND	87.4	%	40-160
Hexachlorocyclopentadiene, Solid	54.42		100.0	ND	54.4	%	40-160
Hexachloroethane, Solid	81.41		100.0	ND	81.4	%	40-160
Indeno(123cd)pyrene, Solid	93.36		100.0	ND	93.4	%	40-160
Isophorone, Solid	85.15		100.0	ND	85.2	%	40-160
2-Methylnaphthalene, Solid	86.21		100.0	ND	86.2	%	40-160
2-Methylphenol (o-cresol), Solid	89.85		100.0	ND	89.8	%	60-140
3 & 4 Methylphenol (m&p cresol), Solid	173.80		200.0	ND	86.9	%	60-140
Naphthalene, Solid	87.55		100.0	ND	87.5	%	40-160
o-Nitroaniline, Solid	94.59		100.0	ND	94.6	%	40-160
m-Nitroaniline, Solid	81.45		100.0	ND	81.5	%	40-160
p-Nitroaniline, Solid	91.56		100.0	ND	91.6	%	40-160
Nitrobenzene, Solid	87.37		100.0	ND	87.4	%	40-160
2-Nitrophenol, Solid	91.33		100.0	ND	91.3	%	40-160
4-Nitrophenol, Solid	92.48		100.0	ND	92.5	%	65-122
n-Nitrosodi-n-propylamine, Solid	84.54		100.0	ND	84.5	%	40-115
n-Nitrosodiphenylamine, Solid	94.19		100.0	ND	94.2	%	40-160
Pentachlorophenol, Solid	86.58		100.0	ND	86.6	%	68-125
Phenanthrene, Solid	93.71		100.0	ND	93.7	%	40-160
Phenol, Solid	85.65		100.0	ND	85.7	%	56-115
Pyrene, Solid	105.87		100.0	ND	105.9	%	66-117
Pyridine, Solid	53.51		100.0	ND	53.5	%	40-160
1,2,4-Trichlorobenzene, Solid	88.14		100.0	ND	88.1	%	60-115
2,4,5-Trichlorophenol, Solid	96.24		100.0	ND	96.2	%	40-160
2,4,6-Trichlorophenol, Solid	95.66		100.0	ND	95.7	%	40-160

MSD	Matrix Spike Duplicate	EX30703A	220570-1		09/05/2003 0123

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Acenaphthene, Solid	94.27	91.36	100.0	ND	94.3	%	68-115
					3.1	R	28
Acenaphthylene, Solid	94.41	91.16	100.0	ND	94.4	%	40-160
					3.5	R	30
Aniline, Solid	78.00	73.38	100.0	ND	78.0	%	40-160
					6.1	R	40
Anthracene, Solid	95.11	94.79	100.0	ND	95.1	%	40-160
					0.3	R	30
Benzo(a)anthracene (1,2-Benzanthracene),	100.53	97.89	100.0	ND	100.5	%	40-160
					2.7	R	30
Benzo(b)fluoranthene, Solid	109.05	104.87	100.0	ND	109.0	%	40-160
					3.9	R	30
Benzo(k)fluoranthene, Solid	86.54	84.60	100.0	ND	86.5	%	40-160
					2.3	R	30

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220570 Report Date.: 09/11/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
MSD	Matrix Spike Duplicate	EX30703A	220570-1		09/05/2003 0123

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Benzo(ghi)perylene, Solid	93.74	91.96	100.0	ND	93.7	%	40-160
					1.9	R	30
Benzo(a)pyrene, Solid	97.46	94.64	100.0	ND	97.5	%	40-160
					2.9	R	30
Benzyl alcohol, Solid	94.96	90.13	100.0	ND	95.0	%	40-160
					5.2	R	30
Bis(2-chloroethoxy)methane, Solid	91.33	88.51	100.0	ND	91.3	%	40-160
					3.1	R	30
Bis(2-chloroethyl)ether, Solid	87.99	84.47	100.0	ND	88.0	%	40-160
					4.1	R	30
Bis(2-chloroisopropyl)ether, Solid	88.24	84.73	100.0	ND	88.2	%	40-160
					4.1	R	30
Bis(2-ethylhexyl)phthalate, Solid	95.09	92.39	100.0	ND	95.1	%	40-160
					2.9	R	30
4-Bromophenyl phenyl ether, Solid	96.15	95.23	100.0	ND	96.2	%	40-160
					1.0	R	30
Butyl benzyl phthalate, Solid	99.79	97.97	100.0	ND	99.8	%	40-160
					1.8	R	30
[redacted]oroaniline, Solid	70.84	75.08	100.0	ND	70.8	%	40-160
					5.8	R	30
4-Chloro-3-methylphenol, Solid	96.71	93.66	100.0	ND	96.7	%	67-115
					3.2	R	37
2-Chloronaphthalene, Solid	94.92	90.97	100.0	ND	94.9	%	40-160
					4.2	R	30
2-Chlorophenol, Solid	94.03	88.77	100.0	ND	94.0	%	61-115
					5.8	R	29
4-Chlorophenyl phenyl ether, Solid	93.21	89.91	100.0	ND	93.2	%	40-160
					3.6	R	30
Chrysene, Solid	89.49	87.50	100.0	ND	89.5	%	40-160
					2.2	R	30
Dibenzo(ah)anthracene, Solid	89.90	86.78	100.0	ND	89.9	%	40-160
					3.5	R	30
Dibenzofuran, Solid	93.84	91.25	100.0	ND	93.8	%	40-160
					2.8	R	30
1,2-Dichlorobenzene, Solid	86.87	82.42	100.0	ND	86.9	%	40-160
					5.3	R	30
1,3-Dichlorobenzene, Solid	86.56	81.40	100.0	ND	86.6	%	40-160
					6.1	R	30
1,4-Dichlorobenzene, Solid	85.85	81.00	100.0	ND	85.8	%	56-115
					5.8	R	32
3,3-Dichlorobenzidine, Solid	86.94	86.47	100.0	ND	86.9	%	40-160
					0.5	R	30
Diethyl phthalate, Solid	92.24	89.19	100.0	ND	92.2	%	40-160
					3.4	R	30
Dimethyl phthalate, Solid	91.86	88.52	100.0	ND	91.9	%	40-160
					3.7	R	30
2,4-Dimethylphenol, Solid	98.78	94.46	100.0	ND	98.8	%	40-160
					4.5	R	30
Di-n-butyl phthalate, Solid	89.86	88.29	100.0	ND	89.9	%	40-160
					1.8	R	30
Di-n-octyl phthalate, Solid	95.94	93.82	100.0	ND	95.9	%	40-160
					2.2	R	30
[redacted]ichlorophenol, Solid	97.45	92.44	100.0	ND	97.5	%	40-160
					5.3	R	30

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220570 Report Date.: 09/11/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
MSD	Matrix Spike Duplicate	EX30703A	220570-1		09/05/2003 0123

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits
4,6-Dinitro-2-methylphenol, Solid	66.61	61.29	100.0	ND	66.6	% 40-160
					8.3	R 30
2,4-Dinitrophenol, Solid	59.33	51.71	100.0	ND	59.3	% 40-160
					13.7	R 30
2,4-Dinitrotoluene, Solid	95.55	93.48	100.0	ND	95.5	% 68-115
					2.2	R 30
2,6-Dinitrotoluene, Solid	98.07	93.98	100.0	ND	98.1	% 40-160
					4.3	R 30
Fluoranthene, Solid	92.51	90.84	100.0	ND	92.5	% 40-160
					1.8	R 30
Fluorene, Solid	94.05	91.57	100.0	ND	94.0	% 40-160
					2.7	R 30
Hexachlorobenzene, Solid	95.22	93.56	100.0	ND	95.2	% 40-160
					1.8	R 30
Hexachlorobutadiene, Solid	91.63	87.44	100.0	ND	91.6	% 40-160
					4.7	R 30
Hexachlorocyclopentadiene, Solid	62.86	54.42	100.0	ND	62.9	% 40-160
					14.4	R 30
Hexachloroethane, Solid	85.91	81.41	100.0	ND	85.9	% 40-160
					5.4	R 30
Indeno(123cd)pyrene, Solid	96.02	93.36	100.0	ND	96.0	% 40-160
					2.8	R 30
Isophorone, Solid	88.30	85.15	100.0	ND	88.3	% 40-160
					3.6	R 30
2-Methylnaphthalene, Solid	88.93	86.21	100.0	ND	88.9	% 40-160
					3.1	R 30
2-Methylphenol (o-cresol), Solid	95.37	89.85	100.0	ND	95.4	% 60-140
					6.0	R 30
3 & 4 Methylphenol (m&p cresol), Solid	183.89	173.80	200.0	ND	91.9	% 60-140
					5.6	R 30
Naphthalene, Solid	91.34	87.55	100.0	ND	91.3	% 40-160
					4.2	R 30
o-Nitroaniline, Solid	98.00	94.59	100.0	ND	98.0	% 40-160
					3.5	R 30
m-Nitroaniline, Solid	79.51	81.45	100.0	ND	79.5	% 40-160
					2.4	R 30
p-Nitroaniline, Solid	93.25	91.56	100.0	ND	93.2	% 40-160
					1.8	R 30
Nitrobenzene, Solid	91.56	87.37	100.0	ND	91.6	% 40-160
					4.7	R 30
2-Nitrophenol, Solid	95.57	91.33	100.0	ND	95.6	% 40-160
					4.5	R 30
4-Nitrophenol, Solid	96.44	92.48	100.0	ND	96.4	% 65-122
					4.2	R 47
n-Nitrosodi-n-propylamine, Solid	88.23	84.54	100.0	ND	88.2	% 40-115
					4.3	R 55
n-Nitrosodiphenylamine, Solid	94.71	94.19	100.0	ND	94.7	% 40-160
					0.6	R 30
Pentachlorophenol, Solid	90.85	86.58	100.0	ND	90.8	% 68-125
					4.8	R 49
Phenanthrene, Solid	95.54	93.71	100.0	ND	95.5	% 40-160
					1.9	R 30
Phenol, Solid	91.96	85.65	100.0	ND	92.0	% 56-115
					7.1	R 23

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220570 Report Date.: 09/11/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
MSD	Matrix Spike Duplicate	EX30703A	220570-1		09/05/2003 0123

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Pyrene, Solid	107.21	105.87	100.0	ND	107.2	%	66-117
					1.3	R	30
Pyridine, Solid	69.49	53.51	100.0	ND	69.5	%	40-160
					26.0	R	30
1,2,4-Trichlorobenzene, Solid	91.30	88.14	100.0	ND	91.3	%	60-115
					3.5	R	28
2,4,5-Trichlorophenol, Solid	100.03	96.24	100.0	ND	100.0	%	40-160
					3.9	R	30
2,4,6-Trichlorophenol, Solid	99.47	95.66	100.0	ND	99.5	%	40-160
					3.9	R	30

SB	Spiked Blank	EX30703A			09/05/2003 0000

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Acenaphthene, Solid	90.08		100.0		90.1	%	68-115
Acenaphthylene, Solid	89.06		100.0		89.1	%	40-160
Aniline, Solid	66.26		100.0		66.3	%	40-160
Anthracene, Solid	95.59		100.0		95.6	%	40-160
Benzo(a)anthracene (1,2-Benzanthracene),	99.81		100.0		99.8	%	40-160
Benzo(b)fluoranthene, Solid	106.83		100.0		106.8	%	40-160
Benzo(k)fluoranthene, Solid	90.62		100.0		90.6	%	40-160
Benzo(ghi)perylene, Solid	96.29		100.0		96.3	%	40-160
Benzo(a)pyrene, Solid	98.29		100.0		98.3	%	40-160
Benzyl alcohol, Solid	84.59		100.0		84.6	%	40-160
Bis(2-chloroethoxy)methane, Solid	79.42		100.0		79.4	%	40-160
Bis(2-chloroethyl)ether, Solid	74.90		100.0		74.9	%	40-160
Bis(2-chloroisopropyl)ether, Solid	77.04		100.0		77.0	%	40-160
Bis(2-ethylhexyl)phthalate, Solid	96.46		100.0		96.5	%	40-160
4-Bromophenyl phenyl ether, Solid	96.56		100.0		96.6	%	40-160
Butyl benzyl phthalate, Solid	100.10		100.0		100.1	%	40-160
4-Chloroaniline, Solid	66.07		100.0		66.1	%	40-160
4-Chloro-3-methylphenol, Solid	91.41		100.0		91.4	%	67-115
2-Chloronaphthalene, Solid	86.71		100.0		86.7	%	40-160
2-Chlorophenol, Solid	79.28		100.0		79.3	%	61-115
4-Chlorophenyl phenyl ether, Solid	92.06		100.0		92.1	%	40-160
Chrysene, Solid	88.80		100.0		88.8	%	40-160
Dibenzo(ah)anthracene, Solid	91.32		100.0		91.3	%	40-160
Dibenzofuran, Solid	89.60		100.0		89.6	%	40-160
1,2-Dichlorobenzene, Solid	74.86		100.0		74.9	%	40-160
1,3-Dichlorobenzene, Solid	76.13		100.0		76.1	%	40-160
1,4-Dichlorobenzene, Solid	74.45		100.0		74.5	%	56-115
3,3-Dichlorobenzidine, Solid	84.02		100.0		84.0	%	40-160
Diethyl phthalate, Solid	90.70		100.0		90.7	%	40-160
Dimethyl phthalate, Solid	88.70		100.0		88.7	%	40-160
2,4-Dimethylphenol, Solid	86.94		100.0		86.9	%	40-160
Di-n-butyl phthalate, Solid	91.34		100.0		91.3	%	40-160
Di-n-octyl phthalate, Solid	96.05		100.0		96.0	%	40-160
2,4-Dichlorophenol, Solid	85.48		100.0		85.5	%	40-160
4,6-Dinitro-2-methylphenol, Solid	60.50		100.0		60.5	%	40-160
2,4-Dinitrophenol, Solid	57.90		100.0		57.9	%	40-160
2,4-Dinitrotoluene, Solid	93.08		100.0		93.1	%	68-115
2,6-Dinitrotoluene, Solid	93.98		100.0		94.0	%	40-160

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220570 Report Date.: 09/11/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
SB	Spiked Blank	EX30703A			09/05/2003	0000

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Fluoranthene, Solid	92.49		100.0		92.5	%	40-160
Fluorene, Solid	92.21		100.0		92.2	%	40-160
Hexachlorobenzene, Solid	97.29		100.0		97.3	%	40-160
Hexachlorobutadiene, Solid	80.18		100.0		80.2	%	40-160
Hexachlorocyclopentadiene, Solid	47.76		100.0		47.8	%	40-160
Hexachloroethane, Solid	75.93		100.0		75.9	%	40-160
Indeno(123cd)pyrene, Solid	97.71		100.0		97.7	%	40-160
Isophorone, Solid	80.72		100.0		80.7	%	40-160
2-Methylnaphthalene, Solid	80.31		100.0		80.3	%	40-160
2-Methylphenol (o-cresol), Solid	82.56		100.0		82.6	%	60-140
3 & 4 Methylphenol (m&p cresol), Solid	161.07		200.0		80.5	%	60-140
Naphthalene, Solid	78.82		100.0		78.8	%	40-160
o-Nitroaniline, Solid	93.90		100.0		93.9	%	40-160
m-Nitroaniline, Solid	77.81		100.0		77.8	%	40-160
p-Nitroaniline, Solid	89.94		100.0		89.9	%	40-160
Nitrobenzene, Solid	76.06		100.0		76.1	%	40-160
2-Nitrophenol, Solid	81.67		100.0		81.7	%	40-160
4-Nitrophenol, Solid	93.76		100.0		93.8	%	65-122
n-Nitrosodi-n-propylamine, Solid	78.85		100.0		78.8	%	40-115
n-Nitrosodiphenylamine, Solid	96.06		100.0		96.1	%	40-160
Pentachlorophenol, Solid	88.37		100.0		88.4	%	68-125
Phenanthrene, Solid	96.40		100.0		96.4	%	40-160
Phenol, Solid	78.60		100.0		78.6	%	56-115
Pyrene, Solid	107.36		100.0		107.4	%	66-117
Pyridine, Solid	59.00		100.0		59.0	%	40-160
1,2,4-Trichlorobenzene, Solid	78.05		100.0		78.0	%	60-115
2,4,5-Trichlorophenol, Solid	95.01		100.0		95.0	%	40-160
2,4,6-Trichlorophenol, Solid	94.23		100.0		94.2	%	40-160

Test Method.....: SW-846 8260B Units.....: ug/L Analyst...: krm
Method Description.: Volatile Organics Batch.....: 84522

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
LCS	Laboratory Control Sample	V30821B			09/04/2003	1137

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Acetone, Solid	13.75		20.00		68.8	%	50-150
Acetonitrile, Solid	205.33		200.00		102.7	%	50-150
Acrolein, Solid	243.84		200.00		121.9	%	50-150
Acrylonitrile, Solid	185.20		200.00		92.6	%	50-150
Benzene, Solid	18.79		20.00		94.0	%	83-125
Bromodichloromethane, Solid	19.07		20.00		95.3	%	50-150
Bromoform (Tribromomethane), Solid	19.04		20.00		95.2	%	50-150
Bromomethane (methyl bromide), Solid	15.67		20.00		78.3	%	50-150
Carbon Disulfide, Solid	19.69		20.00		98.5	%	40-160
Carbon Tetrachloride, Solid	19.10		20.00		95.5	%	50-150
Chlorobenzene, Solid	18.74		20.00		93.7	%	77-121
Chloroethane (Ethyl chloride), Solid	17.58		20.00		87.9	%	50-150
2-Chloroethylvinyl Ether, Solid	31.03		20.00		155.2	%	1-305
Chloroform, Solid	19.22		20.00		96.1	%	50-150
Chloromethane (methyl chloride), Solid	22.07		20.00		110.3	%	50-150
Dibromochloromethane, Solid	18.86		20.00		94.3	%	50-150

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220570 Report Date.: 09/11/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
LCS	Laboratory Control Sample	V30821B			09/04/2003	1137

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Dibromomethane, Solid	18.65		20.00		93.2	%	50-150
1,2-Dibromoethane (EDB), Solid	19.72		20.00		98.6	%	50-150
Dichlorodifluoromethane, Solid	16.72		20.00		83.6	%	50-150
1,1-Dichloroethane, Solid	18.64		20.00		93.2	%	50-150
1,2-Dichloroethane (EDC), Solid	19.02		20.00		95.1	%	50-150
1,1-Dichloroethene (Vinylidene chloride)	17.99		20.00		90.0	%	70-124
cis-1,2-Dichloroethene, Solid	18.31		20.00		91.5	%	50-150
trans-1,2-Dichloroethene, Solid	17.92		20.00		89.6	%	50-150
1,2-Dichloropropane, Solid	18.02		20.00		90.1	%	50-150
1,3-Dichloropropane, Solid	18.42		20.00		92.1	%	50-150
2,2-Dichloropropane, Solid	19.51		20.00		97.5	%	50-150
1,1-Dichloropropene, Solid	18.61		20.00		93.0	%	50-150
cis-1,3-Dichloropropene, Solid	18.73		20.00		93.7	%	50-150
trans-1,3-Dichloropropene, Solid	18.77		20.00		93.8	%	50-150
1,4-Dioxane, Solid	385.49		400.00		96.4	%	50-150
Ethyl Acetate, Solid	17.81		20.00		89.0	%	50-150
Ethylbenzene, Solid	19.41		20.00		97.0	%	50-150
[illegible] Ether (Diethyl Ether), Solid	18.64		20.00		93.2	%	50-150
[illegible] Methacrylate, Solid	18.78		20.00		93.9	%	50-150
2-Hexanone, Solid	18.20		20.00		91.0	%	50-150
Iodomethane (Methyl Iodide), Solid	17.31		20.00		86.5	%	50-150
Methylene Chloride (Dichloromethane), So	24.28		20.00		121.4	%	50-150
Methyl Ethyl Ketone (2-Butanone), Solid	19.61		20.00		98.0	%	50-150
4-Methyl-2-Pentanone (MIBK), Solid	25.44		20.00		127.2	%	50-150
Methyl Methacrylate, Solid	18.98		20.00		94.9	%	50-150
tert-Butyl Methyl Ether (MTBE), Solid	19.13		20.00		95.7	%	50-150
2-Nitropropane, Solid	20.05		20.00		100.2	%	50-150
Styrene, Solid	18.73		20.00		93.7	%	50-150
1,1,2,2-Tetrachloroethane, Solid	18.86		20.00		94.3	%	50-150
Tetrachloroethene, Solid	17.42		20.00		87.1	%	50-150
Toluene, Solid	20.69		20.00		103.5	%	83-120
1,2,3-Trichlorobenzene, Solid	18.82		20.00		94.1	%	50-150
1,1,1-Trichloroethane, Solid	19.65		20.00		98.2	%	50-150
1,1,2-Trichloroethane, Solid	18.05		20.00		90.2	%	50-150
Trichloroethene, Solid	19.48		20.00		97.4	%	78-120
Trichlorofluoromethane, Solid	17.97		20.00		89.8	%	50-150
1,1,2-Trichloro-1,2,2-Trifluoroethane, S	16.04		20.0		80.2	%	50-150
1,2,4-Trimethylbenzene, Solid	18.72		20.00		93.6	%	50-150
1,3,5-Trimethylbenzene, Solid	19.03		20.00		95.2	%	50-150
1,2,3-Trichloropropane, Solid	19.09		20.00		95.5	%	50-150
Vinyl Acetate, Solid	29.80		40.00		74.5	%	50-150
Vinyl Chloride (Chloroethene), Solid	17.88		20.00		89.4	%	50-150
Xylenes (total), Solid	56.99		60.00		95.0	%	50-150

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank	09032003			09/04/2003	1358

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Acetone, Solid	2.09						
Acetonitrile, Solid	ND						
[illegible]lein, Solid	ND						
[illegible]onitrile, Solid	ND						
Benzene, Solid	ND						

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220570 Report Date.: 09/11/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank	09032003			09/04/2003	1358

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Bromodichloromethane, Solid	ND						
Bromoform (Tribromomethane), Solid	ND						
Bromomethane (methyl bromide), Solid	ND						
Carbon Disulfide, Solid	ND						
Carbon Tetrachloride, Solid	ND						
Chlorobenzene, Solid	ND						
Chloroethane (Ethyl chloride), Solid	ND						
2-Chloroethylvinyl Ether, Solid	ND						
Chloroform, Solid	ND						
Chloromethane (methyl chloride), Solid	ND						
Dibromochloromethane, Solid	ND						
Dibromomethane, Solid	ND						
1,2-Dibromoethane (EDB), Solid	ND						
Dichlorodifluoromethane, Solid	ND						
1,1-Dichloroethane, Solid	ND						
1,2-Dichloroethane (EDC), Solid	ND						
1,1-Dichloroethene (Vinylidene chloride)	ND						
cis-1,2-Dichloroethene, Solid	ND						
trans-1,2-Dichloroethene, Solid	ND						
1,2-Dichloropropane, Solid	ND						
1,3-Dichloropropane, Solid	ND						
2,2-Dichloropropane, Solid	ND						
1,1-Dichloropropene, Solid	ND						
cis-1,3-Dichloropropene, Solid	ND						
trans-1,3-Dichloropropene, Solid	ND						
1,4-Dioxane, Solid	ND						
Ethyl Acetate, Solid	ND						
Ethylbenzene, Solid	ND						
Ethyl Ether (Diethyl Ether), Solid	ND						
Ethyl Methacrylate, Solid	ND						
2-Hexanone, Solid	ND						
Iodomethane (Methyl Iodide), Solid	ND						
Methylene Chloride (Dichloromethane), So	6.35						
Methyl Ethyl Ketone (2-Butanone), Solid	ND						
4-Methyl-2-Pentanone (MIBK), Solid	2.23						
Methyl Methacrylate, Solid	ND						
tert-Butyl Methyl Ether (MTBE), Solid	ND						
2-Nitropropane, Solid	ND						
Styrene, Solid	ND						
1,1,2,2-Tetrachloroethane, Solid	ND						
Tetrachloroethene, Solid	ND						
Toluene, Solid	0.67						
1,2,3-Trichlorobenzene, Solid	ND						
1,1,1-Trichloroethane, Solid	ND						
1,1,2-Trichloroethane, Solid	ND						
Trichloroethene, Solid	ND						
Trichlorofluoromethane, Solid	ND						
1,1,2-Trichloro-1,2,2-Trifluoroethane, S	ND						
1,2,4-Trimethylbenzene, Solid	ND						
1,3,5-Trimethylbenzene, Solid	ND						
1,2,3-Trichloropropane, Solid	ND						
Vinyl Acetate, Solid	ND						
Vinyl Chloride (Chloroethene), Solid	ND						
Xylenes (total), Solid	ND						

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220570 Report Date.: 09/11/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MS	Matrix Spike	V30821B	220525-2	0.99	09/04/2003	1544

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Benzene, Solid	18.76		20.00	ND	93.8	%	83-125
Chlorobenzene, Solid	17.85		20.00	ND	89.2	%	77-121
1,1-Dichloroethene (Vinylidene chloride)	17.27		20.00	ND	86.3	%	70-124
Toluene, Solid	19.66		20.00	1.06	93.0	%	83-120
Trichloroethene, Solid	26.53		20.00	7.29	96.2	%	78-120

MSD	Matrix Spike Duplicate	V30821B	220525-2	0.99	09/04/2003	1622

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Benzene, Solid	19.80	18.76	20.00	ND	99.0	%	83-125
					5.4	R	21
Chlorobenzene, Solid	19.17	17.85	20.00	ND	95.8	%	77-121
					7.1	R	21
1,1-Dichloroethene (Vinylidene chloride)	18.21	17.27	20.00	ND	91.0	%	70-124
					5.3	R	22
[illegible]ne, Solid	21.08	19.66	20.00	1.06	100.1	%	83-120
					7.0	R	21
Trichloroethene, Solid	27.03	26.53	20.00	7.29	98.7	%	78-120
					1.9	R	24

Test Method.....: TCEQ TX1005 Units.....: mg/L Analyst...: den
Method Description.: Total Petroleum Hydrocarbons Batch.....: 84525

LCD	Laboratory Control Sample Duplicate	TE30822A			09/05/2003	1318

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
TPH (C6 to C35), Solid	229		250.000000	221	91.6	%	67-118

LCS	Laboratory Control Sample	TE30822A			09/05/2003	1226

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
TPH (C6 to C35), Solid	221		250.000000		88.4	%	67-118

MB	Method Blank	090403			09/05/2003	1135

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Petroleum Hydrocarbons (C6 to C12), Soli	ND						
Petroleum Hydrocarbons (>C12 to C28), So	ND						
Petroleum Hydrocarbons (>C28 to C35), So	ND						
TPH (C6 to C35), Solid	ND						

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220570 Report Date.: 09/11/2003

CUSTOMER: Entact, Inc. PROJECT: RSR 0U5 3D959 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MS	Matrix Spike	TE30822A	220562-3		09/05/2003	2150

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
TPH (C6 to C35), Solid	246		250.000000	ND	98.4	%	67-118

MSD	Matrix Spike Duplicate	TE30822A	220562-3		09/05/2003	2242

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
TPH (C6 to C35), Solid	251	246	250.000000	ND	100.4	%	67-118
					2.0	R	20

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

SURROGATE RECOVERIES REPORT

Job Number.: 220570 Report Date.: 09/11/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN: Jenny Elste

Method.....: Semivolatile Organics Method Code.....: 8270CC
Batch.....: 84487 Analyst.....: bec Equipment Code: SVOC GC/MS #2

Surrogate	Units
2,4,6-Tribromophenol	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	Solid	MB	1.00	136.08	150	91	53-124		09/04/2003	2332
	Solid	SB	1.00	153.90	150	103	53-124		09/05/2003	0000
220570-1	Solid		1.00	145.77	150	97	53-124		09/05/2003	0027
220570-1	Solid	MS	1.00	150.69	150	100	53-124		09/05/2003	0055
220570-1	Solid	MSD	1.00	149.86	150	100	53-124		09/05/2003	0123
220564-2	Solid		4000.00	0.20	1500.00	53	53-124		09/05/2003	0151

Surrogate	Units
2-Fluorobiphenyl	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	Solid	MB	1.00	79.93	100	80	41-115		09/04/2003	2332
	Solid	SB	1.00	85.78	100	86	41-115		09/05/2003	0000
220570-1	Solid		1.00	80.38	100	80	41-115		09/05/2003	0027
220570-1	Solid	MS	1.00	84.72	100	85	41-115		09/05/2003	0055
220570-1	Solid	MSD	1.00	87.58	100	88	41-115		09/05/2003	0123

Surrogate	Units
2-Fluorophenol	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	Solid	MB	1.00	110.06	150	73	31-115		09/04/2003	2332
	Solid	SB	1.00	119.43	150	80	31-115		09/05/2003	0000
220570-1	Solid		1.00	115.61	150	77	31-115		09/05/2003	0027
220570-1	Solid	MS	1.00	129.77	150	87	31-115		09/05/2003	0055
220570-1	Solid	MSD	1.00	137.24	150	91	31-115		09/05/2003	0123
220564-2	Solid		4000.00	0.18	1500.00	48	31-115		09/05/2003	0151

Surrogate	Units
Nitrobenzene-d5	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	Solid	MB	1.00	74.99	100	75	39-115		09/04/2003	2332
	Solid	SB	1.00	77.41	100	77	39-115		09/05/2003	0000
570-1	Solid		1.00	80.71	100	81	39-115		09/05/2003	0027
220570-1	Solid	MS	1.00	85.78	100	86	39-115		09/05/2003	0055

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SURROGATE RECOVERIES REPORT

Job Number.: 220570 Report Date.: 09/11/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN: Jenny Elste

Surrogate	Units
Nitrobenzene-d5	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
220570-1	Solid	MSD	1.00	89.10	100	89	39-115		09/05/2003	0123

Surrogate	Units
Phenol-d5	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	Solid	MB	1.00	114.33	150	76	40-115		09/04/2003	2332
	Solid	SB	1.00	119.53	150	80	40-115		09/05/2003	0000
220570-1	Solid		1.00	118.61	150	79	40-115		09/05/2003	0027
220570-1	Solid	MS	1.00	128.89	150	86	40-115		09/05/2003	0055
220570-1	Solid	MSD	1.00	135.33	150	90	40-115		09/05/2003	012
220564-2	Solid		4000.00	0.23	1500.00	61	40-115		09/05/2003	015

Surrogate	Units
Terphenyl-d14	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	Solid	MB	1.00	101.37	100	101	55-115		09/04/2003	2332
	Solid	SB	1.00	106.16	100	106	55-115		09/05/2003	0000
220570-1	Solid		1.00	105.09	100	105	55-115		09/05/2003	0027
220570-1	Solid	MS	1.00	104.26	100	104	55-115		09/05/2003	0055
220570-1	Solid	MSD	1.00	104.01	100	104	55-115		09/05/2003	0123

Method.....: Volatile Organics Method Code.....: 8260CC
Batch.....: 84522 Analyst.....: krm Equipment Code: VOC GC/MS #2

Surrogate	Units
1,2-Dichloroethane-d4	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	Solid	LCS	1.00	44.74	50.00000	89.5	69-132		09/04/2003	1137
	Solid	MB	1.00	40.83	50.00000	81.7	69-132		09/04/2003	1358
220570-1	Solid		1.00	44.62	50.00000	89.2	69-132		09/04/2003	1433
220525-2	Solid	MS	0.99	41.65	50.00000	83.3	69-132		09/04/2003	1544
220525-2	Solid	MSD	0.99	39.85	50.00000	79.7	69-132		09/04/2003	1622
220523-2	Solid		1.00	42.13	50.00000	84.3	69-132		09/04/2003	21
220523-4	Solid		1.00	42.52	50.00000	85.0	69-132		09/04/2003	21

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SEVERN TRENT STL

SURROGATE RECOVERIES REPORT

Job Number.: 220570 Report Date.: 09/11/2003

CUSTOMER: Entact, Inc. PROJECT: RSR 0U5 3D959 ATTN: Jenny Elste

Surrogate	Units
4-Bromofluorobenzene	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	Solid	LCS	1.00	43.19	50.00000	86.4	51-139		09/04/2003	1137
	Solid	MB	1.00	40.39	50.00000	80.8	51-139		09/04/2003	1358
220570-1	Solid		1.00	31.69	50.00000	63.4	51-139		09/04/2003	1433
220525-2	Solid	MS	0.99	36.34	50.00000	72.7	51-139		09/04/2003	1544
220525-2	Solid	MSD	0.99	37.77	50.00000	75.5	51-139		09/04/2003	1622
220523-2	Solid		1.00	40.08	50.00000	80.2	51-139		09/04/2003	2106
220523-4	Solid		1.00	38.23	50.00000	76.5	51-139		09/04/2003	2141

Surrogate	Units
Dibromofluoromethane	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	Solid	LCS	1.00	46.14	50.00000	92.3	66-135		09/04/2003	1137
	Solid	MB	1.00	42.34	50.00000	84.7	66-135		09/04/2003	1358
220570-1	Solid		1.00	46.73	50.00000	93.5	66-135		09/04/2003	1433
220525-2	Solid	MS	0.99	42.07	50.00000	84.1	66-135		09/04/2003	1544
220525-2	Solid	MSD	0.99	43.19	50.00000	86.4	66-135		09/04/2003	1622
220523-2	Solid		1.00	42.26	50.00000	84.5	66-135		09/04/2003	2106
220523-4	Solid		1.00	45.33	50.00000	90.7	66-135		09/04/2003	2141

Surrogate	Units
Toluene-d8	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	Solid	LCS	1.00	48.89	50.00000	97.8	63-136		09/04/2003	1137
	Solid	MB	1.00	40.70	50.00000	81.4	63-136		09/04/2003	1358
220570-1	Solid		1.00	46.12	50.00000	92.2	63-136		09/04/2003	1433
220525-2	Solid	MS	0.99	44.98	50.00000	90.0	63-136		09/04/2003	1544
220525-2	Solid	MSD	0.99	47.23	50.00000	94.5	63-136		09/04/2003	1622
220523-2	Solid		1.00	51.76	50.00000	103.5	63-136		09/04/2003	2106
220523-4	Solid		1.00	49.68	50.00000	99.4	63-136		09/04/2003	2141

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SEVERN TRENT STL

SURROGATE RECOVERIES REPORT

Job Number.: 220570 Report Date.: 09/11/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN: Jenny Elste

Method.....: Total Petroleum Hydrocarbons Method Code.....: TX1005
Batch.....: 84525 Analyst.....: den Equipment Code:

Surrogate	Units
Nitrobenzene-d5	mg/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	Solid	MB		102.5	100	102	46-131		09/05/2003	1135
	Solid	LCS		97.9	100	98	46-131		09/05/2003	1226
	Solid	LCD		99.0	100	99	46-131		09/05/2003	1318
220561-1	Solid			70.0	100	70	46-131		09/05/2003	1409
220561-3	Solid			67.2	100	67	46-131		09/05/2003	1551
220561-4	Solid			105.3	100	105	46-131		09/05/2003	1643
220561-5	Solid			104.2	100	104	46-131		09/05/2003	1734
220561-6	Solid			106.7	100	107	46-131		09/05/2003	1825
220562-1	Solid			105.0	100	105	46-131		09/05/2003	1917
220562-2	Solid			103.6	100	104	46-131		09/05/2003	2008
220562-3	Solid			104.5	100	104	46-131		09/05/2003	205[illegible]
220562-3	Solid	MS		105.0	100	105	46-131		09/05/2003	21[illegible]
220562-3	Solid	MSD		105.5	100	106	46-131		09/05/2003	224[illegible]
220562-4	Solid			105.0	100	105	46-131		09/05/2003	2333
220562-5	Solid			103.1	100	103	46-131		09/06/2003	0024
220562-6	Solid			104.9	100	105	46-131		09/06/2003	0115
220570-1	Solid			79.1	100	79	46-131		09/06/2003	0258
220561-2	Solid		3	36.9	100	111	46-131		09/06/2003	1640
220568-1	Solid		3	87.4	100	262	46-131	X	09/06/2003	1730

Surrogate	Units
o-Terphenyl (Surrogate)	mg/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	Solid	MB		104.0	100	104	67-132		09/05/2003	1135
	Solid	LCS		98.7	100	99	67-132		09/05/2003	1226
	Solid	LCD		99.6	100	100	67-132		09/05/2003	1318
220561-1	Solid			105.6	100	106	67-132		09/05/2003	1409
220561-3	Solid			104.2	100	104	67-132		09/05/2003	1551
220561-4	Solid			107.7	100	108	67-132		09/05/2003	1643
220561-5	Solid			106.2	100	106	67-132		09/05/2003	1734
220561-6	Solid			107.8	100	108	67-132		09/05/2003	1825
220562-1	Solid			106.6	100	107	67-132		09/05/2003	1917
220562-2	Solid			105.6	100	106	67-132		09/05/2003	2008
220562-3	Solid			106.3	100	106	67-132		09/05/2003	2059
220562-3	Solid	MS		108.0	100	108	67-132		09/05/2003	2150
220562-3	Solid	MSD		108.7	100	109	67-132		09/05/2003	2242
220562-4	Solid			108.0	100	108	67-132		09/05/2003	2333
220562-5	Solid			105.3	100	105	67-132		09/06/2003	0024
220562-6	Solid			106.8	100	107	67-132		09/06/2003	0115
220570-1	Solid			104.1	100	104	67-132		09/06/2003	025[illegible]
220561-2	Solid		3	41.5	100	124	67-132		09/06/2003	16[illegible]
220568-1	Solid		3	37.9	100	114	67-132		09/06/2003	17[illegible]

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SEVERN TRENT STL

LABORATORY CHRONICLE

Job Number: 220570 Date: 09/11/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN: Jenny Elste

Lab ID: 220570-1 Client ID: TS-002 Date Recvd: 09/04/2003 Sample Date: 09/03/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	84464		09/04/2003	1300	
SW-846 3550B	Extraction (Ultrasonic) SVOCs	1	84419		09/04/2003	1100	
SW-846 7471A	Mercury (CVAA)	1	84478		09/05/2003	1433	
SW-846 6010B	Metals Analysis (ICAP)	1	84489		09/05/2003	1402	0.5
TCEQ TX1005	Petroleum Hydrocarbons Extraction	1	84438		09/04/2003	1330	
SW-846 8270C	Semivolatile Organics	1	84487		09/05/2003	0027	1.00
TCEQ TX1005	Total Petroleum Hydrocarbons	1	84525		09/06/2003	0258	
SM 2540G	Total, Fixed, and Volatile Solids	1	84466		09/04/2003	1023	
SW-846 8260B	Volatile Organics	1	84522		09/04/2003	1433	1.00

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 09/11/2003

(1) EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983
(2) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, September 1986, and Updates I, II, IIA, IIB, and III
(3) Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
(4) Methods of Organic Chemical Analysis of Municipal and Industrial Wastewater, Federal Register, Vol. 49, No. 209, October 1984 and 40 CFR Part 136 amendments
(5) EPA 600/2-78-054, Field and Laboratory Methods Applicable to Overburdens and Minesoils
(6) Methods of Soil Analysis, American Society of Agronomy, Agronomy No. 9, 1965
(7) ASTM, Section 11 Water and Environmental Technology, Volume 11.01 Water (1), 1991
(8) American Society for Testing and Materials, Petroleum Products, Lubricants, and Fossil Fuels, Section 5, Volumes 05.01 - 05.05
(9) Hach Handbook of Water Analysis, 1979

Comments:
Data in the QC report may differ from final results due to digestion and/or dilution of sample into analytical ranges. The "Time Analyzed" may not be the actual time of analysis. The "Date Analyzed" is the actual date of analysis. Sludge samples are reported on a wet weight basis (i.e., not corrected for percent moisture) unless otherwise indicated.

Quality Control acceptance criteria are based either on limits specified in the referenced method or on actual laboratory performance.

All data is reported on sample "as received" unless noted.

Sample IDs with a "-00" at the end indicate a blank spike or blank spike duplicate associated with the numbered sample.

SAMPLE RESULT IDENTIFICATION

ND	= Not detected at a value greater than the reporting limit
TNTC	= Too numerous to count

BLANK QC SAMPLE IDENTIFICATION

MB	Method Blank
ICB	Initial Calibration Blank
CCB	Continuing Calibration Blank

SPIKE QC SAMPLE IDENTIFICATION

MS	Method (Matrix) Spike
MSD	Method (Matrix) Spike Duplicate
PDS	Post Digestion/Distillation Spike
SB	Spiked Blank
SBD	Spiked Blank Duplicate

REFERENCE STANDARD QC SAMPLE IDENTIFICATION

LCS	Laboratory Control Standard
RS	Reference Standard
ICV	Initial Calibration Verification Standard
CCV	Continuing Calibration Verification Standard
ISA/ISB	ICP Interference Check Sample
DSC	Distilled Standard Check

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 09/11/2003

DUPLICATE QC SAMPLE IDENTIFICATION

MD	Method (Matrix) Duplicate
ED	Extraction Duplicate
DD	Digestion Duplicate
PDD	Post Digestion Duplicate
PSD	Post Digestion/Distillation Spike Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "technician" using the following codes:

SUBCONTRACT LABORATORIES

Severn Trent Laboratories:

Los Angeles, CA	*la	Houston, TX	*he
Aurora, CO	*au	North Canton, OH	*nc
Tampa, FL	*ta	Valparaiso, IN	*vp
Sacramento, CA	*sa	Chicago, IL	*ch
Pensacola, FL	*pe	Tallahassee, FL	*tl

Other:

Client provided data	*cp	Non-STL Subcontract Lab	*xx

EXPLANATION OF DATA FLAGS

B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.
D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.
E - Indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.
I - Used to indicate matrix interference.
X - Indicates that a surrogate recovery is outside the specified quality control limits.
Y - Used to identify a spike or spike duplicate recovery is outside the specified quality control limits.
* - Indicates a relative percent difference for a duplicate analysis is outside the specified quality control limits.
^ - Used to indicate that a standard is outside specified quality control limits.

EXPLANATION OF DATA QUALIFIERS

B - Indicates that a value for an inorganic analysis is an estimate. It is used when a compound is determined to be present but at a concentration less than the quantitation limit of the method.
J - Indicates that a value for an organic analysis is an estimate. It is used when a compound is determined to be present based on chromatographic pattern or mass spectral data, but at a concentration less than the quantitation limit of the method. This flag is also used when estimating the concentration of a tentatively identified compound.
U - Indicates that a value is less than the MDL or was not detected.

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SEVERN TRENT **STL**

No. 17171

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: ENTACT	PROJECT NAME/NUMBER: RSR 005 / 30959
SEND REPORT TO: JENNY ELSTE	**BILLING INFORMATION**
ADDRESS: 4040 W. ROYAL LN #136	BILL TO: SAME
IRVING, TX 75063	ADDRESS:
PHONE: 972-580-1323	PHONE:
FAX: 972-550-7464	FAX: PO NO:

0.5°C

LAB JOB NO. 220570

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: TOTAL RCRA 8 METALS	% MOISTURE	TPH	VOC	SEMI-VOC			REMARKS/PRECAUTIONS
1	TS-002	9-3-03	10:00	SOIL	3-4oz			X	X	X	X	X			>Report "As Received"
															>LEVEL III DATA
															>RL's Pb < 5
															As < 1

SAMPLER: KIRK GATES

SHIPMENT METHOD: FedEx

AIRBILL NO.: 841424017028

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☒ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☐ OTHER _____

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Kirk Gates	9-3-03	SIGNATURE: Lisa R. Monroe	9-3-03	SIGNATURE: FedEx	
PRINTED NAME/COMPANY: ENTACT KIRK GATES	TIME 15:20	PRINTED NAME/COMPANY: STL / LISA MONROE	TIME 1545	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: Lisa R. Monroe	9-3-03	SIGNATURE: FedEx		SIGNATURE:	9/4/03
PRINTED NAME/COMPANY: STL LISA R. MONROE	TIME 15:20	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: STL CC	TIME 0935

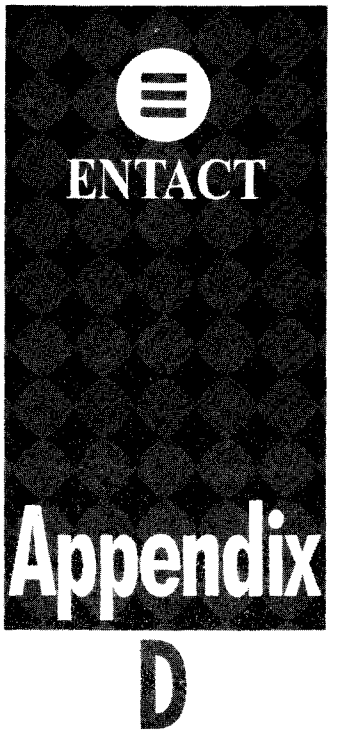
*RUSH TURNAROUND MAY REQUIRE SURCHARGE

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

ckl | Job Sample Receipt Checklist Report | V2

Job Number.: 220570 Location.: 57203 Check List Number.: 1 Description.:
Customer Job ID.....: Job Check List Date.: Date of the Report..: 09/04/2003
Project Number.: 98000203 Project Description.: Project-EAB Project Manager.....: eab
Customer.....: Entact, Inc. Contact.: Jenny Elste

Questions ?	(Y/N)	Comments
How did samples arrive?.....	Y	FED EX DELIVERED
Chain-of-Custody Present?.....	Y	
Custody seal on shipping container?.....	N	
...If "yes", custody seal intact?.....		
Custody seals on sample containers?.....	N	
...If "yes", custody seal intact?.....		
Samples chilled?.....	Y	
Temperature blank in cooler?.....	Y	
Temp of cooler acceptable? (0.05 to 6.00 deg C)	Y	0.5 DEGREES C
Samples received intact (good condition)?.....	Y	
Volatile samples acceptable? (no headspace).....		N/A
[illegible]ect containers used?.....	Y	
Adequate sample volume provided?.....	Y	
Samples preserved correctly?.....	Y	
Samples received within holding-time?.....	Y	
Agreement between COC and sample labels?.....	Y	
Additional.....		
Comments.....		
Sample Custodian Signature.....		9/4/03


ENTACT
Appendix
D

Appendix D

Physical Soil Test Laboratory Reports

LABORATORY REPORT

ALPHA TESTING, INC.
2209 Wisconsin St., Suite 100
Dallas, Texas 75229
972/620-8911 - 972/263-4937 (Metro)
FAX: 972/406-8023

CLIENT: ENTACT
IRVING, TEXAS

DATE: 08/13/03
REVISED: **09/04/03**

PROJECT: RSR-OU5
DALLAS, TEXAS

REPORT NO: **03194-5**

SAMPLE NUMBER	SAMPLE DEPTH (FT.)	REMOLDED MOISTURE CONTENT (%)	REMOLDED DRY DENSITY (PCF)	PERMEABILITY (CM/SEC)
1. Test Pad Grid E-9 Backfill 003	N/A	25.3	92.5	1.31×10^{-9}
2. Test Pad Grid E-8 Backfill 004	N/A	29.4	88.0	1.89×10^{-9}
3. Test Pad Grid H-8 Backfill 005	N/A	29	88.7	2.36×10^{-9}

REMARKS:

Laboratory testing performed by TEAM CONSULTANTS
Test data reviewed and reported by ALPHA TESTING, INC.

Respectfully Submitted

ALPHA TESTING, INC.

Our test results & reports are for the exclusive use of the Client (and their designated recipients on file in our office) and shall not be reproduced and/or distributed except with expres approval of ALPHA. The use of our name & test results must receive our written approval. Test results & reports apply only to the samples tested and/or observed, and are not indicative of the qualities of apparently identical or similar specimens.

Revised: 9/4/03

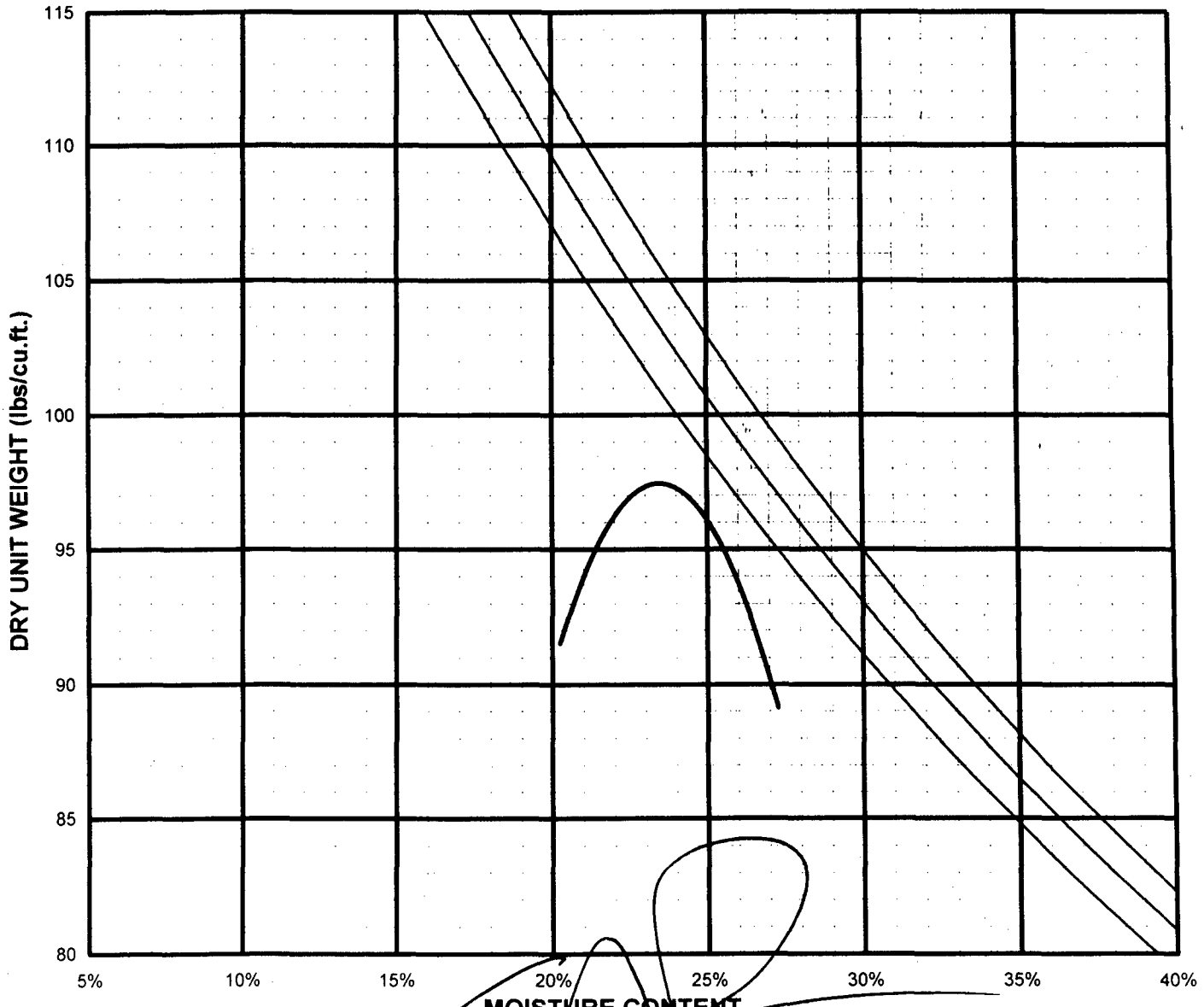
ALPHA TESTING, INC.
2209 Wisconsin St., Suite 100
Dallas, Texas 75229
972/620-8911 - 972/263-4937 (Metro)
FAX: 972/406-8023

Client: Entact
Irving, Texas

Project: RSR-OU5
Dallas, Texas

Our Report Number.:	**03075-2**	Date: 7/17/03	
Material Description:	Brown Shaley Clay		
Classification:	(CH)		
Sample Location:	Test Pad Grid E-9 Backfill 003		
Method of Test:	ASTM-D-698-A		
Soil Identification Number:	**1**		
Maximum Dry Unit Weight:	97.5	pcf	
Optimum Moisture Content:	23.5	%	Troxler:
Liquid Limit:	74		Humbolt:
Plasticity Index:	47		
% Finer Than No. 200 Sieve:	87.0%		

MOISTURE DENSITY RELATIONSHIP



Respectfully Submitted By: _____ of Alpha Testing, Inc.

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Revised: 9/4/03

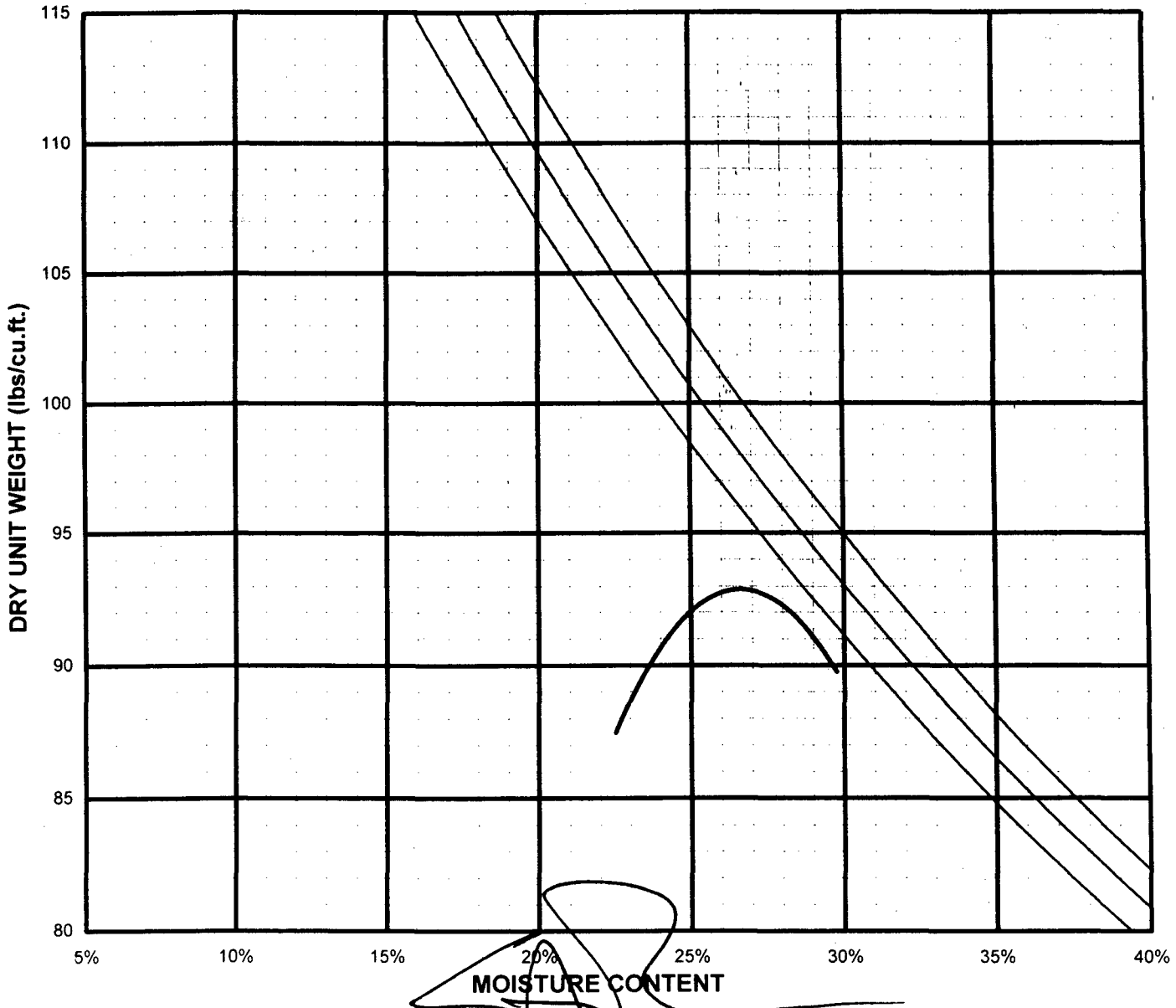
ALPHA TESTING, INC.
2209 Wisconsin St., Suite 100
Dallas, Texas 75229
972/620-8911 - 972/263-4937 (Metro)
FAX: 972/406-8023

Client: Entact
Irving, Texas

Project: RSR-OU5
Dallas, Texas

Our Report Number.:	**03075-3**	Date: 7/17/03	
Material Description:	Brown Shaley Clay		
Classification:	(CH)		
Sample Location:	Test Pad Grid E-8 Backfill 004		
Method of Test:	ASTM-D-698-A		
Soil Identification Number:	**2**		
Maximum Dry Unit Weight:	93.0	pcf	
Optimum Moisture Content:	27.0	%	Troxler:
Liquid Limit:	74		Humbolt:
Plasticity Index:	43		
% Finer Than No. 200 Sieve:	83.4%		

MOISTURE DENSITY RELATIONSHIP



Respectfully Submitted By: _____ of Alpha Testing, Inc.

Our test results and reports are for the exclusive use of the Client (and their designated recepients on file in our office) and shall not be reproduced and/or distributed except with express approval of ALPHA. The use of our name and test results must receive our writtten approval. Test results and reports apply only to the samples tested and/or observed, and are not indicative of the qualities of apparently identical or similar specimens.

Revised: 9/4/03

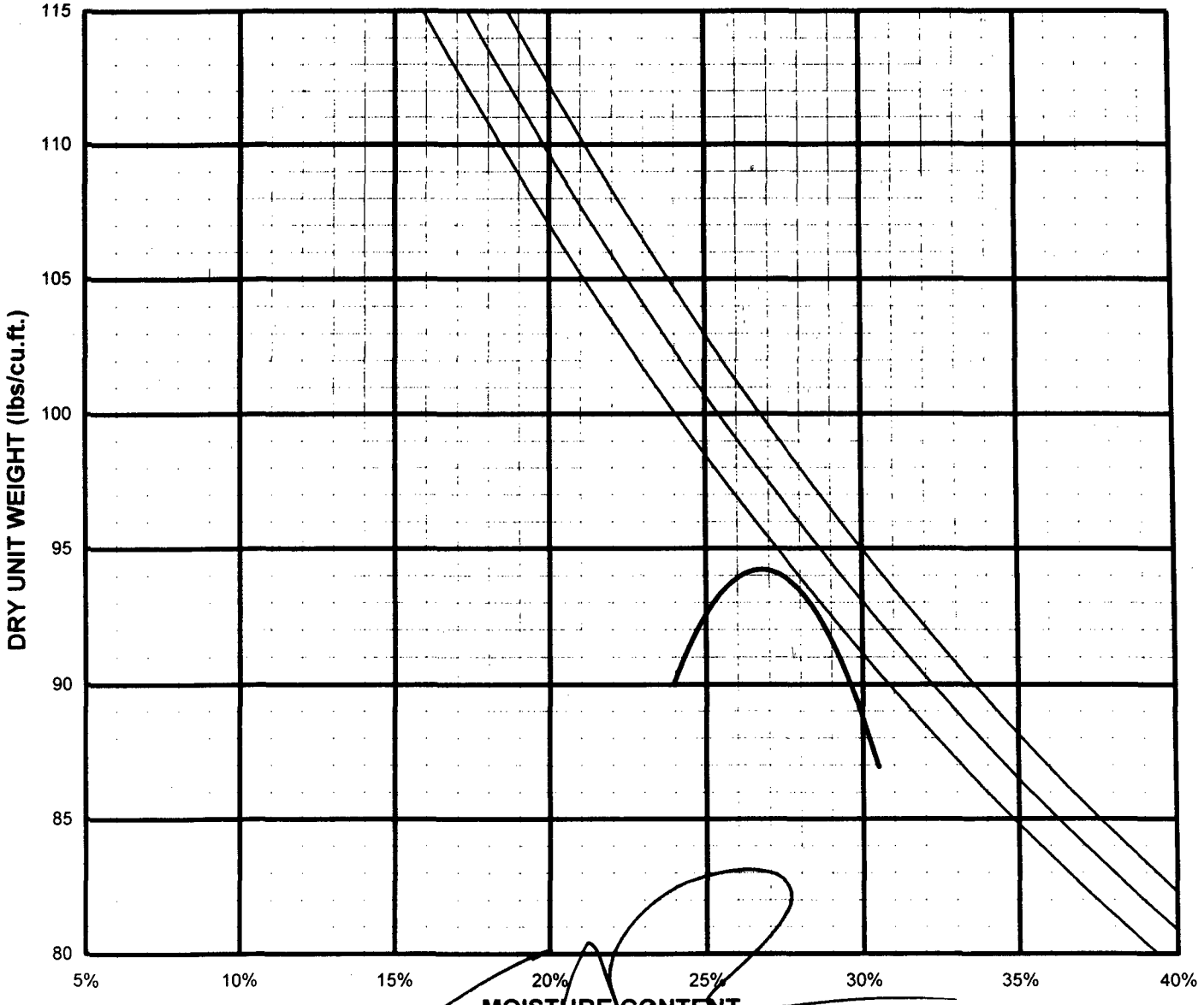
ALPHA TESTING, INC.
2209 Wisconsin St., Suite 100
Dallas, Texas 75229
972/620-8911 - 972/263-4937 (Metro)
FAX: 972/406-8023

Client: Entact
Irving, Texas

Project: RSR-OU5
Dallas, Texas

Our Report Number.:	**03075-4**	Date: 7/17/03	
Material Description:	Brown Shaley Clay		
Classification:	(CH)		
Sample Location:	Test Pad Grid H-8 Backfill 005		
Method of Test:	ASTM-D-698-A		
Soil Identification Number:	**3**		
Maximum Dry Unit Weight:	94.0	pcf	
Optimum Moisture Content:	26.5	%	Troxler:
Liquid Limit:	79		Humbolt:
Plasticity Index:	52		
% Finer Than No. 200 Sieve:	80.4%		

MOISTURE DENSITY RELATIONSHIP



Respectfully Submitted By: _____ of Alpha Testing, Inc.

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LABORATORY REPORT

ALPHA TESTING, INC.
2209 Wisconsin St., Suite 100
Dallas, Texas 75229
972/620-8911 - 972/263-4937 (Metro)
FAX: 972/406-8023

CLIENT: ENTACT
IRVING, TEXAS

DATE: 03/10/03

PROJECT: RSR-OU5
DALLAS, TEXAS

REPORT NO: 03194-4

SAMPLE NUMBER	SAMPLE DEPTH (FT.)	REMOLDED MOISTURE CONTENT (%)	REMOLDED DRY DENSITY (PCF)	PERMEABILITY (CM/SEC)
1. CARL RD. @ NORTHGATE	12'-25' BELOW EG	27.5	92.0	$2.88X10^{-8}$
2. CARL RD. @ NORTHGATE	0'-12' BELOW EG	32.4	84.7	$4.72X10^{-8}$

REMARKS:

Laboratory testing performed by TEAM CONSULTANTS
Test data reviewed and reported by ALPHA TESTING, INC.

Respectfully Submitted

ALPHA TESTING, INC.

Our test results & reports are for the exclusive use of the Client (and their designated recipients on file in our office) and shall not be reproduced and/or distributed except with express approval of ALPHA. The use of our name & test results must receive our written approval. Test results & reports apply only to the samples tested and/or observed, and are not indicative of the qualities of apparently identical or similar specimens.

SIEVE ANALYSIS REPORT

ALPHA TESTING, INC.
2209 Wisconsin St., Suite 100
Dallas, Texas 75229
972/620-8911 - 972/263-4937 (Metro)
FAX: 972/406-8023

CLIENT: ENTACT
IRVING, TEXAS

DATE: 03/10/03

PROJECT: RSR-OU5
DALLAS, TEXAS

REPORT NO: 03194-3

SAMPLE LOCATION: CARL RD @ NORTHGATE
12' 25' BELOW EG

TEST METHOD: ASTM D 1140

SAMPLE DESCRIPTION: DARK GRAY SHALEY CLAY (CH)

SAMPLE NUMBER: SID-1

DATE SAMPLED: 03/10/03

SIEVE SIZE	TOTAL % PASSING			SPECIFICATION PASS No. 200
NO. 200	96.0%			

SAMPLE LOCATION: CARL RD @ NORTHGATE
0' 12' BELOW EG

TEST METHOD: ASTM D 1140

SAMPLE DESCRIPTION: TAN & GRAY SHALEY CLAY (CH)

SAMPLE NUMBER: SID-2

DATE SAMPLED: 03/10/03

SIEVE SIZE	TOTAL % PASSING			SPECIFICATION PASS No. 200
NO. 200	98.2%			

REMARKS:

CC:

Respectfully Submitted

ALPHA TESTING, INC.

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Our test results & reports are for the exclusive use of the Client (and their designated recipients on file in our office) and shall not be reproduced and/or distributed except with express approval of ALPHA. The use of our name & test results must receive our written approval. Test results & reports apply only to the samples tested and/or observed, and are not indicative of the qualities of apparently identical or similar specimens.

Target Moisture Remold Data

Proctor No. 1

Project Number: 03194
Date: 03/10/03

Proctor Value
96.5 pcf
25.0% Moisture

Swell Sample Prepared @ Optimum+ 0.0%

0	Pan No
0.0	Tare Wt
450.0	Total Wt
450.0	Total Wet Weight
399.4	Total Dry Weight
499.3	Wet Weight Required
49.3	Water Added (ml)

Initial Sample Conditions

1	2	3	
1.72	1.72	1.72	Pan
98.38	98.38	98.38	Tare
87.52	87.52	87.52	Wet
12.7%	12.7%	12.7%	Dry
			MC

12.7% Average MC

Swell Sample Prepared @ Optimum+ 2.0%

0	Pan No
0.0	Tare Wt
450.0	Total Wt
450.0	Total Wet Weight
399.4	Total Dry Weight
507.3	Wet Weight Required
57.3	Water Added (ml)

Initial Sample Conditions

1	2	3	
1.72	1.72	1.72	Pan
98.38	98.38	98.38	Tare
87.52	87.52	87.52	Wet
12.7%	12.7%	12.7%	Dry
			MC

12.7% Average MC

Swell Sample Prepared @ Optimum+ 4.0%

0	Pan No
0.0	Tare Wt
450.0	Total Wt
450.0	Total Wet Weight
399.4	Total Dry Weight
515.3	Wet Weight Required
65.3	Water Added (ml)

Initial Sample Conditions

1	2	3	
1.72	1.72	1.72	Pan
98.38	98.38	98.38	Tare
87.52	87.52	87.52	Wet
12.7%	12.7%	12.7%	Dry
			MC

12.7% Average MC

Lab Copy

Target Moisture Remold Data

Proctor No. 2

Project Number: 03194
Date: 03/10/03

Proctor Value
89.5 pcf
29.0% Moisture

Swell Sample Prepared @ Optimum+ 0.0%

0	Pan No
0.0	Tare Wt
450.0	Total Wt
450.0	Total Wet Weight
395.7	Total Dry Weight
510.4	Wet Weight Required
60.4	Water Added (ml)

Initial Sample Conditions

1	2	3	
1.72	1.72	1.72	Pan
99.34	99.34	99.34	Tare
87.56	87.56	87.56	Wet
13.7%	13.7%	13.7%	Dry
			MC

13.7% Average MC

Swell Sample Prepared @ Optimum+ 2.0%

0	Pan No
0.0	Tare Wt
450.0	Total Wt
450.0	Total Wet Weight
395.7	Total Dry Weight
518.4	Wet Weight Required
68.4	Water Added (ml)

Initial Sample Conditions

1	2	3	
1.72	1.72	1.72	Pan
99.34	99.34	99.34	Tare
87.56	87.56	87.56	Wet
13.7%	13.7%	13.7%	Dry
			MC

13.7% Average MC

Swell Sample Prepared @ Optimum+ 4.0%

0	Pan No
0.0	Tare Wt
450.0	Total Wt
450.0	Total Wet Weight
395.7	Total Dry Weight
526.3	Wet Weight Required
76.3	Water Added (ml)

Initial Sample Conditions

1	2	3	
1.72	1.72	1.72	Pan
99.34	99.34	99.34	Tare
87.56	87.56	87.56	Wet
13.7%	13.7%	13.7%	Dry
			MC

13.7% Average MC

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ALPHA TESTING, INC.

% SOILS FINER THAN No. 200 SIEVE
ASTM D 1140 LABORATORY FORM

Project Number 03194
Date 3/10/03

Sample Number SID-1
SampleLocation Carl Road @ Northgate 12' 25' Below EG
Material Description Dark Gray Shaley Clay

Pan Number	207.0
Pan Weight	97.6
Total Wt. Before Wash	298.3
Total Wt. After Wash	105.6
Total Wt. Ret No. 4	0.0
Pan Wt. No. 4	0.0

PERCENT PASSING No. 200 SIEVE 96.0%
PERCENT RETAINED ON No. 4 SIEVE

Sample Number SID-2
SampleLocation Carl Road @ Northgate 0' 12' Below EG
Material Description Tan & Gray Shaley Clay

Pan Number	345.0
Pan Weight	103.7
Total Wt. Before Wash	250.1
Total Wt. After Wash	106.3
Total Wt. Ret No. 4	0.0
Pan Wt. No. 4	0.0

PERCENT PASSING No. 200 SIEVE 98.2%
PERCENT RETAINED ON No. 4 SIEVE

Sample Number
SampleLocation
Material Description

Pan Number	
Pan Weight	
Total Wt. Before Wash	
Total Wt. After Wash	
Total Wt. Ret No. 4	
Pan Wt. No. 4	

PERCENT PASSING No. 200 SIEVE
PERCENT RETAINED ON No. 4 SIEVE

Sample Number
SampleLocation
Material Description

Pan Number	
Pan Weight	
Total Wt. Before Wash	
Total Wt. After Wash	
Total Wt. Ret No. 4	
Pan Wt. No. 4	

PERCENT PASSING No. 200 SIEVE
PERCENT RETAINED ON No. 4 SIEVE

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ALPHA TESTING, INC

ABSORPTION SWELL TEST
LABORATORY FORM

Machine No.	311
Tested By:	Santos
Calculated By:	Sean P.
Checked By:	Sean P.

Project Number.	03194
Test Date	03/17/03
Proctor Number	1
Material Description	Remolded Swell @

100.0% Compaction and Opt. + 0.0% Moisture

Proctor Value
96.5 PCF
25.0% Moisture

WATER CONTENT		
	Initial	Final
Can No.	1	311
Wet Weight, grams	79.57	121.94
Dry Weight, grams	63.96	94.27
Moisture Content	25.1%	29.9%

SAMPLE DATA		
Overburden		3.0 feet
Wet Wt. Of Sample + Ring		217.39 grams
Weight of Ring		100.85 grams
Wet Weight of Sample	(S)	116.54 grams
Overburden	(V)	4046 grams
Unit Wet Weight	(A)	120.5 pcf
Unit Dry Weight	(B)	96.3 pcf

SWELL DATA			
Date	Time	Dial Reading	Percent Swell
03/17/03	15.00	0.0872	
03/17/03	15.30	0.0904	0.43%
03/17/03	17.00	0.0986	1.52%
03/18/03	6.30	0.1166	3.92%
03/18/03	14.00	0.1173	4.01%
03/18/03	16.15	0.1173	4.01%

TOTAL FREE SWELL 4.01%

CALCULATIONS

Unit Wet Weight(A) = (1.034)*(S), pcf
Unit Dry Weight(B) = (A)/(1+ initial water content)
Overburden(v) = 15.47[(A)*(D_a)-100], grams
Percent Swell = [Change in Dial Reading/.75]*100

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ALPHA TESTING, INC

ABSORPTION SWELL TEST
LABORATORY FORM

Machine No.	312
Tested By:	Santos
Calculated By:	Sean P.
Checked By:	Sean P.

Project Number.	03194
Test Date	03/17/03
Proctor Number	1
Material Description	Remolded Swell @

100.0% Compaction and Opt. + 0.0% Moisture

Proctor Value
96.5 PCF
25.0% Moisture

WATER CONTENT		
	Initial	Final
Can No.	2	312
Wet Weight, grams	65.82	122.54
Dry Weight, grams	53.02	94.78
Moisture Content	25.0%	29.9%

SAMPLE DATA		
Average Sample Depth	(D_a)	3.0 feet
Wet Wt. Of Sample + Ring		214.06 grams
Weight of Ring		97.43 grams
Wet Weight of Sample	(S)	116.63 grams
Overburden	(V)	4050 grams
Unit Wet Weight	(A)	120.6 pcf
Unit Dry Weight	(B)	96.5 pcf

SWELL DATA			
Date	Time	Dial Reading	Percent Swell
03/17/03	15.00	0.0900	
03/17/03	15.30	0.0930	0.40%
03/17/03	17.00	0.1014	1.52%
03/18/03	6.30	0.1197	3.96%
03/18/03	14.10	0.1206	4.08%
03/18/03	16.15	0.1207	4.09%

TOTAL FREE SWELL 4.09%

CALCULATIONS

Unit Wet Weight(A) = (1.034)*(S), pcf
Unit Dry Weight(B) = (A)/(1+ initial water content)
Overburden(v) = 15.47[(A)*(D_a)-100], grams
Percent Swell = [Change in Dial Reading/.75]*100

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ALPHA TESTING, INC

ABSORPTION SWELL TEST
LABORATORY FORM

Machine No.	313
Tested By:	Santos
Calculated By:	Sean P.
Checked By:	Sean P.

Project Number.	03194
Test Date	03/17/03
Proctor Number	1
Material Description	Remolded Swell @

100.0% Compaction and Opt. + 2.0% Moisture

Proctor Value
96.5 PCF
25.0% Moisture

WATER CONTENT		
	Initial	Final
Can No.	3	313
Wet Weight, grams	66.08	119.65
Dry Weight, grams	52.36	92.49
Moisture Content	27.1%	29.9%

SAMPLE DATA		
Average Sample Depth (D_a)	3.0	feet
Wet Wt. Of Sample + Ring	219.28	grams
Weight of Ring	100.85	grams
Wet Weight of Sample (S)	118.43	grams
Overburden (V)	4136	grams
Unit Wet Weight (A)	122.5	pcf
Unit Dry Weight (B)	96.3	pcf

SWELL DATA			
Date	Time	Dial Reading	Percent Swell
03/17/03	15.00	0.1252	
03/17/03	15.30	0.1282	0.40%
03/17/03	17.00	0.1342	1.20%
03/18/03	6.30	0.1458	2.75%
03/18/03	14.10	0.1461	2.79%
03/18/03	16.15	0.1462	2.80%

TOTAL FREE SWELL 2.80%

CALCULATIONS
Unit Wet Weight(A) = (1.034)*(S), pcf
Unit Dry Weight(B) = (A)/(1+ initial water content)
Overburden(v) = 15.47[(A)*(D_a)-100], grams
Percent Swell = [Change in Dial Reading/.75]*100

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ALPHA TESTING, INC

ABSORPTION SWELL TEST
LABORATORY FORM

Machine No.	314
Tested By:	Santos
Calculated By:	Sean P.
Checked By:	Sean P.

Project Number.	03194
Test Date	03/17/03
Proctor Number	1
Material Description	Remolded Swell @

100.0% Compaction and Opt. + 2.0% Moisture

Proctor Value
96.5 PCF
25.0% Moisture

WATER CONTENT		
	Initial	Final
Can No.	4	314
Wet Weight, grams	75.22	120.49
Dry Weight, grams	59.64	93.48
Moisture Content	26.9%	29.5%

SAMPLE DATA		
Average Sample Depth	(D_a)	3.0 feet
Wet Wt. Of Sample + Ring		218.01 grams
Weight of Ring		99.70 grams
Wet Weight of Sample	(S)	118.31 grams
Overburden	(V)	4130 grams
Unit Wet Weight	(A)	122.3 pcf
Unit Dry Weight	(B)	96.4 pcf

SWELL DATA			
Date	Time	Dial Reading	Percent Swell
03/17/03	15.00	0.1462	
03/17/03	15.30	0.1490	0.37%
03/17/03	17.00	0.1547	1.13%
03/18/03	6.30	0.1666	2.72%
03/18/03	14.10	0.1669	2.76%
03/18/03	16.15	0.1670	2.77%

TOTAL FREE SWELL 2.77%

CALCULATIONS

Unit Wet Weight(A) = (1.034)*(S), pcf
Unit Dry Weight(B) = (A)/(1+ initial water content)
Overburden(v) = 15.47[(A)*(D_a)-100], grams
Percent Swell = [Change in Dial Reading/.75]*100

ALPHA TESTING, INC

ABSORPTION SWELL TEST
LABORATORY FORM

Machine No.	315
Tested By:	Santos
Calculated By:	Sean P.
Checked By:	Sean P.

Project Number.	03194
Test Date	03/17/03
Proctor Number	1
Material Description	Remolded Swell @

100.0% Compaction and Opt. + 4.0% Moisture

Proctor Value
96.5 PCF
25.0% Moisture

WATER CONTENT		
	Initial	Final
Can No.	5	315
Wet Weight, grams	69.80	119.68
Dry Weight, grams	54.43	91.36
Moisture Content	29.2%	31.6%

SAMPLE DATA		
Average Sample Depth (D_a)	3.0	feet
Wet Wt. Of Sample + Ring	217.84	grams
Weight of Ring	97.70	grams
Wet Weight of Sample (S)	120.14	grams
Overburden (V)	4218	grams
Unit Wet Weight (A)	124.2	pcf
Unit Dry Weight (B)	96.1	pcf

SWELL DATA			
Date	Time	Dial Reading	Percent Swell
03/17/03	15.00	0.1885	
03/17/03	15.30	0.1898	0.17%
03/17/03	17.00	0.1940	0.73%
03/18/03	6.30	0.2028	1.91%
03/18/03	14.10	0.2031	1.95%
03/18/03	16.15	0.2032	1.96%

TOTAL FREE SWELL 1.96%

CALCULATIONS

Unit Wet Weight(A) = (1.034)*(S), pcf
Unit Dry Weight(B) = (A)/(1+ initial water content)
Overburden(v) = 15.47[(A)*(D_a)-100], grams
Percent Swell = [Change in Dial Reading/.75]*100

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ALPHA TESTING, INC

ABSORPTION SWELL TEST
LABORATORY FORM

Machine No.	316
Tested By:	Santos
Calculated By:	Sean P.
Checked By:	Sean P.

Project Number. 03194
Test Date 03/17/03
Proctor Number 1
Material Description Remolded Swell @
100.0% Compaction and Opt. + 4.0% Moisture
Proctor Value
96.5 PCF
25.0% Moisture

WATER CONTENT		
	Initial	Final
Can No.	6	316
Wet Weight, grams	70.10	118.03
Dry Weight, grams	54.62	90.34
Moisture Content	29.3%	31.3%

SAMPLE DATA		
Average Sample Depth (D_a)	3.0	feet
Wet Wt. Of Sample + Ring	221.02	grams
Weight of Ring	100.71	grams
Wet Weight of Sample (S)	120.31	grams
Overburden (V)	4226	grams
Unit Wet Weight (A)	124.4	pcf
Unit Dry Weight (B)	96.2	pcf

SWELL DATA			
Date	Time	Dial Reading	Percent Swell
03/17/03	15.00	0.1475	
03/17/03	15.30	0.1487	0.16%
03/17/03	17.00	0.1525	0.67%
03/18/03	6.30	0.1620	1.93%
03/18/03	14.10	0.1623	1.97%
03/18/03	16.15	0.1623	1.97%

TOTAL FREE SWELL 1.97%

CALCULATIONS
Unit Wet Weight(A) = (1.034)*(S), pcf
Unit Dry Weight(B) = (A)/(1+ initial water content)
Overburden(v) = 15.47[(A)*(D_a)-100], grams
Percent Swell = [Change in Dial Reading/.75]*100

ALPHA TESTING, INC

ABSORPTION SWELL TEST
LABORATORY FORM

Machine No.	317
Tested By:	Santos
Calculated By:	Sean P.
Checked By:	Sean P.

Project Number.	03194
Test Date	03/17/03
Proctor Number	2
Material Description	Remolded Swell @

100.0% Compaction and Opt. + 0.0% Moisture

Proctor Value
89.5 PCF
29.0% Moisture

WATER CONTENT		
	Initial	Final
Can No.	7	317
Wet Weight, grams	63.11	117.01
Dry Weight, grams	49.26	86.71
Moisture Content	29.2%	35.7%

SAMPLE DATA		
Overburden		3.0 feet
Wet Wt. Of Sample + Ring		211.82 grams
Weight of Ring		99.92 grams
Wet Weight of Sample	(S)	111.90 grams
Overburden	(V)	3823 grams
Unit Wet Weight	(A)	115.7 pcf
Unit Dry Weight	(B)	89.6 pcf

SWELL DATA			
Date	Time	Dial Reading	Percent Swell
03/17/03	15.00	0.1670	
03/17/03	15.30	0.1705	0.47%
03/17/03	17.00	0.1955	3.80%
03/18/03	6.30	0.2127	6.09%
03/18/03	14.10	0.2134	6.19%
03/18/03	16.15	0.2135	6.20%

TOTAL FREE SWELL 6.20%

CALCULATIONS

Unit Wet Weight(A) = (1.034)*(S), pcf
Unit Dry Weight(B) = (A)/(1+ initial water content)
Overburden(v) = 15.47[(A)*(D_a)-100], grams
Percent Swell = [Change in Dial Reading/.75]*100

ALPHA TESTING, INC

ABSORPTION SWELL TEST
LABORATORY FORM

Machine No.	321
Tested By:	Santos
Calculated By:	Sean P.
Checked By:	Sean P.

Project Number.	03194
Test Date	03/17/03
Proctor Number	2
Material Description	Remolded Swell @

100.0% Compaction and Opt. + 0.0% Moisture

Proctor Value
89.5 PCF
29.0% Moisture

WATER CONTENT		
	Initial	Final
Can No.	8	321
Wet Weight, grams	68.60	116.82
Dry Weight, grams	53.53	86.92
Moisture Content	29.1%	35.1%

SAMPLE DATA		
Average Sample Depth (D_a)	3.0	feet
Wet Wt. Of Sample + Ring	209.13	grams
Weight of Ring	97.74	grams
Wet Weight of Sample (S)	111.39	grams
Overburden (V)	3798	grams
Unit Wet Weight (A)	115.2	pcf
Unit Dry Weight (B)	89.2	pcf

SWELL DATA			
Date	Time	Dial Reading	Percent Swell
03/17/03	15.00	0.1029	
03/17/03	15.30	0.1067	0.51%
03/17/03	17.00	0.1320	3.88%
03/18/03	6.30	0.1443	5.52%
03/18/03	14.10	0.1452	5.64%
03/18/03	16.15	0.1452	5.64%

TOTAL FREE SWELL 5.64%

CALCULATIONS
Unit Wet Weight(A) = (1.034)*(S), pcf
Unit Dry Weight(B) = (A)/(1+ initial water content)
Overburden(v) = 15.47[(A)*(D_a)-100], grams
Percent Swell = [Change in Dial Reading/.75]*100

ALPHA TESTING, INC

ABSORPTION SWELL TEST
LABORATORY FORM

Machine No.	322
Tested By:	Santos
Calculated By:	Sean P.
Checked By:	Sean P.

Project Number.	03194
Test Date	03/17/03
Proctor Number	2
Material Description	Remolded Swell @

100.0% Compaction and Opt. + 2.0% Moisture

Proctor Value
89.5 PCF
29.0% Moisture

WATER CONTENT		
	Initial	Final
Can No.	9	322
Wet Weight, grams	61.64	115.07
Dry Weight, grams	47.41	86.49
Moisture Content	31.2%	33.7%

SAMPLE DATA		
Average Sample Depth (D_a)	3.0	feet
Wet Wt. Of Sample + Ring	210.28	grams
Weight of Ring	96.72	grams
Wet Weight of Sample (S)	113.56	grams
Overburden (V)	3903	grams
Unit Wet Weight (A)	117.4	pcf
Unit Dry Weight (B)	89.5	pcf

SWELL DATA			
Date	Time	Dial Reading	Percent Swell
03/17/03	15.00	0.1312	
03/17/03	15.30	0.1337	0.33%
03/17/03	17.00	0.1379	0.89%
03/18/03	6.30	0.1483	2.28%
03/18/03	14.10	0.1485	2.31%
03/18/03	16.15	0.1486	2.32%

TOTAL FREE SWELL 2.32%

CALCULATIONS

Unit Wet Weight(A) = (1.034)*(S), pcf
Unit Dry Weight(B) = (A)/(1+ initial water content)
Overburden(v) = 15.47[(A)*(D_a)-100], grams
Percent Swell = [Change in Dial Reading/.75]*100

ALPHA TESTING, INC

ABSORPTION SWELL TEST
LABORATORY FORM

Machine No.	323
Tested By:	Santos
Calculated By:	Sean P.
Checked By:	Sean P.

Project Number.	03194
Test Date	03/17/03
Proctor Number	2
Material Description	Remolded Swell @

100.0% Compaction and Opt. + 2.0% Moisture

Proctor Value
89.5 PCF
29.0% Moisture

WATER CONTENT		
	Initial	Final
Can No.	10	323
Wet Weight, grams	69.87	112.82
Dry Weight, grams	53.68	84.76
Moisture Content	31.2%	33.8%

SAMPLE DATA		
Average Sample Depth (D_a)	3.0	feet
Wet Wt. Of Sample + Ring	210.38	grams
Weight of Ring	97.09	grams
Wet Weight of Sample (S)	113.29	grams
Overburden (V)	3890	grams
Unit Wet Weight (A)	117.1	pcf
Unit Dry Weight (B)	89.3	pcf

SWELL DATA			
Date	Time	Dial Reading	Percent Swell
03/17/03	15.00	0.0864	
03/17/03	15.30	0.0890	0.35%
03/17/03	17.00	0.0935	0.95%
03/18/03	6.30	0.1041	2.36%
03/18/03	14.10	0.1043	2.39%
03/18/03	16.15	0.1045	2.41%

TOTAL FREE SWELL 2.41%

CALCULATIONS
Unit Wet Weight(A) = (1.034)*(S), pcf
Unit Dry Weight(B) = (A)/(1+ initial water content)
Overburden(v) = 15.47[(A)*(D_a)-100], grams
Percent Swell = [Change in Dial Reading/.75]*100

ALPHA TESTING, INC

ABSORPTION SWELL TEST
LABORATORY FORM

Machine No.	324
Tested By:	Santos
Calculated By:	Sean P.
Checked By:	Sean P.

Project Number.	03194
Test Date	03/17/03
Proctor Number	2
Material Description	Remolded Swell @

100.0% Compaction and Opt. + 4.0% Moisture

Proctor Value
89.5 PCF
29.0% Moisture

WATER CONTENT		
	Initial	Final
Can No.	11	324
Wet Weight, grams	78.85	114.75
Dry Weight, grams	59.67	85.76
Moisture Content	33.1%	34.5%

SAMPLE DATA		
Average Sample Depth	(D_a)	3.0 feet
Wet Wt. Of Sample + Ring		211.87 grams
Weight of Ring		97.02 grams
Wet Weight of Sample	(S)	114.85 grams
Overburden	(V)	3964 grams
Unit Wet Weight	(A)	118.8 pcf
Unit Dry Weight	(B)	89.2 pcf

SWELL DATA			
Date	Time	Dial Reading	Percent Swell
03/17/03	15.00	0.0985	
03/17/03	15.30	0.0990	0.07%
03/17/03	17.00	0.1028	0.57%
03/18/03	6.30	0.1117	1.76%
03/18/03	14.10	0.1120	1.80%
03/18/03	16.15	0.1120	1.80%

TOTAL FREE SWELL 1.80%

CALCULATIONS

Unit Wet Weight(A) = (1.034)*(S), pcf
Unit Dry Weight(B) = (A)/(1+ initial water content)
Overburden(v) = 15.47[(A)*(D_a)-100], grams
Percent Swell = [Change in Dial Reading/.75]*100

ALPHA TESTING, INC

ABSORPTION SWELL TEST
LABORATORY FORM

Machine No.	325
Tested By:	Santos
Calculated By:	Sean P.
Checked By:	Sean P.

Project Number.	03194
Test Date	03/17/03
Proctor Number	2
Material Description	Remolded Swell @

100.0% Compaction and Opt. + 4.0% Moisture

Proctor Value
89.5 PCF
29.0% Moisture

WATER CONTENT		
	Initial	Final
Can No.	12	325
Wet Weight, grams	70.24	114.52
Dry Weight, grams	53.22	85.27
Moisture Content	33.1%	35.0%

SAMPLE DATA		
Average Sample Depth (D_a)	3.0	feet
Wet Wt. Of Sample + Ring	215.61	grams
Weight of Ring	100.82	grams
Wet Weight of Sample (S)	114.79	grams
Overburden (V)	3962	grams
Unit Wet Weight (A)	118.7	pcf
Unit Dry Weight (B)	89.2	pcf

SWELL DATA

Date	Time	Dial Reading	Percent Swell
03/17/03	15.00	0.0534	
03/17/03	15.30	0.0550	0.21%
03/17/03	17.00	0.0588	0.72%
03/18/03	6.30	0.0669	1.80%
03/18/03	14.10	0.0670	1.81%
03/18/03	16.15	0.0670	1.81%

TOTAL FREE SWELL 1.81%

CALCULATIONS

Unit Wet Weight(A) = (1.034)*(S), pcf
Unit Dry Weight(B) = (A)/(1+ initial water content)
Overburden(v) = 15.47[(A)*(D_a)-100], grams
Percent Swell = [Change in Dial Reading/.75]*100

ALPHA TESTING, INC.
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972/620-8911 - 972/263-4937 (Metro)
FAX: 972/406-8023

ATTERBERG LIMITS, -200 SIEVE SOILS CLASSIFICATION, Ph ORGANIC CONTENT

TESTED FOR: ENTACT
IRVING, TEXAS

DATE: 08/19/03
(REVISED 10/9/03)

PROJECT: RSR-OU5
DALLAS, TEXAS

OUR REPORT NO: 03075-9

TEST METHOD: ASTM D 4318, 1140, 4972, 2487, 2974

	SAMPLE LOCATIONS/DESCRIPTIONS:	LIQUID LIMIT	PLASTICITY INDEX
1	Top Soil Stockpile West of Job Trailer Dark Gray Clay some Sand **(CL)**	46	27

PASSING #200 SIEVE	SOIL ph
68.1%	7.97

ORGANIC CONTENT
1.60%

Respectfully Submitted,

ALPHA TESTING, INC.

CC: NONE

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FAX: 972/406-8023

ATTERBERG LIMITS, -200 SIEVE SOILS CLASSIFICATION, Ph ORGANIC CONTENT

TESTED FOR: ENTACT
IRVING, TEXAS

DATE: 09/02/03

PROJECT: RSR-OU5
DALLAS, TEXAS

OUR REPORT NO: 03075-13

TEST METHOD: ASTM D 4318, 1140, 4972, 2487, 2974

	SAMPLE LOCATIONS/DESCRIPTIONS:	LIQUID LIMIT	PLASTICITY INDEX
1	Stockpile @ 120'W X 50'N SE Corner of Job Dark Gray Sandy Clay (CL)	47	28

PASSING #200 SIEVE	SOIL ph
66.7%	8.14

ORGANIC CONTENT
1.65%

Respectfully Submitted,

ALPHA TESTING, INC.

CC: NONE

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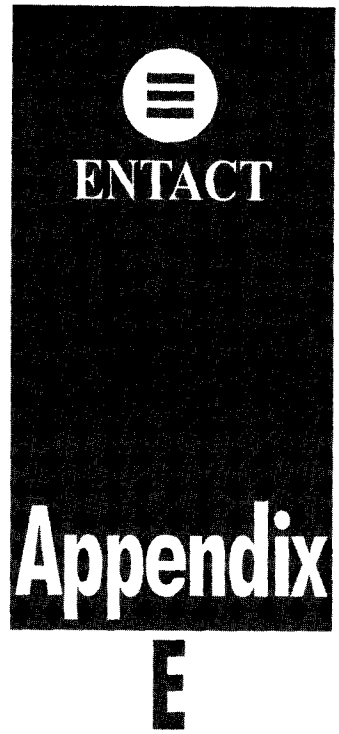
ENTACT
Appendix
E

Appendix E

Field Compaction Test Laboratory Reports

ALPHA TESTING, INC.
2209 Wisconsin St., Suite 100
Dallas, Texas 75229
972/620-8911 - 972/263-4937 (Metro)
FAX: 972/406-8023

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: ENTACT, IRVING, TEXAS

DATE: 07/17/03
REVISED: 09/04/03

PROJECT: **RSR CORP SUPERFUND SITE**, DALLAS, TEXAS

OUR REPORT NO.: **03075-1A**

TEST DATA:

TEST NO.	DATE	ELEV. / DEPTH	SOIL ID NUMBER	OPTIMUM MOISTURE %	MAXIMUM LAB DRY DENSITY PCF	IN PLACE MOISTURE %	IN PLACE DRY DENSITY PCF	PERCENT COMPACTION	COMMENT*
1	07/17/03	FG-1.0	3	23.5	97.5	25.3	90	92	1-B
2	07/17/03	FG-1.0	4	27.0	94	25.5	95	101	1-A
3	07/17/03	FG-1.0	5	26.5	94	26.0	93	99	1-A

TEST LOCATION:

1	TEST PAD GRID "E-9", BACKFILL 003
2	TEST PAD GRID "G-8", BACKFILL 004
3	TEST PAD GRID "H-8", BACKFILL 005

CC: NONE

1. FILL
2. NATURAL SUBGRADE
3. LIME STABILIZED
4. CEMENT TREATED

* A. IN PLACE PERCENT MOISTURE AND PERCENT COMPACTION COMPLY WITH SPECIFICATIONS
B. PERCENT COMPACTION DOES NOT COMPLY WITH SPECIFICATIONS
C. PERCENT IN PLACE MOISTURE DOES NOT COMPLY WITH SPECIFICATIONS
D. RETEST

Respectfully Submitted
ALPHA TESTING, INC.

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Dallas, Texas 75229
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FAX: 972/406-8023

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: ENTACT, IRVING, TEXAS
DATE: 08/13/03
REVISED: 09/04/03

PROJECT: **RSR CORP SUPERFUND SITE**, DALLAS, TEXAS
OUR REPORT NO.: **03075-6**

TEST DATA:

TEST NO.	DATE	ELEV. / DEPTH	SOIL ID NUMBER	OPTIMUM MOISTURE %	MAXIMUM LAB DRY DENSITY PCF	IN PLACE MOISTURE %	IN PLACE DRY DENSITY PCF	PERCENT COMPACTION	COMMENT*
4	08/13/03	LIFT 1	5	26.5	94	24.9	92	98	1-A
5	08/13/03	LIFT 2	3	23.5	97.5	24.9	97	100	1-A
6	08/13/03	LIFT 1	1	25.0	96.5	23.9	94	97	1-A
7	08/13/03	LIFT 2	1	25.0	96.5	25.9	96	99	1-A
8	08/13/03	LIFT 1	4	27.0	93	25.9	90	97	1-A
9	08/13/03	LIFT 2	3	23.5	97.5	23.3	97	100	1-A
10	08/13/03	LIFT 1	3	23.5	97.5	23.2	96	98	1-A

TEST LOCATION: *ELEVATION AND LOCATION PROVIDED BY CLIENT REPRESENTATIVE KIRK GATES

4	CLAY CAP, GRID P-22
5	CLAY CAP, GRID P-22
6	CLAY CAP, GRID N-22
7	CLAY CAP, GRID N-22
8	CLAY CAP, GRID O-20
9	CLAY CAP, GRID O-20
10	CLAY CAP, GRID M-18

CC: NONE

1. FILL
2. NATURAL SUBGRADE
3. LIME STABILIZED
4. CEMENT TREATED

* A. IN PLACE PERCENT MOISTURE AND PERCENT COMPACTION COMPLY WITH SPECIFICATIONS
B. PERCENT COMPACTION DOES NOT COMPLY WITH SPECIFICATIONS
C. PERCENT IN PLACE MOISTURE DOES NOT COMPLY WITH SPECIFICATIONS
D. RETEST

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REPORT OF FIELD COMPACTION TESTS

TESTED FOR ENTACT
IRVING, TEXAS

DATE: 08/13/03
REVISED: 09/04/03

PROJECT **RSR CORP SUPERFUND SITE**
DALLAS, TEXAS

OUR REPORT NO.: **03075-6A**

TEST DATA:

TEST NO.	DATE	ELEV. / DEPTH	SOIL ID NUMBER	OPTIMUM MOISTURE %	MAXIMUM LAB DRY DENSITY PCF	IN PLACE MOISTURE %	IN PLACE DRY DENSITY PCF	PERCENT COMPACTION	COMMENT*
11	08/13/03	LIFT 2	3	23.5	97.5	22.4	97	99	1-A
12	08/13/03	LIFT 1	5	26.5	94	27.4	91	97	1-A
13	08/13/03	LIFT 2	5	26.5	94	26.9	92	97	1-A

TEST LOCATION: *ELEVATION AND LOCATION PROVIDED BY CLIENT REPRESENTATIVE KIRK GATES

11	CLAY CAP, GRID M-18
12	CLAY CAP, GRID M-20
13	CLAY CAP, GRID M-20

CC: NONE

1. FILL
2. NATURAL SUBGRADE
3. [illegible]ME STABILIZED
4. [illegible]EMENT TREATED

* A. IN PLACE PERCENT MOISTURE AND PERCENT COMPACTION COMPLY WITH SPECIFICATIONS
B. PERCENT COMPACTION DOES NOT COMPLY WITH SPECIFICATIONS
C. PERCENT IN PLACE MOISTURE DOES NOT COMPLY WITH SPECIFICATIONS
D. RETEST

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REPORT OF FIELD COMPACTION TESTS

TESTED FOR ENTACT
IRVING, TEXAS

DATE: 08/15/03

PROJECT RSR CORP SUPERFUND SITE
DALLAS, TEXAS

OUR REPORT NO.: 03075-7

TEST DATA:

TEST NO.	DATE	ELEV. / DEPTH	SOIL ID NUMBER	OPTIMUM MOISTURE %	MAXIMUM LAB DRY DENSITY PCF	IN PLACE MOISTURE %	IN PLACE DRY DENSITY PCF	PERCENT COMPACTION	COMMENT*
14	08/15/03	LIFT 1	1	25.0	96.5	23.4	93	96	1-A
15	08/15/03	LIFT 2	1	25.0	96.5	24.9	95	99	1-A
16	08/15/03	LIFT 1	3	23.5	97.5	26.4	94	97	1-A
17	08/15/03	LIFT 2	3	23.5	97.5	23.9	97	100	1-A
18	08/15/03	LIFT 1	3	23.5	97.5	24.7	97	100	1-A
19	08/15/03	LIFT 2	4	27.0	93	29.4	95	102	1-A
20	08/15/03	LIFT 1	4	27.0	93	25.5	91	98	1-A

TEST LOCATION: ELEVATION DESIGNATION AND TEST LOCATION PER CLIENT'S REPRESENTATIVE, KIRK GATES

14	CLAY CAP, GRID Q-24
15	CLAY CAP, GRID Q-24
16	CLAY CAP, GRID Q-26
17	CLAY CAP, GRID Q-26
18	CLAY CAP, GRID O-26
19	CLAY CAP, GRID O-26
20	CLAY CAP, GRID O-27

CC: NONE

1. FILL
2. NATURAL SUBGRADE
3. LIME STABILIZED
4. CEMENT TREATED

* A. IN PLACE PERCENT MOISTURE AND PERCENT COMPACTION COMPLY WITH SPECIFICATIONS
B. PERCENT COMPACTION DOES NOT COMPLY WITH SPECIFICATIONS
C. PERCENT IN PLACE MOISTURE DOES NOT COMPLY WITH SPECIFICATIONS
D. RETEST

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FAX: 972/406-8023

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: ENTACT, IRVING, TEXAS — DATE: 08/15/03

PROJECT: RSR CORP SUPERFUND SITE, DALLAS, TEXAS — OUR REPORT NO.: 03075-7A

TEST DATA:

TEST NO.	DATE	ELEV. / DEPTH	SOIL ID NUMBER	OPTIMUM MOISTURE %	MAXIMUM LAB DRY DENSITY PCF	IN PLACE MOISTURE %	IN PLACE DRY DENSITY PCF	PERCENT COMPACTION	COMMENT*
21	08/15/03	LIFT 2	4	27.0	93	25.5	93	100	1-A
22	08/15/03	LIFT 1	1	25.0	96.5	24.3	95	98	1-A
23	08/15/03	LIFT 2	1	25.0	96.5	27.3	92	95	1-A
24	08/15/03	LIFT 1	1	25.0	96.5	25.4	94	98	1-A
25	08/15/03	LIFT 2	3	23.5	97.5	24.5	98	100	1-A
26	08/15/03	LIFT 1	3	23.5	97.5	23.3	97	100	1-A
27	08/15/03	LIFT 2	3	23.5	97.5	24.7	96	98	1-A

TEST LOCATION: ELEVATION DESIGNATION AND TEST LOCATION PER CLIENT'S REPRESENTATIVE, KIRK GATES

21	CLAY CAP, GRID O-27
22	CLAY CAP, GRID M-26
23	CLAY CAP, GRID M-26
24	CLAY CAP, GRID M-24
25	CLAY CAP, GRID M-24
26	CLAY CAP, GRID L-24
27	CLAY CAP, GRID L-24

CC: NONE

1. FILL
2. NATURAL SUBGRADE
3. LIME STABILIZED
4. CEMENT TREATED

* A. IN PLACE PERCENT MOISTURE AND PERCENT COMPACTION COMPLY WITH SPECIFICATIONS
B. PERCENT COMPACTION DOES NOT COMPLY WITH SPECIFICATIONS
C. PERCENT IN PLACE MOISTURE DOES NOT COMPLY WITH SPECIFICATIONS
D. RETEST

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FAX: 972/406-8023

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: ENTACT, IRVING, TEXAS — DATE: 08/15/03

PROJECT: RSR CORP SUPERFUND SITE, DALLAS, TEXAS — OUR REPORT NO.: 03075-7B

TEST DATA:

TEST NO.	DATE	ELEV. / DEPTH	SOIL ID NUMBER	OPTIMUM MOISTURE %	MAXIMUM LAB DRY DENSITY PCF	IN PLACE MOISTURE %	IN PLACE DRY DENSITY PCF	PERCENT COMPACTION	COMMENT*
28	08/15/03	LIFT 1	1	25.0	96.5	23.0	94	97	1-A
29	08/15/03	LIFT 2	1	25.0	96.5	23.0	94	97	1-A
30	08/15/03	LIFT 1	1	25.0	96.5	25.0	96	99	1-A
31	08/15/03	LIFT 2	1	25.0	96.5	28.2	93	96	1-A
32	08/15/03	LIFT 1	1	25.0	96.5	26.1	93	96	1-A
33	08/15/03	LIFT 2	4	27.0	93	26.7	90	97	1-A

TEST LOCATION: ELEVATION DESIGNATION AND TEST LOCATION PER CLIENT'S REPRESENTATIVE, KIRK GATES

28	CLAY CAP, GRID L-25
29	CLAY CAP, GRID L-25
30	CLAY CAP, GRID L-22
31	CLAY CAP, GRID L-22
32	CLAY CAP, GRID O-24
33	CLAY CAP, GRID O-24

CC: NONE

1. FILL
2. NATURAL SUBGRADE
3. LIME STABILIZED
4. CEMENT TREATED

* A. IN PLACE PERCENT MOISTURE AND PERCENT COMPACTION COMPLY WITH SPECIFICATIONS
B. PERCENT COMPACTION DOES NOT COMPLY WITH SPECIFICATIONS
C. PERCENT IN PLACE MOISTURE DOES NOT COMPLY WITH SPECIFICATIONS
D. RETEST

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2209 Wisconsin St., Suite 100
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972/620-8911 - 972/263-4937 (Metro)
FAX: 972/406-8023

REPORT OF FIELD COMPACTION TESTS

TESTED FOR ENTACT
IRVING, TEXAS

DATE: 08/19/03

PROJECT RSR CORP SUPERFUND SITE
DALLAS, TEXAS

OUR REPORT NO.: 03075-8A

TEST DATA:

TEST NO.	DATE	ELEV. / DEPTH	SOIL ID NUMBER	OPTIMUM MOISTURE %	MAXIMUM LAB DRY DENSITY PCF	IN PLACE MOISTURE %	IN PLACE DRY DENSITY PCF	PERCENT COMPACTION	COMMENT*
34	08/19/03	LIFT 1	1	25.0	96.5	23.9	96	99	1-A
35	08/19/03	LIFT 2	3	23.5	97.5	22.0	95	97	1-A
36	08/19/03	LIFT 3	3	23.5	97.5	22.8	98	100	1-A
[illegible]	08/13/03	LIFT 4	3	23.5	97.5	23.4	93	95	1-A
38	08/13/03	LIFT 3	3	23.5	97.5	22.8	96	98	1-A
39	08/13/03	LIFT 4	3	23.5	97.5	22.2	95	98	1-A
40	08/13/03	LIFT 1	3	23.5	97.5	24.3	94	96	1-A

TEST LOCATION: ELEVATION DEISGNATION AND TEST LOCATION PER CLIENT'S REPRESENTATIVE, KIRK GATES

34	CLAY CAP, GRID M-27
35	CLAY CAP, GRID M-27
36	CLAY CAP, GRID M-27
37	CLAY CAP, GRID M-27
38	CLAY CAP, GRID O-27
39	CLAY CAP, GRID O-27
40	CLAY CAP, GRID K-27

CC: NONE

1. FILL
2. NATURAL SUBGRADE
[illegible]E STABILIZED
[illegible]MENT TREATED

* A. IN PLACE PERCENT MOISTURE AND PERCENT COMPACTION COMPLY WITH SPECIFICATIONS
B. PERCENT COMPACTION DOES NOT COMPLY WITH SPECIFICATIONS
C. PERCENT IN PLACE MOISTURE DOES NOT COMPLY WITH SPECIFICATIONS
D. RETEST

Respectfully Submitted,
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FAX: 972/406-8023

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: ENTACT, IRVING, TEXAS — DATE: 08/19/03

PROJECT: RSR CORP SUPERFUND SITE, DALLAS, TEXAS — OUR REPORT NO.: 03075-8B

TEST DATA:

TEST NO.	DATE	ELEV. / DEPTH	SOIL ID NUMBER	OPTIMUM MOISTURE %	MAXIMUM LAB DRY DENSITY PCF	IN PLACE MOISTURE %	IN PLACE DRY DENSITY PCF	PERCENT COMPACTION	COMMENT*
41	08/19/03	LIFT 2	3	23.5	97.5	22.6	98	101	1-A
42	08/19/03	LIFT 1	3	23.5	97.5	22.5	93	96	1-A
43	08/19/03	LIFT 2	3	23.5	97.5	22.3	95	97	1-A
44	08/13/03	LIFT 1	3	23.5	97.5	23.8	93	96	1-A
45	08/13/03	LIFT 2	3	23.5	97.5	23.1	94	96	1-A
46	08/13/03	LIFT 1	3	23.5	97.5	22.1	97	99	1-A
47	08/13/03	LIFT 2	3	23.5	97.5	22.2	96	99	1-A

TEST LOCATION: ELEVATION DESIGNATION AND TEST LOCATION PER CLIENT'S REPRESENTATIVE, KIRK GATES

41	CLAY CAP, GRID K-27
42	CLAY CAP, GRID I-26
43	CLAY CAP, GRID I-26
44	CLAY CAP, GRID I-24
45	CLAY CAP, GRID I-24
46	CLAY CAP, GRID I-22
47	CLAY CAP, GRID I-22

CC: NONE

1. FILL
2. NATURAL SUBGRADE
3. LIME STABILIZED
4. CEMENT TREATED

* A. IN PLACE PERCENT MOISTURE AND PERCENT COMPACTION COMPLY WITH SPECIFICATIONS
B. PERCENT COMPACTION DOES NOT COMPLY WITH SPECIFICATIONS
C. PERCENT IN PLACE MOISTURE DOES NOT COMPLY WITH SPECIFICATIONS
D. RETEST

Respectfully Submitted,
ALPHA TESTING, INC.

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Dallas, Texas 75229
972/620-8911 - 972/263-4937 (Metro)
FAX: 972/406-8023

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: ENTACT, IRVING, TEXAS — DATE: 08/21/03

PROJECT: RSR CORP SUPERFUND SITE, DALLAS, TEXAS — OUR REPORT NO.: 03075-10

TEST DATA:

TEST NO.	DATE	ELEV. / DEPTH	SOIL ID NUMBER	OPTIMUM MOISTURE %	MAXIMUM LAB DRY DENSITY PCF	IN PLACE MOISTURE %	IN PLACE DRY DENSITY PCF	PERCENT COMPACTION	COMMENT*
48	08/21/03	LIFT 3	3	23.5	97.5	22.8	97	100	1-A
49	08/21/03	LIFT 4	3	23.5	97.5	22.2	96	98	1-A
50	08/21/03	LIFT 3	3	23.5	97.5	23.9	93	96	1-A
[illegible]	08/21/03	LIFT 4	3	23.5	97.5	21.6	96	99	1-A
52	08/21/03	LIFT 3	3	23.5	97.5	23.1	97	100	1-A
53	08/21/03	LIFT 4	3	23.5	97.5	25.6	95	97	1-A
54	08/21/03	LIFT 3	3	23.5	97.5	22.5	94	96	1-A

TEST LOCATION:

48	CLAY CAP, GRID M-24
49	CLAY CAP, GRID M-24
50	CLAY CAP, GRID L-24
51	CLAY CAP, GRID L-24
52	CLAY CAP, GRID L-25
53	CLAY CAP, GRID L-25
54	CLAY CAP, GRID M-26

CC: NONE

1. FILL
2. NATURAL SUBGRADE
[illegible]E STABILIZED
[illegible]MENT TREATED

* A. IN PLACE PERCENT MOISTURE AND PERCENT COMPACTION COMPLY WITH SPECIFICATIONS
B. PERCENT COMPACTION DOES NOT COMPLY WITH SPECIFICATIONS
C. PERCENT IN PLACE MOISTURE DOES NOT COMPLY WITH SPECIFICATIONS
D. RETEST

Respectfully Submitted,
ALPHA TESTING, INC.

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ALPHA TESTING, INC.
2209 Wisconsin St., Suite 100
Dallas, Texas 75229
972/620-8911 - 972/263-4937 (Metro)
FAX: 972/406-8023

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: ENTACT, IRVING, TEXAS — DATE: 08/21/03

PROJECT: RSR CORP SUPERFUND SITE, DALLAS, TEXAS — OUR REPORT NO.: 03075-10A

TEST DATA:

TEST NO.	DATE	ELEV. / DEPTH	SOIL ID NUMBER	OPTIMUM MOISTURE %	MAXIMUM LAB DRY DENSITY PCF	IN PLACE MOISTURE %	IN PLACE DRY DENSITY PCF	PERCENT COMPACTION	COMMENT*
55	08/21/03	LIFT 4	3	23.5	97.5	21.7	97	99	1-A
56	08/21/03	LIFT 3	3	23.5	97.5	23.4	96	98	1-A
57	08/21/03	LIFT 4	3	23.5	97.5	22.1	96	98	1-A
7	08/13/03	LIFT 3	3	23.5	97.5	22.7	94	96	1-A
8	08/13/03	LIFT 4	3	23.5	97.5	21.8	96	99	1-A
9	08/13/03	LIFT 3	3	23.5	97.5	22.0	97	99	1-A
10	08/13/03	LIFT 4	3	23.5	97.5	23.4	95	97	1-A

TEST LOCATION:

55	CLAY CAP, GRID M-26
56	CLAY CAP, GRID K-27
57	CLAY CAP, GRID K-27
7	CLAY CAP, GRID O-26
8	CLAY CAP, GRID O-26
9	CLAY CAP, GRID Q-26
10	CLAY CAP, GRID Q-26

CC: NONE

1. FILL
2. NATURAL SUBGRADE
3. LIME STABILIZED
4. CEMENT TREATED

* A. IN PLACE PERCENT MOISTURE AND PERCENT COMPACTION COMPLY WITH SPECIFICATIONS
B. PERCENT COMPACTION DOES NOT COMPLY WITH SPECIFICATIONS
C. PERCENT IN PLACE MOISTURE DOES NOT COMPLY WITH SPECIFICATIONS
D. RETEST

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REPORT OF FIELD COMPACTION TESTS

TESTED FOR: ENTACT, IRVING, TEXAS — DATE: 08/21/03

PROJECT: RSR CORP SUPERFUND SITE, DALLAS, TEXAS — OUR REPORT NO.: 03075-10B

TEST DATA:

TEST NO.	DATE	ELEV. / DEPTH	SOIL ID NUMBER	OPTIMUM MOISTURE %	MAXIMUM LAB DRY DENSITY PCF	IN PLACE MOISTURE %	IN PLACE DRY DENSITY PCF	PERCENT COMPACTION	COMMENT*
62	08/21/03	LIFT 3	3	23.5	97.5	22.9	95	98	1-A
63	08/21/03	LIFT 4	3	23.5	97.5	23.4	96	98	1-A
64	08/21/03	LIFT 3	3	23.5	97.5	24.6	93	96	1-A
65	08/21/03	LIFT 4	3	23.5	97.5	23.1	97	100	1-A

TEST LOCATION:

62	CLAY CAP, GRID Q-24
63	CLAY CAP, GRID Q-24
64	CLAY CAP, GRID O-24
65	CLAY CAP, GRID O-24

CC: NONE

1. FILL
2. NATURAL SUBGRADE
3. LIME STABILIZED
4. CEMENT TREATED

* A. IN PLACE PERCENT MOISTURE AND PERCENT COMPACTION COMPLY WITH SPECIFICATIONS
B. PERCENT COMPACTION DOES NOT COMPLY WITH SPECIFICATIONS
C. PERCENT IN PLACE MOISTURE DOES NOT COMPLY WITH SPECIFICATIONS
D. RETEST

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REPORT OF FIELD COMPACTION TESTS

TESTED FOR ENTACT
IRVING, TEXAS

DATE: 08/28/03

PROJECT RSR CORP SUPERFUND SITE
DALLAS, TEXAS

OUR REPORT NO.: 03075-11

TEST DATA:

TEST NO.	DATE	ELEV. / DEPTH	SOIL ID NUMBER	OPTIMUM MOISTURE %	MAXIMUM LAB DRY DENSITY PCF	IN PLACE MOISTURE %	IN PLACE DRY DENSITY PCF	PERCENT COMPACTION	COMMENT*
66	08/28/03	LIFT 1	1	25.0	96.5	24.6	93	96	1-A
67	08/28/03	LIFT 2	1	25.0	96.5	23.9	95	99	1-A
68	08/28/03	LIFT 3	1	25.0	96.5	23.3	96	99	1-A
69	08/21/03	LIFT 4	3	23.5	97.5	22.9	98	100	1-A
70	08/21/03	LIFT 1	3	23.5	97.5	24.3	94	96	1-A
71	08/21/03	LIFT 2	3	23.5	97.5	23.5	95	97	1-A
72	08/21/03	LIFT 3	3	23.5	97.5	23.3	97	100	1-A

TEST LOCATION:

66	CLAY CAP, GRID D-22
67	CLAY CAP, GRID D-22
68	CLAY CAP, GRID D-22
69	CLAY CAP, GRID D-22
70	CLAY CAP, GRID D-24
71	CLAY CAP, GRID D-24
72	CLAY CAP, GRID D-24

CC: NONE

1. FILL
2. NATURAL SUBGRADE
3. LIME STABILIZED
4. CEMENT TREATED

* A. IN PLACE PERCENT MOISTURE AND PERCENT COMPACTION COMPLY WITH SPECIFICATIONS
B. PERCENT COMPACTION DOES NOT COMPLY WITH SPECIFICATIONS
C. PERCENT IN PLACE MOISTURE DOES NOT COMPLY WITH SPECIFICATIONS
D. RETEST

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REPORT OF FIELD COMPACTION TESTS

TESTED FOR ENTACT
IRVING, TEXAS

DATE: 08/28/03

PROJECT RSR CORP SUPERFUND SITE
DALLAS, TEXAS

OUR REPORT NO.: 03075-11A

TEST DATA:

TEST NO.	DATE	ELEV. / DEPTH	SOIL ID NUMBER	OPTIMUM MOISTURE %	MAXIMUM LAB DRY DENSITY PCF	IN PLACE MOISTURE %	IN PLACE DRY DENSITY PCF	PERCENT COMPACTION	COMMENT*
73	08/28/03	LIFT 4	3	23.5	97.5	23.8	96	99	1-A
74	08/28/03	LIFT 1	2	29.0	89.5	27.9	88	99	1-A
75	08/28/03	LIFT 2	3	23.5	97.5	22.8	94	96	1-A
[redacted]	08/21/03	LIFT 1	3	23.5	97.5	27.0	94	96	1-A
77	08/21/03	LIFT 2	3	23.5	97.5	23.9	94	96	1-A
78	08/21/03	LIFT 1	3	23.5	97.5	22.1	94	96	1-A
79	08/21/03	LIFT 2	3	23.5	97.5	23.1	93	96	1-A

TEST LOCATION:

73	CLAY CAP, GRID D-24
74	CLAY CAP, GRID F-24
75	CLAY CAP, GRID F-24
76	CLAY CAP, GRID F-22
77	CLAY CAP, GRID F-22
78	CLAY CAP, GRID H-22
79	CLAY CAP, GRID H-22

CC: NONE

1. FILL
2. NATURAL SUBGRADE
[redacted]E STABILIZED
[redacted]MENT TREATED

* A. IN PLACE PERCENT MOISTURE AND PERCENT COMPACTION COMPLY WITH SPECIFICATIONS
B. PERCENT COMPACTION DOES NOT COMPLY WITH SPECIFICATIONS
C. PERCENT IN PLACE MOISTURE DOES NOT COMPLY WITH SPECIFICATIONS
D. RETEST

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REPORT OF FIELD COMPACTION TESTS

TESTED FOR: ENTACT, IRVING, TEXAS — DATE: 08/28/03

PROJECT: RSR CORP SUPERFUND SITE, DALLAS, TEXAS — OUR REPORT NO.: 03075-11B

TEST DATA:

TEST NO.	DATE	ELEV. / DEPTH	SOIL ID NUMBER	OPTIMUM MOISTURE %	MAXIMUM LAB DRY DENSITY PCF	IN PLACE MOISTURE %	IN PLACE DRY DENSITY PCF	PERCENT COMPACTION	COMMENT*
80	08/28/03	LIFT 1	3	23.5	97.5	23.8	98	100	1-A
81	08/28/03	LIFT 2	3	23.5	97.5	21.9	95	97	1-A
82	08/28/03	LIFT 3	3	23.5	97.5	22.4	95	97	1-A
83	08/21/03	LIFT 4	3	23.5	97.5	23.6	95	97	1-A
84	08/21/03	LIFT 3	3	23.5	97.5	21.8	98	100	1-A
85	08/21/03	LIFT 4	3	23.5	97.5	23.9	96	99	1-A
86	08/21/03	LIFT 3	3	23.5	97.5	23.0	95	98	1-A

TEST LOCATION:

80	CLAY CAP, GRID H-24
81	CLAY CAP, GRID H-24
82	CLAY CAP, GRID L-22
83	CLAY CAP, GRID L-22
84	CLAY CAP, GRID N-22
85	CLAY CAP, GRID N-22
86	CLAY CAP, GRID P-22

CC: NONE

1. FILL
2. NATURAL SUBGRADE
3. LIME STABILIZED
4. CEMENT TREATED

* A. IN PLACE PERCENT MOISTURE AND PERCENT COMPACTION COMPLY WITH SPECIFICATIONS
B. PERCENT COMPACTION DOES NOT COMPLY WITH SPECIFICATIONS
C. PERCENT IN PLACE MOISTURE DOES NOT COMPLY WITH SPECIFICATIONS
D. RETEST

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REPORT OF FIELD COMPACTION TESTS

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TESTED FOR ENTACT
IRVING, TEXAS

DATE: 08/28/03

PROJECT RSR CORP SUPERFUND SITE
DALLAS, TEXAS

OUR REPORT NO.: 03075-11C

TEST DATA:

TEST NO.	DATE	ELEV. / DEPTH	SOIL ID NUMBER	OPTIMUM MOISTURE %	MAXIMUM LAB DRY DENSITY PCF	IN PLACE MOISTURE %	IN PLACE DRY DENSITY PCF	PERCENT COMPACTION	COMMENT*
87	08/28/03	LIFT 4	3	23.5	97.5	23.4	93	95	1-A

TEST LOCATION:

87	CLAY CAP, GIRD P-22

CC: NONE

1. FILL
2. NATURAL SUBGRADE
3. [illegible]ME STABILIZED
4. [illegible]MENT TREATED

* A. IN PLACE PERCENT MOISTURE AND PERCENT COMPACTION COMPLY WITH SPECIFICATIONS
B. PERCENT COMPACTION DOES NOT COMPLY WITH SPECIFICATIONS
C. PERCENT IN PLACE MOISTURE DOES NOT COMPLY WITH SPECIFICATIONS
D. RETEST

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REPORT OF FIELD COMPACTION TESTS

TESTED FOR: ENTACT, IRVING, TEXAS — DATE: 09/08/03

PROJECT: RSR CORP SUPERFUND SITE, DALLAS, TEXAS — OUR REPORT NO.: 03075-14

TEST DATA:

TEST NO.	DATE	ELEV. / DEPTH	SOIL ID NUMBER	OPTIMUM MOISTURE %	MAXIMUM LAB DRY DENSITY PCF	IN PLACE MOISTURE %	IN PLACE DRY DENSITY PCF	PERCENT COMPACTION	COMMENT*
88	09/08/03	FG-2.0	3	26.5	94	28.2	93	99	1-A
89	09/08/03	FG-1.5	3	26.5	94	26.8	94	100	1-A
90	09/08/03	FG-2.0	3	26.5	94	27.6	94	100	1-A
91	08/21/03	FG-1.5	3	26.5	94	27.7	94	100	1-A
92	08/21/03	FG-0.5	1	23.5	97.5	22.2	101	103	1-A
93	08/21/03	FG	1	23.5	97.5	25.4	97	100	1-A
94	08/21/03	FG-0.5	1	23.5	97.5	23.6	96	98	1-A

TEST LOCATION:

88	CLAY CAP, GRID H-20 LIFT 1
89	CLAY CAP, GRID H-20 LIFT 2
90	CLAY CAP, GRID G-20 LIFT 1
91	CLAY CAP, GRID G-20 LIFT 2
92	CLAY CAP, GRID H-22 LIFT 3
93	CLAY CAP, GRID H-22 LIFT 4
94	CLAY CAP, GRID I-22 LIFT 3

CC: NONE

1. FILL
2. NATURAL SUBGRADE
3. LIME STABILIZED
4. CEMENT TREATED

* A. IN PLACE PERCENT MOISTURE AND PERCENT COMPACTION COMPLY WITH SPECIFICATIONS
B. PERCENT COMPACTION DOES NOT COMPLY WITH SPECIFICATIONS
C. PERCENT IN PLACE MOISTURE DOES NOT COMPLY WITH SPECIFICATIONS
D. RETEST

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REPORT OF FIELD COMPACTION TESTS

TESTED FOR: ENTACT, IRVING, TEXAS — DATE: 09/08/03

PROJECT: RSR CORP SUPERFUND SITE, DALLAS, TEXAS — OUR REPORT NO.: 03075-14A

TEST DATA:

TEST NO.	DATE	ELEV. / DEPTH	SOIL ID NUMBER	OPTIMUM MOISTURE %	MAXIMUM LAB DRY DENSITY PCF	IN PLACE MOISTURE %	IN PLACE DRY DENSITY PCF	PERCENT COMPACTION	COMMENT*
95	09/08/03	FG	1	23.5	97.5	24.7	95	98	1-A
96	09/08/03	FG-0.5	1	23.5	97.5	26.6	93	95	1-A
97	09/08/03	FG	1	23.5	97.5	23.6	95	98	1-A
[illegible]	09/08/03	FG-0.5	1	23.5	97.5	22.9	97	99	1-A
99	09/08/03	FG	1	23.5	97.5	23.0	97	99	1-A
100	09/08/03	FG-2.0	1	23.5	97.5	23.4	96	98	1-A
101	09/08/03	FG-1.5	1	23.5	97.5	23.4	95	98	1-A

TEST LOCATION:

95	CLAY CAP, GRID I-22 LIFT 4
96	CLAY CAP, GRID I-22 LIFT 3
97	CLAY CAP, GRID I-22 LIFT 4
98	CLAY CAP, GRID H-24 LIFT 3
99	CLAY CAP, GRID H-24 LIFT 4
100	CLAY CAP, GRID J-20 LIFT 1
101	CLAY CAP, GRID J-20 LIFT 2

CC: NONE

1. FILL
2. NATURAL SUBGRADE
3. [illegible]ME STABILIZED
4. [illegible]EMENT TREATED

* A. IN PLACE PERCENT MOISTURE AND PERCENT COMPACTION COMPLY WITH SPECIFICATIONS
B. PERCENT COMPACTION DOES NOT COMPLY WITH SPECIFICATIONS
C. PERCENT IN PLACE MOISTURE DOES NOT COMPLY WITH SPECIFICATIONS
D. RETEST

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REPORT OF FIELD COMPACTION TESTS

TESTED FOR: ENTACT, IRVING, TEXAS — DATE: 09/09/03

PROJECT: RSR CORP SUPERFUND SITE, DALLAS, TEXAS — OUR REPORT NO.: 03075-15

TEST DATA:

TEST NO.	DATE	ELEV. / DEPTH	SOIL ID NUMBER	OPTIMUM MOISTURE %	MAXIMUM LAB DRY DENSITY PCF	IN PLACE MOISTURE %	IN PLACE DRY DENSITY PCF	PERCENT COMPACTION	COMMENT*
102	09/09/03	FG-2.0	1	23.5	97.5	24.6	99	101	1-A
103	09/09/03	FG-1.5	1	23.5	97.5	25.6	98	101	1-A
104	09/09/03	FG-1.0	1	23.5	97.5	23.0	99	102	1-A
105	08/21/03	FG-0.5	1	23.5	97.5	22.7	98	100	1-A
106	08/21/03	FG-1.0	1	23.5	97.5	24.5	95	97	1-A
107	08/21/03	FG-0.5	1	23.5	97.5	25.4	94	96	1-A
108	08/21/03	FG-1.0	1	23.5	97.5	24.3	98	101	1-A

TEST LOCATION:

102	CLAY CAP, GRID K-18
103	CLAY CAP, GRID K-18
104	CLAY CAP, GRID K-18
105	CLAY CAP, GRID K-18
106	CLAY CAP, GRID M-18
107	CLAY CAP, GRID M-18
108	CLAY CAP, GRID Q-20

CC: NONE

1. FILL
2. NATURAL SUBGRADE
3. LIME STABILIZED
4. CEMENT TREATED

* A. IN PLACE PERCENT MOISTURE AND PERCENT COMPACTION COMPLY WITH SPECIFICATIONS
B. PERCENT COMPACTION DOES NOT COMPLY WITH SPECIFICATIONS
C. PERCENT IN PLACE MOISTURE DOES NOT COMPLY WITH SPECIFICATIONS
D. RETEST

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REPORT OF FIELD COMPACTION TESTS

TESTED FOR: ENTACT, IRVING, TEXAS — DATE: 09/09/03

PROJECT: RSR CORP SUPERFUND SITE, DALLAS, TEXAS — OUR REPORT NO.: 03075-15A

TEST DATA:

TEST NO.	DATE	ELEV. / DEPTH	SOIL ID NUMBER	OPTIMUM MOISTURE %	MAXIMUM LAB DRY DENSITY PCF	IN PLACE MOISTURE %	IN PLACE DRY DENSITY PCF	PERCENT COMPACTION	COMMENT*
109	09/09/03	FG-0.5	1	23.5	97.5	25.2	98	100	1-A
110	09/09/03	FG-1.0	1	23.5	97.5	24.8	95	98	1-A
111	09/09/03	FG-0.5	1	23.5	97.5	26.6	94	97	1-A
112	08/21/03	FG-2.0	1	23.5	97.5	24.4	97	100	1-A
113	08/21/03	FG-1.5	1	23.5	97.5	25.0	97	99	1-A
114	08/21/03	FG-1.0	1	23.5	97.5	22.5	99	101	1-A
115	08/21/03	FG-0.5	1	23.5	97.5	23.3	98	100	1-A

TEST LOCATION:

109	CLAY CAP, GRID O-20
110	CLAY CAP, GRID M-20
111	CLAY CAP, GRID M-20
112	CLAY CAP, GRID J-20
113	CLAY CAP, GRID J-20
114	CLAY CAP, GRID J-20
115	CLAY CAP, GRID J-20

CC: NONE

1. FILL
2. NATURAL SUBGRADE
3. LIME STABILIZED
4. CEMENT TREATED

* A. IN PLACE PERCENT MOISTURE AND PERCENT COMPACTION COMPLY WITH SPECIFICATIONS
B. PERCENT COMPACTION DOES NOT COMPLY WITH SPECIFICATIONS
C. PERCENT IN PLACE MOISTURE DOES NOT COMPLY WITH SPECIFICATIONS
D. RETEST

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REPORT OF FIELD COMPACTION TESTS

TESTED FOR: ENTACT, IRVING, TEXAS — DATE: 09/09/03

PROJECT: RSR CORP SUPERFUND SITE, DALLAS, TEXAS — OUR REPORT NO.: 03075-15B

TEST DATA:

TEST NO.	DATE	ELEV. / DEPTH	SOIL ID NUMBER	OPTIMUM MOISTURE %	MAXIMUM LAB DRY DENSITY PCF	IN PLACE MOISTURE %	IN PLACE DRY DENSITY PCF	PERCENT COMPACTION	COMMENT*
116	09/09/03	FG-1.0	1	23.5	97.5	23.5	96	99	1-A
117	09/09/03	FG-0.5	1	23.5	97.5	27.0	94	97	1-A
118	09/09/03	FG-1.0	1	23.5	97.5	23.0	95	97	1-A
119	08/21/03	FG-0.5	1	23.5	97.5	23.9	94	96	1-A
120	08/21/03	FG-1.0	1	23.5	97.5	24.3	95	98	1-A
121	08/21/03	FG-0.5	1	23.5	97.5	25.1	94	96	1-A
122	08/21/03	FG-2.0	1	23.5	97.5	22.3	99	102	1-A

TEST LOCATION:

116	CLAY CAP, GRID H-20
117	CLAY CAP, GRID H-20
118	CLAY CAP, GRID G-20
119	CLAY CAP, GRID G-20
120	CLAY CAP, GRID F-22
121	CLAY CAP, GRID F-22
122	CLAY CAP, GRID I-26

CC: NONE

1. FILL
2. NATURAL SUBGRADE
3. LIME STABILIZED
4. CEMENT TREATED

* A. IN PLACE PERCENT MOISTURE AND PERCENT COMPACTION COMPLY WITH SPECIFICATIONS
B. PERCENT COMPACTION DOES NOT COMPLY WITH SPECIFICATIONS
C. PERCENT IN PLACE MOISTURE DOES NOT COMPLY WITH SPECIFICATIONS
D. RETEST

Respectfully Submitted
ALPHA TESTING, INC.

Our test results & reports are for the exclusive use of the Client (and their designated recipients on file in our office) and shall not be reproduced and/or distributed except with express approval of ALPHA. The use of our name & test results must receive our written approval. Test results & reports apply only to the samples tested and/or observed, and are not indicative of the qualities of apparently identical or similar specimens.

ALPHA TESTING, INC.
2209 Wisconsin St., Suite 100
Dallas, Texas 75229
972/620-8911 - 972/263-4937 (Metro)
FAX: 972/406-8023

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: ENTACT, IRVING, TEXAS — DATE: 09/09/03

PROJECT: RSR CORP SUPERFUND SITE, DALLAS, TEXAS — OUR REPORT NO.: 03075-15C

TEST DATA:

TEST NO.	DATE	ELEV. / DEPTH	SOIL ID NUMBER	OPTIMUM MOISTURE %	MAXIMUM LAB DRY DENSITY PCF	IN PLACE MOISTURE %	IN PLACE DRY DENSITY PCF	PERCENT COMPACTION	COMMENT*
123	09/09/03	FG-1.5	1	23.5	97.5	23.7	94	96	1-A
124	09/09/03	FG-1.0	1	23.5	97.5	21.5	96	98	1-A
125	09/09/03	FG-0.5	1	23.5	97.5	22.1	97	99	1-A

TEST LOCATION:

123	CLAY CAP, GIRD I-26
124	CLAY CAP, GIRD I-26
125	CLAY CAP, GIRD I-26

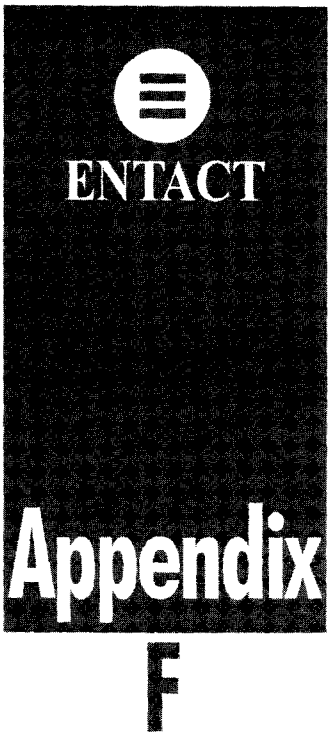
CC: NONE

1. FILL
2. NATURAL SUBGRADE
[redacted]E STABILIZED
[redacted]MENT TREATED

* A. IN PLACE PERCENT MOISTURE AND PERCENT COMPACTION COMPLY WITH SPECIFICATIONS
B. PERCENT COMPACTION DOES NOT COMPLY WITH SPECIFICATIONS
C. PERCENT IN PLACE MOISTURE DOES NOT COMPLY WITH SPECIFICATIONS
D. RETEST

Respectfully Submitted,
ALPHA TESTING, INC.

Our test results & reports are for the exclusive use of the Client (and their designated recipients on file in our office) and shall not be reproduced and/or distributed except with express approval of ALPHA. The use of our name & test results must receive our written approval. Test results & reports apply only to the samples tested and/or observed, and are not indicative of the qualities of apparently identical or similar specimens.


ENTACT
Appendix
F

Appendix F

Investigation and Post-Excavation Sample Laboratory Analytical Reports

SEVERN TRENT STL

ANALYTICAL REPORT

JOB NUMBER: 219900

Prepared For:

Entact, Inc.
4040 W. Royal Lane
Suite 136
Irving, TX 75063

Attention: Jenny Elste

Date: 07/30/2003

Signature

Name: Chip Meador

Title: Laboratory Director

E-Mail: cmeador@stl-inc.com

7/31/03
Date

Severn Trent Laboratories
1733 N. Padre Island Drive
Corpus Christi, TX 78408

PHONE: 361/289-2673
FAX..: 361/289-2471

TOTAL # OF PAGES 28

SEVERN TRENT STL

CASE NARRATIVE

Job Number 219900

July 30, 2003

Lead Analysis

Samples 219900-13 and 14 were analyzed for lead using EPA Method 6010B. The percent recovery results for lead in the matrix spikes and the post digestion spikes associated with these samples were outside the acceptance criteria due to the concentration of lead in the samples. The associated LCS was within acceptable limits and the data are therefore reported.

Please call if you have any questions regarding this report or if we can be of further assistance.

Anh Tran
QA Assistant

SEVERN TRENT STL

SAMPLE INFORMATION
Date: 07/30/2003

Job Number.: 219900
Customer...: Entact, Inc.
Attn.....: Jenny Elste

Project Number.....: 98000203
Customer Project ID....: RSR-0U5 3D959
Project Description....: Project-EAB

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
219900-1	CH-S4C-A1-001	Soil	07/21/2003	14:58	07/23/2003	09:40
219900-2	CH-S4C-A2-002	Soil	07/21/2003	14:49	07/23/2003	09:40
219900-3	CH-S4C-B1-003	Soil	07/21/2003	14:53	07/23/2003	09:40
219900-4	CH-S4C-B3-004	Soil	07/21/2003	15:09	07/23/2003	09:40
219900-5	CH-S4C-B3-005	Soil	07/21/2003	15:12	07/23/2003	09:40
219900-6	CH-S4C-C1-006	Soil	07/21/2003	15:20	07/23/2003	09:40
219900-7	CH-S4C-C3-007	Soil	07/21/2003	15:16	07/23/2003	09:40
219900-8	CH-S4B-D2-008	Soil	07/22/2003	11:50	07/23/2003	09:40
219900-9	CH-S4B-D3-009	Soil	07/22/2003	11:53	07/23/2003	09:40
219900-10	CH-S4B-D3-010X	Soil	07/22/2003	11:53	07/23/2003	09:40
219900-11	CH-S4B-E3-011	Soil	07/22/2003	12:00	07/23/2003	09:40
219900-12	CH-S4B-F3-012	Soil	07/22/2003	12:05	07/23/2003	09:40
219900-13	MS-013	Soil	07/22/2003	12:02	07/23/2003	09:40
219900-14	MSD-014	Soil	07/22/2003	12:02	07/23/2003	09:40
219900-15	CH-S4B-F1-015	Soil	07/22/2003	12:14	07/23/2003	09:40
219900-16	RB-1	Water	07/22/2003	13:25	07/23/2003	09:40

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 219900 Date: 07/30/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-OU5 3D959 ATTN: Jenny Elste

Customer Sample ID: CH-S4C-A1-001
Date Sampled.....: 07/21/2003
Time Sampled.....: 14:58
Sample Matrix.....: Soil

Laboratory Sample ID: 219900-1
Date Received.....: 07/23/2003
Time Received.....: 09:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	88.0	0.1	%	07/23/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	12.0	0.1	%	07/23/03	hmz
SW-846 6010B	Arsenic (As), Solid	19	1	mg/Kg	07/23/03	jem
SW-846 6010B	Lead (Pb), Solid	994	5	mg/Kg	07/23/03	jem
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			07/23/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 219900

Date: 07/30/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-OU5 3D959 ATTN: Jenny Elste

Customer Sample ID: CH-S4C-A2-002
Date Sampled.....: 07/21/2003
Time Sampled.....: 14:49
Sample Matrix.....: Soil

Laboratory Sample ID: 219900-2
Date Received.....: 07/23/2003
Time Received.....: 09:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	88.6	0.1	%	07/23/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	11.4	0.1	%	07/23/03	hmz
SW-846 6010B	Arsenic (As), Solid	15	1	mg/Kg	07/23/03	jem
SW-846 6010B	Lead (Pb), Solid	610	5	mg/Kg	07/23/03	jem
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			07/23/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 219900 Date: 07/30/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-OU5 3D959 ATTN: Jenny Elste

Customer Sample ID: CH-S4C-B1-003
Date Sampled.....: 07/21/2003
Time Sampled.....: 14:53
Sample Matrix.....: Soil

Laboratory Sample ID: 219900-3
Date Received.....: 07/23/2003
Time Received.....: 09:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	93.0	0.1	%	07/23/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	7.0	0.1	%	07/23/03	hmz
SW-846 6010B	Arsenic (As), Solid	10	1	mg/Kg	07/23/03	jem
SW-846 6010B	Lead (Pb), Solid	404	5	mg/Kg	07/23/03	jem
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			07/23/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 219900 Date: 07/30/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-OU5 3D959 ATTN: Jenny Elste

Customer Sample ID: CH-S4C-B3-004
Date Sampled.....: 07/21/2003
Time Sampled.....: 15:09
Sample Matrix.....: Soil

Laboratory Sample ID: 219900-4
Date Received.....: 07/23/2003
Time Received.....: 09:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	84.4	0.1	%	07/23/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	15.6	0.1	%	07/23/03	hmz
SW-846 6010B	Arsenic (As), Solid	6	1	mg/Kg	07/23/03	jem
SW-846 6010B	Lead (Pb), Solid	84	5	mg/Kg	07/23/03	jem
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			07/23/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 219900 Date: 07/30/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-OU5 3D959 ATTN: Jenny Elste

Customer Sample ID: CH-S4C-B3-005
Date Sampled.....: 07/21/2003
Time Sampled.....: 15:12
Sample Matrix.....: Soil

Laboratory Sample ID: 219900-5
Date Received.....: 07/23/2003
Time Received.....: 09:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	87.0	0.1	%	07/23/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	13.0	0.1	%	07/23/03	hmz
SW-846 6010B	Arsenic (As), Solid	9	1	mg/Kg	07/23/03	jem
SW-846 6010B	Lead (Pb), Solid	571	5	mg/Kg	07/23/03	jem
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			07/23/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 219900

Date: 07/30/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: CH-S4C-C1-006
Date Sampled.....: 07/21/2003
Time Sampled.....: 15:20
Sample Matrix.....: Soil

Laboratory Sample ID: 219900-6
Date Received.....: 07/23/2003
Time Received.....: 09:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	87.0	0.1	%	07/23/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	13.0	0.1	%	07/23/03	hmz
SW-846 6010B	Arsenic (As), Solid	10	1	mg/Kg	07/23/03	jem
SW-846 6010B	Lead (Pb), Solid	85	5	mg/Kg	07/23/03	jem
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			07/23/03	ac

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LABORATORY TEST RESULTS

Job Number: 219900 Date: 07/30/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-OU5 3D959 ATTN: Jenny Elste

Customer Sample ID: CH-S4C-C3-007
Date Sampled.....: 07/21/2003
Time Sampled.....: 15:16
Sample Matrix.....: Soil

Laboratory Sample ID: 219900-7
Date Received.....: 07/23/2003
Time Received.....: 09:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	89.1	0.1	%	07/23/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	10.9	0.1	%	07/23/03	hmz
SW-846 6010B	Arsenic (As), Solid	14	1	mg/Kg	07/23/03	jem
SW-846 6010B	Lead (Pb), Solid	193	5	mg/Kg	07/23/03	jem
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			07/23/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 219900

Date: 07/30/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-OU5 3D959 ATTN: Jenny Elste

Customer Sample ID: CH-S4B-D2-008
Date Sampled.....: 07/22/2003
Time Sampled.....: 11:50
Sample Matrix.....: Soil

Laboratory Sample ID: 219900-8
Date Received.....: 07/23/2003
Time Received.....: 09:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	88.6	0.1	%	07/23/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	11.4	0.1	%	07/23/03	hmz
SW-846 6010B	Arsenic (As), Solid	13	1	mg/Kg	07/23/03	jem
SW-846 6010B	Lead (Pb), Solid	261	5	mg/Kg	07/23/03	jem
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			07/23/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 219900 Date: 07/30/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-OU5 3D959 ATTN: Jenny Elste

Customer Sample ID: CH-S4B-D3-009
Date Sampled.....: 07/22/2003
Time Sampled.....: 11:53
Sample Matrix.....: Soil

Laboratory Sample ID: 219900-9
Date Received.....: 07/23/2003
Time Received.....: 09:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	89.4	0.1	%	07/23/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	10.6	0.1	%	07/23/03	hmz
SW-846 6010B	Arsenic (As), Solid	31	1	mg/Kg	07/23/03	jem
SW-846 6010B	Lead (Pb), Solid	1830	5	mg/Kg	07/23/03	jem
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			07/23/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 219900

Date: 07/30/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-OU5 3D959 ATTN: Jenny Elste

Customer Sample ID: CH-S4B-D3-010X
Date Sampled.....: 07/22/2003
Time Sampled.....: 11:53
Sample Matrix.....: Soil

Laboratory Sample ID: 219900-10
Date Received.....: 07/23/2003
Time Received.....: 09:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	89.9	0.1	%	07/23/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	10.1	0.1	%	07/23/03	hmz
SW-846 6010B	Arsenic (As), Solid	25	1	mg/Kg	07/23/03	jem
SW-846 6010B	Lead (Pb), Solid	1550	5	mg/Kg	07/23/03	jem
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			07/23/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 219900 Date: 07/30/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-OU5 3D959 ATTN: Jenny Elste

Customer Sample ID: CH-S4B-E3-011
Date Sampled.....: 07/22/2003
Time Sampled.....: 12:00
Sample Matrix.....: Soil

Laboratory Sample ID: 219900-11
Date Received.....: 07/23/2003
Time Received.....: 09:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	92.5	0.1	%	07/23/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	7.5	0.1	%	07/23/03	hmz
SW-846 6010B	Arsenic (As), Solid	23	1	mg/Kg	07/23/03	jem
SW-846 6010B	Lead (Pb), Solid	799	5	mg/Kg	07/23/03	jem
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			07/23/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 219900 Date: 07/30/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-OU5 3D959 ATTN: Jenny Elste

Customer Sample ID: CH-S4B-F3-012
Date Sampled.....: 07/22/2003
Time Sampled.....: 12:05
Sample Matrix.....: Soil

Laboratory Sample ID: 219900-12
Date Received.....: 07/23/2003
Time Received.....: 09:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	85.3	0.1	%	07/23/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	14.7	0.1	%	07/23/03	hmz
SW-846 6010B	Arsenic (As), Solid	13	1	mg/Kg	07/23/03	jem
SW-846 6010B	Lead (Pb), Solid	779	5	mg/Kg	07/23/03	jem
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			07/23/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 219900 Date: 07/30/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: MS-013
Date Sampled.....: 07/22/2003
Time Sampled.....: 12:02
Sample Matrix.....: Soil

Laboratory Sample ID: 219900-13
Date Received.....: 07/23/2003
Time Received.....: 09:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	89.7	0.1	%	07/23/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	10.3	0.1	%	07/23/03	hmz
SW-846 6010B	Arsenic (As), Solid	22	1	mg/Kg	07/23/03	jem
SW-846 6010B	Lead (Pb), Solid	899	5	mg/Kg	07/23/03	jem
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			07/23/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 219900 Date: 07/30/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-OU5 3D959 ATTN: Jenny Elste

Customer Sample ID: MSD-014
Date Sampled.....: 07/22/2003
Time Sampled.....: 12:02
Sample Matrix.....: Soil

Laboratory Sample ID: 219900-14
Date Received.....: 07/23/2003
Time Received.....: 09:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	90.4	0.1	%	07/23/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	9.6	0.1	%	07/23/03	hmz
SW-846 6010B	Arsenic (As), Solid	24	1	mg/Kg	07/23/03	jem
SW-846 6010B	Lead (Pb), Solid	1400	5	mg/Kg	07/23/03	jem
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			07/23/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 219900 Date: 07/30/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-OU5 3D959 ATTN: Jenny Elste

Customer Sample ID: CH-S4B-F1-015
Date Sampled.....: 07/22/2003
Time Sampled.....: 12:14
Sample Matrix.....: Soil

Laboratory Sample ID: 219900-15
Date Received.....: 07/23/2003
Time Received.....: 09:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	92.6	0.1	%	07/23/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	7.4	0.1	%	07/23/03	hmz
SW-846 6010B	Arsenic (As), Solid	31	1	mg/Kg	07/23/03	jem
SW-846 6010B	Lead (Pb), Solid	890	5	mg/Kg	07/23/03	jem
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			07/23/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 219900

Date: 07/30/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-OU5 3D959 ATTN: Jenny Elste

Customer Sample ID: RB-1
Date Sampled.....: 07/22/2003
Time Sampled.....: 13:25
Sample Matrix.....: Water

Laboratory Sample ID: 219900-16
Date Received.....: 07/23/2003
Time Received.....: 09:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 6010B	Arsenic (As), Total	<0.01	0.01	mg/L	07/24/03	jem
SW-846 6010B	Lead (Pb), Total	0.03	0.01	mg/L	07/24/03	jem
SW-846 3010A	Acid Dig., Total Metals, 2X Concentrate	Complete			07/24/03	ac

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 219900 Report Date.: 07/30/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-OU5 3D959 ATTN: Jenny Elste

Test Method.....: SM 2540G Batch.....: 83051 Analyst...: hmz
Method Description.: Total, Fixed, and Volatile Solids Units.....: % Test Code.: %SOLID
Parameter.....: % Solids (@ 104 deg. C)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MB		EX30506B	100.0							07/23/2003	1625
MD	219900-1		88.1			88.0	0.1	R	20	07/23/2003	1628
MD	219900-13		89.6			89.7	0.1	R	20	07/23/2003	1644
MD	219900-13		89.6	89.6		89.7	0.1	R	20	07/23/2003	1645
MD	219900-14		90.5			90.4	0.1	R	20	07/23/2003	1648
MD	219900-14		90.3	90.5		90.4	0.1	R	20	07/23/2003	1649

Test Method.....: SM 2540G Batch.....: 83051 Analyst...: hmz
Method Description.: Total, Fixed, and Volatile Solids Units.....: % Test Code.: MOIST
Parameter.....: Moisture (@ 104 deg. C)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MB		EX30506B	0.0							07/23/2003	1625
MD	219900-1		11.9			12.0	0.8	R	20	07/23/2003	1628
MD	219900-13		10.4			10.3	1.0	R	20	07/23/2003	164
MD	219900-13		10.4	10.4		10.3	1.0	R	20	07/23/2003	164
MD	219900-14		9.5			9.6	1.0	R	20	07/23/2003	1648
MD	219900-14		9.7	9.5		9.6	1.0	R	20	07/23/2003	1649

Test Method.....: SW-846 6010B Batch.....: 83034 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0343	1.98801843		2.00		99.4	%	90-110	07/23/2003	1110
ICV		M0346	0.98103894		1.00		98.1	%	90-110	07/23/2003	1118
ICV		M0356	1.00507284		1.00		100.5	%	90-110	07/23/2003	1125
ICB			0.00085469							07/23/2003	1133
CCV		M0363	0.99492400		1.00		99.5	%	90-110	07/23/2003	1153
CCB			0.00467442							07/23/2003	1201
CCV		M0363	0.99560835		1.00		99.6	%	90-110	07/23/2003	1259
CCB			0.00076030							07/23/2003	1307
MB		3010	0.00249757							07/23/2003	1311
CCV		M0363	0.98974096		1.00		99.0	%	90-110	07/23/2003	1354
CCB			0.00284402							07/23/2003	1401
MB		3050	0.00148132							07/23/2003	1419
LCS		M347	0.50689122		0.500		101.4	%	82-110	07/23/2003	1423
CCV		M0363	0.98942084		1.00		98.9	%	90-110	07/23/2003	1449
CCB			-0.0009868							07/23/2003	1457
MS	219845-9	M347	0.50816679		0.500	0.07467755	86.7	%	75-125	07/23/2003	1514
MSD	219845-9	M347	0.51853811	0.50816679	0.500	0.07467755	88.8	%	75-125	07/23/2003	1518
							2.0	R	20		
PDS	219845-9	M346B	1.01492046		1.00	0.07467755	94.0	%	75-125	07/23/2003	1523
LCS		M347	0.50082207		0.500		100.2	%	85-110	07/23/2003	1526
PSD	219845-9	M346B	1.02097044	1.01492046	1.00	0.07467755	94.6	%	75-125	07/23/2003	1533
							0.6	R	20		
CCV		M0363	0.99793011		1.00		99.8	%	90-110	07/23/2003	15
CCB			0.00069665							07/23/2003	1600
MB		3050	0.00097750							07/23/2003	1604

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 219900 Report Date.: 07/30/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-OU5 3D959 ATTN: Jenny Elste

Test Method.....: SW-846 6010B Batch.....: 83034 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
LCS		M347	0.49378669		0.500		98.8	%	82-110	07/23/2003	1608
CCV		M0363	0.98617566		1.00		98.6	%	90-110	07/23/2003	1639
CCB			0.00554530							07/23/2003	1646
CCV		M0363	0.98084867		1.00		98.1	%	90-110	07/23/2003	1736
CCB			0.00487620							07/23/2003	1743
MS	219810-2	M347	0.47167383		0.500	0.02551437	89.2	%	75-125	07/23/2003	1805
MSD	219810-2	M347	0.47124742	0.47167383	0.500	0.02551437	89.1	%	75-125	07/23/2003	1809
							0.1	R	20		
PDS	219810-2	M346B	0.94522818		1.00	0.02551437	92.0	%	75-125	07/23/2003	1814
PSD	219810-2	M346B	0.94182143	0.94522818	1.00	0.02551437	91.6	%	75-125	07/23/2003	1818
							0.4	R	20		
CCV		M0363	0.97485761		1.00		97.5	%	90-110	07/23/2003	1832
CCB			0.00309524							07/23/2003	1839
MB		3050	0.00749945							07/23/2003	1843
LCS		M347	0.50979504		0.500		102.0	%	82-110	07/23/2003	1847
CCV		M0363	0.97140253		1.00		97.1	%	90-110	07/23/2003	1927
CCB			0.00603322							07/23/2003	1934
MS	219900-13	M347	0.81018205		0.500	0.28609396	104.8	%	75-125	07/23/2003	2009
MSD	219900-13	M347	0.81411917	0.81018205	0.500	0.28609396	105.6	%	75-125	07/23/2003	2014
							0.5	R	20		
PDS	219900-13	M346B	1.17901267		1.00	0.28609396	89.3	%	75-125	07/23/2003	2019
CCV		M0363	0.98525003		1.00		98.5	%	90-110	07/23/2003	2023
CCB			0.00347003							07/23/2003	2031
PSD	219900-13	M346B	1.14354974	1.17901267	1.00	0.28609396	85.7	%	75-125	07/23/2003	2035
							3.1	R	20		
MS	219900-14	M347	0.72795977		0.500	0.25521441	94.5	%	75-125	07/23/2003	2049
MSD	219900-14	M347	0.72584453	0.72795977	0.500	0.25521441	94.1	%	75-125	07/23/2003	2054
							0.3	R	20		
PDS	219900-14	M346B	1.14885392		1.00	0.25521441	89.4	%	75-125	07/23/2003	2058
PSD	219900-14	M346B	1.12032322	1.14885392	1.00	0.25521441	86.5	%	75-125	07/23/2003	2103
							2.5	R	20		
MB		3050	-0.0004048							07/23/2003	2116
CCV		M0363	0.97213273		1.00		97.2	%	90-110	07/23/2003	2120
CCB			0.00449245							07/23/2003	2128
MB		3050	0.00288412							07/23/2003	2131
LCS		M347	0.48840503		0.500		97.7	%	82-110	07/23/2003	2135
MS	219879-2	M347	0.62829814		0.500	0.15039835	95.6	%	75-125	07/23/2003	2143
MSD	219879-2	M347	0.65384714	0.62829814	0.500	0.15039835	100.7	%	75-125	07/23/2003	2148
							4.0	R	20		
PDS	219879-2	M346B	1.01348158		1.00	0.15039835	86.3	%	75-125	07/23/2003	2152
PSD	219879-2	M346B	1.00132704	1.01348158	1.00	0.15039835	85.1	%	75-125	07/23/2003	2157
							1.2	R	20		
CCV		M0363	0.95991825		1.00		96.0	%	90-110	07/23/2003	2214
CCB			0.00533945							07/23/2003	2222
CCV		M0363	0.96247108		1.00		96.2	%	90-110	07/23/2003	2247
CCB			-0.0014071							07/23/2003	2254

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 219900 Report Date.: 07/30/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Test Method.....: SW-846 6010B Batch.....: 83082 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0343	2.01548573		2.00		100.8	%	90-110	07/24/2003	1001
ICV		M0346	0.98350691		1.00		98.4	%	90-110	07/24/2003	1008
ICV		M0356	1.00954742		1.00		101.0	%	90-110	07/24/2003	1016
ICB			-0.0016269							07/24/2003	1024
CCV		M0363	1.01800484		1.00		101.8	%	90-110	07/24/2003	1044
CCB			-0.0007469							07/24/2003	1051
MB		3010	-0.0001328							07/24/2003	1115
LCS		M347	0.50332717		0.500		100.7	%	85-110	07/24/2003	1119
MS	219766-2	M347	0.50353015		0.500	-0.0149404	103.7	%	75-125	07/24/2003	1132
MSD	219766-2	M347	0.50245203	0.50353015	0.500	-0.0149404	103.5	%	75-125	07/24/2003	1136
							0.2	R	20		
PDS	219766-2	M346B	0.98188986		1.00	-0.0149404	99.7	%	75-125	07/24/2003	1141
PSD	219766-2	M346B	0.97148560	0.98188986	1.00	-0.0149404	98.6	%	75-125	07/24/2003	1145
							1.1	R	20		
CCV		M0363	1.00986699		1.00		101.0	%	90-110	07/24/2003	1158
CCB			0.00492416							07/24/2003	1206
CCV		M0363	1.01365919		1.00		101.4	%	90-110	07/24/2003	12[illegible]
CCB			0.00137097							07/24/2003	130[illegible]
CCV		M0363	0.99311013		1.00		99.3	%	90-110	07/24/2003	1345
CCB			0.00611664							07/24/2003	1352
MB		3010	0.00203592							07/24/2003	1431
LCS		M347	0.49833352		0.500		99.7	%	85-110	07/24/2003	1435
MS	219901-1	M347	0.51414427		0.500	-0.0150816	105.8	%	75-125	07/24/2003	1450
MSD	219901-1	M347	0.52511830	0.51414427	0.500	-0.0150816	108.0	%	75-125	07/24/2003	1455
							2.1	R	20		
PDS	219901-1	M346B	1.00377565		1.00	-0.0150816	101.9	%	75-125	07/24/2003	1459
PSD	219901-1	M346B	0.99619103	1.00377565	1.00	-0.0150816	101.1	%	75-125	07/24/2003	1504
							0.8	R	20		
CCV		M0363	0.99731138		1.00		99.7	%	90-110	07/24/2003	1513
CCB			0.00247745							07/24/2003	1520
CCV		M0363	1.02767303		1.00		102.8	%	90-110	07/24/2003	1607
CCB			0.00443515							07/24/2003	1614
CCV		M0363	1.05787044		1.00		105.8	%	90-110	07/24/2003	1652
CCB			0.00304951							07/24/2003	1659

Test Method.....: SW-846 6010B Batch.....: 83034 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0343	1.99569638		2.00		99.8	%	90-110	07/23/2003	1110
ICV		M0346	0.98121625		1.00		98.1	%	90-110	07/23/2003	1118
ICV		M0356	1.04002149		1.00		104.0	%	90-110	07/23/2003	1125
ICB			-0.0010060							07/23/2003	1133
CCV		M0363	1.00236026		1.00		100.2	%	90-110	07/23/2003	1153
CCB			-0.0003289							07/23/2003	1201
CCV		M0363	1.00689604		1.00		100.7	%	90-110	07/23/2003	1259
CCB			-0.0002371							07/23/2003	13[illegible]
MB		3010	-0.0026660							07/23/2003	13[illegible]
CCV		M0363	0.99889568		1.00		99.9	%	90-110	07/23/2003	1354
CCB			0.00063834							07/23/2003	1401

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 219900 Report Date.: 07/30/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-OU5 30959 ATTN: Jenny Elste

Test Method.....: SW-846 6010B Batch.....: 83034 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MB		3050	-0.0001486							07/23/2003	1419
LCS		M347	0.51779798		0.500		103.6	%	86-110	07/23/2003	1423
CCV		M0363	0.98287833		1.00		98.3	%	90-110	07/23/2003	1449
CCB			-0.0000698							07/23/2003	1457
PDS	219845-9	M346B	1.48237963		1.00	0.57681563	90.6	%	75-125	07/23/2003	1523
LCS		M347	0.49282368		0.500		98.6	%	87-112	07/23/2003	1526
PSD	219845-9	M346B	1.49919792	1.48237963	1.00	0.57681563	92.2	%	75-125	07/23/2003	1533
							1.1	R	20		
CCV		M0363	0.99695749		1.00		99.7	%	90-110	07/23/2003	1553
CCB			0.00039399							07/23/2003	1600
MB		3050	0.00051847							07/23/2003	1604
LCS		M347	0.49552652		0.500		99.1	%	86-110	07/23/2003	1608
CCV		M0363	0.98593464		1.00		98.6	%	90-110	07/23/2003	1639
CCB			-0.0012419							07/23/2003	1646
CCV		M0363	0.97847408		1.00		97.8	%	90-110	07/23/2003	1736
CCB			0.00108082							07/23/2003	1743
	219810-2	M347	0.49843011		0.500	0.08275798	83.1	%	75-125	07/23/2003	1805
	219810-2	M347	0.51318780	0.49843011	0.500	0.08275798	86.1	%	75-125	07/23/2003	1809
							2.9	R	20		
PDS	219810-2	M346B	0.91765293		1.00	0.08275798	83.5	%	75-125	07/23/2003	1814
PSD	219810-2	M346B	0.91651004	0.91765293	1.00	0.08275798	83.4	%	75-125	07/23/2003	1818
							0.1	R	20		
CCV		M0363	0.98423913		1.00		98.4	%	90-110	07/23/2003	1832
CCB			0.00028708							07/23/2003	1839
MB		3050	0.00021990							07/23/2003	1843
LCS		M347	0.49863672		0.500		99.7	%	86-110	07/23/2003	1847
CCV		M0363	0.96783818		1.00		96.8	%	90-110	07/23/2003	1927
CCB			0.00041751							07/23/2003	1934
MS	219900-13	M347	20.1148206		0.500	15.7439492	874.2	%	75-125	07/23/2003	2009
MSD	219900-13	M347	20.7928338	20.1148206	0.500	15.7439492	1009.8	%	75-125	07/23/2003	2014
							3.3	R	20		
PDS	219900-13	M346B	16.0424290		1.00	15.7439492	29.8	%	75-125	07/23/2003	2019
CCV		M0363	0.96462275		1.00		96.5	%	90-110	07/23/2003	2023
CCB			0.00107048							07/23/2003	2031
PSD	219900-13	M346B	16.0972614	16.0424290	1.00	15.7439492	35.3	%	75-125	07/23/2003	2035
							0.3	R	20		
MS	219900-14	M347	14.7085813		0.500	10.2651384	888.7	%	75-125	07/23/2003	2049
MSD	219900-14	M347	14.8863691	14.7085813	0.500	10.2651384	924.2	%	75-125	07/23/2003	2054
							1.2	R	20		
PDS	219900-14	M346B	10.9101708		1.00	10.2651384	64.5	%	75-125	07/23/2003	2058
PSD	219900-14	M346B	10.8742344	10.9101708	1.00	10.2651384	60.9	%	75-125	07/23/2003	2103
							0.3	R	20		
MB		3050	0.00426718							07/23/2003	2116
CCV		M0363	0.96226970		1.00		96.2	%	90-110	07/23/2003	2120
CCB			0.00049161							07/23/2003	2128
MB		3050	0.00398299							07/23/2003	2131
LCS		M347	0.48778068		0.500		97.6	%	86-110	07/23/2003	2135
MS	219879-2	M347	0.48098389		0.500	0.06141591	83.9	%	75-125	07/23/2003	2143
MSD	219879-2	M347	0.48765425	0.48098389	0.500	0.06141591	85.2	%	75-125	07/23/2003	2148
							1.4	R	20		
	219879-2	M346B	0.84094732		1.00	0.06141591	78.0	%	75-125	07/23/2003	2152
	219879-2	M346B	0.84380513	0.84094732	1.00	0.06141591	78.2	%	75-125	07/23/2003	2157
							0.3	R	20		

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 219900 Report Date.: 07/30/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-OU5 3D959 ATTN: Jenny Elste

Test Method.....: SW-846 6010B Batch.....: 83034 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0363	0.96569482		1.00		96.6	%	90-110	07/23/2003	2214
CCB			-0.0013282							07/23/2003	2222
CCV		M0363	0.97170258		1.00		97.2	%	90-110	07/23/2003	2247
CCB			-0.0007220							07/23/2003	2254

Test Method.....: SW-846 6010B Batch.....: 83082 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0343	1.98495550		2.00		99.2	%	90-110	07/24/2003	1001
ICV		M0346	1.00656993		1.00		100.7	%	90-110	07/24/2003	1008
ICV		M0356	1.04393022		1.00		104.4	%	90-110	07/24/2003	1016
ICB			0.00009038							07/24/2003	1024
CCV		M0363	1.02660865		1.00		102.7	%	90-110	07/24/2003	104
CCB			-0.0008248							07/24/2003	105
MB		3010	-0.0016149							07/24/2003	1115
LCS		M347	0.50422099		0.500		100.8	%	87-112	07/24/2003	1119
MS	219766-2	M347	0.50756413		0.500	0.00209121	101.1	%	75-125	07/24/2003	1132
MSD	219766-2	M347	0.50327221	0.50756413	0.500	0.00209121	100.2	%	75-125	07/24/2003	1136
							0.8	R	20		
PDS	219766-2	M346B	0.97110939		1.00	0.00209121	96.9	%	75-125	07/24/2003	1141
PSD	219766-2	M346B	0.95981659	0.97110939	1.00	0.00209121	95.8	%	75-125	07/24/2003	1145
							1.2	R	20		
CCV		M0363	1.01993882		1.00		102.0	%	90-110	07/24/2003	1158
CCB			-0.0015210							07/24/2003	1206
CCV		M0363	1.01220024		1.00		101.2	%	90-110	07/24/2003	1254
CCB			-0.0027022							07/24/2003	1302
CCV		M0363	0.98339338		1.00		98.3	%	90-110	07/24/2003	1345
CCB			-0.0031729							07/24/2003	1352
MB		3010	-0.0026644							07/24/2003	1431
LCS		M347	0.48814874		0.500		97.6	%	87-112	07/24/2003	1435
MS	219901-1	M347	0.48160019		0.500	0.00312428	95.7	%	75-125	07/24/2003	1450
MSD	219901-1	M347	0.49430418	0.48160019	0.500	0.00312428	98.2	%	75-125	07/24/2003	1455
							2.6	R	20		
PDS	219901-1	M346B	0.92513226		1.00	0.00312428	92.2	%	75-125	07/24/2003	1459
PSD	219901-1	M346B	0.94746723	0.92513226	1.00	0.00312428	94.4	%	75-125	07/24/2003	1504
							2.4	R	20		
CCV		M0363	0.98035211		1.00		98.0	%	90-110	07/24/2003	1513
CCB			-0.0039769							07/24/2003	1520
CCV		M0363	1.03235835		1.00		103.2	%	90-110	07/24/2003	1607
CCB			-0.0050672							07/24/2003	1614
CCV		M0363	1.06519066		1.00		106.5	%	90-110	07/24/2003	1652
CCB			-0.0029819							07/24/2003	1659

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

LABORATORY CHRONICLE

Job Number: 219900 Date: 07/30/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-OU5 3D959 ATTN: Jenny Elste

Lab ID: 219900-1 Client ID: CH-S4C-A1-001 Date Recvd: 07/23/2003 Sample Date: 07/21/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	82986		07/23/2003 1300	
SW-846 6010B	Metals Analysis (ICAP)	1	83034		07/23/2003 1851	
SM 2540G	Total, Fixed, and Volatile Solids	1	83051		07/23/2003 1626	

Lab ID: 219900-2 Client ID: CH-S4C-A2-002 Date Recvd: 07/23/2003 Sample Date: 07/21/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	82986		07/23/2003 1300	
SW-846 6010B	Metals Analysis (ICAP)	1	83034		07/23/2003 1855	
SM 2540G	Total, Fixed, and Volatile Solids	1	83051		07/23/2003 1629	

Lab ID: 219900-3 Client ID: CH-S4C-B1-003 Date Recvd: 07/23/2003 Sample Date: 07/21/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	82986		07/23/2003 1300	
SW-846 6010B	Metals Analysis (ICAP)	1	83034		07/23/2003 1900	
SM 2540G	Total, Fixed, and Volatile Solids	1	83051		07/23/2003 1630	

Lab ID: 219900-4 Client ID: CH-S4C-B3-004 Date Recvd: 07/23/2003 Sample Date: 07/21/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	82986		07/23/2003 1300	
SW-846 6010B	Metals Analysis (ICAP)	1	83034		07/23/2003 1904	
SM 2540G	Total, Fixed, and Volatile Solids	1	83051		07/23/2003 1631	

ID: 219900-5 Client ID: CH-S4C-B3-005 Date Recvd: 07/23/2003 Sample Date: 07/21/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	82986		07/23/2003 1300	
SW-846 6010B	Metals Analysis (ICAP)	1	83034		07/23/2003 1909	
SM 2540G	Total, Fixed, and Volatile Solids	1	83051		07/23/2003 1633	

Lab ID: 219900-6 Client ID: CH-S4C-C1-006 Date Recvd: 07/23/2003 Sample Date: 07/21/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	82986		07/23/2003 1300	
SW-846 6010B	Metals Analysis (ICAP)	1	83034		07/23/2003 1913	
SM 2540G	Total, Fixed, and Volatile Solids	1	83051		07/23/2003 1634	

Lab ID: 219900-7 Client ID: CH-S4C-C3-007 Date Recvd: 07/23/2003 Sample Date: 07/21/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	82986		07/23/2003 1300	
SW-846 6010B	Metals Analysis (ICAP)	1	83034		07/23/2003 1918	
SM 2540G	Total, Fixed, and Volatile Solids	1	83051		07/23/2003 1635	

Lab ID: 219900-8 Client ID: CH-S4B-D2-008 Date Recvd: 07/23/2003 Sample Date: 07/22/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	82986		07/23/2003 1300	
SW-846 6010B	Metals Analysis (ICAP)	1	83034		07/23/2003 1922	
SM 2540G	Total, Fixed, and Volatile Solids	1	83051		07/23/2003 1636	

Lab ID: 219900-9 Client ID: CH-S4B-D3-009 Date Recvd: 07/23/2003 Sample Date: 07/22/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	82986		07/23/2003 1300	
SW-846 6010B	Metals Analysis (ICAP)	1	83034		07/23/2003 1938	
SM 2540G	Total, Fixed, and Volatile Solids	1	83051		07/23/2003 1638	

Lab ID: 219900-10 Client ID: CH-S4B-D3-010X Date Recvd: 07/23/2003 Sample Date: 07/22/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	82986		07/23/2003 1300	

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SEVERN TRENT STL

LABORATORY CHRONICLE

Job Number: 219900 Date: 07/30/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Lab ID: 219900-10 Client ID: CH-S4B-D3-010X
Date Recvd: 07/23/2003 Sample Date: 07/22/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 6010B	Metals Analysis (ICAP)	1	83034		07/23/2003 1943	
SM 2540G	Total, Fixed, and Volatile Solids	1	83051		07/23/2003 1639	

Lab ID: 219900-11 Client ID: CH-S4B-E3-011
Date Recvd: 07/23/2003 Sample Date: 07/22/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	82986		07/23/2003 1300	
SW-846 6010B	Metals Analysis (ICAP)	1	83034		07/23/2003 1947	
SM 2540G	Total, Fixed, and Volatile Solids	1	83051		07/23/2003 1640	

Lab ID: 219900-12 Client ID: CH-S4B-F3-012
Date Recvd: 07/23/2003 Sample Date: 07/22/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	82986		07/23/2003 1300	
SW-846 6010B	Metals Analysis (ICAP)	1	83034		07/23/2003 1952	
SM 2540G	Total, Fixed, and Volatile Solids	1	83051		07/23/2003 1641	

Lab ID: 219900-13 Client ID: MS-013
Date Recvd: 07/23/2003 Sample Date: 07/22/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	82986		07/23/2003 1300	
SW-846 6010B	Metals Analysis (ICAP)	1	83034		07/23/2003 1956	
SM 2540G	Total, Fixed, and Volatile Solids	1	83051		07/23/2003 1643	

Lab ID: 219900-14 Client ID: MSD-014
Date Recvd: 07/23/2003 Sample Date: 07/22/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	82986		07/23/2003 1300	
SW-846 6010B	Metals Analysis (ICAP)	1	83034		07/23/2003 2039	
SM 2540G	Total, Fixed, and Volatile Solids	1	83051		07/23/2003 1646	

Lab ID: 219900-15 Client ID: CH-S4B-F1-015
Date Recvd: 07/23/2003 Sample Date: 07/22/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	82986		07/23/2003 1300	
SW-846 6010B	Metals Analysis (ICAP)	1	83034		07/23/2003 2108	
SM 2540G	Total, Fixed, and Volatile Solids	1	83051		07/23/2003 1650	

Lab ID: 219900-16 Client ID: RB-1
Date Recvd: 07/23/2003 Sample Date: 07/22/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3010A	Acid Digestion, Total Metals	1	83032		07/24/2003 0930	
SW-846 6010B	Metals Analysis (ICAP)	1	83082		07/24/2003 1442	

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 07/30/2003

(1) EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983
(2) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, September 1986, and Updates I, II, IIA, IIB, and III
(3) Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
(4) Methods of Organic Chemical Analysis of Municipal and Industrial Wastewater, Federal Register, Vol. 49, No. 209, October 1984 and 40 CFR Part 136 amendments
(5) EPA 600/2-78-054, Field and Laboratory Methods Applicable to Overburdens and Minesoils
(6) Methods of Soil Analysis, American Society of Agronomy, Agronomy No. 9, 1965
(7) ASTM, Section 11 Water and Environmental Technology, Volume 11.01 Water (1), 1991
(8) American Society for Testing and Materials, Petroleum Products, Lubricants, and Fossil Fuels, Section 5, Volumes 05.01 - 05.05
(9) Hach Handbook of Water Analysis, 1979

Comments:
Data in the QC report may differ from final results due to digestion and/or dilution of sample into analytical ranges. The "Time Analyzed" may not be the actual time of analysis. The "Date Analyzed" is the actual date of analysis. Sludge samples are reported on a wet weight basis (i.e., not corrected for percent moisture) unless otherwise indicated.

Quality Control acceptance criteria are based either on limits specified in the referenced method or on actual laboratory performance.

All data is reported on sample "as received" unless noted.

Sample IDs with a "-00" at the end indicate a blank spike or blank spike duplicate associated with the numbered sample.

SAMPLE RESULT IDENTIFICATION

ND	= Not detected at a value greater than the reporting limit
TNTC	= Too numerous to count

BLANK QC SAMPLE IDENTIFICATION

MB	Method Blank
ICB	Initial Calibration Blank
CCB	Continuing Calibration Blank

SPIKE QC SAMPLE IDENTIFICATION

MS	Method (Matrix) Spike
MSD	Method (Matrix) Spike Duplicate
PDS	Post Digestion/Distillation Spike
SB	Spiked Blank
SBD	Spiked Blank Duplicate

REFERENCE STANDARD QC SAMPLE IDENTIFICATION

LCS	Laboratory Control Standard
RS	Reference Standard
ICV	Initial Calibration Verification Standard
CCV	Continuing Calibration Verification Standard
ISA/ISB	ICP Interference Check Sample
DSC	Distilled Standard Check

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 07/30/2003

DUPLICATE QC SAMPLE IDENTIFICATION

MD	Method (Matrix) Duplicate
ED	Extraction Duplicate
DD	Digestion Duplicate
PDD	Post Digestion Duplicate
PSD	Post Digestion/Distillation Spike Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "technician" using the following codes:

SUBCONTRACT LABORATORIES

Severn Trent Laboratories:

Los Angeles, CA	*la	Houston, TX	*he
Aurora, CO	*au	North Canton, OH	*nc
Tampa, FL	*ta	Valparaiso, IN	*vp
Sacramento, CA	*sa	Chicago, IL	*ch
Pensacola, FL	*pe	Tallahassee, FL	*tl

Other:

Client provided data	*cp	Non-STL Subcontract Lab	*xx

EXPLANATION OF DATA FLAGS

B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.
D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.
E - Indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.
I - Used to indicate matrix interference.
X - Indicates that a surrogate recovery is outside the specified quality control limits.
Y - Used to identify a spike or spike duplicate recovery is outside the specified quality control limits.
* - Indicates a relative percent difference for a duplicate analysis is outside the specified quality control limits.
` - Used to indicate that a standard is outside specified quality control limits.

EXPLANATION OF DATA QUALIFIERS

B - Indicates that a value for an inorganic analysis is an estimate. It is used when a compound is determined to be present but at a concentration less than the quantitation limit of the method.
J - Indicates that a value for an organic analysis is an estimate. It is used when a compound is determined to be present based on chromatographic pattern or mass spectral data, but at a concentration less than the quantitation limit of the method. This flag is also used when estimating the concentration of a tentatively identified compound.
U - Indicates that a value is less than the MDL or was not detected.

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SEVERN TRE SERVICES

STL Corpus Christi
1733 N. Padre Island Drive
Corpus Christi, TX 78408

No. 006364

not chilled

CHAIN OF CUSTODY RECORD

cooler seal

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: ENTACT	PROJECT NAME/NUMBER: RSR 045 / 30959
SEND REPORT TO: JENNY ELSTE	**BILLING INFORMATION**
ADDRESS: 4040 W. ROYAL LN #136	BILL TO: SAME
IRVING, TX 75063	ADDRESS:
PHONE: 972-580-1323	PHONE:
FAX: 972-550-7464	FAX: PO NO.:

LAB JOB NO. 219900

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: Total Pb, As	% Moisture	MS / MSD	REMARKS/PRECAUTIONS
1	CH-S4C-A1-001	7/21/03	1458	SOIL	402			✓	✓		>REPORT "As Received"
2	CH-S4C-A2-002		1449								
3	CH-S4C-B1-003		1453								>LEVEL III DATA
4	CH-S4C-B3-004		1509								
5	CH-S4C-B3-005		1512								>RL's Pb < 5
6	CH-S4C-C1-006		1520								As < 1
7	CH-S4C-C3-007		1516								Sb < 5
8	CH-S4B-D2-008	7/22/03	1150								
9	CH-S4B-D3-009		1153								
10	CH-S4B-D3-010X		1153								

SAMPLER:

SHIPMENT METHOD: FedEx

AIRBILL NO.: 8414 2401 6797

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☒ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☐ OTHER _____

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Kirk Gates	7/22/03	SIGNATURE: Lisa R. Monroe	7/22/03	SIGNATURE: FedEx	
PRINTED NAME/COMPANY: KIRK GATES / ENTACT	TIME 14:00	PRINTED NAME/COMPANY: LISA R. MONROE / STL	TIME 1600	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: Lisa R. Monroe	7/22/03	SIGNATURE: FedEx		SIGNATURE: Emily A-Baker	7/23/03
PRINTED NAME/COMPANY: LISA MONROE / STL	TIME 1400	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: STL	TIME 0940

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

SEVERN TRENT SERVICES

STL Corpus Christi
1733 N. Padre Island Drive
Corpus Christi, TX 78408

No. 006363

not chilled

CHAIN OF CUSTODY RECORD

cooler seal

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: ENTACT	PROJECT NAME/NUMBER: RSR 005/30959
SEND REPORT TO: JENNY ELSTE	**BILLING INFORMATION**
ADDRESS: 4040 W. ROYAL LN #136	BILL TO: SAME
	ADDRESS:
PHONE: 972-580-1323	PHONE:
FAX: 972-550-7464	FAX: PO NO.:

LAB JOB NO. 219900

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	Total Pb, As	% Moisture	MS/MSD	REMARKS/PRECAUTIONS
11	CH-S4B-E3-011	7/22/03	12:00	SOIL	4oz			✓	✓		→ REPORT "AS RECEIVED"
12	CH-S4B-F3-012		12:05					✓	✓		
13	MS-013		12:02							✓	→ LEVEL III DATA
14	MSD-014		12:02							✓	
15	CH-S4B-F1-015		12:14					✓	✓		→ RLs Pb <5
16	RB-1		13:25	WATER				✓	1		As <1
											Sb <5

SAMPLER:

SHIPMENT METHOD: FedEx

AIRBILL NO.: 8414 2401 6797

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☒ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☐ OTHER _____

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Kirk Gates	7/22/03	SIGNATURE: Lisa R. Monroe	7/22/03	SIGNATURE: FedEx	
PRINTED NAME/COMPANY: KIRK GATES / ENTACT	TIME 14:00	PRINTED NAME/COMPANY: LISA R. MONROE / STL	TIME 1600	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: Lisa R. Monroe	7/22/03	SIGNATURE: FedEx		SIGNATURE: Emily A. Bauer	7/23/03
PRINTED NAME/COMPANY: LISA R. MONROE / STL	TIME 1400	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: STL	TIME 0940

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

STL Corpus Christi is a part of Severn Trent Laboratories, Inc.

STL-8222-CC (0700)

rpjsckl | Job Sample Receipt Checklist Report | V2

Job Number.: 219900 Location.: 57203 Check List Number.: 1 Description.:
Customer Job ID.....: Job Check List Date.: 07/23/2003 Date of the Report..: 07/23/2003
Project Number.: 98000203 Project Description.: Project-EAB Project Manager.....: eab
Customer.....: Entact, Inc. Contact.: Jenny Elste

Questions ?	(Y/N)	Comments
How did samples arrive?.....		FEDEX
Chain-of-Custody Present?.....	Y	
Custody seal on shipping container?.....	Y	
...If "yes", custody seal intact?.....	Y	
Custody seals on sample containers?.....	N	
...If "yes", custody seal intact?.....		
Samples chilled?.....	N	
Temperature blank in cooler?.....	N	
Temp of cooler acceptable? (0.05 to 6.00 deg C)		N/A, METALS SAMPLES
Samples received intact (good condition)?.....	Y	
Volatile samples acceptable? (no headspace).....		N/A
[redacted]ect containers used?.....	Y	
Adequate sample volume provided?.....	Y	
Samples preserved correctly?.....	Y	
Samples received within holding-time?.....	Y	
Agreement between COC and sample labels?.....	Y	
Additional.....		
Comments.....		
Sample Custodian Signature.....		EAB 7/23/03

SEVERN TRENT STL

ANALYTICAL REPORT

JOB NUMBER: 220240

Prepared For:

Entact, Inc.
4040 W. Royal Lane
Suite 136
Irving, TX 75063

Attention: Jenny Elste

Date: 08/18/2003

Signature

Name: Chip Meador

Title: Laboratory Director

E-Mail: cmeador@stl-inc.com

8/19/03
Date

Severn Trent Laboratories
1733 N. Padre Island Drive
Corpus Christi, TX 78408

PHONE: 361/289-2673
FAX..: 361/289-2471

TOTAL # OF PAGES 66

SEVERN TRENT STL

CASE NARRATIVE

Job Number 220240

August 18, 2003

Percent Solids/Moisture Analysis

Samples 220240-1 through 8 and 220240-16 through 21 were analyzed for percent solids/moisture using Standard Method 2540G. The method specified holding time for this analysis is 7 days from collection to analysis. These samples were received at the laboratory after the method holding time had expired. Results from expired samples should be flagged accordingly and used at the client's discretion.

Arsenic Analysis

Sample 220240-43 was analyzed for arsenic using EPA Method 6010B. The percent recovery results for the matrix spikes associated with this sample were outside the acceptance criteria. However, the percent recovery results for the post digestion spikes were acceptable. The associated LCS was within acceptable limits and it appears the out of control data are due to the sample matrix.

Lead Analysis

Samples 220240-20, 21, and 43 were analyzed for lead using EPA Method 6010B. The percent recovery results for the matrix spike pairs associated with samples 20, 21, and 43 were below the acceptance criteria due to matrix interferences and the concentration of lead in the samples. However, the percent recovery results for lead in the post digestion spikes for these samples were acceptable. The associated LCS was within acceptable limits and it appears the out of control data are due to the sample matrix.

Please call if you have any questions regarding this report or if we can be of further assistance.

Anh Tran
QA Assistant

SEVERN TRENT STL

SAMPLE INFORMATION
Date: 08/18/2003

Job Number.: 220240
Customer...: Entact, Inc.
Attn.....: Jenny Elste

Project Number.....: 98000203
Customer Project ID....: RSR-0U5 3D959
Project Description....: Project-EAB

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
220240-1	1 SV-S2-A14-0.25	Soil	08/05/2003	09:15	08/13/2003	09:45
220240-2	2 SV-S2-A12-0.25	Soil	08/05/2003	10:06	08/13/2003	09:45
220240-3	3 SV-S2-A12X-0.25	Soil	08/05/2003	10:06	08/13/2003	09:45
220240-4	4 SV-S2-B14-0.25	Soil	08/05/2003	10:48	08/13/2003	09:45
220240-5	5 SV-S2-C20-0.25	Soil	08/05/2003	11:05	08/13/2003	09:45
220240-6	6 SV-S2-B12-0.25	Soil	08/05/2003	11:50	08/13/2003	09:45
220240-7	7 SV-S2-A18-0.25	Soil	08/05/2003	12:25	08/13/2003	09:45
220240-8	8 SV-S2-B13-0.25	Soil	08/05/2003	15:00	08/13/2003	09:45
220240-9	9 SV-S2-D16-0.25	Soil	08/06/2003	12:20	08/13/2003	09:45
220240-10	10 SV-S2-D10-0.25	Soil	08/06/2003	13:40	08/13/2003	09:45
220240-11	11 SV-S2-E17-0.25	Soil	08/06/2003	14:10	08/13/2003	09:45
220240-12	12 SV-S2-E17X-0.25	Soil	08/06/2003	14:10	08/13/2003	09:45
220240-13	13 SV-S2-E14-0.25	Soil	08/06/2003	14:50	08/13/2003	09:45
220240-14	14 SV-S2-E13-0.25	Soil	08/06/2003	15:05	08/13/2003	09:45
220240-15	16 SV-S2-B10-0.25	Soil	08/06/2003	16:02	08/13/2003	09:45
220240-16	17 SV-4B-G1-0.5	Soil	08/04/2003	10:24	08/13/2003	09:45
220240-17	18 SV-4B-G2-0.25	Soil	08/04/2003	11:28	08/13/2003	09:45
220240-18	19 SV-4B-F2-0.5	Soil	08/04/2003	13:32	08/13/2003	09:45
220240-19	20 SV-4B-E2-0.66	Soil	08/04/2003	14:52	08/13/2003	09:45
220240-20	21 MS-21	Soil	08/04/2003	13:35	08/13/2003	09:45
220240-21	22 MSD-22	Soil	08/04/2003	13:35	08/13/2003	09:45
220240-22	23 SV-4A-H3-1.5	Soil	08/11/2003	07:46	08/13/2003	09:45
220240-23	24 SV-4A-H1-0.5	Soil	08/11/2003	07:50	08/13/2003	09:45
220240-24	25 SV-4A-H2-0.5	Soil	08/11/2003	08:13	08/13/2003	09:45
220240-25	26 SV-4A-I1-0.5	Soil	08/11/2003	08:40	08/13/2003	09:45
220240-26	27 SV-4A-I1X-0.5	Soil	08/11/2003	08:42	08/13/2003	09:45

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SEVERN TRENT STL

SAMPLE INFORMATION
Date:

Job Number.: 220240
Customer...: Entact, Inc.
Attn.....: Jenny Elste

Project Number.....: 98000203
Customer Project ID....: RSR-0U5 3D959
Project Description....: Project-EAB

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
220240-27	28 SV-4A-I2-0.66	Soil	08/11/2003	08:54	08/13/2003	09:45
220240-28	29 SV-4A-J1-0.5	Soil	08/11/2003	09:06	08/13/2003	09:45
220240-29	30 SV-4A-J2-0.5	Soil	08/11/2003	09:15	08/13/2003	09:45
220240-30	31 SV-4A-I3-0.5	Soil	08/11/2003	11:15	08/13/2003	09:45
220240-31	32 SV-4A-J3-0.5	Soil	08/11/2003	11:25	08/13/2003	09:45
220240-32	33 SV-4A-K3-0.5	Soil	08/11/2003	11:35	08/13/2003	09:45
220240-33	34 SV-4A-K2-0.5	Soil	08/11/2003	12:50	08/13/2003	09:45
220240-34	35 SV-4A-K1-0.5	Soil	08/11/2003	13:00	08/13/2003	09:45
220240-35	36 SV-4A-L2-0.5	Soil	08/11/2003	13:15	08/13/2003	09:45
220240-36	37 SV-4A-L1-0.5	Soil	08/11/2003	13:27	08/13/2003	09:45
220240-37	38 SV-4A-M1-0.5	Soil	08/11/2003	13:35	08/13/2003	09:45
220240-38	39 SV-4A-M2-0.5	Soil	08/11/2003	14:27	08/13/2003	09:45
220240-39	40 SV-4A-M2X-0.5	Soil	08/11/2003	14:29	08/13/2003	09:45
220240-40	41 SV-4A-L3-0.5	Soil	08/11/2003	14:35	08/13/2003	09:45
220240-41	42 SV-4A-M3-0.5	Soil	08/11/2003	14:47	08/13/2003	09:45
220240-42	43 MS-43	Soil	08/11/2003	14:49	08/13/2003	09:45
220240-43	44 MSD-44	Soil	08/11/2003	14:49	08/13/2003	09:45
220240-44	45 SV-2-E10-0.25	Soil	08/12/2003	10:15	08/13/2003	09:45
220240-45	46 SV-2-E11-0.25	Soil	08/12/2003	10:28	08/13/2003	09:45
220240-46	47 SV-2-E12-0.25	Soil	08/12/2003	10:35	08/13/2003	09:45

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220240

Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: 1 SV-S2-A14-0.25
Date Sampled.....: 08/05/2003
Time Sampled.....: 09:15
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-1
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	78.0	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	22.0	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	<1	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	19	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: 2 SV-S2-A12-0.25
Date Sampled.....: 08/05/2003
Time Sampled.....: 10:06
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-2
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	92.8	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	7.2	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	12	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	526	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: 3 SV-S2-A12X-0.25
Date Sampled.....: 08/05/2003
Time Sampled.....: 10:06
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-3
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	92.7	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	7.3	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	<1	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	2	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: 4 SV-S2-B14-0.25
Date Sampled.....: 08/05/2003
Time Sampled.....: 10:48
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-4
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	90.8	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	9.2	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	11	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	898	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: 5 SV-S2-C20-0.25
Date Sampled.....: 08/05/2003
Time Sampled.....: 11:05
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-5
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	92.6	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	7.4	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	8	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	588	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: 6 SV-S2-B12-0.25
Date Sampled.....: 08/05/2003
Time Sampled.....: 11:50
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-6
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	94.8	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	5.2	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	5	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	749	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: 7 SV-S2-A18-0.25
Date Sampled.....: 08/05/2003
Time Sampled.....: 12:25
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-7
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	92.4	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	7.6	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	6	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	365	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: 8 SV-S2-B13-0.25
Date Sampled.....: 08/05/2003
Time Sampled.....: 15:00
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-8
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	90.0	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	10.0	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	11	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	582	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-OU5 3D959 ATTN: Jenny Elste

Customer Sample ID: 9 SV-S2-D16-0.25
Date Sampled.....: 08/06/2003
Time Sampled.....: 12:20
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-9
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	90.7	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	9.3	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	16	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	1010	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: 10 SV-S2-D10-0.25
Date Sampled.....: 08/06/2003
Time Sampled.....: 13:40
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-10
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	95.8	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	4.2	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	9	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	419	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: 11 SV-S2-E17-0.25
Date Sampled.....: 08/06/2003
Time Sampled.....: 14:10
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-11
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	93.1	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	6.9	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	<1	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	2	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: 12 SV-S2-E17X-0.25
Date Sampled.....: 08/06/2003
Time Sampled.....: 14:10
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-12
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	93.2	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	6.8	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	11	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	399	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: 13 SV-S2-E14-0.25
Date Sampled.....: 08/06/2003
Time Sampled.....: 14:50
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-13
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	89.2	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	10.8	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	15	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	478	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-OU5 3D959 ATTN: Jenny Elste

Customer Sample ID: 14 SV-S2-E13-0.25
Date Sampled.....: 08/06/2003
Time Sampled.....: 15:05
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-14
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	91.7	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	8.3	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	6	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	263	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-OU5 3D959 ATTN: Jenny Elste

Customer Sample ID: 16 SV-S2-B10-0.25
Date Sampled.....: 08/06/2003
Time Sampled.....: 16:02
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-15
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	76.9	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	13.1	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	10	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	248	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: 17 SV-4B-G1-0.5
Date Sampled.....: 08/04/2003
Time Sampled.....: 10:24
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-16
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	91.2	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	8.8	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	4	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	159	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: 18 SV-4B-G2-0.25
Date Sampled.....: 08/04/2003
Time Sampled.....: 11:28
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-17
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	84.1	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	15.9	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	8	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	39	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220240

Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-OU5 3D959 ATTN: Jenny Elste

Customer Sample ID: 19 SV-4B-F2-0.5
Date Sampled.....: 08/04/2003
Time Sampled.....: 13:32
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-18
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	96.5	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	3.5	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	3	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	86	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: 20 SV-4B-E2-0.66
Date Sampled.....: 08/04/2003
Time Sampled.....: 14:52
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-19
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	96.9	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	3.1	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	11	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	353	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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LABORATORY TEST RESULTS

Job Number: 220240

Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: 21 MS-21
Date Sampled.....: 08/04/2003
Time Sampled.....: 13:35
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-20
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	96.4	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	3.6	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	3	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	86	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: 22 MSD-22
Date Sampled.....: 08/04/2003
Time Sampled.....: 13:35
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-21
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	96.1	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	3.9	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	4	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	168	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: 23 SV-4A-H3-1.5
Date Sampled.....: 08/11/2003
Time Sampled.....: 07:46
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-22
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	88.5	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	11.5	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	31	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	1950	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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LABORATORY TEST RESULTS

Job Number: 220240

Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: 24 SV-4A-H1-0.5
Date Sampled.....: 08/11/2003
Time Sampled.....: 07:50
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-23
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	95.8	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	4.2	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	13	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	553	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: 25 SV-4A-H2-0.5
Date Sampled.....: 08/11/2003
Time Sampled.....: 08:13
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-24
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	92.5	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	7.5	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	28	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	1140	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: 26 SV-4A-I1-0.5
Date Sampled.....: 08/11/2003
Time Sampled.....: 08:40
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-25
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	93.9	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	6.1	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	18	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	861	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: 27 SV-4A-I1X-0.5
Date Sampled.....: 08/11/2003
Time Sampled.....: 08:42
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-26
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	93.7	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	6.3	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	19	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	924	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: 28 SV-4A-I2-0.66
Date Sampled.....: 08/11/2003
Time Sampled.....: 08:54
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-27
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	86.2	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	13.8	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	20	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	829	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-OU5 3D959 ATTN: Jenny Elste

Customer Sample ID: 29 SV-4A-J1-0.5
Date Sampled.....: 08/11/2003
Time Sampled.....: 09:06
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-28
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	91.5	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	8.5	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	7	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	153	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: 30 SV-4A-J2-0.5
Date Sampled.....: 08/11/2003
Time Sampled.....: 09:15
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-29
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	87.7	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	12.3	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	14	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	483	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: 31 SV-4A-I3-0.5
Date Sampled.....: 08/11/2003
Time Sampled.....: 11:15
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-30
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	88.3	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	11.7	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	13	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	767	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: 32 SV-4A-J3-0.5
Date Sampled.....: 08/11/2003
Time Sampled.....: 11:25
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-31
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	84.7	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	15.3	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	12	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	267	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: 33 SV-4A-K3-0.5
Date Sampled.....: 08/11/2003
Time Sampled.....: 11:35
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-32
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	84.5	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	15.5	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	10	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	263	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: 34 SV-4A-K2-0.5
Date Sampled.....: 08/11/2003
Time Sampled.....: 12:50
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-33
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	88.0	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	12.0	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	12	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	318	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: 35 SV-4A-K1-0.5
Date Sampled.....: 08/11/2003
Time Sampled.....: 13:00
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-34
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	90.5	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	9.5	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	7	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	501	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-OU5 3D959 ATTN: Jenny Elste

Customer Sample ID: 36 SV-4A-L2-0.5
Date Sampled.....: 08/11/2003
Time Sampled.....: 13:15
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-35
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	87.8	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	12.2	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	10	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	130	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: 37 SV-4A-L1-0.5
Date Sampled.....: 08/11/2003
Time Sampled.....: 13:27
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-36
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	88.4	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	11.6	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	13	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	117	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-OU5 3D959 ATTN: Jenny Elste

Customer Sample ID: 38 SV-4A-M1-0.5
Date Sampled.....: 08/11/2003
Time Sampled.....: 13:35
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-37
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	86.9	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	13.1	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	9	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	37	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-OU5 3D959 ATTN: Jenny Elste

Customer Sample ID: 39 SV-4A-M2-0.5
Date Sampled.....: 08/11/2003
Time Sampled.....: 14:27
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-38
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	91.5	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	8.5	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	13	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	377	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: 40 SV-4A-M2X-0.5
Date Sampled.....: 08/11/2003
Time Sampled.....: 14:29
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-39
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	91.2	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	8.8	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	15	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	372	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: 41 SV-4A-L3-0.5
Date Sampled.....: 08/11/2003
Time Sampled.....: 14:35
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-40
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	86.5	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	13.5	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	10	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	79	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: 42 SV-4A-M3-0.5
Date Sampled.....: 08/11/2003
Time Sampled.....: 14:47
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-41
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	85.9	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	14.1	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	10	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	25	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: 43 MS-43
Date Sampled.....: 08/11/2003
Time Sampled.....: 14:49
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-42
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	86.5	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	13.5	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	8	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	26	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac'

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: 44 MSD-44
Date Sampled.....: 08/11/2003
Time Sampled.....: 14:49
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-43
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	86.3	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	13.7	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	9	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	22	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: 45 SV-2-E10-0.25
Date Sampled.....: 08/12/2003
Time Sampled.....: 10:15
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-44
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	93.4	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	6.6	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	29	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	1440	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: 46 SV-2-E11-0.25
Date Sampled.....: 08/12/2003
Time Sampled.....: 10:28
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-45
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	94.1	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	5.9	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	19	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	2010	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: 47 SV-2-E12-0.25
Date Sampled.....: 08/12/2003
Time Sampled.....: 10:35
Sample Matrix.....: Soil

Laboratory Sample ID: 220240-46
Date Received.....: 08/13/2003
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	93.7	0.1	%	08/13/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	6.3	0.1	%	08/13/03	hmz
SW-846 6010B	Arsenic (As), Solid	122	1	mg/Kg	08/15/03	edr
SW-846 6010B	Lead (Pb), Solid	1990	1	mg/Kg	08/15/03	edr
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/13/03	ac

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220240 Report Date.: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-OU5 30959 ATTN: Jenny Elste

Test Method.....: SM 2540G Batch.....: 83774 Analyst...: hmz
Method Description.: Total, Fixed, and Volatile Solids Units.....: % Test Code.: %SOLID
Parameter.....: % Solids (@ 104 deg. C)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MB		EX30731B	100.0							08/13/2003	1325
MD	220240-2		93.0			92.8	0.2	R	20	08/13/2003	1329
MD	220240-20		96.1			96.4	0.3	R	20	08/13/2003	1351
MD	220240-20		96.1	96.1		96.4	0.3	R	20	08/13/2003	1352
MB		EX30731B	100.0							08/13/2003	1353
MD	220240-21		96.1			96.1	0.0	R	20	08/13/2003	1356
MD	220240-21		96.0	96.1		96.1	0.1	R	20	08/13/2003	1357
MD	220240-33		88.1			88.0	0.1	R	20	08/13/2003	1412
MB		EX30731B	100.0							08/13/2003	1422
MD	220240-42		86.2			86.5	0.3	R	20	08/13/2003	1426
MD	220240-42		86.5	86.2		86.5	0.0	R	20	08/13/2003	1427
MD	220240-43		86.6			86.3	0.3	R	20	08/13/2003	1429
MD	220240-43		86.4	86.6		86.3	0.1	R	20	08/13/2003	1430

Test Method.....: SM 2540G Batch.....: 83774 Analyst...: hmz
Method Description.: Total, Fixed, and Volatile Solids Units.....: % Test Code.: MOIST
Parameter.....: Moisture (@ 104 deg. C)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MB		EX30731B	0.0							08/13/2003	1325
MD	220240-2		7.0			7.2	2.8	R	20	08/13/2003	1329
MD	220240-20		3.9			3.6	8.0	R	20	08/13/2003	1351
MD	220240-20		3.9	3.9		3.6	8.0	R	20	08/13/2003	1352
MB		EX30731B	0.0							08/13/2003	1353
MD	220240-21		3.9			3.9	0.0	R	20	08/13/2003	1356
MD	220240-21		4.0	3.9		3.9	2.5	R	20	08/13/2003	1357
MD	220240-33		11.9			12.0	0.8	R	20	08/13/2003	1412
MB		EX30731B	0.0							08/13/2003	1422
MD	220240-42		13.8			13.5	2.2	R	20	08/13/2003	1426
MD	220240-42		13.5	13.8		13.5	0.0	R	20	08/13/2003	1427
MD	220240-43		13.4			13.7	2.2	R	20	08/13/2003	1429
MD	220240-43		13.6	13.4		13.7	0.7	R	20	08/13/2003	1430

Test Method.....: SW-846 6010B Batch.....: 83832 Analyst...: edr
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0343	2.03423		2.00		101.7	%	90-110	08/15/2003	0841
ICV		M0346	1.01161		1.00		101.2	%	90-110	08/15/2003	0850
ICV		M0356	0.96978		1.00		97.0	%	90-110	08/15/2003	0900
ICB			0.00029							08/15/2003	0909
MB			-0.00413							08/15/2003	0914
LCS		M347	0.49629		0.500		99.3	%	85-110	08/15/2003	0919
CCV		M0363	1.05028		1.00		105.0	%	90-110	08/15/2003	1002
CCB			-0.00452							08/15/2003	1011
		M0363	1.03538		1.00		103.5	%	90-110	08/15/2003	1103
			-0.00177							08/15/2003	1113
MS	220240-20	M347	0.51195		0.500	0.03507	95.4	%	75-125	08/15/2003	1132

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220240 Report Date.: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Test Method.....: SW-846 6010B Batch.....: 83832 Analyst...: edr
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MSD	220240-20	M347	0.49898	0.51195	0.500	0.03507	92.8	%	75-125	08/15/2003	1136
							2.6	R	20		
PDS	220240-20	M346B	0.989346		1.00	0.03507	95.4	%	75-125	08/15/2003	1141
PSD	220240-20	M346B	0.96690	0.989346	1.00	0.03507	93.2	%	75-125	08/15/2003	1146
							2.3	R	20		
MB			-0.00182							08/15/2003	1151
LCS		M347	0.49722		0.500		99.4	%	85-110	08/15/2003	1155
CCV		M0363	1.03941		1.00		103.9	%	90-110	08/15/2003	1205
CCB			0.00484							08/15/2003	1214
MS	220240-21	M347	0.50926		0.500	0.02257	97.3	%	75-125	08/15/2003	1224
MSD	220240-21	M347	0.50538	0.50926	0.500	0.02257	96.6	%	75-125	08/15/2003	1228
							0.8	R	20		
PDS	220240-21	M346B	0.93824		1.00	0.02257	91.6	%	75-125	08/15/2003	1233
PSD	220240-21	M346B	0.96436	0.93824	1.00	0.02257	94.2	%	75-125	08/15/2003	1238
							2.7	R	20		
CCV		M0363	1.03676		1.00		103.7	%	90-110	08/15/2003	1306
CCB			0.001176							08/15/2003	131
CCV		M0363	1.01818		1.00		101.8	%	90-110	08/15/2003	1408
CCB			-0.00117							08/15/2003	1417
MB			0.00156							08/15/2003	1436
LCS		M347	0.47928		0.500		95.9	%	85-110	08/15/2003	1441
MS	220240-42	M347	0.52757		0.500	0.08705	88.1	%	75-125	08/15/2003	1500
MSD	220240-42	M347	0.51902	0.52757	0.500	0.08705	86.4	%	75-125	08/15/2003	1505
							1.6	R	20		
CCV		M0363	1.00317		1.00		100.3	%	90-110	08/15/2003	1510
CCB			0.00027							08/15/2003	1519
PDS	220240-42	M346B	0.95564		1.00	0.08705	86.9	%	75-125	08/15/2003	1524
PSD	220240-42	M346B	0.95873	0.95564	1.00	0.08705	87.2	%	75-125	08/15/2003	1528
							0.3	R	20		
MS	220240-43	M347	0.10763		0.500	0.09602	2.3	%	75-125	08/15/2003	1543
MSD	220240-43	M347	0.08950	0.10763	0.500	0.09602	-1.3	%	75-125	08/15/2003	1547
							18.4	R	20		
PDS	220240-43	M346B	0.95830		1.00	0.09602	86.2	%	75-125	08/15/2003	1552
PSD	220240-43	M346B	0.96387	0.95830	1.00	0.09602	86.8	%	75-125	08/15/2003	1557
							0.6	R	20		
CCV		M0363	1.00686		1.00		100.7	%	90-110	08/15/2003	1611
CCB			0.00285							08/15/2003	1621
CCV		M0363	1.01023		1.00		101.0	%	90-110	08/15/2003	1640
CCB			0.00428							08/15/2003	1649

Test Method.....: SW-846 6010B Batch.....: 83832 Analyst...: edr
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0343	2.01440		2.00		100.7	%	90-110	08/15/2003	0841
ICV		M0346	1.03592		1.00		103.6	%	90-110	08/15/2003	0850
ICV		M0356	0.99446		1.00		99.4	%	90-110	08/15/2003	090
ICB			-0.00148							08/15/2003	09
MB			-0.00026							08/15/2003	091
LCS		M347	0.49557		0.500		99.1	%	87-112	08/15/2003	0919

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220240 Report Date.: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-OU5 3D959 ATTN: Jenny Elste

Test Method.....: SW-846 6010B Batch.....: 83832 Analyst...: edr
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCV		M0363	1.04702		1.00		104.7	%	90-110	08/15/2003	1002
CCB			-0.00131							08/15/2003	1011
CCV		M0363	1.03475		1.00		103.5	%	90-110	08/15/2003	1103
CCB			-0.00128							08/15/2003	1113
MS	220240-20	M347	1.79914		0.500	1.07561	144.7	%	75-125	08/15/2003	1132
MSD	220240-20	M347	1.43918	1.79914	0.500	1.07561	72.7	%	75-125	08/15/2003	1136
							22.2	R	20		
PDS	220240-20	M346B	1.97976		1.00	1.07561	90.4	%	75-125	08/15/2003	1141
PSD	220240-20	M346B	1.93811	1.97976	1.00	1.07561	86.2	%	75-125	08/15/2003	1146
							2.1	R	20		
MB			-0.00017							08/15/2003	1151
LCS		M347	0.50009		0.500		100.0	%	87-112	08/15/2003	1155
CCV		M0363	1.03880		1.00		103.9	%	90-110	08/15/2003	1205
CCB			-0.00127							08/15/2003	1214
MS	220240-21	M347	1.47050		0.500	0.98285	97.5	%	75-125	08/15/2003	1224
MSD	220240-21	M347	1.32950	1.47050	0.500	0.98285	69.3	%	75-125	08/15/2003	1228
							10.1	R	20		
	220240-21	M346B	1.85677		1.00	0.98285	87.4	%	75-125	08/15/2003	1233
PSD	220240-21	M346B	1.88715	1.85677	1.00	0.98285	90.4	%	75-125	08/15/2003	1238
							1.6	R	20		
CCV		M0363	1.03372		1.00		103.4	%	90-110	08/15/2003	1306
CCB			-0.00075							08/15/2003	1316
CCV		M0363	1.01909		1.00		101.9	%	90-110	08/15/2003	1408
CCB			-0.00159							08/15/2003	1417
MB			-0.00163							08/15/2003	1436
LCS		M347	0.48601		0.500		97.2	%	87-112	08/15/2003	1441
MS	220240-42	M347	0.73479		0.500	0.21752	103.5	%	75-125	08/15/2003	1500
MSD	220240-42	M347	0.76170	0.73479	0.500	0.21752	108.8	%	75-125	08/15/2003	1505
							3.6	R	20		
CCV		M0363	1.00732		1.00		100.7	%	90-110	08/15/2003	1510
CCB			-0.00046							08/15/2003	1519
PDS	220240-42	M346B	1.04773		1.00	0.21752	83.0	%	75-125	08/15/2003	1524
PSD	220240-42	M346B	1.05671	1.04773	1.00	0.21752	83.9	%	75-125	08/15/2003	1528
							0.9	R	20		
MS	220240-43	M347	0.20978		0.500	0.23569	-5.2	%	75-125	08/15/2003	1543
MSD	220240-43	M347	0.21508	0.20978	0.500	0.23569	-4.1	%	75-125	08/15/2003	1547
							2.5	R	20		
PDS	220240-43	M346B	1.05502		1.00	0.23569	81.9	%	75-125	08/15/2003	1552
PSD	220240-43	M346B	1.06619	1.05502	1.00	0.23569	83.0	%	75-125	08/15/2003	1557
							1.1	R	20		
CCV		M0363	1.01544		1.00		101.5	%	90-110	08/15/2003	1611
CCB			-0.00030							08/15/2003	1621
CCV		M0363	1.01895		1.00		101.9	%	90-110	08/15/2003	1640
CCB			0.000264							08/15/2003	1649

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LABORATORY CHRONICLE

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Lab ID: 220240-1 Client ID: 1 SV-S2-A14-0.25
Date Recvd: 08/13/2003 Sample Date: 08/05/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83754		08/13/2003 1200	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 0924	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1326	

Lab ID: 220240-2 Client ID: 2 SV-S2-A12-0.25
Date Recvd: 08/13/2003 Sample Date: 08/05/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83754		08/13/2003 1200	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 0928	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1327	

Lab ID: 220240-3 Client ID: 3 SV-S2-A12X-0.25
Date Recvd: 08/13/2003 Sample Date: 08/05/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83754		08/13/2003 1200	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 0933	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1330	

Lab ID: 220240-4 Client ID: 4 SV-S2-B14-0.25
Date Recvd: 08/13/2003 Sample Date: 08/05/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83754		08/13/2003 1200	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 0938	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1331	

Lab ID: 220240-5 Client ID: 5 SV-S2-C20-0.25
Date Recvd: 08/13/2003 Sample Date: 08/05/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83754		08/13/2003 1200	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 0943	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1332	

Lab ID: 220240-6 Client ID: 6 SV-S2-B12-0.25
Date Recvd: 08/13/2003 Sample Date: 08/05/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83754		08/13/2003 1200	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 0947	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1333	

Lab ID: 220240-7 Client ID: 7 SV-S2-A18-0.25
Date Recvd: 08/13/2003 Sample Date: 08/05/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83754		08/13/2003 1200	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 0952	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1334	

Lab ID: 220240-8 Client ID: 8 SV-S2-B13-0.25
Date Recvd: 08/13/2003 Sample Date: 08/05/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83754		08/13/2003 1200	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 0957	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1336	

Lab ID: 220240-9 Client ID: 9 SV-S2-D16-0.25
Date Recvd: 08/13/2003 Sample Date: 08/06/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83754		08/13/2003 1200	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 1016	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1337	

Lab ID: 220240-10 Client ID: 10 SV-S2-D10-0.25
Date Recvd: 08/13/2003 Sample Date: 08/06/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83754		08/13/2003 1200	

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LABORATORY CHRONICLE

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Lab ID: 220240-10 Client ID: 10 SV-S2-D10-0.25
Date Recvd: 08/13/2003 Sample Date: 08/06/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 1020	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1338	

Lab ID: 220240-11 Client ID: 11 SV-S2-E17-0.25
Date Recvd: 08/13/2003 Sample Date: 08/06/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83754		08/13/2003 1200	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 1025	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1339	

Lab ID: 220240-12 Client ID: 12 SV-S2-E17X-0.25
Date Recvd: 08/13/2003 Sample Date: 08/06/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83754		08/13/2003 1200	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 1030	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1340	

Lab ID: 220240-13 Client ID: 13 SV-S2-E14-0.25
Date Recvd: 08/13/2003 Sample Date: 08/06/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83754		08/13/2003 1200	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 1035	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1342	

Lab ID: 220240-14 Client ID: 14 SV-S2-E13-0.25
Date Recvd: 08/13/2003 Sample Date: 08/06/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83754		08/13/2003 1200	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 1039	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1343	

Lab ID: 220240-15 Client ID: 16 SV-S2-B10-0.25
Date Recvd: 08/13/2003 Sample Date: 08/06/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83754		08/13/2003 1200	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 1044	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1344	

Lab ID: 220240-16 Client ID: 17 SV-4B-G1-0.5
Date Recvd: 08/13/2003 Sample Date: 08/04/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83754		08/13/2003 1200	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 1049	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1345	

Lab ID: 220240-17 Client ID: 18 SV-4B-G2-0.25
Date Recvd: 08/13/2003 Sample Date: 08/04/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83754		08/13/2003 1200	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 1054	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1346	

Lab ID: 220240-18 Client ID: 19 SV-4B-F2-0.5
Date Recvd: 08/13/2003 Sample Date: 08/04/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83754		08/13/2003 1200	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 1058	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1348	

Lab ID: 220240-19 Client ID: 20 SV-4B-E2-0.66
Date Recvd: 08/13/2003 Sample Date: 08/04/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83754		08/13/2003 1200	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 1117	

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LABORATORY CHRONICLE

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Lab ID: 220240-19 Client ID: 20 SV-4B-E2-0.66 Date Recvd: 08/13/2003 Sample Date: 08/04/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1349	

Lab ID: 220240-20 Client ID: 21 MS-21 Date Recvd: 08/13/2003 Sample Date: 08/04/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83754		08/13/2003 1200	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 1122	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1350	

Lab ID: 220240-21 Client ID: 22 MSD-22 Date Recvd: 08/13/2003 Sample Date: 08/04/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83755		08/13/2003 1400	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 1200	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1355	

Lab ID: 220240-22 Client ID: 23 SV-4A-H3-1.5 Date Recvd: 08/13/2003 Sample Date: 08/11/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83755		08/13/2003 1400	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 1243	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1358	

Lab ID: 220240-23 Client ID: 24 SV-4A-H1-0.5 Date Recvd: 08/13/2003 Sample Date: 08/11/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83755		08/13/2003 1400	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 1247	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1359	

Lab ID: 220240-24 Client ID: 25 SV-4A-H2-0.5 Date Recvd: 08/13/2003 Sample Date: 08/11/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83755		08/13/2003 1400	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 1252	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1401	

Lab ID: 220240-25 Client ID: 26 SV-4A-I1-0.5 Date Recvd: 08/13/2003 Sample Date: 08/11/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83755		08/13/2003 1400	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 1257	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1402	

Lab ID: 220240-26 Client ID: 27 SV-4A-I1X-0.5 Date Recvd: 08/13/2003 Sample Date: 08/11/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83755		08/13/2003 1400	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 1302	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1403	

Lab ID: 220240-27 Client ID: 28 SV-4A-I2-0.66 Date Recvd: 08/13/2003 Sample Date: 08/11/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83755		08/13/2003 1400	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 1630	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1404	

Lab ID: 220240-28 Client ID: 29 SV-4A-J1-0.5 Date Recvd: 08/13/2003 Sample Date: 08/11/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83755		08/13/2003 1400	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 1321	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1405	

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LABORATORY CHRONICLE

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Lab ID: 220240-29 Client ID: 30 SV-4A-J2-0.5 Date Recvd: 08/13/2003 Sample Date: 08/11/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83755		08/13/2003 1400	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 1325	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1407	

Lab ID: 220240-30 Client ID: 31 SV-4A-I3-0.5 Date Recvd: 08/13/2003 Sample Date: 08/11/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83755		08/13/2003 1400	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 1330	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1408	

Lab ID: 220240-31 Client ID: 32 SV-4A-J3-0.5 Date Recvd: 08/13/2003 Sample Date: 08/11/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83755		08/13/2003 1400	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 1335	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1409	

Lab ID: 220240-32 Client ID: 33 SV-4A-K3-0.5 Date Recvd: 08/13/2003 Sample Date: 08/11/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83755		08/13/2003 1400	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 1339	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1410	

ID: 220240-33 Client ID: 34 SV-4A-K2-0.5 Date Recvd: 08/13/2003 Sample Date: 08/11/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83755		08/13/2003 1400	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 1344	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1411	

Lab ID: 220240-34 Client ID: 35 SV-4A-K1-0.5 Date Recvd: 08/13/2003 Sample Date: 08/11/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83755		08/13/2003 1400	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 1349	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1414	

Lab ID: 220240-35 Client ID: 36 SV-4A-L2-0.5 Date Recvd: 08/13/2003 Sample Date: 08/11/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83755		08/13/2003 1400	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 1354	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1415	

Lab ID: 220240-36 Client ID: 37 SV-4A-L1-0.5 Date Recvd: 08/13/2003 Sample Date: 08/11/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83755		08/13/2003 1400	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 1358	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1416	

Lab ID: 220240-37 Client ID: 38 SV-4A-M1-0.5 Date Recvd: 08/13/2003 Sample Date: 08/11/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83755		08/13/2003 1400	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 1403	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1417	

Lab ID: 220240-38 Client ID: 39 SV-4A-M2-0.5 Date Recvd: 08/13/2003 Sample Date: 08/11/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83755		08/13/2003 1400	

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LABORATORY CHRONICLE

Job Number: 220240 Date: 08/18/2003

CUSTOMER: Entact, Inc. PROJECT: RSR-0U5 3D959 ATTN: Jenny Elste

Lab ID: 220240-38 Client ID: 39 SV-4A-M2-0.5
Date Recvd: 08/13/2003 Sample Date: 08/11/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 1422	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1418	

Lab ID: 220240-39 Client ID: 40 SV-4A-M2X-0.5
Date Recvd: 08/13/2003 Sample Date: 08/11/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83755		08/13/2003 1400	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 1427	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1420	

Lab ID: 220240-40 Client ID: 41 SV-4A-L3-0.5
Date Recvd: 08/13/2003 Sample Date: 08/11/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83755		08/13/2003 1400	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 1432	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1421	

Lab ID: 220240-41 Client ID: 42 SV-4A-M3-0.5
Date Recvd: 08/13/2003 Sample Date: 08/11/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83756		08/13/2003 1600	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 1446	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1423	

Lab ID: 220240-42 Client ID: 43 MS-43
Date Recvd: 08/13/2003 Sample Date: 08/11/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83756		08/13/2003 1600	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 1451	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1424	

Lab ID: 220240-43 Client ID: 44 MSD-44
Date Recvd: 08/13/2003 Sample Date: 08/11/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83756		08/13/2003 1600	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 1533	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1428	

Lab ID: 220240-44 Client ID: 45 SV-2-E10-0.25
Date Recvd: 08/13/2003 Sample Date: 08/12/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83756		08/13/2003 1600	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 1602	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1431	

Lab ID: 220240-45 Client ID: 46 SV-2-E11-0.25
Date Recvd: 08/13/2003 Sample Date: 08/12/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83756		08/13/2003 1600	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 1606	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1433	

Lab ID: 220240-46 Client ID: 47 SV-2-E12-0.25
Date Recvd: 08/13/2003 Sample Date: 08/12/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	83756		08/13/2003 1600	
SW-846 6010B	Metals Analysis (ICAP)	1	83832		08/15/2003 1625	
SM 2540G	Total, Fixed, and Volatile Solids	1	83774		08/13/2003 1435	

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 08/18/2003

(1) EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983
(2) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, September 1986, and Updates I, II, IIA, IIB, and III
(3) Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
(4) Methods of Organic Chemical Analysis of Municipal and Industrial Wastewater, Federal Register, Vol. 49, No. 209, October 1984 and 40 CFR Part 136 amendments
(5) EPA 600/2-78-054, Field and Laboratory Methods Applicable to Overburdens and Minesoils
(6) Methods of Soil Analysis, American Society of Agronomy, Agronomy No. 9, 1965
(7) ASTM, Section 11 Water and Environmental Technology, Volume 11.01 Water (1), 1991
(8) American Society for Testing and Materials, Petroleum Products, Lubricants, and Fossil Fuels, Section 5, Volumes 05.01 - 05.05
(9) Hach Handbook of Water Analysis, 1979

Comments:
Data in the QC report may differ from final results due to digestion and/or dilution of sample into analytical ranges. The "Time Analyzed" may not be the actual time of analysis. The "Date Analyzed" is the actual date of analysis. Sludge samples are reported on a wet weight basis (i.e., not corrected for percent moisture) unless otherwise indicated.

Quality Control acceptance criteria are based either on limits specified in the referenced method or on actual laboratory performance.

All data is reported on sample "as received" unless noted.

Sample IDs with a "-00" at the end indicate a blank spike or blank spike duplicate associated with the numbered sample.

SAMPLE RESULT IDENTIFICATION

ND	= Not detected at a value greater than the reporting limit
TNTC	= Too numerous to count

BLANK QC SAMPLE IDENTIFICATION

MB	Method Blank
ICB	Initial Calibration Blank
CCB	Continuing Calibration Blank

SPIKE QC SAMPLE IDENTIFICATION

MS	Method (Matrix) Spike
MSD	Method (Matrix) Spike Duplicate
PDS	Post Digestion/Distillation Spike
SB	Spiked Blank
SBD	Spiked Blank Duplicate

REFERENCE STANDARD QC SAMPLE IDENTIFICATION

LCS	Laboratory Control Standard
RS	Reference Standard
ICV	Initial Calibration Verification Standard
CCV	Continuing Calibration Verification Standard
ISA/ISB	ICP Interference Check Sample
DSC	Distilled Standard Check

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 08/18/2003

DUPLICATE QC SAMPLE IDENTIFICATION

MD	Method (Matrix) Duplicate
ED	Extraction Duplicate
DD	Digestion Duplicate
PDD	Post Digestion Duplicate
PSD	Post Digestion/Distillation Spike Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "technician" using the following codes:

SUBCONTRACT LABORATORIES

Severn Trent Laboratories:

Los Angeles, CA	*la	Houston, TX	*he
Aurora, CO	*au	North Canton, OH	*nc
Tampa, FL	*ta	Valparaiso, IN	*vp
Sacramento, CA	*sa	Chicago, IL	*ch
Pensacola, FL	*pe	Tallahassee, FL	*tl

Other:

Client provided data	*cp	Non-STL Subcontract Lab	*xx

EXPLANATION OF DATA FLAGS

B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.
D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.
E - Indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.
I - Used to indicate matrix interference.
X - Indicates that a surrogate recovery is outside the specified quality control limits.
Y - Used to identify a spike or spike duplicate recovery is outside the specified quality control limits.
* - Indicates a relative percent difference for a duplicate analysis is outside the specified quality control limits.
^ - Used to indicate that a standard is outside specified quality control limits.

EXPLANATION OF DATA QUALIFIERS

B - Indicates that a value for an inorganic analysis is an estimate. It is used when a compound is determined to be present but at a concentration less than the quantitation limit of the method.
J - Indicates that a value for an organic analysis is an estimate. It is used when a compound is determined to be present based on chromatographic pattern or mass spectral data, but at a concentration less than the quantitation limit of the method. This flag is also used when estimating the concentration of a tentatively identified compound.
U - Indicates that a value is less than the MDL or was not detected.

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SEV RN TRENT **STL**

No. 17162

1.90c

CHAIN OF CUSTODY RECORD

custody Seal Intact

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: ENTACT	PROJECT NAME/NUMBER: RSR005/30959
SEND REPORT TO: JENNY ELSTE	**BILLING INFORMATION**
ADDRESS: 4040 W. ROYAL LN #136	BILL TO: ← SAME
IRVING, TX 75063	ADDRESS:
PHONE: 972-580-1323	PHONE:
FAX: 972-550-7464	FAX: PO NO:

LAB JOB NO. 220240

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: TOTAL Pb, As	% MOISTURE	REMARKS/PRECAUTIONS
1	SV-S2-A14-0.25	8-5-03	9:15	SOIL	4oz			X	X	→ Report "As Received"
2	SV-S2-A12-0.25		10:06							
3	SV-S2-A12X-0.25		10:06							→ Level III DATA
4	SV-S2-B14-0.25		10:48							
5	SV-S2-C20-0.25		11:05							→ RL's Pb <5
6	SV-S2-B12-0.25		11:50							As <1
7	SV-S2-A18-0.25		12:25							
8	SV-S2-B13-0.25	↓	15:00							
9	SV-S2-D16-0.25	8-6-03	12:20							
10	SV-S2-D10-0.25	↓	13:40	↓	↓					

SAMPLER: KIRK GATES SHIPMENT METHOD: FedEx AIRBILL NO.: 841424016834

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☒ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☐ OTHER

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Kirk Gates	8-12-03	SIGNATURE: Lisa R. Monroe	8-12-03	SIGNATURE: FedEx	
PRINTED NAME/COMPANY: KIRK GATES / ENTACT	TIME 13:20	PRINTED NAME/COMPANY: LISA R. MONROE / STL	TIME 1700	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: Lisa R. Monroe	8-12-03	SIGNATURE FedEx		SIGNATURE:	8/13/03
PRINTED NAME/COMPANY: LISA R. MONROE / STL	TIME 1302	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: STL-CC	TIME 0945

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

STL8222-560 (12/02)

SEVERN TRENT **STL**

No. 17163

1.9°C

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: ENTACT	PROJECT NAME/NUMBER: RSROUS / 30959
SEND REPORT TO: JENNY ELSTE	**BILLING INFORMATION**
ADDRESS: 4040 W. ROYAL LN #136	BILL TO: ← SAME
IRVING, TX 75063	ADDRESS:
PHONE: 972-580-1323	PHONE:
FAX: 972-550-7464	FAX: PO NO:

Custody Seal Intact

LAB JOB NO. 220240

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: Total Pb, As	% Moisture	MS/MSD	REMARKS/PRECAUTIONS
11	SV-S2-E17-0.25	8-6-03	14:10	SOIL	4oz			X	X		→ Report "As Received"
12	SV-S2-E17X-0.25		14:10								
13	SV-S2-E14-0.25		14:50								→ Level III Data
14	SV-S2-E13-0.25		15:05								
16	SV-S2-B10-0.25		16:02								→ RL's Pb <5
17	SV-4B-G1-0.5	8-4-03	10:24								As <1
18	SV-4B-G2-0.25		11:28								
19	SV-4B-F2-0.5		13:32								
20	SV-4B-E2-0.66		14:52								
21	MS-21	8-4-03	13:35							X	

SAMPLER: KIRK GATES

SHIPMENT METHOD: FedEx

AIRBILL NO.: 841424016834

REQUIRED TURNAROUND* ☐ SAME DAY ~~☒~~ 24 HOURS (RR) ☒ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☐ OTHER _____

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Kirk Gates	8-12-03	SIGNATURE: Lisa R. Monroe	8-12-03	SIGNATURE: FedEx	
PRINTED NAME/COMPANY: KIRK GATES / ENTACT	TIME 13:20	PRINTED NAME/COMPANY: LISA R. MONROE / STL	TIME 1700	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: Lisa R. Monroe	8-12-03	SIGNATURE: FedEx		SIGNATURE:	8/13/03
PRINTED NAME/COMPANY: LISA R. MONROE / STL	TIME 13:20	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: STLTC	TIME 0945

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

STL8222-560 (12/02)

SEVERN TRENT **STL**

No. 17164

CHAIN OF CUSTODY RECORD

1.9°C

Custody Seal intact

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: ENTACT	PROJECT NAME/NUMBER: RSR OUS / 30959
SEND REPORT TO: JEANY ELSIE	**BILLING INFORMATION**
ADDRESS: 4040 W. ROYAL LN # 136	BILL TO: ← SAME
IRVING, TX 75063	ADDRESS:
PHONE: 972-580-1323	PHONE:
FAX: 972-550-7464	FAX: PO NO:

LAB JOB NO. 220240

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: Total Pb, As	% Moisture	MS/MSD	REMARKS/PRECAUTIONS
22	MSD-22 (KC)	8-4-03	13:35	SOIL	4oz				X		→ Report "As Received"
23	SV-4A-H3-~~0.5~~ 1.5	8-11-03	7:46					X	X		
24	SV-4A-H1-0.5		7:50								→ LEVEL III DATA
25	SV-4A-H2-0.5		8:13								
26	SV-4A-I1-0.5		8:40								→ RL's Pb <5
27	SV-4A-IIX-0.5		8:42								As <1
28	SV-4A-I2-0.66		8:54								
29	SV-4A-J1-0.5		9:06								
30	SV-4A-J2-0.5		9:15								
31	SV-4A-I3-0.5		11:15								

SAMPLER: KIRK GATES / STEVE OLIVER

SHIPMENT METHOD: FedEx

AIRBILL NO.: 841424016834

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☒ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☐ OTHER

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Kirk Gates	8-12-03	SIGNATURE: Lisa R. Monroe	8-12-03	SIGNATURE: FedEx	
PRINTED NAME/COMPANY: KIRK GATES / ENTACT	TIME 13:20	PRINTED NAME/COMPANY: LISA R. MONROE / STL	TIME 1700	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: Lisa R. Monroe	8-12-03	SIGNATURE: FedEx		SIGNATURE:	8/13/03
PRINTED NAME/COMPANY: LISA R. MONROE / STL	TIME 13:20	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: STL-C	TIME 0945

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

STL8222-560 (12/02)

SEVERN TRENT **STL**

No. 17165

CHAIN OF CUSTODY RECORD

1.90c

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: ENTACT	PROJECT NAME/NUMBER: RSR 045 / 30959
SEND REPORT TO: JENNY ELSTE	**BILLING INFORMATION**
ADDRESS: 4040 W. ROYAL LN #136	BILL TO: ← SAME
IRVING, TX 75063	ADDRESS:
PHONE: 972-580-1323	PHONE:
FAX: 972-550-7464	FAX: PO NO:

Custody Seal Intact

LAB JOB NO. 220240

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: Total Pb, As	% Moisture	REMARKS/PRECAUTIONS
32	SV-4A-J3-0.5	8-11-03	11:25	soil	4oz			X	X	> REPORT "As Received"
33	SV-4A-K3-0.5		11:35							
34	SV-4A-K2-0.5		12:50							> LEVEL III DATA
35	SV-4A-K1-0.5		13:00							
36	SV-4A-L2-0.5		13:15							> RL's Pb <5
37	SV-4A-L1-0.5		13:27							As <1
38	SV-4A-M1-0.5		13:35							
39	SV-4A-M2-0.5		14:27							
40	SV-4A-M2X-0.5		14:29							
41	SV-4A-L3-0.5		14:35							

SAMPLER: STEVE OLIVER

SHIPMENT METHOD: FedEx

AIRBILL NO.: 841424016834

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☒ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☐ OTHER _____

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Kirk Gates	8-12-03	SIGNATURE: Lisa R. Monroe	8-12-03	SIGNATURE: FedEx	
PRINTED NAME/COMPANY: KIRK GATES / ENTACT	TIME 13:20	PRINTED NAME/COMPANY: LISA R. MONROE / STL	TIME 1700	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: Lisa R. Monroe	8-12-03	SIGNATURE: FedEx		SIGNATURE:	8/13/03
PRINTED NAME/COMPANY: LISA R. MONROE / STL	TIME 13:20	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: STL-CC	TIME 0945

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

STL8222-560 (12/02)

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Chris[illegible] X 78408
Phone: (361) 289-267[illegible] Fax: (361) 289-2471

SEVERN TRENT STL

No. 17166

CHAIN OF CUSTODY RECORD

1.9°C

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: ENTACT	PROJECT NAME/NUMBER: RSR OUS / 30959
SEND REPORT TO: JENNY ELSTE	**BILLING INFORMATION**
ADDRESS: 4040 W. ROYAL LN #136	BILL TO: ← SAME
IRVING, TX 75063	ADDRESS:
PHONE: 972-580-1323	PHONE:
FAX: 972-550-7464	FAX: PO NO:

Custody Seal intact

LAB JOB NO. 220240

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: Total Pb, As	% Moisture	MS/MSD	REMARKS/PRECAUTIONS
42	SV-4A-M3-0.5	8-11-03	14:47	SOIL	4oz			X	X		> Report "As Received"
43	MS-43	↓	14:49	↓	↓					X	
44	MSD-44	↓	14:49	↓	↓					X	> Level III Data
45	SV-2-E10-0.25	8-12-03	10:15	↓	↓			X	X		
46	SV-2-E11-0.25	↓	10:28	↓	↓			↓	↓		> RL's Pb < 5
47	SV-2-E12-0.25	↓	10:35	↓	↓			↓	↓		As < 1

SAMPLER: STEVE OLIVER

SHIPMENT METHOD: FedEx

AIRBILL NO.: 841424016834

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☒ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☐ OTHER

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Kirk Gates	8-12-03	SIGNATURE: Lisa R. Monroe	8-12-03	SIGNATURE: FedEx	
PRINTED NAME/COMPANY: KIRK GATES / ENTACT	TIME 1320	PRINTED NAME/COMPANY: LISA R. MONROE / STL	TIME 1700	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: Lisa R. Monroe	8-12-03	SIGNATURE: FedEx		SIGNATURE:	8/13/03
PRINTED NAME/COMPANY: LISA R. MONROE / STL	TIME 1320	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: STL-A	TIME 0945

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

STL8222-560 (12/02)

rpjsckl	Job Sample Receipt Checklist Report	V2

Job Number.: 220240 Location.: 57203 Check List Number.: 1 Description.:
Customer Job ID.....: Job Check List Date.: Date of the Report..: 08/13/2003
Project Number.: 98000203 Project Description.: Project-EAB Project Manager.....: eab
Customer.....: Entact, Inc. Contact.: Jenny Elste

Questions ?	(Y/N)	Comments
How did samples arrive?	Y	FED EX DELIVERED
Chain-of-Custody Present?	Y	
Custody seal on shipping container?	Y	
...If "yes", custody seal intact?	Y	
Custody seals on sample containers?	N	
...If "yes", custody seal intact?		
Samples chilled?	Y	
Temperature blank in cooler?	Y	
Temp of cooler acceptable? (0.05 to 6.00 deg C)	Y	1.9 DEGREES C
Samples received intact (good condition)?	Y	
Volatile samples acceptable? (no headspace)		N/A
Correct containers used?	Y	
Adequate sample volume provided?	Y	
Samples preserved correctly?	Y	
Samples received within holding-time?	N	SOME OF THE MOISTURES ARRIVED OUT OF HOLD
Agreement between COC and sample labels?	Y	
Additional		
Comments		
Sample Custodian Signature		8/13/03

SEVERN TRENT STL

ANALYTICAL REPORT

JOB NUMBER: 220327

Prepared For:

Entact, Inc.
4040 W. Royal Lane
Suite 136
Irving, TX 75063

Attention: Jenny Elste

Date: 08/29/2003

Signature

Name: Chip Meador

Title: Laboratory Director

E-Mail: cmeador@stl-inc.com

9/3/03
Date

Severn Trent Laboratories
1733 N. Padre Island Drive
Corpus Christi, TX 78408

PHONE: 361/289-2673
FAX..: 361/289-2471

TOTAL # OF PAGES 19

SEVERN TRENT STL

SAMPLE INFORMATION
Date: 08/29/2003

Job Number.: 220327
Customer...: Entact, Inc.
Attn.....: Jenny Elste

Project Number.....: 98000203
Customer Project ID....: RSR 0U5 3D959
Project Description....: Project-EAB

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
220327-1	SV-3-STAKE	Soil	08/14/2003	14:56	08/19/2003	09:10
220327-2	SV-3-S(4-6')	Soil	08/14/2003	15:10	08/19/2003	09:10
220327-3	SV-3-N(4-6')	Soil	08/14/2003	15:25	08/19/2003	09:10
220327-4	SV-3-E(4-6')	Soil	08/14/2003	15:40	08/19/2003	09:10
220327-5	SV-3-W(4-6')	Soil	08/14/2003	15:55	08/19/2003	09:10
220327-6	SV-2-F11-0.25	Soil	08/15/2003	13:49	08/19/2003	09:10
220327-7	SV-2-F12-0.25	Soil	08/15/2003	13:21	08/19/2003	09:10
220327-8	SV-2-F13-0.25	Soil	08/15/2003	13:08	08/19/2003	09:10
220327-9	SV-2-G12-0.25	Soil	08/15/2003	13:42	08/19/2003	09:10
220327-10	SV-2-H11-0.25	Soil	08/15/2003	14:00	08/19/2003	09:10

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220327 Date: 08/29/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN: Jenny Elste

Customer Sample ID: SV-3-STAKE
Date Sampled.....: 08/14/2003
Time Sampled.....: 14:56
Sample Matrix.....: Soil

Laboratory Sample ID: 220327-1
Date Received.....: 08/19/2003
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	87.2	0.1	%	08/19/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	12.8	0.1	%	08/19/03	hmz
SW-846 6010B	Arsenic (As), Solid	13	1	mg/Kg	08/21/03	jem
SW-846 6010B	Lead (Pb), Solid	822	1	mg/Kg	08/20/03	jem
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/19/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220327

Date: 08/29/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN: Jenny Elste

Customer Sample ID: SV-3-S(4-6')
Date Sampled.....: 08/14/2003
Time Sampled.....: 15:10
Sample Matrix.....: Soil

Laboratory Sample ID: 220327-2
Date Received.....: 08/19/2003
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	77.2	0.1	%	08/19/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	22.8	0.1	%	08/19/03	hmz
SW-846 6010B	Arsenic (As), Solid	9	1	mg/Kg	08/21/03	jem
SW-846 6010B	Lead (Pb), Solid	915	1	mg/Kg	08/20/03	jem
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/19/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220327

Date: 08/29/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN: Jenny Elste

Customer Sample ID: SV-3-N(4-6')
Date Sampled.....: 08/14/2003
Time Sampled.....: 15:25
Sample Matrix.....: Soil

Laboratory Sample ID: 220327-3
Date Received.....: 08/19/2003
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	77.1	0.1	%	08/19/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	22.9	0.1	%	08/19/03	hmz
SW-846 6010B	Arsenic (As), Solid	11	1	mg/Kg	08/21/03	jem
SW-846 6010B	Lead (Pb), Solid	858	1	mg/Kg	08/20/03	jem
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/19/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220327

Date: 08/29/2003

CUSTOMER: Entact, Inc. PROJECT: RSR 0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: SV-3-E(4-6')
Date Sampled.....: 08/14/2003
Time Sampled.....: 15:40
Sample Matrix.....: Soil

Laboratory Sample ID: 220327-4
Date Received.....: 08/19/2003
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	79.5	0.1	%	08/19/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	20.5	0.1	%	08/19/03	hmz
SW-846 6010B	Arsenic (As), Solid	16	1	mg/Kg	08/21/03	jem
SW-846 6010B	Lead (Pb), Solid	1150	1	mg/Kg	08/20/03	jem
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/19/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220327

Date: 08/29/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN: Jenny Elste

Customer Sample ID: SV-3-W(4-6')
Date Sampled.....: 08/14/2003
Time Sampled.....: 15:55
Sample Matrix.....: Soil

Laboratory Sample ID: 220327-5
Date Received.....: 08/19/2003
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	78.8	0.1	%	08/19/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	21.2	0.1	%	08/19/03	hmz
SW-846 6010B	Arsenic (As), Solid	8	1	mg/Kg	08/21/03	jem
SW-846 6010B	Lead (Pb), Solid	682	1	mg/Kg	08/20/03	jem
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/19/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220327 Date: 08/29/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN: Jenny Elste

Customer Sample ID: SV-2-F11-0.25
Date Sampled.....: 08/15/2003
Time Sampled.....: 13:49
Sample Matrix.....: Soil

Laboratory Sample ID: 220327-6
Date Received.....: 08/19/2003
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	78.6	0.1	%	08/19/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	21.4	0.1	%	08/19/03	hmz
SW-846 6010B	Arsenic (As), Solid	8	1	mg/Kg	08/21/03	jem
SW-846 6010B	Lead (Pb), Solid	194	1	mg/Kg	08/20/03	jem
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/19/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220327

Date: 08/29/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN: Jenny Elste

Customer Sample ID: SV-2-F12-0.25
Date Sampled.....: 08/15/2003
Time Sampled.....: 13:21
Sample Matrix.....: Soil

Laboratory Sample ID: 220327-7
Date Received.....: 08/19/2003
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	79.8	0.1	%	08/19/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	20.2	0.1	%	08/19/03	hmz
SW-846 6010B	Arsenic (As), Solid	13	1	mg/Kg	08/21/03	jem
SW-846 6010B	Lead (Pb), Solid	1480	1	mg/Kg	08/20/03	jem
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/19/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220327 Date: 08/29/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN: Jenny Elste

Customer Sample ID: SV-2-F13-0.25
Date Sampled.....: 08/15/2003
Time Sampled.....: 13:08
Sample Matrix.....: Soil

Laboratory Sample ID: 220327-8
Date Received.....: 08/19/2003
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	80.0	0.1	%	08/19/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	20.0	0.1	%	08/19/03	hmz
SW-846 6010B	Arsenic (As), Solid	8	1	mg/Kg	08/21/03	jem
SW-846 6010B	Lead (Pb), Solid	955	1	mg/Kg	08/20/03	jem
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/19/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220327 Date: 08/29/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN: Jenny Elste

Customer Sample ID: SV-2-G12-0.25
Date Sampled.....: 08/15/2003
Time Sampled.....: 13:42
Sample Matrix.....: Soil

Laboratory Sample ID: 220327-9
Date Received.....: 08/19/2003
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	79.6	0.1	%	08/19/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	20.4	0.1	%	08/19/03	hmz
SW-846 6010B	Arsenic (As), Solid	9	1	mg/Kg	08/21/03	jem
SW-846 6010B	Lead (Pb), Solid	137	1	mg/Kg	08/20/03	jem
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/19/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220327

Date: 08/29/2003

CUSTOMER: Entact, Inc. PROJECT: RSR 0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: SV-2-H11-0.25
Date Sampled.....: 08/15/2003
Time Sampled.....: 14:00
Sample Matrix.....: Soil

Laboratory Sample ID: 220327-10
Date Received.....: 08/19/2003
Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	79.4	0.1	%	08/19/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	20.6	0.1	%	08/19/03	hmz
SW-846 6010B	Arsenic (As), Solid	19	1	mg/Kg	08/21/03	jem
SW-846 6010B	Lead (Pb), Solid	914	1	mg/Kg	08/20/03	jem
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/19/03	ac

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220327 Report Date.: 08/29/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 30959 ATTN: Jenny Elste

Test Method.....: SM 2540G Batch.....: 83944 Analyst...: hmz
Method Description.: Total, Fixed, and Volatile Solids Units.....: % Test Code.: %SOLID
Parameter.....: % Solids (@ 104 deg. C)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MB		EX30731B	100.0							08/19/2003	1505
MD	220327-2		76.8			77.2	0.5	R	20	08/19/2003	1518
MD	220327-9		79.1			79.6	0.6	R	20	08/19/2003	1540

Test Method.....: SM 2540G Batch.....: 83944 Analyst...: hmz
Method Description.: Total, Fixed, and Volatile Solids Units.....: % Test Code.: MOIST
Parameter.....: Moisture (@ 104 deg. C)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MB		EX30731B	0.0							08/19/2003	1505
MD	220327-2		23.2			22.8	1.7	R	20	08/19/2003	1518
MD	220327-9		20.9			20.4	2.4	R	20	08/19/2003	1540

Test Method.....: SW-846 6010B Batch.....: 84103 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
ICV		M0346	0.96714084		1.00		96.7	%	90-110	08/21/2003	1421
ICV		M0356	0.95717395		1.00		95.7	%	90-110	08/21/2003	1429
ICB			0.00377063							08/21/2003	1440
CCV		M0363	1.06425748		1.00		106.4	%	90-110	08/21/2003	1456
CCB			-0.0006653							08/21/2003	1507
MB		3050	0.00056839							08/21/2003	1510
LCS		M345	0.50987205		0.500		102.0	%	85-110	08/21/2003	1514
CCV		M0363	1.05271109		1.00		105.3	%	90-110	08/21/2003	1602
CCB			0.00338945							08/21/2003	1609
MB		3050	0.00231200							08/21/2003	1633
LCS		M347	0.50220833		0.500		100.4	%	85-110	08/21/2003	1636
MS	220321-3	M347	0.48029096		0.500	-0.0038683	96.8	%	75-125	08/21/2003	1648
CCV		M0363	0.92585137		1.00		92.6	%	90-110	08/21/2003	1652
CCB			0.00773415							08/21/2003	1659
MSD	220321-3	M347	0.44608470	0.48029096	0.500	-0.0038683	90.0	%	75-125	08/21/2003	1703
							7.4	R	20		
PDS	220321-3	M346B	0.90982537		1.00	-0.0038683	91.4	%	75-125	08/21/2003	1707
PSD	220321-3	M346B	0.91339269	0.90982537	1.00	-0.0038683	91.7	%	75-125	08/21/2003	1711
							0.4	R	20		
MB		3010	0.00280914							08/21/2003	1715
LCS		M347	0.51344502		0.500		102.7	%	85-110	08/21/2003	1718
MS	219836-1	M347	0.51478015		0.500	0.00874347	101.2	%	75-125	08/21/2003	1726
MSD	219836-1	M347	0.51349742	0.51478015	0.500	0.00874347	101.0	%	75-125	08/21/2003	1730
							0.2	R	20		
PDS	219836-1	M346B	0.99583287		1.00	0.00874347	98.7	%	75-125	08/21/2003	1734
PSD	219836-1	M346B	0.98865671	0.99583287	1.00	0.00874347	98.0	%	75-125	08/21/2003	1738
							0.7	R	20		
		M0363	0.91764067		1.00		91.8	%	90-110	08/21/2003	1742
			0.00451278							08/21/2003	1750
CCV		M0363	0.96666865		1.00		96.7	%	90-110	08/21/2003	1831
CCB			0.01008495							08/21/2003	1835

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220327 Report Date.: 08/29/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN: Jenny Elste

Test Method.....: SW-846 6010B Batch.....: 84103 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MB		3010	0.00825079							08/21/2003	1909
LCS		M347	0.51145961		0.500		102.3	%	85-110	08/21/2003	1913
CCV		M0363	0.95576692		1.00		95.6	%	90-110	08/21/2003	1921
CCB			0.00367038							08/21/2003	1928
MS	220239-1	M347	0.43168037		0.500	-0.0242767	91.2	%	75-125	08/21/2003	1932
MSD	220239-1	M347	0.43886740	0.43168037	0.500	-0.0242767	92.6	%	75-125	08/21/2003	1936
							1.7	R	20		
CCV		M0363	0.95784369		1.00		95.8	%	90-110	08/21/2003	2010
CCB			0.00303015							08/21/2003	2017
MB		3010	0.01329698							08/21/2003	2032
LCS		M347	0.45579262		0.500		91.2	%	85-110	08/21/2003	2036
CCV		M0363	0.97446095		1.00		97.4	%	90-110	08/21/2003	2058
CCB			0.01044548							08/21/2003	2102
MS	220311-2	M347	0.46257403		0.500	-0.0044960	93.4	%	75-125	08/21/2003	2136
MSD	220311-2	M347	0.46197828	0.46257403	0.500	-0.0044960	93.3	%	75-125	08/21/2003	2140
							0.1	R	20		
CCV		M0363	0.92329959		1.00		92.3	%	90-110	08/21/2003	2151
CCB			0.00611995							08/21/2003	2159
MB		3050	0.00243889							08/21/2003	2203
LCS		M347	0.47988877		0.500		96.0	%	85-110	08/21/2003	2206
CCV		M0363	0.95253887		1.00		95.3	%	90-110	08/21/2003	2239
CCB			0.00518877							08/21/2003	2243
CCV		M0363	0.95698582		1.00		95.7	%	90-110	08/21/2003	2328
CCB			0.00381003							08/21/2003	2336

Test Method.....: SW-846 6010B Batch.....: 83967 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0365	10.1007		10.0		101.0	%	90-110	08/20/2003	1143
ICV		M0346	1.0492		1.00		104.9	%	90-110	08/20/2003	1149
ICV		M0356	1.0103		1.00		101.0	%	90-110	08/20/2003	1156
ICB			0.0261							08/20/2003	1211
CCV		M0355	5.0611		5.00		101.2	%	90-110	08/20/2003	1226
CCB			0.0000							08/20/2003	1228
MB		3050	-0.0098							08/20/2003	1400
LCS		M347	0.4912		0.500		98.2	%	87-112	08/20/2003	1402
CCV		M0355	5.3388		5.00		106.8	%	90-110	08/20/2003	1436
CCB			-0.0064							08/20/2003	1439
PDS	220321-1	M346B	1.0935		1.00	0.1985	89.5	%	75-125	08/20/2003	1454
PSD	220321-1	M346B	1.1674	1.0935	1.00	0.1985	96.9	%	75-125	08/20/2003	1456
							6.5	R	20		
CCV		M0355	5.0553		5.00		101.1	%	90-110	08/20/2003	1510
CCB			-0.0076							08/20/2003	1512
MB		3010	-0.0294							08/20/2003	1530
LCS		M347	0.5344		0.500		106.9	%	87-112	08/20/2003	1532
MS	220239-1	M347	0.4611		0.500	-0.0097	94.2	%	75-125	08/20/2003	1537
MSD	220239-1	M347	0.4839	0.4611	0.500	-0.0097	98.7	%	75-125	08/20/2003	15
							4.8	R	20		
CCV		M0355	5.1734		5.00		103.5	%	90-110	08/20/2003	161

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220327 Report Date.: 08/29/2003

CUSTOMER: Entact, Inc. PROJECT: RSR OU5 3D959 ATTN: Jenny Elste

Test Method.....: SW-846 6010B Batch.....: 83967 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
CCB			-0.0131							08/20/2003	1620

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 08/29/2003

(1) EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983
(2) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, September 1986, and Updates I, II, IIA, IIB, and III
(3) Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
(4) Methods of Organic Chemical Analysis of Municipal and Industrial Wastewater, Federal Register, Vol. 49, No. 209, October 1984 and 40 CFR Part 136 amendments
(5) EPA 600/2-78-054, Field and Laboratory Methods Applicable to Overburdens and Minesoils
(6) Methods of Soil Analysis, American Society of Agronomy, Agronomy No. 9, 1965
(7) ASTM, Section 11 Water and Environmental Technology, Volume 11.01 Water (1), 1991
(8) American Society for Testing and Materials, Petroleum Products, Lubricants, and Fossil Fuels, Section 5, Volumes 05.01 - 05.05
(9) Hach Handbook of Water Analysis, 1979

Comments:
Data in the QC report may differ from final results due to digestion and/or dilution of sample into analytical ranges. The "Time Analyzed" may not be the actual time of analysis. The "Date Analyzed" is the actual date of analysis. Sludge samples are reported on a wet weight basis (i.e., not corrected for percent moisture) unless otherwise indicated.

Quality Control acceptance criteria are based either on limits specified in the referenced method or on actual laboratory performance.

All data is reported on sample "as received" unless noted.

Sample IDs with a "-00" at the end indicate a blank spike or blank spike duplicate associated with the numbered sample.

SAMPLE RESULT IDENTIFICATION

ND	= Not detected at a value greater than the reporting limit
TNTC	= Too numerous to count

BLANK QC SAMPLE IDENTIFICATION

MB	Method Blank
ICB	Initial Calibration Blank
CCB	Continuing Calibration Blank

SPIKE QC SAMPLE IDENTIFICATION

MS	Method (Matrix) Spike
MSD	Method (Matrix) Spike Duplicate
PDS	Post Digestion/Distillation Spike
SB	Spiked Blank
SBD	Spiked Blank Duplicate

REFERENCE STANDARD QC SAMPLE IDENTIFICATION

LCS	Laboratory Control Standard
RS	Reference Standard
ICV	Initial Calibration Verification Standard
CCV	Continuing Calibration Verification Standard
ISA/ISB	ICP Interference Check Sample
DSC	Distilled Standard Check

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SEVERN TRENT **STL**

No. 17108

CHAIN OF CUSTODY RECORD

custody seal intact on ice

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: ENTACT	PROJECT NAME/NUMBER: RSR 045/30959
SEND REPORT TO: JENNY ELSTE	**BILLING INFORMATION**
ADDRESS: 4040 W. ROYAL LN #136	BILL TO: SAME
IRVING, TX 75063	ADDRESS:
PHONE: 972-580-1323	PHONE:
FAX: 972-550-7464	FAX: PO NO:

LAB JOB NO. 22032 7

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: Total Pb, As	ANALYSIS/METHOD REQUEST: % Moisture	REMARKS/PRECAUTIONS
1	SV-3-STAKE	8-14-03	14:56	SOIL	4oz			X	X	*Report "As Received"
2	SV-3-S(4'-6')		15:10							
3	SV-3-N(4'-6')		15:25							*Level III Data
4	SV-3-E(4'-6')		15:40							
5	SV-3-W(4'-6')		15:55							*RL's Pb <5
6	SV-2-F11-0.25	8-15-03	13:49							As <1
7	SV-2-F12-0.25		13:21							*SAMPLES 1-5
8	SV-2-F13-0.25		13:08							24 HOUR TAT,
9	SV-2-G12-0.25		13:42							*6-10 48 HOUR
10	SV-2-H11-0.25		14:00							TAT

24 hr TAT

48 hr TAT

SURCHARGE

*RUSH TURNAROUND MAY REQUIRE

SAMPLER: KIRK GATES SHIPMENT METHOD: FedEx AIRBILL NO: 814311041 25

REQUIRED TURNAROUND* ☐ SAME DAY ☒ 24 HOURS ☒ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☐ OTHER

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Kirk Gates	8-18-03	SIGNATURE: Lisa R. Monroe	8-18-03	SIGNATURE: FedEx	
PRINTED NAME/COMPANY: KIRK GATES / ENTACT	TIME 16:15	PRINTED NAME/COMPANY: LISA MONROE / STL 8/18/03 LRM	TIME 16:15	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: Lisa R. Monroe	8-18-03	SIGNATURE: FedEx		SIGNATURE:	8/19/03
PRINTED NAME/COMPANY: LISA MONROE / STL	TIME 16:15	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: STL-CC	TIME 0910

SEVERN TRENT LABORATORIES, INC.
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: (361) 289-2673 / Fax: (361) 289-2471

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 08/29/2003

DUPLICATE QC SAMPLE IDENTIFICATION

MD	Method (Matrix) Duplicate
ED	Extraction Duplicate
DD	Digestion Duplicate
PDD	Post Digestion Duplicate
PSD	Post Digestion/Distillation Spike Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "technician" using the following codes:

SUBCONTRACT LABORATORIES

Severn Trent Laboratories:

Los Angeles, CA	*la	Houston, TX	*he
Aurora, CO	*au	North Canton, OH	*nc
Tampa, FL	*ta	Valparaiso, IN	*vp
Sacramento, CA	*sa	Chicago, IL	*ch
Pensacola, FL	*pe	Tallahassee, FL	*tl

Other:

Client provided data	*cp	Non-STL Subcontract Lab	*xx

EXPLANATION OF DATA FLAGS

B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.
D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.
E - Indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.
I - Used to indicate matrix interference.
X - Indicates that a surrogate recovery is outside the specified quality control limits.
Y - Used to identify a spike or spike duplicate recovery is outside the specified quality control limits.
* - Indicates a relative percent difference for a duplicate analysis is outside the specified quality control limits.
^ - Used to indicate that a standard is outside specified quality control limits.

EXPLANATION OF DATA QUALIFIERS

B - Indicates that a value for an inorganic analysis is an estimate. It is used when a compound is determined to be present but at a concentration less than the quantitation limit of the method.
J - Indicates that a value for an organic analysis is an estimate. It is used when a compound is determined to be present based on chromatographic pattern or mass spectral data, but at a concentration less than the quantitation limit of the method. This flag is also used when estimating the concentration of a tentatively identified compound.
U - Indicates that a value is less than the MDL or was not detected.

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rpjsckl | Job Sample Receipt Checklist Report | V2

Job Number.: 220327 Location.: 57203 Check List Number.: 1 Description.:
Customer Job ID.....: Job Check List Date.: Date of the Report..: 08/19/2003
Project Number.: 98000203 Project Description.: Project-EAB Project Manager.....: eab
Customer.....: Entact, Inc. Contact.: Jenny Elste

Questions ?	(Y/N)	Comments
How did samples arrive?.....	Y	FED EX DELIVERED
Chain-of-Custody Present?.....	Y	
Custody seal on shipping container?.....	Y	
...If "yes", custody seal intact?.....	Y	
Custody seals on sample containers?.....	N	
...If "yes", custody seal intact?.....		
Samples chilled?.....	Y	
Temperature blank in cooler?.....	N	
Temp of cooler acceptable? (0.05 to 6.00 deg C)	Y	ON ICE
Samples received intact (good condition)?.....	Y	
Volatile samples acceptable? (no headspace).....		N/A
[redacted]ct containers used?.....	Y	
Adequate sample volume provided?.....	Y	
Samples preserved correctly?.....	Y	
Samples received within holding-time?.....	Y	
Agreement between COC and sample labels?.....	Y	
Additional.....		
Comments.....		
Sample Custodian Signature.....	8/19/03	

SEVERN TRENT STL

ANALYTICAL REPORT

JOB NUMBER: 220426

Prepared For:

Entact, Inc.
4040 W. Royal Lane
Suite 136
Irving, TX 75063

Attention: Jenny Elste

Date: 09/04/2003

Signature

Name: Chip Meador

Title: Laboratory Director

E-Mail: cmeador@stl-inc.com

9/8/03
Date

Severn Trent Laboratories
1733 N. Padre Island Drive
Corpus Christi, TX 78408

PHONE: 361/289-2673
FAX..: 361/289-2471

TOTAL # OF PAGES 21

SEVERN TRENT STL

SAMPLE INFORMATION
Date: 09/04/2003

Job Number.: 220426
Customer...: Entact, Inc.
Attn.....: Jenny Elste

Project Number.....: 98000203
Customer Project ID....: RSR0U5 3D959
Project Description....: Project-EAB

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
220426-1	SV-3-C2-0.25	Soil	08/25/2003	09:45	08/26/2003	09:15
220426-2	SV-3-B3-0.25	Soil	08/25/2003	09:50	08/26/2003	09:15
220426-3	SV-3-P8-0.25	Soil	08/25/2003	09:55	08/26/2003	09:15
220426-4	SV-2-A10-0.25	Soil	08/25/2003	10:25	08/26/2003	09:15
220426-5	SV-2-A10X-0.25	Soil	08/25/2003	10:27	08/26/2003	09:15
220426-6	MS-A10	Soil	08/25/2003	10:28	08/26/2003	09:15
220426-7	MSD-A10X	Soil	08/25/2003	10:29	08/26/2003	09:15
220426-8	SV-2-E11-1.0	Soil	08/25/2003	10:50	08/26/2003	09:15
220426-9	SV-2-E12-1.0	Soil	08/25/2003	10:57	08/26/2003	09:15
220426-10	SV-2-B26-1.0	Soil	08/25/2003	14:25	08/26/2003	09:15

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220426 Date: 09/04/2003

CUSTOMER: Entact, Inc. PROJECT: RSR0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: SV-3-C2-0.25
Date Sampled.....: 08/25/2003
Time Sampled.....: 09:45
Sample Matrix.....: Soil

Laboratory Sample ID: 220426-1
Date Received.....: 08/26/2003
Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	87.1	0.1	%	08/26/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	12.9	0.1	%	08/26/03	hmz
SW-846 6010B	Arsenic (As), Solid	22	1	mg/Kg	08/27/03	jem
SW-846 6010B	Lead (Pb), Solid	561	1	mg/Kg	08/27/03	jem
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/26/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220426

Date: 09/04/2003

CUSTOMER: Entact, Inc. PROJECT: RSR0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: SV-3-B3-0.25
Date Sampled.....: 08/25/2003
Time Sampled.....: 09:50
Sample Matrix.....: Soil

Laboratory Sample ID: 220426-2
Date Received.....: 08/26/2003
Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	88.1	0.1	%	08/26/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	11.9	0.1	%	08/26/03	hmz
SW-846 6010B	Arsenic (As), Solid	18	1	mg/Kg	08/27/03	jem
SW-846 6010B	Lead (Pb), Solid	634	1	mg/Kg	08/27/03	jem
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/26/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220426 Date: 09/04/2003

CUSTOMER: Entact, Inc. PROJECT: RSROU5 3D959 ATTN: Jenny Elste

Customer Sample ID: SV-3-P8-0.25
Date Sampled.....: 08/25/2003
Time Sampled.....: 09:55
Sample Matrix.....: Soil

Laboratory Sample ID: 220426-3
Date Received.....: 08/26/2003
Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	88.2	0.1	%	08/26/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	11.8	0.1	%	08/26/03	hmz
SW-846 6010B	Arsenic (As), Solid	29	1	mg/Kg	08/27/03	jem
SW-846 6010B	Lead (Pb), Solid	1160	1	mg/Kg	08/27/03	jem
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/26/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220426

Date: 09/04/2003

CUSTOMER: Entact, Inc. PROJECT: RSR0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: SV-2-A10-0.25
Date Sampled.....: 08/25/2003
Time Sampled.....: 10:25
Sample Matrix.....: Soil

Laboratory Sample ID: 220426-4
Date Received.....: 08/26/2003
Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	90.7	0.1	%	08/26/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	9.3	0.1	%	08/26/03	hmz
SW-846 6010B	Antimony (Sb), Solid	40	1	mg/Kg	08/28/03	jem
SW-846 6010B	Arsenic (As), Solid	18	1	mg/Kg	08/27/03	jem
SW-846 6010B	Lead (Pb), Solid	731	1	mg/Kg	08/27/03	jem
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/26/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220426

Date: 09/04/2003

CUSTOMER: Entact, Inc. PROJECT: RSRDU5 3D959 ATTN: Jenny Elste

Customer Sample ID: SV-2-A10X-0.25
Date Sampled.....: 08/25/2003
Time Sampled.....: 10:27
Sample Matrix.....: Soil

Laboratory Sample ID: 220426-5
Date Received.....: 08/26/2003
Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	88.7	0.1	%	08/26/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	11.3	0.1	%	08/26/03	hmz
SW-846 6010B	Antimony (Sb), Solid	7	1	mg/Kg	08/28/03	jem
SW-846 6010B	Arsenic (As), Solid	18	1	mg/Kg	08/27/03	jem
SW-846 6010B	Lead (Pb), Solid	585	1	mg/Kg	08/27/03	jem
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/26/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220426 Date: 09/04/2003

CUSTOMER: Entact, Inc. PROJECT: RSR0U5 3D959 ATTN: Jenny Elste

Customer Sample ID: MS-A10
Date Sampled.....: 08/25/2003
Time Sampled.....: 10:28
Sample Matrix.....: Soil

Laboratory Sample ID: 220426-6
Date Received.....: 08/26/2003
Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	88.8	0.1	%	08/26/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	11.2	0.1	%	08/26/03	hmz
SW-846 6010B	Antimony (Sb), Solid	8	1	mg/Kg	08/28/03	jem
SW-846 6010B	Arsenic (As), Solid	21	1	mg/Kg	08/27/03	jem
SW-846 6010B	Lead (Pb), Solid	650	1	mg/Kg	08/27/03	jem
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/26/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220426

Date: 09/04/2003

CUSTOMER: Entact, Inc. PROJECT: RSROU5 3D959 ATTN: Jenny Elste

Customer Sample ID: MSD-A10X
Date Sampled.....: 08/25/2003
Time Sampled.....: 10:29
Sample Matrix.....: Soil

Laboratory Sample ID: 220426-7
Date Received.....: 08/26/2003
Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	87.6	0.1	%	08/26/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	12.4	0.1	%	08/26/03	hmz
SW-846 6010B	Antimony (Sb), Solid	16	1	mg/Kg	08/28/03	jem
SW-846 6010B	Arsenic (As), Solid	18	1	mg/Kg	08/27/03	jem
SW-846 6010B	Lead (Pb), Solid	499	1	mg/Kg	08/27/03	jem
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/26/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220426 Date: 09/04/2003

CUSTOMER: Entact, Inc. PROJECT: RSROU5 3D959 ATTN: Jenny Elste

Customer Sample ID: SV-2-E11-1.0
Date Sampled.....: 08/25/2003
Time Sampled.....: 10:50
Sample Matrix.....: Soil

Laboratory Sample ID: 220426-8
Date Received.....: 08/26/2003
Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	92.1	0.1	%	08/26/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	7.9	0.1	%	08/26/03	hmz
SW-846 6010B	Antimony (Sb), Solid	3	1	mg/Kg	08/28/03	jem
SW-846 6010B	Arsenic (As), Solid	18	1	mg/Kg	08/27/03	jem
SW-846 6010B	Lead (Pb), Solid	122	1	mg/Kg	08/27/03	jem
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/26/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220426 Date: 09/04/2003

CUSTOMER: Entact, Inc. PROJECT: RSROU5 3D959 ATTN: Jenny Elste

Customer Sample ID: SV-2-E12-1.0
Date Sampled.....: 08/25/2003
Time Sampled.....: 10:57
Sample Matrix.....: Soil

Laboratory Sample ID: 220426-9
Date Received.....: 08/26/2003
Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	85.2	0.1	%	08/26/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	14.8	0.1	%	08/26/03	hmz
SW-846 6010B	Antimony (Sb), Solid	6	1	mg/Kg	08/28/03	jem
SW-846 6010B	Arsenic (As), Solid	21	1	mg/Kg	08/27/03	jem
SW-846 6010B	Lead (Pb), Solid	555	1	mg/Kg	08/27/03	jem
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/26/03	ac

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 220426

Date: 09/04/2003

CUSTOMER: Entact, Inc. PROJECT: RSROU5 3D959 ATTN: Jenny Elste

Customer Sample ID: SV-2-B26-1.0
Date Sampled.....: 08/25/2003
Time Sampled.....: 14:25
Sample Matrix.....: Soil

Laboratory Sample ID: 220426-10
Date Received.....: 08/26/2003
Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	97.4	0.1	%	08/26/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	2.6	0.1	%	08/26/03	hmz
SW-846 6010B	Antimony (Sb), Solid	7	1	mg/Kg	08/28/03	jem
SW-846 6010B	Arsenic (As), Solid	17	1	mg/Kg	08/27/03	jem
SW-846 6010B	Lead (Pb), Solid	515	1	mg/Kg	08/27/03	jem
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			08/26/03	ac

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220426 Report Date.: 09/04/2003

CUSTOMER: Entact, Inc. PROJECT: RSR0U5 3D959 ATTN: Jenny Elste

Test Method.....: SM 2540G Batch.....: 84189 Analyst...: hmz
Method Description.: Total, Fixed, and Volatile Solids Units.....: % Test Code.: %SOLID
Parameter.....: % Solids (@ 104 deg. C)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MB		EX30731B	100.0							08/26/2003	1120
MD	220426-6		88.9			88.8	0.1	R	20	08/26/2003	1132
MD	220426-6		89.0	88.9		88.8	0.2	R	20	08/26/2003	1133
MD	220426-7		87.4			87.6	0.2	R	20	08/26/2003	1136
MD	220426-7		87.8	87.4		87.6	0.2	R	20	08/26/2003	1138

Test Method.....: SM 2540G Batch.....: 84189 Analyst...: hmz
Method Description.: Total, Fixed, and Volatile Solids Units.....: % Test Code.: MOIST
Parameter.....: Moisture (@ 104 deg. C)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MB		EX30731B	0.0							08/26/2003	1120
MD	220426-6		11.1			11.2	0.9	R	20	08/26/2003	1132
MD	220426-6		11.0	11.1		11.2	1.8	R	20	08/26/2003	1133
MD	220426-7		12.6			12.4	1.6	R	20	08/26/2003	1136
MD	220426-7		12.2	12.6		12.4	1.6	R	20	08/26/2003	1138

Test Method.....: SW-846 6010B Batch.....: 84269 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: SB
Parameter.....: Antimony (Sb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0353	1.00682356		1.00		100.7	%	90-110	08/28/2003	1355
ICV		M0346	1.09486787		1.00		109.5	%	90-110	08/28/2003	1359
ICB			0.00087576							08/28/2003	1419
CCV		M0363	1.07818310		1.00		107.8	%	90-110	08/28/2003	1434
CCB			0.00808005							08/28/2003	1442
MB		3010	-0.0023247							08/28/2003	1445
LCS		M347	0.52927564		0.500		105.9	%	64-138	08/28/2003	1449
MS	220439-1	M347	0.59318633		0.500	0.03835943	111.0	%	75-125	08/28/2003	1458
MSD	220439-1	M347	0.59223665	0.59318633	0.500	0.03835943	110.8	%	75-125	08/28/2003	1502
							0.2	R	20		
PDS	220439-1	M346B	1.10608972		1.00	0.03835943	106.8	%	75-125	08/28/2003	1506
PSD	220439-1	M346B	1.15007715	1.10608972	1.00	0.03835943	111.2	%	75-125	08/28/2003	1510
							3.9	R	20		
CCV		M0363	1.08193022		1.00		108.2	%	90-110	08/28/2003	1526
CCB			0.00680152							08/28/2003	1534
MB		3050	-0.0027786							08/28/2003	1604
LCS		M347	0.56399942		0.500		112.8	%	64-138	08/28/2003	1608
CCV		M0363	1.04124118		1.00		104.1	%	90-110	08/28/2003	1618
CCB			0.00573952							08/28/2003	1626
PDS	220426-6	M346B	1.06140473		1.00	0.09308334	96.8	%	75-125	08/28/2003	1658
PSD	220426-6	M346B	1.12085039	1.06140473	1.00	0.09308334	102.8	%	75-125	08/28/2003	1702
							5.4	R	20		
CCV		M0363	1.02928125		1.00		102.9	%	90-110	08/28/2003	1714
CCB			0.00369292							08/28/2003	1722
CCV		M0363	1.01636933		1.00		101.6	%	90-110	08/28/2003	173
CCB			0.00493540							08/28/2003	17

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220426 Report Date.: 09/04/2003

CUSTOMER: Entact, Inc. PROJECT: RSROU5 3D959 ATTN: Jenny Elste

Test Method.....: SW-846 6010B Batch.....: 84210 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0364	1.98009168		2.00		99.0	%	90-110	08/27/2003	1121
ICV		M0346	0.97912334		1.00		97.9	%	90-110	08/27/2003	1128
ICV		M0356	0.95932104		1.00		95.9	%	90-110	08/27/2003	1136
LSC		M0363	0.00531792		1.00					08/27/2003	1144
ICB			-0.0000396							08/27/2003	1147
CCV		M0363	1.01647211		1.00		101.6	%	90-110	08/27/2003	1216
CCB			-0.0017271							08/27/2003	1223
MB		3050	0.00344797							08/27/2003	1227
LCS		M347	0.50644032		0.500		101.3	%	85-110	08/27/2003	1231
MS	220426-6	M347	0.66747480		0.500	0.15826123	101.8	%	75-125	08/27/2003	1309
CCV		M0363	0.99864862		1.00		99.9	%	90-110	08/27/2003	1313
CCB			0.00211596							08/27/2003	1320
MSD	220426-6	M347	0.65316497	0.66747480	0.500	0.15826123	99.0	%	75-125	08/27/2003	1324
							2.2	R	20		
PDS	220426-6	M346B	1.13151277		1.00	0.15826123	97.3	%	75-125	08/27/2003	1328
PDS	220426-6	M346B	1.13005292	1.13151277	1.00	0.15826123	97.2	%	75-125	08/27/2003	1332
							0.1	R	20		
MS	220426-7	M347	0.65728603		0.500	0.16288768	98.9	%	75-125	08/27/2003	1344
MSD	220426-7	M347	0.72444389	0.65728603	0.500	0.16288768	112.3	%	75-125	08/27/2003	1348
							9.7	R	20		
CCV		M0363	0.99384201		1.00		99.4	%	90-110	08/27/2003	1404
CCB			0.00088927							08/27/2003	1411
MB		3050	0.00571186							08/27/2003	1415
LCS		M347	0.48817363		0.500		97.6	%	85-110	08/27/2003	1419
MS	220387-1	M347	0.54127902		0.500	0.06993770	94.3	%	75-125	08/27/2003	1427
MSD	220387-4	M347	0.53656148	0.54127902	0.500	0.06993770	93.3	%	75-125	08/27/2003	1430
							0.9	R	20		
CCV		M0363	0.95434231		1.00		95.4	%	90-110	08/27/2003	1454
CCB			0.00210977							08/27/2003	1502
CCV		M0363	0.94582448		1.00		94.6	%	90-110	08/27/2003	1536
CCB			-0.0027894							08/27/2003	1544
CCV		M0363	0.96157978		1.00		96.2	%	90-110	08/27/2003	1610
CCB			0.00558227							08/27/2003	1617

Test Method.....: SW-846 6010B Batch.....: 84210 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0364	1.97298512		2.00		98.6	%	90-110	08/27/2003	1121
ICV		M0346	1.00726304		1.00		100.7	%	90-110	08/27/2003	1128
ICV		M0356	0.97782983		1.00		97.8	%	90-110	08/27/2003	1136
LSC		M0363	0.00442371		1.00					08/27/2003	1144
ICB			0.00097073							08/27/2003	1147
CCV		M0363	1.02030973		1.00		102.0	%	90-110	08/27/2003	1216
CCB			0.00024505							08/27/2003	1223
MB		3050	0.00553850							08/27/2003	1227
LCS		M347	0.50757940		0.500		101.5	%	87-112	08/27/2003	1231
		M0363	1.00129010		1.00		100.1	%	90-110	08/27/2003	1313
			0.00106517							08/27/2003	1320
PDS	220426-6	M346B	7.03739410		1.00	6.35790939	67.9	%	75-125	08/27/2003	1328

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 220426 Report Date.: 09/04/2003

CUSTOMER: Entact, Inc. PROJECT: RSR0U5 3D959 ATTN: Jenny Elste

Test Method.....: SW-846 6010B Batch.....: 84210 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
PSD	220426-6	M346B	7.02365490	7.03739410	1.00	6.35790939	66.6	%	75-125	08/27/2003	1332
							0.2	R	20		
CCV		M0363	1.00903089		1.00		100.9	%	90-110	08/27/2003	1404
CCB			-0.0002072							08/27/2003	1411
MB		3050	0.00444458							08/27/2003	1415
LCS		M347	0.49313459		0.500		98.6	%	87-112	08/27/2003	1419
MS	220387-1	M347	0.46930198		0.500	0.03873864	86.1	%	75-125	08/27/2003	1427
MSD	220387-4	M347	0.47511417	0.46930198	0.500	0.03873864	87.3	%	75-125	08/27/2003	1430
							1.2	R	20		
CCV		M0363	0.97720919		1.00		97.7	%	90-110	08/27/2003	1454
CCB			-0.0000450							08/27/2003	1502
CCV		M0363	0.95980697		1.00		96.0	%	90-110	08/27/2003	1536
CCB			-0.0009720							08/27/2003	1544
CCV		M0363	0.97549296		1.00		97.5	%	90-110	08/27/2003	1610
CCB			0.00165041							08/27/2003	1617

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

LABORATORY CHRONICLE

Job Number: 220426 Date: 09/04/2003

CUSTOMER: Entact, Inc. PROJECT: RSR0U5 30959 ATTN: Jenny Elste

Lab ID: 220426-1 Client ID: SV-3-C2-0.25
Date Recvd: 08/26/2003 Sample Date: 08/25/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	84153		08/26/2003	1100	
SW-846 6010B	Metals Analysis (ICAP)	1	84210		08/27/2003	1235	0.5
SM 2540G	Total, Fixed, and Volatile Solids	1	84189		08/26/2003	1122	

Lab ID: 220426-2 Client ID: SV-3-B3-0.25
Date Recvd: 08/26/2003 Sample Date: 08/25/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	84153		08/26/2003	1100	
SW-846 6010B	Metals Analysis (ICAP)	1	84210		08/27/2003	1241	0.5
SM 2540G	Total, Fixed, and Volatile Solids	1	84189		08/26/2003	1123	

Lab ID: 220426-3 Client ID: SV-3-P8-0.25
Date Recvd: 08/26/2003 Sample Date: 08/25/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	84153		08/26/2003	1100	
SW-846 6010B	Metals Analysis (ICAP)	1	84210		08/27/2003	1247	0.5
SM 2540G	Total, Fixed, and Volatile Solids	1	84189		08/26/2003	1125	

Lab ID: 220426-4 Client ID: SV-2-A10-0.25
Date Recvd: 08/26/2003 Sample Date: 08/25/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	84153		08/26/2003	1100	
SW-846 6010B	Metals Analysis (ICAP)	1	84210		08/27/2003	1253	0.5
SW-846 6010B	Metals Analysis (ICAP)	1	84269		08/28/2003	1642	0.5
SM 2540G	Total, Fixed, and Volatile Solids	1	84189		08/26/2003	1127	

Lab ID: 220426-5 Client ID: SV-2-A10X-0.25
Date Recvd: 08/26/2003 Sample Date: 08/25/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	84153		08/26/2003	1100	
SW-846 6010B	Metals Analysis (ICAP)	1	84210		08/27/2003	1257	0.5
SW-846 6010B	Metals Analysis (ICAP)	1	84269		08/28/2003	1646	0.5
SM 2540G	Total, Fixed, and Volatile Solids	1	84189		08/26/2003	1128	

Lab ID: 220426-6 Client ID: MS-A10
Date Recvd: 08/26/2003 Sample Date: 08/25/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	84153		08/26/2003	1100	
SW-846 6010B	Metals Analysis (ICAP)	1	84210		08/27/2003	1301	0.5
SW-846 6010B	Metals Analysis (ICAP)	1	84269		08/28/2003	1650	0.5
SM 2540G	Total, Fixed, and Volatile Solids	1	84189		08/26/2003	1130	

Lab ID: 220426-7 Client ID: MSD-A10X
Date Recvd: 08/26/2003 Sample Date: 08/25/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	84153		08/26/2003	1100	
SW-846 6010B	Metals Analysis (ICAP)	1	84210		08/27/2003	1336	0.5
SW-846 6010B	Metals Analysis (ICAP)	1	84269		08/28/2003	1706	0.5
SM 2540G	Total, Fixed, and Volatile Solids	1	84189		08/26/2003	1135	

Lab ID: 220426-8 Client ID: SV-2-E11-1.0
Date Recvd: 08/26/2003 Sample Date: 08/25/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	84153		08/26/2003	1100	
SW-846 6010B	Metals Analysis (ICAP)	1	84210		08/27/2003	1352	0.5
SW-846 6010B	Metals Analysis (ICAP)	1	84269		08/28/2003	1726	0.5
SM 2540G	Total, Fixed, and Volatile Solids	1	84189		08/26/2003	1140	

Lab ID: 220426-9 Client ID: SV-2-E12-1.0
Date Recvd: 08/26/2003 Sample Date: 08/25/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	84153		08/26/2003	1100	
SW-846 6010B	Metals Analysis (ICAP)	1	84210		08/27/2003	1356	0.5

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SEVERN TRENT STL

LABORATORY CHRONICLE

Job Number: 220426 Date: 09/04/2003

CUSTOMER: Entact, Inc. PROJECT: RSROU5 30959 ATTN: Jenny Elste

Lab ID: 220426-9 Client ID: SV-2-E12-1.0 Date Recvd: 08/26/2003 Sample Date: 08/25/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
SW-846 6010B	Metals Analysis (ICAP)	1	84269		08/28/2003	1730	0.5
SM 2540G	Total, Fixed, and Volatile Solids	1	84189		08/26/2003	1141	

Lab ID: 220426-10 Client ID: SV-2-B26-1.0 Date Recvd: 08/26/2003 Sample Date: 08/25/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	84153		08/26/2003	1100	
SW-846 6010B	Metals Analysis (ICAP)	1	84210		08/27/2003	1400	0.5
SW-846 6010B	Metals Analysis (ICAP)	1	84269		08/28/2003	1734	0.5
SM 2540G	Total, Fixed, and Volatile Solids	1	84189		08/26/2003	1143	

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SEVERN TRENT STL

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 09/04/2003

(1) EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983
(2) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, September 1986, and Updates I, II, IIA, IIB, and III
(3) Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
(4) Methods of Organic Chemical Analysis of Municipal and Industrial Wastewater, Federal Register, Vol. 49, No. 209, October 1984 and 40 CFR Part 136 amendments
(5) EPA 600/2-78-054, Field and Laboratory Methods Applicable to Overburdens and Minesoils
(6) Methods of Soil Analysis, American Society of Agronomy, Agronomy No. 9, 1965
(7) ASTM, Section 11 Water and Environmental Technology, Volume 11.01 Water (1), 1991
(8) American Society for Testing and Materials, Petroleum Products, Lubricants, and Fossil Fuels, Section 5, Volumes 05.01 - 05.05
(9) Hach Handbook of Water Analysis, 1979

Comments:
Data in the QC report may differ from final results due to digestion and/or dilution of sample into analytical ranges. The "Time Analyzed" may not be the actual time of analysis. The "Date Analyzed" is the actual date of analysis. Sludge samples are reported on a wet weight basis (i.e., not corrected for percent moisture) unless otherwise indicated.

Quality Control acceptance criteria are based either on limits specified in the referenced method or on actual laboratory performance.

All data is reported on sample "as received" unless noted.

Sample IDs with a "-00" at the end indicate a blank spike or blank spike duplicate associated with the numbered sample.

SAMPLE RESULT IDENTIFICATION

ND	= Not detected at a value greater than the reporting limit
TNTC	= Too numerous to count

BLANK QC SAMPLE IDENTIFICATION

MB	Method Blank
ICB	Initial Calibration Blank
CCB	Continuing Calibration Blank

SPIKE QC SAMPLE IDENTIFICATION

MS	Method (Matrix) Spike
MSD	Method (Matrix) Spike Duplicate
PDS	Post Digestion/Distillation Spike
SB	Spiked Blank
SBD	Spiked Blank Duplicate

REFERENCE STANDARD QC SAMPLE IDENTIFICATION

LCS	Laboratory Control Standard
RS	Reference Standard
ICV	Initial Calibration Verification Standard
CCV	Continuing Calibration Verification Standard
ISA/ISB	ICP Interference Check Sample
DSC	Distilled Standard Check

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 09/04/2003

DUPLICATE QC SAMPLE IDENTIFICATION

MD	Method (Matrix) Duplicate
ED	Extraction Duplicate
DD	Digestion Duplicate
PDD	Post Digestion Duplicate
PSD	Post Digestion/Distillation Spike Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "technician" using the following codes:

SUBCONTRACT LABORATORIES

Severn Trent Laboratories:

Los Angeles, CA	*la	Houston, TX	*he
Aurora, CO	*au	North Canton, OH	*nc
Tampa, FL	*ta	Valparaiso, IN	*vp
Sacramento, CA	*sa	Chicago, IL	*ch
Pensacola, FL	*pe	Tallahassee, FL	*tl

Other:

Client provided data	*cp	Non-STL Subcontract Lab	*xx

EXPLANATION OF DATA FLAGS

B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.
D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.
E - Indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.
I - Used to indicate matrix interference.
X - Indicates that a surrogate recovery is outside the specified quality control limits.
Y - Used to identify a spike or spike duplicate recovery is outside the specified quality control limits.
* - Indicates a relative percent difference for a duplicate analysis is outside the specified quality control limits.
^ - Used to indicate that a standard is outside specified quality control limits.

EXPLANATION OF DATA QUALIFIERS

B - Indicates that a value for an inorganic analysis is an estimate. It is used when a compound is determined to be present but at a concentration less than the quantitation limit of the method.
J - Indicates that a value for an organic analysis is an estimate. It is used when a compound is determined to be present based on chromatographic pattern or mass spectral data, but at a concentration less than the quantitation limit of the method. This flag is also used when estimating the concentration of a tentatively identified compound.
U - Indicates that a value is less than the MDL or was not detected.

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SEVERN TRENT SERVICES

STL Corpus Christi
1733 N. Padre Island Drive
Corpus Christi, TX 78408

No. 006384

CHAIN OF CUSTODY RECORD

Custody seal intact 1.3°C

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: ENTACT	PROJECT NAME/NUMBER: RSROUS/30959
SEND REPORT TO: JENNY ELSTE	**BILLING INFORMATION**
ADDRESS: 4040 W. ROYAL LN #136	BILL TO: SAME
IRVING, TX 75063	ADDRESS:
PHONE: 972-580-1323	PHONE:
FAX: 972-550-7464	FAX: PO NO.:

LAB JOB NO. 220426

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: TOTAL Pb, As	% Moisture	MATRIX SPIKE	MATRIX SPIKE DUP	REMARKS/PRECAUTIONS
1	SV-3-C2-0.25	8-25-03	9:45	SOIL	4oz			X	X			> Report "As Received"
2	SV-3-B3-0.25		9:50									
3	SV-3-P8-0.25		9:55									> Level III Data
4	SV-2-A10-0.25		10:25									
5	SV-2-A10X-0.25		10:27									> RL's Pb <5
6	MS-A10		10:28							X		As <1
7	MSD-A10X		10:29								X	
8	SV-2-E11-1.0		10:50									> 24 HR TAT
9	SV-2-E12-1.0		10:57									
10	SV-2-B26-1.0		14:25									

SAMPLER: KIRK GATES | SHIPMENT METHOD: FedEx | AIRBILL NO.: 841431104114

REQUIRED TURNAROUND* ☐ SAME DAY ☒ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☐ OTHER _____

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Kirk Gates	8/25/03	SIGNATURE: Lisa R. Monroe	8/25/03	SIGNATURE: FedEx	
PRINTED NAME/COMPANY: KIRK GATES / ENTACT	TIME 1600	PRINTED NAME/COMPANY: LISA R MONROE / STL	TIME 1700	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	**DATE**	**2. RECEIVED BY:**	**DATE**	**3. RECEIVED BY:**	**DATE**
SIGNATURE: Lisa R. Monroe	8/25/03	SIGNATURE: FedEx		SIGNATURE:	8/26/03
PRINTED NAME/COMPANY: LISA R. MONROE / STL	TIME 1600	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: STL-C	TIME 0915

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

STL Corpus Christi is a part of Severn Trent Laboratories, Inc.

STL-8222-CC (0700)

rpjsckl | Job Sample Receipt Checklist Report | V2

Job Number.: 220426 Location.: 57203 Check List Number.: 1 Description.:
Customer Job ID.....: Job Check List Date.: Date of the Report..: 08/26/2003
Project Number.: 98000203 Project Description.: Project-EAB Project Manager.....: eab
Customer.....: Entact, Inc. Contact.: Jenny Elste

Questions ?	(Y/N)	Comments
How did samples arrive?.....	Y	FED EX DELIVERED
Chain-of-Custody Present?.....	Y	
Custody seal on shipping container?.....	Y	
...If "yes", custody seal intact?.....	Y	
Custody seals on sample containers?.....	N	
...If "yes", custody seal intact?.....		
Samples chilled?.....	Y	
Temperature blank in cooler?.....	Y	
Temp of cooler acceptable? (0.05 to 6.00 deg C)	Y	1.3 DEGREES C
Samples received intact (good condition)?.....	Y	
Volatile samples acceptable? (no headspace).....		N/A
Correct containers used?.....	Y	
Adequate sample volume provided?.....	Y	
Samples preserved correctly?.....	Y	
Samples received within holding-time?.....	Y	
Agreement between COC and sample labels?.....	Y	
Additional.....		
Comments.....		
Sample Custodian Signature.....		8/26/03

SEVERN TRENT STL

ANALYTICAL REPORT

JOB NUMBER: 221153

Prepared For:

Entact, Inc.
4040 W. Royal Lane
Suite 136
Irving, TX 75063

Attention: Jenny Elste

Date: 10/30/2003

Emily A. Bauer
Signature

10/30/03
Date

Name: Emily A. Bauer

Title: Project Manager

E-Mail: ebauer@stl-inc.com

Severn Trent Laboratories
1733 N. Padre Island Drive
Corpus Christi, TX 78408

PHONE: 361/289-2673
FAX..: 361/289-2471

TOTAL # OF PAGES 10

SEVERN TRENT STL

SAMPLE INFORMATION
Date: 10/30/2003

Job Number.: 221153
Customer...: Entact, Inc.
Attn.....: Jenny Elste

Project Number.....: 98000019
Customer Project ID....: 3D-959
Project Description....: Entact - Client-Specific List

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
221153-1	001 GRID VERIFICATION SV-S2-C13	Soil	10/07/2003	08:10	10/08/2003	09:55

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SEVERN TRENT STL

LABORATORY TEST RESULTS

Job Number: 221153 Date: 10/30/2003

CUSTOMER: Entact, Inc. PROJECT: 3D-959 ATTN: Jenny Elste

Customer Sample ID: 001 GRID VERIFICATION SV-S2-C13
Date Sampled.....: 10/07/2003
Time Sampled.....: 08:10
Sample Matrix.....: Soil

Laboratory Sample ID: 221153-1
Date Received.....: 10/08/2003
Time Received.....: 09:55

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SM 2540G	% Solids (@ 104 deg. C)	84.0	0.1	%	10/08/03	hmz
SM 2540G	Moisture (@ 104 deg. C)	16.0	0.1	%	10/08/03	hmz
SW-846 6010B	Arsenic (As), Solid	4	1	mg/Kg	10/09/03	jem
SW-846 6010B	Lead (Pb), Solid	8	1	mg/Kg	10/09/03	jem
SW-846 3050B	Acid Dig., 2X Conc., Solids & Sludges	Complete			10/08/03	ac

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 221153 Report Date.: 10/30/2003

CUSTOMER: Entact, Inc. PROJECT: 3D-959 ATTN: Jenny Elste

Test Method.....: SM 2540G Batch.....: 85750 Analyst...: hmz
Method Description.: Total, Fixed, and Volatile Solids Units.....: % Test Code.: %SOLID
Parameter.....: % Solids (@ 104 deg. C)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MB		EX30731B	100.0							10/08/2003	1425
MD	221121-1		84.6			84.5	0.1	R	20	10/08/2003	1431
MD	221153-1		84.2			84.0	0.2	R	20	10/08/2003	1445

Test Method.....: SM 2540G Batch.....: 85750 Analyst...: hmz
Method Description.: Total, Fixed, and Volatile Solids Units.....: % Test Code.: MOIST
Parameter.....: Moisture (@ 104 deg. C)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
MB		EX30731B	0.0							10/08/2003	1425
MD	221121-1		15.4			15.5	0.6	R	20	10/08/2003	1431
MD	221153-1		15.8			16.0	1.3	R	20	10/08/2003	1445

Test Method.....: SW-846 6010B Batch.....: 85783 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: AS
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0364	2.03102440		2.00		101.6	%	90-110	10/09/2003	1139
ICV		M0356	0.95712290		1.00		95.7	%	90-110	10/09/2003	1154
LSC		M0363	-0.0025629		1.00					10/09/2003	1202
ICB			0.00463050							10/09/2003	1206
ICV		M0356	0.94417628		1.00		94.4	%	90-110	10/09/2003	1235
CCV		M0363	0.97681895		1.00		97.7	%	90-110	10/09/2003	1244
CCB			0.00370907							10/09/2003	1251
MB		3050	-0.0017784							10/09/2003	1324
LCS		M347	0.47378518		0.500		94.8	%	85-110	10/09/2003	1328
PDS	221153-1	M346B	0.93898227		1.00	0.08037986	85.9	%	75-125	10/09/2003	1348
PSD	221153-1	M346B	0.98542520	0.93898227	1.00	0.08037986	90.5	%	75-125	10/09/2003	1353
							4.8	R	20		
MB		3010	-0.0003328							10/09/2003	1356
LCS		M347	0.48197559		0.500		96.4	%	85-110	10/09/2003	1400
CCV		M0363	0.96982768		1.00		97.0	%	90-110	10/09/2003	1404
CCB			-0.0089113							10/09/2003	1412
MS	221105-5	M347	0.48917564		0.500	-0.0154996	100.9	%	75-125	10/09/2003	1451
CCV		M0363	0.98179420		1.00		98.2	%	90-110	10/09/2003	1500
CCB			-0.0001139							10/09/2003	1508
MSD	221105-5	M347	0.50800476	0.48917564	0.500	-0.0154996	104.7	%	75-125	10/09/2003	1511
							3.8	R	20		
CCV		M0363	1.00635414		1.00		100.6	%	90-110	10/09/2003	1608
CCB			-0.0007937							10/09/2003	1616
CCV		M0363	0.91961611		1.00		92.0	%	90-110	10/09/2003	1659
CCB			-0.0014041							10/09/2003	1707
CCV		M0363	0.96867770		1.00		96.9	%	90-110	10/09/2003	1746
CCB			0.00276693							10/09/2003	1754

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

QUALITY CONTROL RESULTS

Job Number.: 221153 Report Date.: 10/30/2003

CUSTOMER: Entact, Inc. PROJECT: 3D-959 ATTN: Jenny Elste

Test Method.....: SW-846 6010B Batch.....: 85783 Analyst...: jem
Method Description.: Metals Analysis (ICAP) Units.....: mg/L Test Code.: PB
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date	Time
RS		M0364	2.00422246		2.00		100.2	%	90-110	10/09/2003	1139
ICV		M0356	1.00582533		1.00		100.6	%	90-110	10/09/2003	1154
LSC		M0363	0.00376481		1.00					10/09/2003	1202
ICB			0.00048627							10/09/2003	1206
ICV		M0356	0.98023861		1.00		98.0	%	90-110	10/09/2003	1235
CCV		M0363	1.00813026		1.00		100.8	%	90-110	10/09/2003	1244
CCB			0.00002616							10/09/2003	1251
MB		3050	-0.0036946							10/09/2003	1324
LCS		M347	0.47394164		0.500		94.8	%	87-112	10/09/2003	1328
PDS	221153-1	M346B	0.93966249		1.00	0.14773575	79.2	%	75-125	10/09/2003	1348
PSD	221153-1	M346B	0.98071859	0.93966249	1.00	0.14773575	83.3	%	75-125	10/09/2003	1353
							4.3	R	20		
MB		3010	-0.0008040							10/09/2003	1356
LCS		M347	0.47711011		0.500		95.4	%	87-112	10/09/2003	1400
CCV		M0363	0.96546024		1.00		96.5	%	90-110	10/09/2003	1404
CCB			-0.0014859							10/09/2003	1412
M	21105-5	M347	0.44672375		0.500	0.00132269	89.1	%	75-125	10/09/2003	1451
C		M0363	1.00478462		1.00		100.5	%	90-110	10/09/2003	1500
CCB			0.00349710							10/09/2003	1508
MSD	221105-5	M347	0.46147777	0.44672375	0.500	0.00132269	92.0	%	75-125	10/09/2003	1511
							3.2	R	20		
CCV		M0363	1.01719170		1.00		101.7	%	90-110	10/09/2003	1608
CCB			0.00056278							10/09/2003	1616
CCV		M0363	0.97682863		1.00		97.7	%	90-110	10/09/2003	1659
CCB			-0.0030178							10/09/2003	1707
CCV		M0363	1.01817146		1.00		101.8	%	90-110	10/09/2003	1746
CCB			-0.0053954							10/09/2003	1754

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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SEVERN TRENT STL

LABORATORY CHRONICLE

Job Number: 221153 Date: 10/30/2003

CUSTOMER: Entact, Inc. PROJECT: 3D-959 ATTN: Jenny Elste

Lab ID: 221153-1 Client ID: 001 GRID VERIFICATION SV-S2-C1 Date Recvd: 10/08/2003 Sample Date: 10/07/2003

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
SW-846 3050B	Acid Digestion, Solids and Sludges	1	85711		10/08/2003 1600	
SW-846 6010B	Metals Analysis (ICAP)	1	85783		10/09/2003 1332	
SM 2540G	Total, Fixed, and Volatile Solids	1	85750		10/08/2003 1443	

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SEVERN TRENT STL

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 10/30/2003

(1) EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983
(2) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, September 1986, and Updates I, II, IIA, IIB, and III
(3) Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
(4) Methods of Organic Chemical Analysis of Municipal and Industrial Wastewater, Federal Register, Vol. 49, No. 209, October 1984 and 40 CFR Part 136 amendments
(5) EPA 600/2-78-054, Field and Laboratory Methods Applicable to Overburdens and Minesoils
(6) Methods of Soil Analysis, American Society of Agronomy, Agronomy No. 9, 1965
(7) ASTM, Section 11 Water and Environmental Technology, Volume 11.01 Water (1), 1991
(8) American Society for Testing and Materials, Petroleum Products, Lubricants, and Fossil Fuels, Section 5, Volumes 05.01 - 05.05
(9) Hach Handbook of Water Analysis, 1979

Comments:
Data in the QC report may differ from final results due to digestion and/or dilution of sample into analytical ranges. The "Time Analyzed" may not be the actual time of analysis. The "Date Analyzed" is the actual date of analysis. Sludge samples are reported on a wet weight basis (i.e., not corrected for percent moisture) unless otherwise indicated.

Quality Control acceptance criteria are based either on limits specified in the referenced method or on actual laboratory performance.

All data is reported on sample "as received" unless noted.

Sample IDs with a "-00" at the end indicate a blank spike or blank spike duplicate associated with the numbered sample.

SAMPLE RESULT IDENTIFICATION

ND	= Not detected at a value greater than the reporting limit
TNTC	= Too numerous to count

BLANK QC SAMPLE IDENTIFICATION

MB	Method Blank
ICB	Initial Calibration Blank
CCB	Continuing Calibration Blank

SPIKE QC SAMPLE IDENTIFICATION

MS	Method (Matrix) Spike
MSD	Method (Matrix) Spike Duplicate
PDS	Post Digestion/Distillation Spike
SB	Spiked Blank
SBD	Spiked Blank Duplicate

REFERENCE STANDARD QC SAMPLE IDENTIFICATION

LCS	Laboratory Control Standard
RS	Reference Standard
ICV	Initial Calibration Verification Standard
CCV	Continuing Calibration Verification Standard
ISA/ISB	ICP Interference Check Sample
DSC	Distilled Standard Check

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QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 10/30/2003

DUPLICATE QC SAMPLE IDENTIFICATION

MD	Method (Matrix) Duplicate
ED	Extraction Duplicate
DD	Digestion Duplicate
PDD	Post Digestion Duplicate
PSD	Post Digestion/Distillation Spike Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "technician" using the following codes:

SUBCONTRACT LABORATORIES

Severn Trent Laboratories:

Los Angeles, CA	*la	Houston, TX	*he
Aurora, CO	*au	North Canton, OH	*nc
Tampa, FL	*ta	Valparaiso, IN	*vp
Sacramento, CA	*sa	Chicago, IL	*ch
Pensacola, FL	*pe	Tallahassee, FL	*tl

Other:

Client provided data	*cp	Non-STL Subcontract Lab	*xx

EXPLANATION OF DATA FLAGS

B - This flag is used to indicate that an analyte is present in the method blank as well as in the sample. It indicates that the client should consider this when evaluating the results.
D - This flag indicates that surrogates were diluted out of calibration range and cannot be quantified.
E - Indicates that a sample result is an estimate because the concentration exceeded the calibration range of the instrument.
I - Used to indicate matrix interference.
X - Indicates that a surrogate recovery is outside the specified quality control limits.
Y - Used to identify a spike or spike duplicate recovery is outside the specified quality control limits.
* - Indicates a relative percent difference for a duplicate analysis is outside the specified quality control limits.
^ - Used to indicate that a standard is outside specified quality control limits.

EXPLANATION OF DATA QUALIFIERS

B - Indicates that a value for an inorganic analysis is an estimate. It is used when a compound is determined to be present but at a concentration less than the quantitation limit of the method.
J - Indicates that a value for an organic analysis is an estimate. It is used when a compound is determined to be present based on chromatographic pattern or mass spectral data, but at a concentration less than the quantitation limit of the method. This flag is also used when estimating the concentration of a tentatively identified compound.
U - Indicates that a value is less than the MDL or was not detected.

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SEVERN TRENT SERVICES

STL Corpus Christi
1733 N. Padre Island Drive
Corpus Christi, TX 78408

No. 006404

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: ENTACT	PROJECT NAME/NUMBER: 3D-959
SEND REPORT TO: Jenny Elstie	**BILLING INFORMATION**
ADDRESS: 4040 W. Royal Ln	BILL TO: SAME
Irving Tx	ADDRESS:
PHONE: 972-580-1323	PHONE:
FAX: 972-550-7464	FAX: PO NO.:

ice melted 14.6°C metals only custody seal intact

LAB JOB NO. 221153

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	ANALYSIS/METHOD REQUEST: Total Pb As								REMARKS/PRECAUTIONS
001	Grid Verification SV-S2-C13	10/7/03	8:10	S	4/02			X								Surface

SAMPLER: Pat McDonald SHIPMENT METHOD: FedEx AIRBILL NO.: 841424016889

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☒ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☐ OTHER

1. RELINQUISHED BY: Pat McDonald	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: [signature]	10/7/03	SIGNATURE: Lisa R. Monroe	10/7/03	SIGNATURE: FedEx	
PRINTED NAME/COMPANY: ENTACT	TIME 2:44	PRINTED NAME/COMPANY: LISA R. MONROE / STL	TIME 1630	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	**DATE**	**2. RECEIVED BY:**	**DATE**	**3. RECEIVED BY:**	**DATE**
SIGNATURE: Lisa R. Monroe	10/7/03	SIGNATURE: FedEx		SIGNATURE: [signature]	10/8/03
PRINTED NAME/COMPANY: LISA R. MONROE / STL	TIME 2:44	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: STL-CC	TIME 0955

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

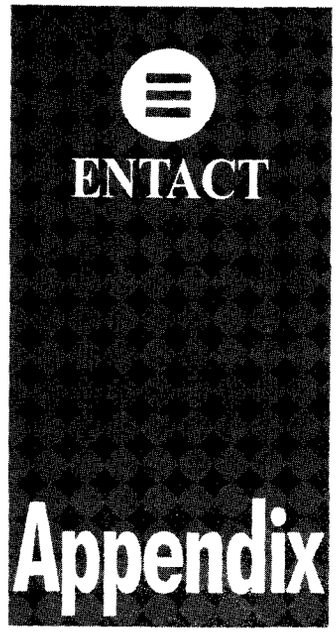
STL Corpus Christi is a part of Severn Trent Laboratories, Inc.

STL-8222-CC (0700)

rpjsckl | Job Sample Receipt Checklist Report | V2

Job Number.: 221153 Location.: 57203 Check List Number.: 1 Description.:
Customer Job ID.....: Job Check List Date.: Date of the Report..: 10/08/2003
Project Number.: 98000019 Project Description.: Entact - Client-Specific List Project Manager.....: eab
Customer.....: Entact, Inc. Contact.: Jenny Elste

Questions ?	(Y/N)	Comments
How did samples arrive?	Y	FED EX DELIVERED
Chain-of-Custody Present?	Y	
Custody seal on shipping container?	Y	
...If "yes", custody seal intact?	Y	
Custody seals on sample containers?	N	
...If "yes", custody seal intact?		
Samples chilled?	Y	
Temperature blank in cooler?	Y	ICE WAS MELTED
Temp of cooler acceptable? (0.05 to 6.00 deg C)	Y	14.6 DEGREES C, METALS ONLY
Samples received intact (good condition)?	Y	
Volatile samples acceptable? (no headspace)		N/A
Correct containers used?	Y	
Adequate sample volume provided?	Y	
Samples preserved correctly?	Y	
Samples received within holding-time?	Y	
Agreement between COC and sample labels?	Y	
Additional		
Comments		
Sample Custodian Signature		10-8-03


ENTACT
Appendix
G

Appendix G

Waste and Scrap Tire Manifests

86323

Waste Management of Texas, Inc.
P.O. Box 719
Lewisville, TX 75067
(972) 316-2296 / FAX (972) 316-2298

NON-HAZARDOUS MANIFEST

GENERATOR: RSR Corporation ID # XXX04
ADDRESS: 2401 Westmoreland Rd. EPA ID# TXP490329212
CITY/ST: Dallas, TX 75211-
PHONE: (214) 631-7044

Mail manifest to:
ENTACT
4040 W. Royal Lane. #136
Irving, TX 75063
Attn: Pat McDonald

Description of Waste Materials	Approval Number	Quantity	Units
Non-contaminated trees and brush F8LD4882	SL25157	25	CY

I hereby certify that the above described materials are not hazardous wastes as defined by 40 CFR Part 261 and does not contain free liquids as defined by 40 CFR Part 260.10 or any applicable state law. Have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Patrick J. McDonald / ENTACT — Generator Authorized Agent Name (Print)
Signature
7/31/03 — Delivery Date

TRANSPORTER

TRANSPORTER NAME: Tri Dal Trucking
ADDRESS: 540 Commerce
CITY/ST: South Lake, Tx. 76092
TRANSPORTER: 0000 23160C

DRIVER NAME(Print): MARTIN MONTOYA R.
TRUCK NUMBER: 420 (2A2-100TX)
PHONE#: 817-481-2886

I hereby acknowledge receipt of the above described materials were received from the generator listed above and delivered to the disposal facility listed below without incident.

Driver Signature — 7/31/03 Shipment Date
Driver Signature — / / Delivery Date

DISPOSAL FACILITY

SITE NAME: Skyline Recycling and Disposal Facility PHONE NUMBER: 972-842-5710
ADDRESS: 1201 N. Central Ave., Ferris, Tx. 75125 PERMIT # 42C

I hereby acknowledge receipt of the above described materials.

Name of Authorized Agent (Print)
Signature
7/31/03 — Receipt Date

*D-Drum C-Carton B-Bag P-Pounds Y-Yards O-Other

White-Original Canary-Disposer Retain Pink-Transporter Retain Gold-Generator Retain

86324

Waste Management of Texas, Inc.
P.O. Box 719
Lewisville, TX 75067
(972) 316-2296 / FAX (972) 316-2298

NON-HAZARDOUS MANIFEST

GENERATOR: RSR Corporation ID # XXX04
ADDRESS: 2401 Westmoreland Rd. EPA ID# TXP490329212
CITY/ST: Dallas, TX 75211-
PHONE: (214) 631-7044

Mail manifest to:
ENTACT
4040 W. Royal Lane, #136
Irving, TX 75063
Attn: Pat McDonald

Description of Waste Materials	Approval Number	Quantity	Units
Non-contaminated trees and brush F8LD4882	SL25157	25	CY

I hereby certify that the above described materials are not hazardous wastes as defined by 40 CFR Part 261 and does not contain free liquids as defined by 40 CFR Part 260.10 or any applicable state law. Have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Patrick J. McDonald / ENTACT — Generator Authorized Agent Name (Print)
Signature
7/31/03 — Delivery Date

TRANSPORTER

TRANSPORTER NAME: Tri Dal Trucking
ADDRESS: 540 Commerci
CITY/ST: Southlake, TX 76092
TRANSPORTER: 00002316OC

X DRIVER NAME(Print): DAVID FRENCH
X TRUCK NUMBER: 360 (2AY-994 TRJ)
PHONE#: 817-481-2886

I hereby acknowledge receipt of the above described materials were received from the generator listed above and delivered to the disposal facility listed below without incident.

X _____ 7/31/03 — Driver Signature / Shipment Date
_____ / / — Driver Signature / Delivery Date

DISPOSAL FACILITY

SITE NAME: Skyline Recycling and Disposal Facility PHONE NUMBER: 972-842-5710
ADDRESS: 1201 N. Central Ave., Ferris, Tx. 75125 PERMIT # 42C

I hereby acknowledge receipt of the above described materials.

_____ — Name of Authorized Agent (Print)
_____ — Signature
7/30/03 — Receipt Date

*D-Drum	C-Carton	B-Bag	P-Pounds	Y-Yards	O-Other

White-Original Canary-Disposer Retain Pink-Transporter Retain Gold-Generator Retain

86325

Waste Management of Texas, Inc.
P.O. Box 719
Lewisville, TX 75067
(972) 316-2296 / FAX (972) 316-2298

NON-HAZARDOUS MANIFEST

GENERATOR:	RSR Corporation	ID # XXX04	Mail manifest to:	ENTACT
ADDRESS:	2401 Westmoreland Rd.	EPA ID# TXP490329212		4040 W. Royal Lane, #136
CITY/ST:	Dallas, TX 75211-			Irving, TX 75063
PHONE:	(214) 631-7044		Attn:	Pat McDonald

Description of Waste Materials	Approval Number	Quantity	Units
Non-contaminated trees and brush F8LD4882	SL25157	25	CY

I hereby certify that the above described materials are not hazardous wastes as defined by 40 CFR Part 261 and does not contain free liquids as defined by 40 CFR Part 260.10 or any applicable state law. Have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Patrick J. McDonald / ENTACT — Generator Authorized Agent Name (Print)
Signature
7/31/03 — Delivery Date

TRANSPORTER

TRANSPORTER NAME: Tri Dal Trucking
ADDRESS: 540 Commerce
CITY/ST: Southlake, Tx 76092
TRANSPORTER: 00002316OC

X DRIVER NAME(Print): [illegible]
X TRUCK NUMBER: L20 (2AZ-100TX)
PHONE#: 817-481-2886

I hereby acknowledge receipt of the above described materials were received from the generator listed above and delivered to the disposal facility listed below without incident.

X [signature] 7/31/03
Driver Signature — Shipment Date

Driver Signature — Delivery Date

DISPOSAL FACILITY

SITE NAME: Skyline Recycling and Disposal Facility
ADDRESS: 1201 N. Central Ave., Ferris, Tx. 75125
PHONE NUMBER: 972-842-5710
PERMIT # 42C

I hereby acknowledge receipt of the above described materials.

[signature]
Name of Authorized Agent (Print)

Signature — Receipt Date

*D-Drum	C-Carton	B-Bag	P-Pounds	Y-Yards	O-Other

White-Original — Canary-Disposer Retain — Pink-Transporter Retain — Gold-Generator Retain

86328

Waste Management of Texas, Inc.
P.O. Box 719
Lewisville, TX 75067
(972) 316-2296 / FAX (972) 316-2298

NON-HAZARDOUS MANIFEST

GENERATOR:	RSR Corporation	ID # XXX04	Mail manifest to: ENTACT
ADDRESS:	2401 Westmoreland Rd.	EPA ID# TXP490329212	4040 W. Royal Lane. #136
CITY/ST:	Dallas, TX 75211-		Irving, TX 75063
PHONE:	(214) 631-7044	Attn:	Pat McDonald

Description of Waste Materials	Approval Number	Quantity	Units
Non-contaminated trees and brush F8LD4882	SL25157	25	CY

I hereby certify that the above described materials are not hazardous wastes as defined by 40 CFR Part 261 and does not contain free liquids as defined by 40 CFR Part 260.10 or any applicable state law. Have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Patrick J. McDonald / ENTACT — Generator Authorized Agent Name (Print)
Pat McDonald — Signature
7/30/03 — Delivery Date

TRANSPORTER

TRANSPORTER NAME: Tri Dal Trucking
ADDRESS: 540 Commerce
CITY/ST: Southlake, Tx 76092
X TRANSPORTER: 0000 23160C

X DRIVER NAME(Print): DAVID T FRENCH
X TRUCK NUMBER: 360 (2AY-994 TX)
PHONE#: 817-481-2886

I hereby acknowledge receipt of the above described materials were received from the generator listed above and delivered to the disposal facility listed below without incident.

X [signature] — Driver Signature
7/30/03 — Shipment Date
_____ — Driver Signature
__/__/__ — Delivery Date

DISPOSAL FACILITY

SITE NAME: Skyline Recycling and Disposal Facility
ADDRESS: 1201 N. Central Ave., Ferris, Tx. 75125
PHONE NUMBER: 972-842-5710
PERMIT # 42C

I hereby acknowledge receipt of the above described materials.

WM — Name of Authorized Agent (Print)
DM — Signature
7/31/03 — Receipt Date

*D-Drum	C-Carton	B-Bag	P-Pounds	Y-Yards	O-Other

White-Original | Canary-Disposer Retain | Pink-Transporter Retain | Gold-Generator Retain

86327

Waste Management of Texas, Inc.
P.O. Box 719
Lewisville, TX 75067
(972) 316-2296 / FAX (972) 316-2298

NON-HAZARDOUS MANIFEST

GENERATOR:	RSR Corporation	ID # XXX04	Mail manifest to: ENTACT
ADDRESS:	2401 Westmoreland Rd.	EPA ID# TXP490329212	4040 W. Royal Lane. #136
CITY/ST:	Dallas, TX 75211-		Irving, TX 75063
PHONE:	(214) 631-7044	Attn:	Pat McDonald

Description of Waste Materials	Approval Number	Quantity	Units
Non-contaminated trees and brush F8LD4882	SL25157	25	CY

I hereby certify that the above described materials are not hazardous wastes as defined by 40 CFR Part 261 and does not contain free liquids as defined by 40 CFR Part 260.10 or any applicable state law. Have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Patrick J. McDonald / ENTACT — Generator Authorized Agent Name (Print)

Signature

7/31/03 — Delivery Date

TRANSPORTER

TRANSPORTER NAME: Tri Dal Trucking
ADDRESS: 540 Commerce
CITY/ST: South Lake, TX 76092
TRANSPORTER: 000023160C

X DRIVER NAME(Print): MARTIN KLOUTOVA
X TRUCK NUMBER: 420 (2AZ-100TX)
PHONE#: 817-481-2886

I hereby acknowledge receipt of the above described materials were received from the generator listed above and delivered to the disposal facility listed below without incident.

X _____ 7/31/03 — Driver Signature / Shipment Date

_____ / / — Driver Signature / Delivery Date

DISPOSAL FACILITY

SITE NAME: Skyline Recycling and Disposal Facility
ADDRESS: 1201 N. Central Ave., Ferris, Tx. 75125
PHONE NUMBER: 972-842-5710
PERMIT # 42C

I hereby acknowledge receipt of the above described materials.

_____ — Name of Authorized Agent (Print)

DM — Signature

7/31/03 — Receipt Date

*D-Drum	C-Carton	B-Bag	P-Pounds	Y-Yards	O-Other

White-Original | Canary-Disposer Retain | Pink-Transporter Retain | Gold-Generator Retain

86326

Waste Management of Texas, Inc.
P.O. Box 719
Lewisville, TX 75067
(972) 316-2296 / FAX (972) 316-2298

NON-HAZARDOUS MANIFEST

			Mail manifest to:
GENERATOR:	RSR Corporation	ID # XXX04	ENTACT
ADDRESS:	2401 Westmoreland Rd.	EPA ID# TXP490329212	4040 W. Royal Lane. #136
CITY/ST:	Dallas, TX 75211-		Irving, TX 75063
PHONE:	(214) 631-7044	Attn:	Pat McDonald

Description of Waste Materials	Approval Number	Quantity	Units
Non-contaminated trees and brush F8LD4882	SL25157	25	CY

I hereby certify that the above described materials are not hazardous wastes as defined by 40 CFR Part 261 and does not contain free liquids as defined by 40 CFR Part 260.10 or any applicable state law. Have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Patrick J. McDonald / ENTACT — Generator Authorized Agent Name (Print)
Signature — 7/31/03 Delivery Date

TRANSPORTER

TRANSPORTER NAME: Tri Dal Trucking
ADDRESS: 540 Commerce
CITY/ST: Southlake, Tx 76092
TRANSPORTER: 0000 23160C

X DRIVER NAME(Print): DAVID T FRENCH
X TRUCK NUMBER: 360 (2A4-994TX)
PHONE#: 817-481-2886

I hereby acknowledge receipt of the above described materials were received from the generator listed above and delivered to the disposal facility listed below without incident.

X — 7/31/03 — Driver Signature / Shipment Date
Driver Signature / Delivery Date

DISPOSAL FACILITY

SITE NAME: Skyline Recycling and Disposal Facility PHONE NUMBER: 972-842-5710
ADDRESS: 1201 N. Central Ave., Ferris, Tx. 75125 PERMIT # 42C

I hereby acknowledge receipt of the above described materials.

Name of Authorized Agent (Print) — Signature — Receipt Date 7/31/03

*D-Drum	C-Carton	B-Bag	P-Pounds	Y-Yards	O-Other

White-Original | Canary-Disposer Retain | Pink-Transporter Retain | Gold-Generator Retain

86340

Waste Management of Texas, Inc.
P.O. Box 719
Lewisville, TX 75067
(972) 316-2296 / FAX (972) 316-2298

NON-HAZARDOUS MANIFEST

GENERATOR:	RSR Corporation	ID # XXX04	Mail manifest to: ENTACT
ADDRESS:	2401 Westmoreland Rd.	EPA ID# TXP490329212	4040 W. Royal Lane. #136
CITY/ST:	Dallas, TX 75211-		Irving, TX 75063
PHONE:	(214) 631-7044	Attn:	Pat McDonald

Description of Waste Materials	Approval Number	Quantity	Units
Non-contaminated trees and brush F8LD4882	SL25157	25	CY

I hereby certify that the above described materials are not hazardous wastes as defined by 40 CFR Part 261 and does not contain free liquids as defined by 40 CFR Part 260.10 or any applicable state law. Have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Patrick J. McDonald / ENTACT — Generator Authorized Agent Name (Print)

Pat McDonald — Signature

7/30/03 — Delivery Date

TRANSPORTER

TRANSPORTER NAME: Tri Dal Trucking
ADDRESS: 540 Commerce
CITY/ST: Southlake, Tx 76092
TRANSPORTER: 000023160C

X DRIVER NAME(Print): Martin Montoya
X TRUCK NUMBER: 420 (2A2-100TX)
PHONE#: 817-481-2886

I hereby acknowledge receipt of the above described materials were received from the generator listed above and delivered to the disposal facility listed below without incident.

X Martin — Driver Signature

7/30/03 — Shipment Date

_____ — Driver Signature

___/___/___ — Delivery Date

DISPOSAL FACILITY

SITE NAME: Skyline Recycling and Disposal Facility
ADDRESS: 1201 N. Central Ave., Ferris, Tx. 75125
PHONE NUMBER: 972-842-5710
PERMIT # 42C

I hereby acknowledge receipt of the above described materials.

Name of Authorized Agent (Print)

Signature

7/30/03 — Receipt Date

*D-Drum	C-Carton	B-Bag	P-Pounds	Y-Yards	O-Other

White-Original | Canary-Disposer Retain | Pink-Transporter Retain | Gold-Generator Retain

86339

Waste Management of Texas, Inc.
P.O. Box 719
Lewisville, TX 75067
(972) 316-2296 / FAX (972) 316-2298

NON-HAZARDOUS MANIFEST

GENERATOR: RSR Corporation
ADDRESS: 2401 Westmoreland Rd.
CITY/ST: Dallas, TX 75211-
PHONE: (214) 631-7044

ID # XXX04
EPA ID# TXP490329212

Mail manifest to:
ENTACT
4040 W. Royal Lane. #136
Irving, TX 75063
Attn: Pat McDonald

Description of Waste Materials	Approval Number	Quantity	Units
Non-contaminated trees and brush F8LD4882	SL25157	25	CY

I hereby certify that the above described materials are not hazardous wastes as defined by 40 CFR Part 261 and does not contain free liquids as defined by 40 CFR Part 260.10 or any applicable state law. Have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Patrick J. McDonald / ENTACT — Generator Authorized Agent Name (Print)
Signature
7/30/03 — Delivery Date

TRANSPORTER

TRANSPORTER NAME: Tri Dal Trucking
ADDRESS: 540 Commerce
CITY/ST: Southlake, Tx 76092
TRANSPORTER: 000023160C

X DRIVER NAME(Print): DAVID T FRENCH
X TRUCK NUMBER: 360 (2AY 994 TX)
PHONE#: 817-481-2886

I hereby acknowledge receipt of the above described materials were received from the generator listed above and delivered to the disposal facility listed below without incident.

X _____ 7/30/03 — Driver Signature / Shipment Date
_____ / / — Driver Signature / Delivery Date

DISPOSAL FACILITY

SITE NAME: Skyline Recycling and Disposal Facility
ADDRESS: 1201 N. Central Ave., Ferris, Tx. 75125
PHONE NUMBER: 972-842-5710
PERMIT # 42C

I hereby acknowledge receipt of the above described materials.

_____ — Name of Authorized Agent (Print)
_____ — Signature
7 30 03 — Receipt Date

*D-Drum	C-Carton	B-Bag	P-Pounds	Y-Yards	O-Other

White-Original | Canary-Disposer Retain | Pink-Transporter Retain | Gold-Generator Retain

86329

Waste Management of Texas, Inc.
P.O. Box 719
Lewisville, TX 75067
(972) 316-2296 / FAX (972) 316-2298

NON-HAZARDOUS MANIFEST

			Mail manifest to:
GENERATOR:	RSR Corporation	ID # XXX04	ENTACT
ADDRESS:	2401 Westmoreland Rd.	EPA ID# TXP490329212	4040 W. Royal Lane. #136
CITY/ST:	Dallas, TX 75211-		Irving, TX 75063
PHONE:	(214) 631-7044	Attn:	Pat McDonald

Description of Waste Materials	Approval Number	Quantity	Units
Non-contaminated trees and brush F8LD4882	SL25157	25	CY

I hereby certify that the above described materials are not hazardous wastes as defined by 40 CFR Part 261 and does not contain free liquids as defined by 40 CFR Part 260.10 or any applicable state law. Have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Patrick J. McDonald / ENTACT — Generator Authorized Agent Name (Print)
Pat McDonald — Signature
7/30/03 — Delivery Date

TRANSPORTER

TRANSPORTER NAME: Tri Dal Trucking
ADDRESS: 540 Commerce
CITY/ST: South Lake, Tx 76092
TRANSPORTER: 0000231600

X DRIVER NAME(Print): MATTW MCDONALD
X TRUCK NUMBER: 420 (2AZ-100TX)
PHONE#: 817-481-2886

I hereby acknowledge receipt of the above described materials were received from the generator listed above and delivered to the disposal facility listed below without incident.

X — Driver Signature
7/30/03 — Shipment Date
Driver Signature
Delivery Date

DISPOSAL FACILITY

SITE NAME: Skyline Recycling and Disposal Facility
ADDRESS: 1201 N. Central Ave.; Ferris, TX. 75125
PHONE NUMBER: 972-842-5710
PERMIT #

I hereby acknowledge receipt of the above described materials.

Name of Authorized Agent (Print)
Signature
7/31/03 — Receipt Date

*D-Drum	C-Carton	B-Bag	P-Pounds	Y-Yards	O-Other

White-Original | Canary-Disposer Retain | Pink-Transporter Retain | Gold-Generator Retain

86341

Waste Management of Texas, Inc.
P.O. Box 719
Lewisville, TX 75067
(972) 316-2296 / FAX (972) 316-2298

NON-HAZARDOUS MANIFEST

GENERATOR:	RSR Corporation	ID # XXX04	Mail manifest to: ENTACT
ADDRESS:	2401 Westmoreland Rd.	EPA ID# TXP490329212	4040 W. Royal Lane. #136
CITY/ST:	Dallas, TX 75211-		Irving, TX 75063
PHONE:	(214) 631-7044	Attn:	Pat McDonald

Description of Waste Materials	Approval Number	Quantity	Units
Non-contaminated trees and brush F8LD4882	SL25157	25	CY

I hereby certify that the above described materials are not hazardous wastes as defined by 40 CFR Part 261 and does not contain free liquids as defined by 40 CFR Part 260.10 or any applicable state law. Have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Patrick J. McDonald / ENTACT — Generator Authorized Agent Name (Print)
Pat McDonald — Signature
7/30/03 — Delivery Date

TRANSPORTER

TRANSPORTER NAME: Tri Dal Trucking
ADDRESS: 540 Commerce
CITY/ST: Southlake, Tx 76092
TRANSPORTER: 00023160C

X DRIVER NAME(Print): DAVID T FRENCH
X TRUCK NUMBER: 360 (2AY-9947X)
PHONE#: 817-481-2886

I hereby acknowledge receipt of the above described materials were received from the generator listed above and delivered to the disposal facility listed below without incident.

X _____ 7/30/03 — Driver Signature / Shipment Date
_____ / / — Driver Signature / Delivery Date

DISPOSAL FACILITY

SITE NAME: Skyline Recycling and Disposal Facility PHONE NUMBER: 972-842-5710
ADDRESS: 1201 N. Central Ave., Ferris, Tx. 75125 PERMIT # 42C

I hereby acknowledge receipt of the above described materials.

_____ — Name of Authorized Agent (Print)
CS — Signature
7/30/03 — Receipt Date

*D-Drum	C-Carton	B-Bag	P-Pounds	Y-Yards	O-Other

White-Original | Canary-Disposer Retain | Pink-Transporter Retain | Gold-Generator Retain

86342

Waste Management of Texas, Inc.
P.O. Box 719
Lewisville, TX 75067
(972) 316-2296 / FAX (972) 316-2298

NON-HAZARDOUS MANIFEST

			Mail manifest to:
GENERATOR:	RSR Corporation	ID # XXX04	ENTACT
ADDRESS:	2401 Westmoreland Rd.	EPA ID# TXP490329212	4040 W. Royal Lane, #136
CITY/ST:	Dallas, TX 75211-		Irving, TX 75063
PHONE:	(214) 631-7044	Attn:	Pat McDonald

Description of Waste Materials	Approval Number	Quantity	Units
Non-contaminated trees and brush F8LD4882	SL25157	25	CY

I hereby certify that the above described materials are not hazardous wastes as defined by 40 CFR Part 261 and does not contain free liquids as defined by 40 CFR Part 260.10 or any applicable state law. Have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Patrick J. McDonald / ENTACT — Generator Authorized Agent Name (Print)

Pat J. McD — Signature

7/30/03 — Delivery Date

TRANSPORTER

TRANSPORTER NAME: Tri Dal Trucking
ADDRESS: 540 Commerce
CITY/ST: South Lake, Tx 76092
TRANSPORTER: 00023160C

X DRIVER NAME(Print): MARIO MONTOYA
X TRUCK NUMBER: 420 (2A2-106TX)
PHONE#: 817-481-2886

I hereby acknowledge receipt of the above described materials were received from the generator listed above and delivered to the disposal facility listed below without incident.

X _____ 7/30/03 — Driver Signature / Shipment Date

_____ / / — Driver Signature / Delivery Date

DISPOSAL FACILITY

SITE NAME: Skyline Recycling and Disposal Facility PHONE NUMBER: 972-842-5710
ADDRESS: 1201 N. Central Ave., Ferris, Tx. 75125 PERMIT # 42C

I hereby acknowledge receipt of the above described materials.

_____ — Name of Authorized Agent (Print)

_____ — Signature

7.30.03 — Receipt Date

*D-Drum	C-Carton	B-Bag	P-Pounds	Y-Yards	O-Other

White-Original Canary-Disposer Retain Pink-Transporter Retain Gold-Generator Retain

86334

Waste Management of Texas, Inc.
P.O. Box 719
Lewisville, TX 75067
(972) 316-2296 / FAX (972) 316-2298

NON-HAZARDOUS MANIFEST

			Mail manifest to:
GENERATOR:	RSR Corporation	ID # XXX04	ENTACT
ADDRESS:	2401 Westmoreland Rd.	EPA ID# TXP490329212	4040 W. Royal Lane. #136
CITY/ST:	Dallas, TX 75211-		Irving, TX 75063
PHONE:	(214) 631-7044	Attn:	Pat McDonald

Description of Waste Materials	Approval Number	Quantity	Units
Non-contaminated trees and brush F8LD4882	SL25157	25	CY

I hereby certify that the above described materials are not hazardous wastes as defined by 40 CFR Part 261 and does not contain free liquids as defined by 40 CFR Part 260.10 or any applicable state law. Have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Patrick J. McDonald / ENTACT — Pat McDonald — 7/29/03
Generator Authorized Agent Name (Print) — Signature — Delivery Date

TRANSPORTER

TRANSPORTER NAME: Tri Dal Trucking
ADDRESS: 540 Commerce
CITY/ST: South Lake, Tx 76092
TRANSPORTER: 0000231606

X DRIVER NAME(Print): Martin Montoya
X TRUCK NUMBER: 420
PHONE#: 817-481-2886

I hereby acknowledge receipt of the above described materials were received from the generator listed above and delivered to the disposal facility listed below without incident.

X Martin Montoya ___/___/___ — ___/___/___
Driver Signature — Shipment Date — Driver Signature — Delivery Date

DISPOSAL FACILITY

SITE NAME: Skyline Recycling and Disposal Facility PHONE NUMBER: 972-842-5710
ADDRESS: 1201 N. Central Ave., Ferris, TX. 75125 PERMIT # 42C

I hereby acknowledge receipt of the above described materials.

WM — DM 7/30/03
Name of Authorized Agent (Print) — Signature — Receipt Date

*D-Drum	C-Carton	B-Bag	P-Pounds	Y-Yards	O-Other

White-Original — Canary-Disposer Retain — Pink-Transporter Retain — Gold-Generator Retain

86335

Waste Management of Texas, Inc.
P.O. Box 719
Lewisville, TX 75067
(972) 316-2296 / FAX (972) 316-2298

NON-HAZARDOUS MANIFEST

			Mail manifest to:
GENERATOR:	RSR Corporation	ID # XXX04	ENTACT
ADDRESS:	2401 Westmoreland Rd.	EPA ID# TXP490329212	4040 W. Royal Lane, #136
CITY/ST:	Dallas, TX 75211-		Irving, TX 75063
PHONE:	(214) 631-7044	Attn:	Pat McDonald

Description of Waste Materials	Approval Number	Quantity	Units
Non-contaminated trees and brush F8LD4882	SL25157	25	CY

I hereby certify that the above described materials are not hazardous wastes as defined by 40 CFR Part 261 and does not contain free liquids as defined by 40 CFR Part 260.10 or any applicable state law. Have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Patrick J. McDonald / ENTACT — 7/29/03

Generator Authorized Agent Name (Print) — Signature — Delivery Date

TRANSPORTER

TRANSPORTER NAME: Tri Dal Trucking
ADDRESS: 540 Commerce
CITY/ST: South Lake, TX 76092
TRANSPORTER: 000023160C

X DRIVER NAME(Print): Martin Montoya
X TRUCK NUMBER: 420 (2AZ 100 TX)
PHONE#: 817-481-2886

I hereby acknowledge receipt of the above described materials were received from the generator listed above and delivered to the disposal facility listed below without incident.

X Martin Montoya 7/29/03 — ___/___/___

Driver Signature — Shipment Date — Driver Signature — Delivery Date

DISPOSAL FACILITY

SITE NAME: Skyline Recycling and Disposal Facility PHONE NUMBER: 972-842-5710
ADDRESS: 1201 N. Central Ave., Ferris, Tx. 75125 PERMIT # 42C

I hereby acknowledge receipt of the above described materials.

WM — [signature] — 7/29/03

Name of Authorized Agent (Print) — Signature — Receipt Date

*D-Drum	C-Carton	B-Bag	P-Pounds	Y-Yards	O-Other

White-Original — Canary-Disposer Retain — Pink-Transporter Retain — Gold-Generator Retain

86336

Waste Management of Texas, Inc.
P.O. Box 719
Lewisville, TX 75067
(972) 316-2296 / FAX (972) 316-2298

NON-HAZARDOUS MANIFEST

GENERATOR:	RSR Corporation	ID # XXX04	Mail manifest to: ENTACT
ADDRESS:	2401 Westmoreland Rd.	EPA ID# TXP490329212	4040 W. Royal Lane, #136
CITY/ST:	Dallas, TX 75211-		Irving, TX 75063
PHONE:	(214) 631-7044	Attn:	Pat McDonald

Description of Waste Materials	Approval Number	Quantity	Units
Non-contaminated trees and brush F8LD4882	SL25157	25	CY

I hereby certify that the above described materials are not hazardous wastes as defined by 40 CFR Part 261 and does not contain free liquids as defined by 40 CFR Part 260.10 or any applicable state law. Have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Patrick J. McDonald / ENTACT — 7/29/03

Generator Authorized Agent Name (Print) — Signature — Delivery Date

TRANSPORTER

TRANSPORTER NAME: Tri Rail Trucking
ADDRESS: 540 Commerce
CITY/ST: South Lake, TX 76092
TRANSPORTER: 00023160C

DRIVER NAME(Print): Robin Wadsworth
TRUCK NUMBER: 360 (2A4994) TX
PHONE#: 817-481-2886

I hereby acknowledge receipt of the above described materials were received from the generator listed above and delivered to the disposal facility listed below without incident.

Driver Signature	Shipment Date	Driver Signature	Delivery Date
	7/29/03		/ /

DISPOSAL FACILITY

SITE NAME: Skyline Recycling and Disposal Facility PHONE NUMBER: 972-842-5710
ADDRESS: 1201 N. Central Ave., Ferris, Tx. 75125 PERMIT # 42C

I hereby acknowledge receipt of the above described materials.

Name of Authorized Agent (Print)	Signature	Receipt Date
		7293

*D-Drum	C-Carton	B-Bag	P-Pounds	Y-Yards	O-Other

White-Original — Canary-Disposer Retain — Pink-Transporter Retain — Gold-Generator Retain

86337

Waste Management of Texas, Inc.
P.O. Box 719
Lewisville, TX 75067
(972) 316-2296 / FAX (972) 316-2298

NON-HAZARDOUS MANIFEST

GENERATOR:	RSR Corporation	ID # XXX04	Mail manifest to: ENTACT
ADDRESS:	2401 Westmoreland Rd.	EPA ID# TXP490329212	4040 W. Royal Lane. #136
CITY/ST:	Dallas, TX 75211-		Irving, TX 75063
PHONE:	(214) 631-7044	Attn:	Pat McDonald

Description of Waste Materials	Approval Number	Quantity	Units
Non-contaminated trees and brush F8LD4882	SL25157	25	CY

I hereby certify that the above described materials are not hazardous wastes as defined by 40 CFR Part 261 and does not contain free liquids as defined by 40 CFR Part 260.10 or any applicable state law. Have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Patrick J. McDonald / ENTACT — Generator Authorized Agent Name (Print)

Signature

7-29-03 — Delivery Date

TRANSPORTER

TRANSPORTER NAME: Tri Dal Trucking

ADDRESS: 540 Commerce

CITY/ST: Southlake, Tx 76092

TRANSPORTER: 00002360C

X DRIVER NAME(Print): Robin Woodward

X TRUCK NUMBER: 360

PHONE#: 817-481-2886

I hereby acknowledge receipt of the above described materials were received from the generator listed above and delivered to the disposal facility listed below without incident.

X	7/29/2003	X	7/29/2003
Driver Signature	Shipment Date	Driver Signature	Delivery Date

DISPOSAL FACILITY

SITE NAME: Skyline Recycling and Disposal Facility PHONE NUMBER: 972-842-5710

ADDRESS: 1201 N. Central Ave., Ferris, Tx. 75125 PERMIT # 42C

I hereby acknowledge receipt of the above described materials.

WM — Name of Authorized Agent (Print)

DM — Signature

7/29/03 — Receipt Date

*D-Drum	C-Carton	B-Bag	P-Pounds	Y-Yards	O-Other

White-Original Canary-Disposer Retain Pink-Transporter Retain Gold-Generator Retain

86338 62620

Waste Management of Texas, Inc.
P.O. Box 719
Lewisville, TX 75067
(972) 316-2296 / FAX (972) 316-2298

NON-HAZARDOUS MANIFEST

GENERATOR:	RSR Corporation	ID # XXX04	Mail manifest to: ENTACT
ADDRESS:	2401 Westmoreland Rd.	EPA ID# TXP490329212	4040 W. Royal Lane. #136
CITY/ST:	Dallas, TX 75211-		Irving, TX 75063
PHONE:	(214) 631-7044	Attn:	Pat McDonald

Description of Waste Materials	Approval Number	Quantity	Units
Non-contaminated trees and brush F8LD4882	SL25157	25	CY

I hereby certify that the above described materials are not hazardous wastes as defined by 40 CFR Part 261 and does not contain free liquids as defined by 40 CFR Part 260.10 or any applicable state law. Have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Patrick J. McDonald /ENTACT — Generator Authorized Agent Name (Print)
Signature
7-29-03 — Delivery Date

TRANSPORTER

TRANSPORTER NAME: Tri Dal Trucking
ADDRESS: 540 Commerce
CITY/ST: South Lake, Tx 76092
TRANSPORTER: 0000-23160C

X DRIVER NAME(Print): Robin Woodward
X TRUCK NUMBER: 360 (2A4994TX)
PHONE#: 817-481-2886

I hereby acknowledge receipt of the above described materials were received from the generator listed above and delivered to the disposal facility listed below without incident.

X _____ 7/29/2003 — Driver Signature / Shipment Date
_____ / / — Driver Signature / Delivery Date

DISPOSAL FACILITY

SITE NAME: Skyline Recycling and Disposal Facility
ADDRESS: 1201 N. Central Ave., Ferris, Tx. 75125
PHONE NUMBER: 972-842-5710
PERMIT # 42C

I hereby acknowledge receipt of the above described materials.

Waste Management — Name of Authorized Agent (Print)
Crystal Bates — Signature
7/29/03 — Receipt Date

*D-Drum	C-Carton	B-Bag	P-Pounds	Y-Yards	O-Other

White-Original | Canary-Disposer Retain | Pink-Transporter Retain | Gold-Generator Retain

86345

Waste Management of Texas, Inc.
P.O. Box 719
Lewisville, TX 75067
(972) 316-2296 / FAX (972) 316-2298

NON-HAZARDOUS MANIFEST

GENERATOR: RSR Corporation ID # XXX04
ADDRESS: 2401 Westmoreland Rd. EPA ID# TXP490329212
CITY/ST: Dallas, TX 75211-
PHONE: (214) 631-7044

Mail manifest to:
ENTACT
4040 W. Royal Lane, #136
Irving, TX 75063
Attn: Pat McDonald

Description of Waste Materials	Approval Number	Quantity	Units
Non-contaminated trees and brush F8LD4882	SL25157	25	CY

I hereby certify that the above described materials are not hazardous wastes as defined by 40 CFR Part 261 and does not contain free liquids as defined by 40 CFR Part 260.10 or any applicable state law. Have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Patrick J. McDonald / ENTACT — Generator Authorized Agent Name (Print)
Signature
7/30/03 — Delivery Date

TRANSPORTER

TRANSPORTER NAME: Tri Dal Trucking
ADDRESS: 546 Commerce
CITY/ST: Southlake, TX 76092
TRANSPORTER: 00002316OC

X DRIVER NAME(Print): DAVID T FRENCH
X TRUCK NUMBER: 360 (2AY-994TX)
PHONE#: 817-481-2886

I hereby acknowledge receipt of the above described materials were received from the generator listed above and delivered to the disposal facility listed below without incident.

X _____ — Driver Signature
7/30/03 — Shipment Date
_____ — Driver Signature
__/__/__ — Delivery Date

DISPOSAL FACILITY

SITE NAME: Skyline Recycling and Disposal Facility PHONE NUMBER: 972-842-5710
ADDRESS: 1201 N. Central Ave., Ferris, Tx. 75125 PERMIT # 42C

I hereby acknowledge receipt of the above described materials.

_____ — Name of Authorized Agent (Print)
_____ — Signature
_____ — Receipt Date

*D-Drum	C-Carton	B-Bag	P-Pounds	Y-Yards	O-Other

White-Original | Canary-Disposer Retain | Pink-Transporter Retain | Gold-Generator Retain

86331

Waste Management of Texas, Inc.
P.O. Box 719
Lewisville, TX 75067
(972) 316-2296 / FAX (972) 316-2298

NON-HAZARDOUS MANIFEST

GENERATOR:	RSR Corporation	ID # XXX04	Mail manifest to: ENTACT
ADDRESS:	2401 Westmoreland Rd.	EPA ID# TXP490329212	4040 W. Royal Lane, #136
CITY/ST:	Dallas, TX 75211-		Irving, TX 75063
PHONE:	(214) 631-7044	Attn:	Pat McDonald

Description of Waste Materials	Approval Number	Quantity	Units
Non-contaminated trees and brush F8LD4882	SL25157	25	CY

I hereby certify that the above described materials are not hazardous wastes as defined by 40 CFR Part 261 and does not contain free liquids as defined by 40 CFR Part 260.10 or any applicable state law. Have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Patrick J. McDonald / ENTACT — Generator Authorized Agent Name (Print)

Pat McDonald — Signature

7/30/03 — Delivery Date

TRANSPORTER

TRANSPORTER NAME: Tri Dal Trucking
ADDRESS: 540 Commerce
CITY/ST: South Lake, Tx 76092
TRANSPORTER: 00002316OC

X DRIVER NAME(Print): [illegible]
X TRUCK NUMBER: 420 (2AZ-100TX)
PHONE#: 817-481-2886

I hereby acknowledge receipt of the above described materials were received from the generator listed above and delivered to the disposal facility listed below without incident.

X [signature] 7/30/03 — Driver Signature / Shipment Date

_____ / / — Driver Signature / Delivery Date

DISPOSAL FACILITY

SITE NAME: Skyline Recycling and Disposal Facility PHONE NUMBER: 972-842-5710
ADDRESS: 1201 N. Central Ave., Ferris, Tx. 75125 PERMIT # 42C

I hereby acknowledge receipt of the above described materials.

WM — Name of Authorized Agent (Print)

[signature] — Signature

7/30/03 — Receipt Date

*D-Drum	C-Carton	B-Bag	P-Pounds	Y-Yards	O-Other

White-Original | Canary-Disposer Retain | Pink-Transporter Retain | Gold-Generator Retain

86332

Waste Management of Texas, Inc.
P.O. Box 719
Lewisville, TX 75067
(972) 316-2296 / FAX (972) 316-2298

NON-HAZARDOUS MANIFEST

			Mail manifest to:
GENERATOR:	RSR Corporation	ID # XXX04	ENTACT
ADDRESS:	2401 Westmoreland Rd.	EPA ID# TXP490329212	4040 W. Royal Lane. #136
CITY/ST:	Dallas, TX 75211-		Irving, TX 75063
PHONE:	(214) 631-7044	Attn:	Pat McDonald

Description of Waste Materials	Approval Number	Quantity	Units
Non-contaminated trees and brush F8LD4882	SL25157	25	CY

I hereby certify that the above described materials are not hazardous wastes as defined by 40 CFR Part 261 and does not contain free liquids as defined by 40 CFR Part 260.10 or any applicable state law. Have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Patricia J. McDonald / ENTACT — Generator Authorized Agent Name (Print)

Signature — Delivery Date

TRANSPORTER

TRANSPORTER NAME: Tri Dal Trucking
ADDRESS: 540 Commerce
CITY/ST: Southlake, TX 76092
TRANSPORTER: 000023160C

X DRIVER NAME(Print): MARTIN MONTOYA Q
X TRUCK NUMBER: 420
PHONE#: 817-481-2886

I hereby acknowledge receipt of the above described materials were received from the generator listed above and delivered to the disposal facility listed below without incident.

X _____ / / — Driver Signature — Shipment Date

_____ / / — Driver Signature — Delivery Date

DISPOSAL FACILITY

SITE NAME: Skyline Recycling and Disposal Facility PHONE NUMBER: 972-842-5710
ADDRESS: 1201 N. Central Ave., Ferris, Tx. 75125 PERMIT # 42C

I hereby acknowledge receipt of the above described materials.

WM — Name of Authorized Agent (Print)

DM 7,30,03 — Signature — Receipt Date

*D-Drum	C-Carton	B-Bag	P-Pounds	Y-Yards	O-Other

White-Original Canary-Disposer Retain Pink-Transporter Retain Gold-Generator Retain

86333

Waste Management of Texas, Inc.
P.O. Box 719
Lewisville, TX 75067
(972) 316-2296 / FAX (972) 316-2298

NON-HAZARDOUS MANIFEST

GENERATOR:	RSR Corporation	ID # XXX04	Mail manifest to: ENTACT
ADDRESS:	2401 Westmoreland Rd.	EPA ID# TXP490329212	4040 W. Royal Lane, #136
CITY/ST:	Dallas, TX 75211-		Irving, TX 75063
PHONE:	(214) 631-7044	Attn:	Pat McDonald

Description of Waste Materials	Approval Number	Quantity	Units
Non-contaminated trees and brush F8LD4882	SL25157	25	CY

I hereby certify that the above described materials are not hazardous wastes as defined by 40 CFR Part 261 and does not contain free liquids as defined by 40 CFR Part 260.10 or any applicable state law. Have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Patrick J. McDonald / ENTACT — Pat J. McD — 7/30/03
Generator Authorized Agent Name (Print) — Signature — Delivery Date

TRANSPORTER

TRANSPORTER NAME: Tri Del Trucking
ADDRESS: 540 Commerce
CITY/ST: South Lake Tx, 76092
TRANSPORTER: 0000231606

X DRIVER NAME(Print): DAVID T FRENCH
X TRUCK NUMBER: 360 (2AY-994TX)
PHONE#: 817-481-2886

I hereby acknowledge receipt of the above described materials were received from the generator listed above and delivered to the disposal facility listed below without incident.

X _____ 7/30/03 — _____ / / —
Driver Signature — Shipment Date — Driver Signature — Delivery Date

DISPOSAL FACILITY

SITE NAME: Skyline Recycling and Disposal Facility PHONE NUMBER: 972-842-5710
ADDRESS: 1201 N. Central Ave., Ferris, Tx. 75125 PERMIT # 42C

I hereby acknowledge receipt of the above described materials.

WM — DM — 7.30.03
Name of Authorized Agent (Print) — Signature — Receipt Date

*D-Drum	C-Carton	B-Bag	P-Pounds	Y-Yards	O-Other

White-Original — Canary-Disposer Retain — Pink-Transporter Retain — Gold-Generator Retain

86343

Waste Management of Texas, Inc.
P.O. Box 719
Lewisville, TX 75067
(972) 316-2296 / FAX (972) 316-2298

NON-HAZARDOUS MANIFEST

GENERATOR: RSR Corporation ID # XXX04
ADDRESS: 2401 Westmoreland Rd. EPA ID# TXP490329212
CITY/ST: Dallas, TX 75211-
PHONE: (214) 631-7044

Mail manifest to:
ENTACT
4040 W. Royal Lane, #136
Irving, TX 75063
Attn: Pat McDonald

Description of Waste Materials	Approval Number	Quantity	Units
Non-contaminated trees and brush F8LD4882	SL25157	25	CY

I hereby certify that the above described materials are not hazardous wastes as defined by 40 CFR Part 261 and does not contain free liquids as defined by 40 CFR Part 260.10 or any applicable state law. Have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Patrick J. McDonald / ENTACT — Generator Authorized Agent Name (Print)
Signature
7/30/03 — Delivery Date

TRANSPORTER

TRANSPORTER NAME: Tri Dal Trucking
ADDRESS: 540 Commerce
CITY/ST: Southlake, TX 76092
TRANSPORTER: 0000231600

X DRIVER NAME(Print): DAVID T FRENCH
X TRUCK NUMBER: 360 (2AY-994TX)
PHONE#: 817-481-3886

I hereby acknowledge receipt of the above described materials were received from the generator listed above and delivered to the disposal facility listed below without incident.

X
Driver Signature
7/30/03 — Shipment Date
Driver Signature
/ / — Delivery Date

DISPOSAL FACILITY

SITE NAME: Skyline Recycling and Disposal Facility PHONE NUMBER: 972-842-5710
ADDRESS: 1201 N. Central Ave., Ferris, Tx. 75125 PERMIT # 42C

I hereby acknowledge receipt of the above described materials.

WM
Name of Authorized Agent (Print)
DM 7.30.03
Signature
Receipt Date

*D-Drum	C-Carton	B-Bag	P-Pounds	Y-Yards	O-Other

White-Original Canary-Disposer Retain Pink-Transporter Retain Gold-Generator Retain

86344

Waste Management of Texas, Inc.
P.O. Box 719
Lewisville, TX 75067
(972) 316-2296 / FAX (972) 316-2298

NON-HAZARDOUS MANIFEST

			Mail manifest to:
GENERATOR:	RSR Corporation	ID # XXX04	ENTACT
ADDRESS:	2401 Westmoreland Rd.	EPA ID# TXP490329212	4040 W. Royal Lane, #136
CITY/ST:	Dallas, TX 75211-		Irving, TX 75063
PHONE:	(214) 631-7044	Attn:	Pat McDonald

Description of Waste Materials	Approval Number	Quantity	Units
Non-contaminated trees and brush F8LD4882	SL25157	25	CY

I hereby certify that the above described materials are not hazardous wastes as defined by 40 CFR Part 261 and does not contain free liquids as defined by 40 CFR Part 260.10 or any applicable state law. Have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Patrick J. McDonald / ENTACT — Generator Authorized Agent Name (Print)
[signature] — Signature
7/30/02 — Delivery Date

TRANSPORTER

TRANSPORTER NAME: Tri Dal Trucking
ADDRESS: 540 Commerce
CITY/ST: South Lake, Tx 76092
TRANSPORTER: 000023160C

X DRIVER NAME(Print): [illegible]
X TRUCK NUMBER: 420 (7AZ-100TX)
PHONE#: 817-481-2886

I hereby acknowledge receipt of the above described materials were received from the generator listed above and delivered to the disposal facility listed below without incident.

X [signature] — Driver Signature
7/30/02 — Shipment Date
_____ — Driver Signature
___/___/___ — Delivery Date

DISPOSAL FACILITY

SITE NAME: Skyline Recycling and Disposal Facility
PHONE NUMBER: 972-842-5710
ADDRESS: 1201 N. Central Ave., Ferris, Tx. 75125
PERMIT # 42C

I hereby acknowledge receipt of the above described materials.

[signature] — Name of Authorized Agent (Print)
DM — Signature
7.30.03 — Receipt Date

*D-Drum	C-Carton	B-Bag	P-Pounds	Y-Yards	O-Other

White-Original | Canary-Disposer Retain | Pink-Transporter Retain | Gold-Generator Retain

Whole Used or Scrap Tire Manifest

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION ◆ P.O. Box 13087 ◆ Austin, Texas 78711-3087 ◆ (512) 239-6695

137891

1. GENERATOR INFORMATION AND CERTIFICATION:

7/24/03
Date and Time of Pickup

Registration Number/Type of Generator

( )
Area Code/Telephone Number

Entact Services
Company Name

2401 Brestmoreland
Street Address

Dallas, TX
City County State Zip

423 0
No. of Whole Passenger Tires No. of Whole Truck Tires

I certify that the information provided above is true and correct. I am aware that falsification of this manifest may result in suspension, revocation, or denial of renewal of my generator registration.

Print Name: X Kirk Gates

Signature: X Kirk Gates

ADJUSTMENT BOX
# of Tires Picked Up: ____ Passenger Tires ____ Truck Tires
Removed for Reuse: ____ Passenger Tires ____ Truck Tires
To Be Delivered: ____ Passenger Tires ____ Truck Tires
Location and Intended Use of Removed Tires:

2. TRANSPORTER INFORMATION AND CERTIFICATION:

SAFE TIRE DISPOSAL CORP. OF TEXAS
Company Name

25965 05073175
Registration Number Driver's License Number

Print Name: Roy L Jackson

*Signature: Roy L Jackson

3. SECONDARY TRANSPORTER INFORMATION AND CERTIFICATION:

Company Name

Registration Number Driver's License Number

Print Name:

*Signature:

*By my signature I certify that the information provided above is true and correct and that only wastes in Item 1 of this manifest are contained in this load. I am aware that falsification of this manifest may result in suspension, revocation, or denial of renewal of my transporter registration.

CASH ☐ CHECK ☐ OTHER ☑

ROUTES: ~~$2.00~~ reg. ~~$2.25~~

	COUNT	AMOUNT
PASSENGER 63rims	423	$ ~~861.75~~ 846.-
TRUCK		$
OTHER: 2(17.5)(14.9)	3	$ 45.00

TRAILER PICK-UP:

FLAT RATE:		$

GATE FEE:

	TONNAGE	AMOUNT
PASSENGER		$
MIX/TRUCK		$

$964.51

SUBTOTAL		$ ~~906.75~~ 891.-
TAX		~~74.81~~ 73.51
TOTAL		$ ~~981.56~~ 964.51

CUSTOMER SIGNATURE X Kirk Gates

DRIVER SIGNATURE Roy L Jackson

THIS IS NOT A BILL

4. PROCESSOR / STORAGE SITE INFORMATION AND CERTIFICATION:

79504 44104 7/24/03
Registration Number Date and Time of Process

423 3 OR ____ Lbs.
No. Passenger Tires No. Truck Tires Weight of Tires

(972) 775-1101
Area Code/Telephone Number

SAFE TIRE DISPOSAL CORP. OF TEXAS
Company Name

3351 S. WYATT RD./P.O. BOX 460
Street Address

MIDLOTHIAN TX 76065
City State Zip

I certify that the information provided above is true and correct and that I have been authorized by the Texas Natural Resource Conservation Commission to accept whole used or scrap tires for storage, processing, or disposal. I am aware that falsification of this manifest may result in suspension, revocation, or denial of renewal of my processing or storage site registration, or my disposal site permit.

Signature: J. Collins

Print Name: J. Collins

A copy of each transaction must be retained by each party for a period of three years. The processor or disposal facility operator must mail a copy of the completed manifest back to the generator. Following each transaction, the copy separated from the manifest should be the bottom copy. (Green-Generator; yellow-transporter; blue-processor; pink-disposal facility; white original-generator)

183472

TNRCC: APPROVED FORM 12-97

GENERATOR

Whole Used or Scrap Tire Manifest

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION ♦ P.O. Box 13087 ♦ Austin, Texas 78711-3087 ♦ (512) 239-6695

137891

1. GENERATOR INFORMATION AND CERTIFICATION:

7/24/03
Date and Time of Pickup

Registration Number/Type of Generator

( )
Area Code/Telephone Number

Entact Services
Company Name

2401 Westmoreland
Street Address

Dallas, TX
City County State Zip

423 0
No. of Whole Passenger Tires No. of Whole Truck Tires

I certify that the information provided above is true and correct. I am aware that falsification of this manifest may result in suspension, revocation, or denial of renewal of my generator registration.

Print Name: X Kirk Gates

Signature: X Kirk Gates

ADJUSTMENT BOX
# of Tires Picked Up: ____ Passenger Tires ____ Truck Tires
Removed for Reuse: ____ Passenger Tires ____ Truck Tires
To Be Delivered: ____ Passenger Tires ____ Truck Tires
Location and Intended Use of Removed Tires:

2. TRANSPORTER INFORMATION AND CERTIFICATION:

SAFE TIRE DISPOSAL CORP. OF TEXAS
Company Name

25965 05073175
Registration Number Driver's License Number

Print Name: Roy L Jackson

*Signature: Roy L Jackson

3. SECONDARY TRANSPORTER INFORMATION AND CERTIFICATION:

Company Name

Registration Number Driver's License Number

Print Name:

*Signature:

*By my signature I certify that the information provided above is true and correct and that only wastes in Item 1 of this manifest are contained in this load. I am aware that falsification of this manifest may result in suspension, revocation, or denial of renewal of my transporter registration.

CASH ☐ CHECK ☐ OTHER ☑

	COUNT	AMOUNT
ROUTES: ~~$2.25~~ $2.00 reg.		
PASSENGER 63 rims	423	$ ~~861.75~~ 846.-
TRUCK		$
OTHER: 2(17.5)(14.9)	3	$ 45.00
TRAILER PICK-UP:		
FLAT RATE:		$
GATE FEE:	TONNAGE	AMOUNT
PASSENGER		$
MIX/TRUCK		$
SUBTOTAL		$ ~~906.75~~ 891.-
TAX		~~74.81~~ 73.51
TOTAL		$ ~~981.56~~ 964.51

#964.51

CUSTOMER SIGNATURE X Kirk Gates

DRIVER SIGNATURE Roy L Jackson

4. PROCESSOR / STORAGE SITE INFORMATION AND CERTIFICATION:

79504 44104
Registration Number Date and Time of Process

No. Passenger Tires No. Truck Tires OR Weight of Tires Lbs.

(972) 775-1101
Area Code/Telephone Number

SAFE TIRE DISPOSAL CORP. OF TEXAS
Company Name

3351 S. WYATT RD./P.O. BOX 460
Street Address

MIDLOTHIAN TX 76065
City State Zip

I certify that the information provided above is true and correct and that I have been authorized by the Texas Natural Resource Conservation Commission to accept whole used or scrap tires for storage, processing, or disposal. I am aware that falsification of this manifest may result in suspension, revocation, or denial of renewal of my processing or storage site registration, or my disposal site permit.

Signature:

Name:

A copy of each transaction must be retained by each party for a period of three years. The processor or disposal facility operator must mail a copy of the completed manifest back to the generator. Following each transaction, the copy separated from the manifest should be the bottom copy. (Green-Generator; yellow-transporter; blue-processor; pink-disposal facility; white original-generator)

183472

TNRCC: APPROVED FORM 12-97

GENERATOR

Whole Used or Scrap Tire Manifest

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION ♦ P.O. Box 13087 ♦ Austin, Texas 78711-3087 ♦ (512) 239-6695

#137891

1. GENERATOR INFORMATION AND CERTIFICATION:

7-24-03
Date and Time of Pickup

[redacted]
Registration Number/Type of Generator

(214) 631-4077
Area Code/Telephone Number

Enfact Services
Company Name

2401 westmoreland
Street Address

Dallas | Dallas | T.X. | 75212
City | County | State | Zip

338 | 14
No. of Whole Passenger Tires | No. of Whole Truck Tires

I certify that the information provided above is true and correct. I am aware that falsification of this manifest may result in suspension, revocation, or denial of renewal of my generator registration.

Print Name: X KIRK GATES

Signature: X Kirk Gates

ADJUSTMENT BOX
# of Tires Picked Up: _____ Passenger Tires _____ Truck Tires
Removed for Reuse: _____ Passenger Tires _____ Truck Tires
To Be Delivered: _____ Passenger Tires _____ Truck Tires
[redacted]cation and Intended Use of Removed Tires:

2. TRANSPORTER INFORMATION AND CERTIFICATION:

SAFE TIRE DISPOSAL CORP. OF TEXAS
Company Name

25965 | 16546286
Registration Number | Driver's License Number

Print Name: Ray L Wier

*Signature: Ray L. Wier

3. SECONDARY TRANSPORTER INFORMATION AND CERTIFICATION:

Company Name

Registration Number | Driver's License Number

Print Name: _____

*Signature: _____

*By my signature I certify that the information provided above is true and correct and that only wastes in Item 1 of this manifest are contained in this load. I am aware that falsification of this manifest may result in suspension, revocation, or denial of renewal of my transporter registration.

4. PROCESSOR / STORAGE SITE INFORMATION AND CERTIFICATION:

79504 44104
Registration Number

7/25/03
Date and Time of Process

338 | 14+2 | OR _____ Lbs.
No. Passenger Tires | No. Truck Tires | Weight of Tires

(972) 775-1101
Area Code/Telephone Number

SAFE TIRE DISPOSAL CORP. OF TEXAS
Company Name

3351 S. WYATT RD./P.O. BOX 460
Street Address

MIDLOTHIAN | TX | 76065
City | State | Zip

I certify that the information provided above is true and correct and that I have been authorized by the Texas Natural Resource Conservation Commission to accept whole used or scrap tires for storage, processing, or disposal. I am aware that falsification of this manifest may result in suspension, revocation, or denial of renewal of my processing or storage site registration, or my disposal site permit.

Signature: J. Collins

[redacted]ame: J. Collins

CASH ☐ CHECK ☐ OTHER ☑

ROUTES:	COUNT	AMOUNT
PASSENGER	338	$ 676.00
TRUCK	14	$ 98.00
OTHER:	2	$ 30.00
TRAILER PICK-UP:		
FLAT RATE:		$
GATE FEE:	[illegible]	AMOUNT
PASSENGER		$
MIX/TRUCK		$

THIS IS NOT A BILL

SUBTOTAL $ 804.00

Tax + 66.33

TOTAL $ 870.33

CUSTOMER SIGNATURE X Kirk Gates

DRIVER SIGNATURE Ray L. Wier

A copy of each transaction must be retained by each party for a period of three years. The processor or disposal facility operator must mail a copy of the completed manifest back to the generator. Following each transaction, the copy separated from the manifest should be the bottom copy. (Green-Generator; yellow-transporter; blue-processor; pink-disposal facility; white original-generator)

183473

TNRCC: APPROVED FORM 12-97

GENERATOR

Whole Used or Scrap Tire Manifest

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION ◆ P.O. Box 13087 ◆ Austin, Texas 78711-3087 ◆ (512) 239-6695

137891

1. GENERATOR INFORMATION AND CERTIFICATION:

7/28/03
Date and Time of Pickup

Registration Number/Type of Generator

(972) 467-2664
Area Code/Telephone Number

Entact Services
Company Name

2401 Westmoreland
Street Address

Dallas, TX
City, County, State, Zip

387
No. of Whole Passenger Tires

2
No. of Whole Truck Tires

I certify that the information provided above is true and correct. I am aware that falsification of this manifest may result in suspension, revocation, or denial of renewal of my generator registration.

Print Name: X Pat McDonald

Signature: X

ADJUSTMENT BOX
# of Tires Picked Up: _____ Passenger Tires _____ Truck Tires
Removed for Reuse: _____ Passenger Tires _____ Truck Tires
To Be Delivered: _____ Passenger Tires _____ Truck Tires
Location and Intended Use of Removed Tires:

2. TRANSPORTER INFORMATION AND CERTIFICATION:

SAFE TIRE DISPOSAL CORP. OF TEXAS
Company Name

25965
Registration Number

05073175
Driver's License Number

Print Name: X Roy L Jackson

*Signature: X

3. SECONDARY TRANSPORTER INFORMATION AND CERTIFICATION:

Company Name

Registration Number

Driver's License Number

Print Name:

*Signature:

*By my signature I certify that the information provided above is true and correct and that only wastes in Item 1 of this manifest are contained in this load. I am aware that falsification of this manifest may result in suspension, revocation, or denial of renewal of my transporter registration.

CASH ☐ CHECK ☐ OTHER ☑

ROUTES:	COUNT	AMOUNT
PASSENGER	387	$ 774.00
TRUCK	2	$ 14.00
OTHER:		$

TRAILER PICK-UP:

FLAT RATE:		$

THIS IS NOT A BILL

GATE FEE:	TONNAGE	AMOUNT
PASSENGER		$
MIX/TRUCK		$

SUBTOTAL $ 788.00

TAX 65.01

TOTAL $ 853.01

CUSTOMER SIGNATURE X

DRIVER SIGNATURE X

4. PROCESSOR / STORAGE SITE INFORMATION AND CERTIFICATION:

79504 44104
Registration Number

7/28/03
Date and Time of Process

387
No. Passenger Tires

2
No. Truck Tires

OR _____ Lbs.
Weight of Tires

(972) 775-1101
Area Code/Telephone Number

SAFE TIRE DISPOSAL CORP. OF TEXAS
Company Name

3351 S. WYATT RD./P.O. BOX 460
Street Address

MIDLOTHIAN TX 76065
City State Zip

I certify that the information provided above is true and correct and that I have been authorized by the Texas Natural Resource Conservation Commission to accept whole used or scrap tires for storage, processing, or disposal. I am aware that falsification of this manifest may result in suspension, revocation, or denial of renewal of my processing or storage site registration or my disposal site permit.

Signature: J. Collin

Print Name: J Collin

A copy of each transaction must be retained by each party for a period of three years. The processor or disposal facility operator must mail a copy of the completed manifest back to the generator. Following each transaction, the copy separated from the manifest should be the bottom copy. (Green-Generator; yellow-transporter; blue-processor; pink-disposal facility; white original-generator)

183478

TNRCC: APPROVED FORM 12-97

GENERATOR