

Volumes I and II

**Closure Report Former
Unisys Facility,
Great Neck, New York**

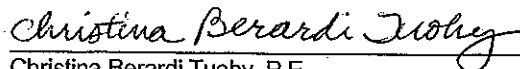
Volume I

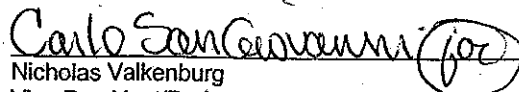
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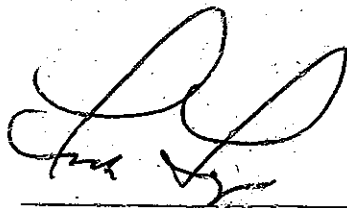


Infrastructure, buildings, environment, communications

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Volume I
Closure Report,
Former Unisys Facility,
Great Neck, New York

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Volume I

Disclosure Statement	1
Statements of Certification	2
Executive Summary	3
1. Introduction	5
1.1 Closure Report Objective	5
1.2 Closure Report Format	6
2. Exterior Closure Activities	7
2.1 General Approach	7
2.2 Exterior AOPCs	9
2.2.1 Area 26A	9
2.2.2 Area 26B	11
2.2.3 Area 26D	12
2.2.4 Area 24	13
2.2.5 Area 21	13
2.2.6 Area 15	16
2.2.7 Area FPM-1	17
2.2.8 Area FPM-8	18
2.2.9 Area FPM-19	20
3. Conclusions for Exterior Areas	22
4. Interior Closure Activities	23
4.1 General Approach	23
4.1.1 Decontamination	24
4.1.2. AUL Implementation	26

4.2	Hazardous Waste Management Units (HWMUs)	27
4.2.1	Area 7 (Paint Storage Room)	27
4.2.2	Area 8 (Oil Storage/Pump Room)	28
4.2.3	Area 13 (Hazardous Materials Storage Facility)	28
4.2.4	Area 17 (Reclamation Room)	29
4.3	Other Interior Areas of Potential Concern (AOPCs)	30
4.3.1	Area 1 (Thin Film Laboratory)	30
4.3.2	Area 9 (Old Plating Area)	31
4.3.3	Area 11 (Process Photo Lab)	31
4.3.4	Area 31 (Foundry Basement Sump)	31
4.3.5	Area 2 (Wet Chemistry Lab)	32
4.3.6	Area 28 (A/C Room Sump)	32
4.3.7	Area 30 (Short Order Machine Shop Sumps)	33
5.	Conclusions for Interior Areas	33
6.	Waste handling and disposal	34
6.1	Interior Area Waste	34
6.2	Exterior Area Waste	36
6.3	AUL Implementation	36

Tables

- 1 Soil Sample Results for AOPC Area 26A at the Former Unisys Facility, Great Neck, New York, April, July, September and December, 2001 Sampling Rounds.
- 2 Soil Sample Results for AOPC Area 26B at the Former Unisys Facility, Great Neck, New York, April, July, and December, 2001 Sampling Rounds.
- 3 Soil Sample Results for AOPC Area 26D at the Former Unisys Facility, Great Neck, New York, April, 2001 Sampling Rounds.
- 4 Soil Sample Results for AOPC Area 24 at the Former Unisys Facility, Great Neck, New York, April, 2001 Sampling Rounds.

- 5 Soil Sample Results for AOPC Area 21 at the Former Unisys Facility, Great Neck, New York, April, July, September, 2001 Sampling Rounds.
- 6 Soil Sample Results for AOPC Area 15 at the Former Unisys Facility, Great Neck, New York, April, July, September, December, 2001 Sampling Rounds.
- 7 Soil Sample Results for AOPC Area FPM-01 at the Former Unisys Facility, Great Neck, New York, April, 2001 Sampling Rounds.
- 8 Soil Sample Results for AOPC Area FPM08 at the Former Unisys Facility, Great Neck, New York, April, July, September and December, 2001 Sampling Rounds.
- 9 Soil Sample Results for AOPC FPM19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December, 2001 Sampling Rounds.
- 10 Demonstration Study Sample Results, Former Unisys Facility, Great Neck, New York.
- 11 Soil Sample Results for Area 7, Former Unisys Facility, Great Neck, New York.
- 12 Sample Results for Area 17 Sump A Bottom, Sump B, and Pipe Terminus, Former Unisys Facility, Great Neck, New York.
- 13 Summary of Closure of Exterior and Interior Areas
- 14 Summary of Waste Disposal from Closure Areas Former Unisys Facility, Great Neck, New York.

Figures

- 1 Site Plan of Exterior AOPCs With Soil Boring Locations and Impacted Soil Boundaries, Former Unisys Facility, Great Neck, New York.
- 2 Location Map of Hazardous Waste Management Units, Former Unisys Facility, Great Neck, New York.
- 3 Location Map of Interior AOPCs, Former Unisys Facility, Great Neck, New York.
- 4 Location Map of AULs, Former Unisys Facility, Great Neck, New York.

Table of Contents

Volume 2

Appendices

- A Waste Characterization Analysis for Excavated Soil
- B Non-Hazardous Waste Manifests
- C Area 21 Photographs
- D Clean Fill Certification Letter
- E Chain of Custody and Laboratory Data Package for April 2001 Soil Sampling Round
- F Chain of Custody and Laboratory Data Package for July 2001 Soil Sampling Round

Volume 3

Appendices

- G Chain of Custody and Laboratory Data Package for September 2001 Soil Sampling Round
- H Chain of Custody and Laboratory Data Package for December 2001 Soil Sampling Round
- I Lab Certification
- J Waste Tickets
- K Hazardous Waste Manifests
- L Declaration of Restrictive Covenants

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Volume I
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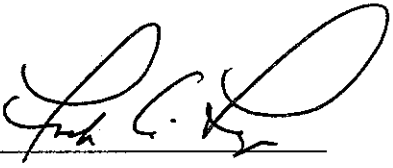
Disclosure Statement

The laws of New York State require that, the corporations which render engineering services in New York, be owned by individuals licensed to practice engineering in the State. Therefore, all engineering services rendered to Lockheed Martin Corporation in New York are being performed by ARCADIS Engineers & Architects of New York, P.C. a New York Professional Corporation qualified to render professional engineering in New York. There is no surcharge or extra expense associated with the rendering of professional services by ARCADIS Engineers & Architects of New York, P.C.

ARCADIS G&M (ARCADIS) is performing all those services, which do not constitute professional engineering and is providing administrative and personnel support to ARCADIS Engineers & Architects of New York, P.C. All matters relating to the administration of the contract with Lockheed Martin Corporation are being performed by ARCADIS pursuant to its Amended and Restated Services Agreement with ARCADIS Engineers & Architects of New York, P.C. All communications should be referred to the designated project manager at ARCADIS.

Statements of Certification

On behalf of Lockheed Martin Corporation, I hereby certify and attest that the areas of potential concern and hazardous waste management units as indicated in this Closure Report have been closed in accordance with the specifications in the February 22, 2001 Part 373 Closure Plan and Closure Work Plan, prepared by ARCADIS and approved by the New York State Department of Environmental Conservation.

SIGNED: 

Frank C. Lenzo, P.E.
ARCADIS Engineers & Architects
of New York, P.C.
License Number 073296, New York

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SIGNED: 

Thomas D. Blackman
Lockheed Martin Corporation

Executive Summary

ARCADIS and ARCADIS Engineers & Architects of New York, P.C., have completed closure activities at the former Unisys facility, located in Great Neck, New York. The former Unisys facility, which operated between 1941 and 1998, consists of approximately 94 acres located at 365 Lakeville Road in Nassau County, New York. The facility was involved in the manufacturing of a wide range of defense-related products. Past manufacturing operations on-site included metal casting, chemical etching, degreasing, plating, painting, metal finishing, machining, and printed circuit board manufacturing. Manufacturing operations no longer occur at the site. At present, the current owner of the site (i.Park), occupies the site and is renovating it for future use as a professional office park.

The closure activities discussed in this report were conducted in conformance with the NYSDEC-approved Closure Plan and Closure Work Plan (CWP) prepared by ARCADIS dated February 22, 2001. The purpose of the closure activities was to obtain closure of nine exterior areas of potential concern (Areas 15, 21, 24, 26A, 26B, 26D, FPM-1, FPM-8, and FPM-19); seven interior areas of potential concern (Areas 1, 2, 9, 11, 28, 30, and 31); and four hazardous waste management units (Areas 7, 8, 13, and 17). Areas requiring additional work were identified in the Closure Plan. Each HWMU and AOPC was listed along with its historical operation and applicable investigation results. The closure activities included one or more of the following; soil sampling and analysis, soil excavation, disposal, and replacement, capping, decontamination of walls floors and sumps, waste removal, and the implementation of activity and use limitations (AULs).

Based on the closure activities listed above, ARCADIS and ARCADIS Engineers & Architects of New York, P.C. have concluded the following:

- Exterior areas of potential concern identified as Areas 24, 26D, and FPM-1 contained no constituents of concern and have not been impacted by past site operations. Because there is no environmental impact or risk associated with these areas, ARCADIS concludes that no further investigation is warranted and these areas are considered closed.
- Exterior areas of potential concern identified as Areas 15, 26A, 26B, FPM-8 and FPM-19 contained soil impacted with various metals. The impacted soils were excavated from these areas (and disposed of in accordance with applicable regulations) and replaced with certified clean fill. Because

impacted soils were removed from the site, ARCADIS concludes that there is no environmental impact or risk associated with these areas. Therefore ARCADIS concludes that no further investigation is warranted and recommends these areas are considered closed.

- Exterior area of potential concern identified as Area 21, contains metals impacted soil at a depth between 5 and 15 feet below grade. A concrete cap was installed above the metals impact soil at a depth of 4 to 5 feet below grade. The metals impacted soil is protected from contact and disturbance by the cap and is stable since there is no mechanism for transport. ARCADIS concludes that Area 21 does not present a risk to the environment or human health and does not warrant further investigation or remediation. However, ARCADIS has implemented an activity and use limitation (AUL) in Area 21, because of the metals present in the soil below the concrete cap.

Interior Areas 1, 2, 7, 8, 9, 11, 13, 17, 28, 30, and 31 were decontaminated in accordance with the CWP. ARCADIS has implemented an AUL in Interior Areas 1, 7, 8, 9, 11, 13, 17, and 31 resulting in partial closure. Final closure will be completed after the building has been demolished and any soils above the CPS have been remediated. ARCADIS considers Interior Areas 2, 28, and 30 to be closed. A summary of the closure activity and status of Interior and Exterior Areas is presented in Table 13. The closure activity rationale for each area is described in the CWP.

1. Introduction

This Closure Report has been prepared by ARCADIS and ARCADIS Engineers & Architects of New York, P.C. to obtain closure of nine exterior "areas of potential concern" (AOPCs), seven interior AOPCs, and four hazardous waste management units (HWMUs) at the former Unisys facility (Site) currently owned by i.Park Lake Success L.L.P. (i.Park), located at 365 Lakeville Road, Nassau County, New York. Closure requirements under 6NYCRR Part 373-3.7 are applicable to the former Unisys facility because more than 1,000 kilograms of hazardous waste were generated in a calendar month while the facility was in operation, and the facility is located over a sole source aquifer in Nassau County, Long Island, New York. The former Unisys facility consists of approximately 94 acres and was in operation between 1941 and 1998. Activities at the site involved the design and manufacturing of a wide range of defense-related products. Past manufacturing processes at the site included metal casting, chemical etching, degreasing, plating, painting, metal finishing, machining, and printed circuit board manufacturing. Chemicals used in these processes included halogenated and non-halogenated hydrocarbon solvents, cutting oils, paints, acids, caustics, and metal plating compounds. Manufacturing operations are no longer conducted at the facility, which at present, is owned by i.Park. The facility is currently undergoing renovations for use as a professional office park.

The closure activities described in this Closure Report were performed in accordance with the New York State Department of Environmental Conservation (NYSDEC) approved "Part 373 Closure Plan" (Closure Plan) and "Closure Work Plan" (CWP) both prepared by ARCADIS, dated February 22, 2001. All closure activities were conducted in consultation with, and approval of Shaun Snee of the NYSDEC. Closure activities were also completed in conformance with the "Health & Safety Plan" prepared by ARCADIS Geraghty & Miller, Inc., dated June 12, 2000, and submitted to the NYSDEC on September 1, 2000.

1.1 Closure Report Objective

The objectives of this Closure Report are to (1) summarize the results of the closure investigations conducted, and (2) describe the specific procedures used to remediate, and close the nine exterior AOPCs, seven interior AOPCs, and four HWMUs under 6NYCRR Part 373-3.7 regulations for Hazardous Waste Management Facilities.

Identification of the nine exterior AOPCs, seven interior AOPCs, and four HWMUs addressed in this Closure Report was based on one or more of the following criteria: (1) documented storage or management of hazardous waste or hazardous materials in the area, (2) evidence of a hazardous material or hazardous waste release in the area, and/or (3) reported history of the use of hazardous waste or hazardous materials in an area with insufficient data to determine if a release occurred and (4) based on comments from interviews with former employees (whose identities were not disclosed).

The specific closure areas included in this Closure Report are as follows:

- Exterior Areas - Areas 26A, 26B, and 26D (cooling tower areas), Area 24 (transformer substation), Area 21 (former 10,000-gallon UST area), Area 15 (lime neutralization pit), Area FPM-1 (blueprint emissions area), Area FPM-8 (soil storage area), and Area FPM-19 (chemical dumping area) (see Figure 1).
- Interior Areas -
 - HWMUs are identified as Area 7 (paint storage room), Area 8 (oil/storage/pump room), Area 13 (hazardous materials storage facility), and Area 17 (reclamation room), (see Figure 2).
 - Other AOPCs are identified as - Area 1 (thin film laboratory), Area 9 (old plating area), Area 11 (process photo lab), Area 31 (foundry basement sump), Area 2 (wet chemistry lab), Area 28 (A/C room), and Area 30 (short order machine shop sumps), (see Figure 3).

1.2 Closure Report Format

This Closure Report provides a summary of the closure activities performed at the Former Unisys site. Section 2 of this Closure Report, "Exterior Closure Activities" describes the soil sampling activities conducted at each exterior AOPC and the laboratory results for the soil samples collected as part of the closure investigation. Section 3 of this Closure Report, "Conclusions for Exterior Areas," includes a summary of the investigation and conclusions as they relate to the nine exterior AOPCs. Section 4 of this report "Interior Closure Activities" describes the approaches used to close the four HWMUs and seven interior AOPCs. Section 5 of this Closure Report "Conclusions for Interior Areas" discusses conclusions regarding the closure of the interior areas of concern. Section 6 "Waste Handling and Disposal" discusses the

origins and fate of various wastes generated during investigation and closure activities.

Tables 1 through 9 contain the laboratory results for each of the nine exterior AOPCs for the April, July, September, and December 2001 sampling rounds. Tables 10 through 13 documents laboratory results for the closure of the interior areas. Figure 1 shows the location of each exterior AOPC, soil boring locations, and boundaries of impacted areas based on the results of four rounds of soil sampling. Figures 2 and 3 show the locations of the HWMUs and the interior AOPCs, respectively. Figure 4 shows the locations of the AULs designated based on the closure activities.

Appendix A contains the analytical results of the waste characterization for exterior soils excavated and disposed of off-site. Non-hazardous waste manifests for disposed soil are provided in Appendix B. Photographs of the installation of a concrete cap in Area 21 are provided in Appendix C. A clean fill certification letter is provided in Appendix D. Appendices E through H contain the chains of custody and laboratory data packages for the April, July, September, and December 2001 exterior soil sampling rounds, respectively. Appendix I contains laboratory certifications, Appendix J contains waste disposal tickets, and Appendix K contains hazardous waste manifests for wastes generated during investigation and closure activities.

2. Exterior Closure Activities

This section of the report contains a description of the general approach regarding the investigation of the exterior AOPCs and the results of that investigation.

2.1 General Approach

As outlined in the Closure Plan and CWP, the exterior closure activities were designed to identify, and horizontally and vertically delineate impacted soils associated with the nine AOPCs and, if necessary, remediate (i.e., excavate, dispose, cap) soils to eliminate or reduce impact to the environment. To identify, and subsequently delineate the vertical and horizontal boundaries of potentially impacted soil, ARCADIS completed four rounds of soil sampling (April, July, September, and December 2001) and collected and analyzed 251 soil samples from the nine AOPCs. Through strategic placement of soil sample locations and depths, ARCADIS delineated the vertical and horizontal boundaries of impacted soils within each area. Soil samples were collected using hand augers for some shallow locations and a van-mounted GeoProbe using direct push technology for deeper applications. All sampling activities were conducted

with ARCADIS personnel present, and in conformance with the Health and Safety Plan prepared by ARCADIS, dated June 12, 2000.

The first round of soil investigation (April 2001) involved the collection of soil samples from a predetermined location or boring (primary grid) as shown in black on Figure 1. Soil samples were analyzed for constituents of concern (COCs) identified for each area in the CWP. If the analytical data indicated that the soil was not impacted greater than the closure performance standard (CPS), the area was eliminated as an AOPC in consultation with the NYSDEC and no further investigation was conducted. In areas where soils were impacted, (i.e., COCs above the CPS), a secondary sampling grid was established in consultation with the NYSDEC. In these cases, additional soil borings were advanced in four compass directions from the original boring. The secondary grid boring spacing (investigation conducted in July 2001) was between 5 and 10 feet outward from the original boring locations. The third (September 2001) and fourth (December 2001) rounds of soil sampling (where necessary) involved the same methodology as the second sampling round to define the horizontal extent of impacted soil. Soil samples from the second, third, and fourth rounds of sampling were analyzed for selected COCs based on the results of the previous rounds of soil sampling and analysis.

ARCADIS contracted Zebra Environmental Corp. (Zebra) to provide direct push equipment for installation of the deeper soil borings. ARCADIS field personnel collected the soil samples. Analytical services for the investigations were provided by Severn Trent Laboratories, Monroe, Connecticut. The analytical methods used were consistent with the analytical methods identified in the Closure Plan and CWP.

The method used to determine remediation and/or closure recommendation was based on the results of soil sampling. If, based on soil sample results, no COCs were identified in excess of the Closure Performance Standards (CPS) in an AOPC, no further investigation was conducted and closure was recommended. If COCs were identified in excess of the CPS in an AOPC, additional sampling was conducted to delineate the horizontal and vertical extent of impact. Once the horizontal and vertical boundaries of impact were determined, the impacted soil was excavated and replaced with certified clean fill and no further investigation was conducted, and closure was recommended.

Based on the laboratory results of the first round of soil sampling, which was conducted on April 26, 27, and 30, 2001, several AOPCs (Area 24, Area 26D, and FPM-1) were eliminated as areas of potential concern because COCs were either not

detected or were detected below CPS. The remaining AOPCs were re-sampled on July 12 and 13, 2001; September 25, 2001; and December 18, 2001 to more accurately delineate the horizontal and vertical extent of impacted soil in each of these areas.

With the exception of Area 21, AOPCs where COCs exceeded the CPS were identified and the impacted soil was excavated and properly disposed. Following waste characterization, the excavated soil was disposed as non-hazardous. In Area 21, impacted soil with minor CPS exceedances for metals at 5 to 15 feet below land surface was not removed. In accordance with NYSDEC approval, a concrete slab was placed above it and the area has been restricted with an AUL. To implement the AULs, a restrictive covenant has been established. The restrictive covenant mandates specific procedures to be followed prior to breaching the concrete slab. A site plan that clearly identifies AUL areas (Figure 4) has been provided to i.Park, and is a part of the restrictive covenant. An AUL has been implemented in Area 21. The AUL is described in Section 6.3.

2.2 Exterior AOPCs

Below is a summary of the closure investigation and results for each of the nine exterior AOPCs.

2.2.1 Area 26A

Area 26A is identified as the former cooling tower area, northeast of the administration building (see Figure 1). This area was initially identified as an AOPC because it formerly contained a cooling tower and because previous investigations revealed that soil within Area 26A contained zinc above the CPS. In accordance with the CWP, the investigation of this AOPC involved the collection of soil samples from three soil boring locations (26A-B, 26A-C, and 26A-D). In April 2001, two soil samples were collected from each soil boring at 0 to 1 foot and 4 to 5 feet below land surface, for a total of six soil samples. In accordance with the CWP, the six soil samples were analyzed for zinc (Zn). The soil sample locations are shown on Figure 1. Zinc was not detected in excess of the CPS in the three soil samples collected from the 4 to 5-foot depth. Zinc was identified in excess of the CPS (of 55.7 milligrams per kilogram (mg/kg)) in the three shallow soil samples collected from the 0 to 1-foot depth. Zinc was identified at 188 mg/kg in Soil Sample 26A-B/0-1; 83.5 mg/kg in Soil Sample 26A-C/0-1; and 127 mg/kg in Soil Sample 26A-D/0-1 (see Table 1).

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Since the CPS for zinc was exceeded in the shallow soil samples collected in April 2001, additional soil samples were proposed to further delineate the horizontal extent of zinc impacts. In accordance with the CWP, a secondary sampling location grid was established based on horizontal increments of ten feet outward from the initial soil boring locations. The locations and depth of the additional soil samples were approved by the NYSDEC during a meeting on July 6, 2001. The samples were collected from the 0 to 1-foot depth to delineate the horizontal extent of the zinc-impacted soil in Area 26A. The locations of the six additional soil borings are identified in Figure 1.

On July 12, 2001, six additional soil samples (26A-E through 26A-J) were collected in Area 26A. Zinc was detected in excess of the CPS (55.7 mg/kg) in all six soil samples. Zinc ranged from 102 mg/kg to 250 mg/kg (see Table 1). Based on the laboratory results, ARCADIS extended the sampling grid by 10-foot increments and on September 25, 2001, collected three additional soil samples (26A-M, 26A-N, and 26A-O) from the 0 to 1-foot depth. Zinc was detected above the CPS only in soil sample 26A-O (see Table 1). Having determined the horizontal boundary of the zinc-impacted soil, ARCADIS installed three additional soil borings (26A-E1, 26A-G1, and 26A-H1) in December 2001 to determine the vertical boundary. Three soil samples were collected from each boring at 1 to 2 feet, 2 to 3 feet and 3 to 4 feet below grade and analyzed for zinc. According to the laboratory results, only one of the nine samples (26A-G1, 2-3 feet) contained zinc in excess of the CPS. All of the other samples did not exceed the CPS for zinc. Sample 26A-G1, 2-3 feet contained zinc at 82.8 ppm as compared to the CPS of 55.7 (see Table 1).

Based on the four rounds of soil sampling, ARCADIS determined the vertical and horizontal boundary of the zinc-impacted soil. Zinc impacted soil was present in the 0 to 1-foot depth (and at the 2 to 3-foot depth by soil boring 26A-G1) and was confined to an area of 2,585 square feet. The horizontal boundary of the zinc-impacted soil is depicted by the light blue dashed line on Figure 1.

After consultation with the NYSDEC, ARCADIS recommended the area be remediated by removing the top 1-foot of soil (and down to 3 feet at and in the vicinity of Soil Boring 26A-G1) from the delineated area, and replacing it with certified clean fill. The NYSDEC concurred with this recommendation and on February 23, 2002 Area 26A was remediated as described above. The excavated soil was sampled for waste characterization and temporarily staged on-site (placed on poly sheeting and covered with poly sheeting) pending laboratory analysis. Based on laboratory analysis, the soil was deemed to be non-hazardous (see Appendix A), and on March 1, 2002, the

soil was disposed of at Clean Earth of Philadelphia, Pennsylvania. Non-hazardous waste manifests for this material are provided in Appendix B.

In summary, after appropriate delineation and in consultation with the NYSDEC, ARCADIS has removed the zinc-impacted soil associated with Area 26A, and believes that clean closure requirements have been met. Therefore, ARCADIS recommends no further action and closure of Area 26A.

2.2.2 Area 26B

Area 26B is identified as the cooling tower area, northeast of the manufacturing building, and east of the service area (see Figure 1). This area was initially identified as an AOPC because it formerly contained a cooling tower, and because previous investigations of Area 26B revealed concentrations of arsenic and copper in excess of the CPS. In accordance with the CWP, the investigation of this AOPC involved the collection of soil samples from three soil borings locations (26B-B, 26B-C, and 26B-D). In April 2001, two soil samples were collected from each of the three borings at 1 foot and 5 feet below land surface, for a total of six soil samples. In accordance with the CWP, the soil samples were analyzed for arsenic (As) and copper (Cu). The soil sample locations are shown in Figure 1. According to the laboratory results, copper was not detected in excess of the CPS (of 50 mg/kg) in any of the six soil samples. Arsenic was detected in excess of the CPS (of 12 mg/kg) in only one shallow sample (26B-D/0-1), which contained arsenic at 18 mg/kg (see Table 2).

Since the CPS for arsenic was exceeded in one of the shallow samples collected in April 2001, additional soil samples were proposed to further delineate the horizontal extent of arsenic impacts. In accordance with the CWP, a secondary sampling location grid was established based on horizontal increments of 10-foot outward from the initial soil boring locations. The locations and depth of the additional soil samples were approved by the NYSDEC in a meeting on July 6, 2001. The additional soil samples were collected from the 0 to 1 foot depth to delineate the horizontal extent of arsenic-impacted soil in Area 26B. The locations of the two additional soil borings are shown on Figure 1.

On July 12, 2001, two additional soil samples (26B-E and 26B-F) were collected in Area 26B. Arsenic was not detected in excess of the CPS in the two additional soil samples (see Table 2). To delineate the depth of the arsenic impacted soil, ARCADIS installed one additional boring (26B-D1) and collected soil samples from 1 to 2 feet, 2 to 3 feet and 3 to 4 feet below grade in December 2001. Laboratory results revealed

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that arsenic was below the CPS in all of the samples. Based on the three rounds of soil sampling at Area 26B, ARCADIS concluded that arsenic was present above the CPS in Area 26B, and was confined to the surficial soil layer (0 to 1-foot depth), and was limited to a horizontal area of 280 square feet. The horizontal boundaries of the impacted soil are shown on Figure 1.

After consultation with the NYSDEC, ARCADIS recommended the area be remediated by removing the top 1-foot of soil from the delineated area, and replacing it with certified clean fill. The NYSDEC concurred with this recommendation and on February 23, 2002 Area 26B was remediated as described above. The excavated soil was sampled for waste characterization and staged on-site (placed on poly sheeting and covered with poly sheeting) pending laboratory analysis. Based on laboratory analysis, the soil was deemed to be non-hazardous (see Appendix A), and on March 1, 2002, the soil was disposed of at Clean Earth of Philadelphia, Pennsylvania. Non-hazardous waste manifests for this material are provided in Appendix B.

In summary, after appropriate delineation and in consultation with the NYSDEC, ARCADIS has removed the arsenic-impacted soil associated with Area 26B, and believes that clean closure requirements have been met. Therefore, ARCADIS recommends no further action and closure of Area 26B.

2.2.3 Area 26D

Area 26D is identified as the cooling tower area southeast of the foundry building (see Figure 1). This area was initially identified as an AOPC because it formerly contained a cooling tower, and because previous investigations of Area 26D revealed concentrations of copper, zinc, and mercury above the CPSs. In accordance with the CWP, the investigation of this AOPC involved the collection of soil samples from three soil boring locations (26D-B, 26D-C, and 26D-D). In April 2001, two soil samples were collected from each of the three soil borings at 1 foot and 5 feet below land surface, for a total of six soil samples. In accordance with the CWP, the six soil samples were analyzed for copper, zinc, and mercury. The soil sample locations are shown on Figure 1. Laboratory analytical results indicate that the target COCs were not detected in excess of the CPSs (see Table 3). Based on the laboratory results, ARCADIS concluded that Area 26D was not impacted by the target COCs and additional investigation was not warranted. The NYSDEC concurred with this conclusion in a meeting on July 6, 2001. Therefore, ARCADIS recommends no further action and closure of Area 26D.

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2.2.4 Area 24

Area 24 is identified as the substation/transformer area, south of the boiler building (see Figure 1). This area was initially identified as an AOPC because it formerly contained an electrical substation, which had been operated since 1941. Concern centered around potential releases of polychlorinated biphenyls (PCBs) to the area from routine transformer operation and maintenance, or incidental spills. In accordance with the CWP, the investigation of this AOPC involved the collection of soil samples from six soil borings (24A through 24F). In April 2001, one soil sample was collected from a depth of 6-inches below grade from each of the six soil boring locations. In accordance with the CWP, the six soil samples were analyzed for PCBs. The soil sample locations are shown on Figure 1. According to the laboratory results for the six soil samples collected from Area 24, PCBs were not detected in excess of the CPS (of 1000 ug/kg) (see Table 4). Based on the laboratory results, ARCADIS concluded that Area 24 was not impacted and additional investigation was not warranted. The NYSDEC concurred with this conclusion in a meeting on July 6, 2001. ARCADIS therefore, recommends no further action and closure of Area 24.

2.2.5 Area 21

Area 21 is identified as the former underground storage tank (UST) area, southeast of the foundry building (see Figure 1). This area was initially identified as an AOPC because it formerly contained two 15,000-gallon USTs and one 10,000-gallon UST. The USTs formerly contained fuel oil. In accordance with the CWP, the investigation of this AOPC involved the collection of soil samples from three soil boring locations (21D, 21E, and 21F). In April 2001, four soil samples were collected from each of the three soil borings at 1 foot, 5 feet, 10 feet and 15 feet below land surface. Each of the 16 soil samples were analyzed for semi-volatile organic compounds (SVOCs), copper, and zinc, which were found in previous investigations in excess of the CPSs. The soil sample locations are shown on Figure 1. According to the laboratory results, only one (dibenzo[a,h] anthracene) of the 70 SVOCs analyzed for was detected above the CPS; This occurred in only two samples (21E 0-1 and 21E 4-5). In addition, the CPSs for copper and zinc were exceeded in soil samples collected from the 21F soil boring (Samples 21F 0-1, 21F 4-5, and 21F 9-10) (see Table 5).

Since the CPS for copper and zinc was exceeded in the shallow soil samples collected in April 2001, additional soil samples were proposed to further delineate the horizontal and vertical extent of copper and zinc. Only one of 70 SVOCs was detected above the CPS. Based on discussions with NYSDEC, the additional sampling and analysis for

ARCADIS

SVOCs were not necessary. In accordance with the CWP, a secondary sampling location grid was established. The three additional soil borings were installed around 21F, since this was the only location that exceeded the CPS for copper and zinc. The locations and depths of the additional soil samples were approved by the NYSDEC in a meeting on July 6, 2001. The locations of the three additional soil borings are shown on Figure 1.

On July 12, 2001, three additional soil borings (21G, 21H, and 21I) were installed and three soil samples from each boring were collected from 1 foot, 5 feet, and 10 feet below grade. Zinc and copper were not detected in excess of the CPS in the samples collected from the 1-foot depth. Copper and zinc were detected in concentrations above the CPS in samples 21G (9 to 10 foot depth) and sample 21H (4 to 5 feet and 9 to 10 feet depth).

As discussed with and agreed by the NYSDEC, ARCADIS extended the depth of Soil Boring 21G down to 26 feet below grade and collected two additional soil samples; one at 21-feet and the second at 26-feet below land surface. These two soil samples were analyzed for VOCs and SVOCs to evaluate potential impacts from the foundry basement sump (interior AOPC Area 31), located north of Area 21. VOCs and SVOCs were not detected in excess of the CPS in the deep samples (21G-21.5 feet and 21G-26.5 feet) indicating no impact to soil associated with the foundry sump.

Based on the laboratory results, on September 25, 2001, ARCADIS G&M installed two additional soil borings (21J and 21K) to further delineate the horizontal and vertical extent of the copper and zinc-impacted soil. The soil borings were located outward at 10-foot intervals from the 21F location. Soil samples were collected at 5-foot and 10-foot depths. Copper was detected in excess of the CPS in Sample 21J at the 5 and 10-foot depths, and zinc was detected in excess of the CPS in Sample 21J at the 5-foot depth. Copper and zinc were not detected above the CPS in Sample 21K (see Table 5).

To further delineate the vertical extent of impacted soil, ARCADIS installed two additional borings (21G-1 and 21J-1) in December 2001. Three soil samples were collected from each boring at 10, 15, and 20 feet below grade. The soil samples were analyzed for copper and zinc. Based on the laboratory results, copper and zinc were present in excess of the CPS at the 10 feet and 15 feet depths; copper and zinc were not detected above the CPS at the 20-foot depth (see Table 5). Based on the four rounds of soil sampling, the vertical boundary of the copper and zinc-impacted soil extends from approximately 5 feet to 15 feet below grade. The horizontal boundary of copper and

ARCADIS

zinc-impacted soil was limited to an approximately 804 square foot area as shown on Figure 1.

ARCADIS considered the following mitigating factors in determining the best approach to remediate impacted soil in Area 21: (1) shallow soils were not impacted, thereby minimizing the risk of human exposure to impacted soils (2) metals are not a COC in groundwater at the site, (3) future building plans for the area are limited to a paved parking lot, (4) with a concrete slab in place at the 5-foot depth there is no mechanism (such as storm water recharge) to transport the metals from the soil, (5) the depth to which soil would have to be excavated to remove the metal-impacted soil would have most likely compromised the structural integrity of the building foundation adjacent to Area 21, and (6) a 16-inch diameter clay pipe (used for the discharge of roof drains to the recharge basin) was located inside the proposed area of excavation. After consultation with the NYSDEC, ARCADIS recommended that impacted soil be left in place, and a reinforced concrete cap be placed at the 5-foot depth to prevent potential future disturbance of the soil, and minimize the infiltration of storm water, and the area be designated for an activity and use limitation (AUL). The NYSDEC concurred with this recommendation and on March 5, 2002, the top five feet of soil (which was not impacted) was removed from Area 21 and staged next to the excavation. A 1-foot thick slab of reinforced concrete was poured into the excavation, which remained open until the following day to allow the concrete to cure. On March 6, 2002 the excavated soil was returned to the excavation and the area was graded.

During the excavation of Area 21, the 16-inch diameter clay pipe (approximately 5.5 feet below grade) was exposed, and observed to be cracked. A water-tight repair to the pipe was completed prior to installing the concrete slab. Photographs of the excavation of Area 21, the pipe repair, pouring of the concrete slab, and backfilling are provided in Appendix C.

In summary, ARCADIS has capped the copper and zinc-impacted soil associated with Area 21. In consultation with, and agreed by the NYSDEC, ARCADIS recommends no further investigative or remedial action. However, since metals impacted soil remains in Area 21 (at depth between 5 and 15 feet below grade and beneath a concrete cap), the area is closed with an AUL in place. As a condition of the AUL, certain procedures will need to be followed in the event that the area is disturbed in the future. ARCADIS recommends the following: (1) the area should be clearly identified on a site plan (and recorded in the Deed) as an AUL area, (2) in the event that the concrete cap located five-feet below grade is ever breached, immediate notifications should be made to i.Park, Lockheed Martin, and the NYSDEC, (3) Section 2.6 of this report

should be reviewed to identify the COCs present and other relevant information concerning Area 21, (4) a health and safety plan should be prepared and implemented to protect workers from potential exposure during their repair of the breach or during other construction activities that may require breaching the slab, and (5) restoration of the breached area of the cap should be conducted as soon as possible to prevent potential additional disturbance of the soil.

2.2.6 Area 15

Area 15 is identified as the lime neutralization pit, east of the manufacturing building (see Figure 1). This area was initially identified as an AOPC because it formerly contained a lime-neutralization pit, and previous investigations found SVOCs, chromium, mercury and zinc in excess of their respective CPSs. In accordance with the CWP, the investigation of this AOPC involved the collection of soil samples from three soil boring locations (15A, 15B, and 15C). In April 2001, four soil samples were collected from each boring at 1 foot, 5 feet, 10 feet, and 15 feet below land surface for a total of 12 soil samples. In accordance with the CWP, the soil samples were analyzed for SVOCs, chromium, mercury, and zinc. The soil sample locations are shown on Figure 1. According to the laboratory results, several SVOCs were detected in some of the soil samples in excess of the CPS, predominantly at the 0 to 1 foot depth. As discussed with the NYSDEC, the SVOCs detected are presumed to be due to asphalt, which may have been present in the shallow soil samples (given that the SVOC CPS exceedances were primarily limited to the samples collected from the 0 to 1 foot depth and the presence of SVOCs is not associated with the historical use of Area 15 as a lime-neutralization pit). Mercury, chromium, and zinc were detected in excess of their CPSs in all three shallow soil samples collected from the 0 to 1-foot depth (see Table 6).

Since the CPSs for mercury, chromium, and zinc were exceeded in the shallow soil samples collected in April 2001, additional soil samples were proposed to further delineate the horizontal extent of mercury, chromium, and zinc impacts. In accordance with the CWP, a secondary sampling location grid was established based on horizontal increments of 10-feet outward from the initial soil boring locations. One soil sample was collected from each boring at the 1-foot depth and was analyzed for mercury, chromium, and zinc. The locations and depth of the additional soil samples were approved by the NYSDEC in a meeting on July 6, 2001. The locations of the additional soil samples are shown on Figure 1.

On July 12, 2001, six additional soil borings (15D through 15I) were installed. Chromium was not detected in excess of the CPSs in the six additional soil samples. Mercury was detected in one soil sample (15I 0-1) at 0.22 mg/kg, marginally exceeding the CPS of 0.2 mg/kg. Based on discussions with NYSDEC, it was agreed that no further sampling for mercury was necessary. Zinc was detected in one soil sample (15F 0-1) at 63.5 mg/kg, exceeding the CPS of 55.7 mg/kg. On September 25, 2001, ARCADIS collected five additional samples (15J through 15N), all from a depth of 0 to 1 foot below land surface to further delineate the horizontal boundary of zinc-impacted soil in Area 15. Zinc was detected in Samples 15J through 15M in excess of the CPS (see Table 6). To delineate the vertical boundary of zinc-impacted soil, in December 2001, ARCADIS installed two additional borings (15B1 and 15J1). Soil samples were collected from 1 to 2 feet, 2 to 3 feet, and 3 to 4 feet below grade. The soil samples were analyzed for zinc. Zinc was detected in excess of the CPS in Sample 15J1 (1-2) and 15J1 (3-4) (see Table 6). Based on the four rounds of sampling, ARCADIS determined the vertical and horizontal boundaries of the impacted soil. Impacted soil was confined to the upper two feet of soil in an approximate 1,031 square-foot area, with a localized area having impacted soil down to 3 to 4 feet below grade by Boring 15J. The boundaries of the impacted soil are shown in Figure 1.

After consultation with the NYSDEC, ARCADIS recommended the area be remediated by removing the top two feet of soil in the overall impacted area, and to 4 feet below land surface at Boring 15J1, and replacing the excavated material with certified clean fill. The NYSDEC concurred with this recommendation and on February 26, 2002 the soil was excavated and replaced with clean fill. The excavated soil was sampled for waste characterization and staged on-site (placed on poly sheeting and covered with poly sheeting) pending laboratory analysis. Based on laboratory analysis, the soil was determined to be non-hazardous (see Appendix A) and, on March 1, 2001, the soil was disposed of at Clean Earth of Philadelphia, Pennsylvania. Non-hazardous waste manifests for this material are provided in Appendix B.

In summary, ARCADIS has removed the impacted soil associated with Area 15 in consultation and with the concurrence of the NYSDEC, and believes that clean closure requirements have been met. ARCADIS recommends no further action and closure of Area 15.

2.2.7 Area FPM-1

Area FPM-1 is identified as the potential blueprint emissions area, east of the service building, south of the administration building (see Figure 1). This area was initially

identified as an AOPC because a vent line from the blueprint room was reportedly directed towards this area. In accordance with the CWP, the investigation of this AOPC involved the collection of soil samples from two soil boring locations (FPM-1A and FPM-1B). In April 2001, three soil samples were collected from each of the two borings at 1 foot, 5 feet and 10 feet below land surface, for a total of six soil samples. In accordance with the CWP, the six soil samples were analyzed for nitrate and nitrogen. Although closure performance standards were not developed for nitrate or nitrogen in the CWP, the laboratory results revealed nitrate at no greater than 1.22 mg/kg and nitrogen at no greater 8.14 mg/kg (see Table 7). Based on the laboratory results of the samples collected, ARCADIS concluded that Area FPM-1 was not impacted and no further investigation was warranted. The NYSDEC agreed with this conclusion in a meeting on July 6, 2001 and no further action and closure of Area FPM-1 is recommended.

2.2.8 Area FPM-8

Area FPM-8 is identified as the soil storage area, south of the manufacturing building, north of the boiler building (see Figure 1). This area was initially identified as an AOPC because contaminated soil excavated from an old plating room was reportedly staged in this area. In accordance with the CWP, the investigation of this AOPC involved the collection of soil samples from five soil boring locations (FPM-8A through FPM-8E). In April 2001, four soil samples were collected from each of the five soil borings locations at 1 foot, 5 feet, 10 feet, and 15 feet below land surface, for a total of 20 samples. In accordance with the CWP, the soil samples were analyzed for VOCs, SVOCs, and priority pollutant metals (PPMs). The soil sample locations are shown on Figure 1. According to the laboratory results, VOCs were not detected in excess of the CPSs. One SVOC (dibenzo[a,h]anthracene) was detected in excess of the CPS in several of the soil samples collected. As discussed with, and agreed to by, the NYSDEC, the compound detected is presumed to be due to asphalt, which may have been present in the sample (given that it is an asphalt-related compound and not associated with the historical use of Area FPM-8). Slight exceedances of the CPS were identified predominantly in the shallow (1-foot) soil samples collected from FPM-8B, FPM-8D and FPM-8E for one or more of the following metals: arsenic, mercury, and zinc (see Table 8).

Since the CPSs for the above referenced metals were exceeded, additional soil samples were proposed to further delineate the horizontal extent of the presence of the specified metals impacts. Since the metals were identified only in the 1-foot depth and not in the 5-foot, 10-foot or 15-foot depths (with the exception of zinc at the 5-foot depth in

FPM-8B), five additional soil samples (FPM-8F through FPM-8J) were collected from the 1-foot depth in July 2001. In accordance with the CWP, secondary sampling location grid was established based on horizontal increments of 10 feet outward from the initial soil boring locations. The samples were analyzed for one or more of the metals previously detected, based on their presence in the previous sample locations. The locations and depth of the additional samples were approved by the NYSDEC in a meeting on July 6, 2001. The locations of the additional five soil boring locations are shown on Figure 1. Arsenic and zinc were detected in excess of the CPSs in Samples FPM-8H and FPM-8I at the 0 to 1 foot depth (see Table 8). Mercury was detected slightly in excess of the CPS in samples FPM-8G and FPM-8H at the 0-1 foot depth. Based on laboratory results from the second (July 2001) sampling round, ARCADIS collected two additional soil samples (FPM-8K and FPM-8L) from the 0 to 1 foot depth in September 2001, to further delineate arsenic, mercury and zinc impacts. Arsenic and zinc were not detected in excess of the CPS in the two additional samples. Mercury was detected in excess of the CPS in Sample FPM-8L at 0-1 foot depth (see Table 8).

To further delineate the vertical boundaries of the impacted soil, ARCADIS installed two additional borings (FPM-8H1 and FPM-8L1) in December 2001. Soil samples were collected from 1 to 2 feet, 2 to 3 feet and 3 to 4 feet below grade (to preclude having to collect end-point samples). The 6 soil samples were analyzed for arsenic and zinc. Because arsenic and zinc were the most prevalent analytes detected (in all areas) during the closure investigations, they were used as indicator analytes for this area (FPM-8) for the December 2001 round. Arsenic was not detected above the CPS in any of the samples. Zinc slightly exceeded the CPS in Sample FPM-8H1 at the 3- to 4-foot depth (see Table 8). Based on four rounds of soil sampling, ARCADIS determined the vertical and horizontal boundaries of the impacted soil to be at the 0 to 1-foot depth with a localized area at FPM-8H1 (3 to 4 feet). The horizontal boundary of the impacted area was confined to an 896 square foot area (see Figure 1).

After consultation with, and approval from the NYSDEC, ARCADIS recommended removing the top 1-foot of soil in the overall impacted area, and down to approximately 4 feet at boring FPM-8H1 and replacing the excavated soil with certified clean fill. The NYSDEC concurred with this recommendation and on February 26, 2002 the soil was excavated and replaced with certified clean fill. The impacted soil was sampled for waste characterization and staged on-site (placed on poly sheeting and covered with poly sheeting) pending laboratory analysis. Based on laboratory analysis, the soil was determined to be non-hazardous (see Appendix A) and was removed on March 1, 2002. The soil was disposed of at Clean Earth of

ARCADIS

Philadelphia, Pennsylvania. Non-hazardous waste manifests for this material are provided in Appendix B.

In summary, ARCADIS has removed the impacted soil associated with Area FPM-8 in consultation and with the concurrence of the NYSDEC, and believes that clean closure requirements have been met and recommends no further action and closure of Area FPM-8.

2.2.9 Area FPM-19

Area FPM-19 is identified as the chemical dumping area, south of the manufacturing building, north of the foundry building (see Figure 1). This area was initially identified as an AOPC because chemicals and/or chemical residues were reported to be formerly dumped in this area. In accordance with the CWP, the investigation of this AOPC involved the collection of soil samples from ten soil borings (FPM-19A through FPM-19J). In April 2001, four soil samples were collected from each soil boring at 1 foot, 5-foot, 10 feet, and 15 feet below land surface for a total of 40 soil samples. In accordance with the CWP, the soil samples were analyzed for VOCs, SVOCs, and priority pollutant metals. The soil sample locations are shown on Figure 1.

No VOCs were detected in excess of the CPS. SVOCs were detected in excess of the CPS in most of the borings (see Table 9). However, as discussed with and agreed by the NYSDEC, the group of SVOCs detected are typically found in asphalt. It is presumed that the SVOCs detected are due to asphalt, which may have been present in the samples (given that they are asphalt-related and not associated with the historical use of Area FPM-19). In addition, several metals (arsenic, copper, mercury, and zinc) were detected in some of the soil samples, predominantly at the 0 to 1-foot depth (see Table 9).

Since the CPSs for the referenced metals were exceeded in the shallow soil samples collected in April 2001, additional soil samples were proposed to further delineate the metals impact. In accordance with the CWP, a secondary sampling location grid was established based on horizontal increments of 10-feet outward from the initial soil boring locations. Based on the previous sample results, the samples were collected from the 0 to 1-foot depth. The locations, depths, and analytical parameters were approved by the NYSDEC during a meeting on July 6, 2001. The locations of the additional 13 soil samples (FPM-19K through FPM-19W) are shown in Figure 1.

ARCADIS

Volume I
Closure Report,
Former Unisys
Facility, Great Neck,
New York

None of the four metals (arsenic, copper, mercury, or zinc) were detected in excess of the CPS in Soil Samples FPM-19K, FPM-19L, or FPM-19U. Exceedances of the CPS for one or more of the metals were identified in the remaining 10 soil samples (see Table 9). To further delineate the horizontal boundary of the metals impacts, two additional soil samples were collected (FPM-19X and FPM-19Y) on September 25, 2001. These samples were collected from the 0-1 foot depth and were analyzed for arsenic, mercury and zinc (as indicator analytes). Based on the laboratory results, mercury and zinc were identified in excess of the CPS in both samples; and arsenic was identified in excess of the CPS in FPM-19X (see Table 9).

To further delineate the horizontal and vertical boundaries of impacted soil, six additional soil borings (FPM-19C1, FPM-19D1, FPM-19Z1, FPM-19Z2, FPM-19Z3, and FPM-19Z4) were installed in December 2001. Three soil samples were collected from each boring from 1 to 2 feet, 2 to 3 feet, and 3 to 4 feet below grade (to preclude end-point sampling). The 18 samples were analyzed for mercury and zinc (as indicator analytes). Mercury and zinc were detected in excess of their respective CPSs at the 1 to 2-foot depths in two of the 18 samples (FPM-19Z3 and FPM-19Z4).

Based on the four rounds of soil sampling, ARCADIS determined the vertical and horizontal boundary of the metals-impacted soil. Impacted soil was present in the 0 to 1-foot depth (and 1 to 2-foot depths by FPM-19Z3 and FPM-19Z4). The impacted soil was confined to an area of approximately 2,277 square feet. The horizontal boundary of the impacted soil is shown in Figure 1.

After consultation with the NYSDEC, ARCADIS recommended removing the top 1 foot of soil from the overall impacted area of FPM-19 and to two feet by FPM-19Z3 and FPM-19Z4) and replacing it with clean fill. The NYSDEC concurred with this recommendation and on February 26, 2002 the impacted soil was excavated and replaced with certified clean fill. The impacted soil was sampled for waste characterization and staged on-site (on poly sheeting and covered with poly sheeting) pending laboratory analysis. Based on the laboratory analysis, the soil was determined to be non-hazardous (see Appendix A) and on March 1, 2002, was disposed of at Clean Earth of Philadelphia, Pennsylvania. Non-hazardous waste manifests are provided in Appendix B.

In summary, ARCADIS has removed the impacted soil associated with Area FPM-19 in consultation and with the concurrence of the NYSDEC, and believes that the clean closure requirements have been met and recommends no further action and closure of Area FPM-19.

3. Conclusions for Exterior Areas

ARCADIS has conducted subsurface soil investigations of nine exterior AOPCs at the former Unisys facility in Great Neck, New York. The subsurface soil investigation closure activities were performed in accordance with the NYSDEC approved Closure Plan and CWP prepared by ARCADIS G&M dated February 22, 2001, and all follow-up soil sampling activities were approved by the NYSDEC prior to their implementation.

Based on the results of the subsurface soil investigations ARCADIS concludes the following:

- No COCs were identified in soil samples collected from Area 26D (cooling tower area, southeast of the foundry building), Area 24 (substation/transformer area, south of the boiler building), and Area FPM-1 (blue print emissions area, east of the service building, south of the administration building). ARCADIS concludes, in consultation with the NYSDEC, that no further investigation is warranted and recommends that these three areas be closed.
- Metals-impacted soils were identified in Areas 26A, 26B, 15, FPM-8, and FPM-19. The impacted soils were mostly confined to the top 1-foot of soil. After consultation with, and agreed by the NYSDEC, the impacted soils from these areas were excavated and replaced with certified clean fill (see Appendix D). The excavated soils were analyzed for waste characteristics and were determined to be non-hazardous. The excavated soils were disposed of under non-hazardous waste manifest procedures at Clean Earth of Philadelphia, Pennsylvania. ARCADIS concludes that since the impacted soils associated with Areas 26A, 26B, 15, FPM-8 and FPM-19 have been removed from the site in consultation with the NYSDEC, there is no remaining impact or risk associated with Areas 26A, 26B, 15, FPM-8, and FPM-19 and they be considered remediated and closed.
- Metals-impacted soil was identified at the 5, 10 and 15-foot depths in Area 21. Impacted soils to 5 feet below grade were excavated and backfilled. Due to a number of mitigating factors (see Section 2.6) excavation of the soil below 5 feet was not selected as the best remedial alternative; however, to prevent potential migration of metals present in the soil, and future disturbance of the impacted soil, a 1-foot thick concrete cap was installed at 5 feet below grade over the impacted area and backfilled. The metals-impacted soil is stable since

there is no water source or other mechanism of transport, and is protected from contact and disturbance by the concrete cap. ARCADIS concludes, in consultation with the NYSDEC, that Area 21 does not present a risk to the environment or human health, and does not warrant further investigation or remediation. Since metals-impacted soil remains in Area 21 (at a depth of 5 to 15 feet below grade and beneath a concrete cap), an AUL has been implemented for Area 21. As such, certain procedures should be followed in the event that the area is disturbed in the future. ARCADIS recommends the following: (1) the area should be clearly identified on a site plan as an AUL, (2) if the concrete cap is breached, immediate notification should be made to i.Park, Lockheed Martin, and the NYSDEC, (3) Section 2.6 of this closure report should be reviewed to identify the COCs present and other relevant information concerning Area 21, (4) a health and safety plan should be prepared and implemented to protect workers from potential exposure during their repair of the breach or during other construction activities, and (5) restoration of the breached area of the cap should be conducted as soon as possible to prevent potential additional disturbance of the soil.

A summary of the closure activity and status of the exterior areas is presented in Table 13.

4. Interior Closure Activities

The following is a discussion of the closure activities and conclusions associated with the interior AOPCs and HWMUs.

4.1 General Approach

The Closure Plan provides a detailed description of the approaches used to close the interior AOPCs and HWMUs. A key consideration in the Closure Plan strategy for the interior closure activities includes a determination of whether or not the building where the interior area is located will be demolished in the near future. Based on i.Park's redevelopment and leasing plan, the buildings where the four HWMUs (Figure 2) and seven interior AOPCs (Figure 3) are located will not be demolished in the near future. A second key consideration in the Closure Plan strategy for the interior closure activities was consideration of existing soil quality data from beneath the slab foundation for each AOPC. AOPCs where existing data did not indicate impacted soil beneath the slab only required decontamination of the internal area before closure could be recommended; areas where soil impacts were detected below the slab required

an AUL and deferral of closure until the building was demolished. Findings from previous investigations conducted by EMCON are presented in the Closure Plan. Locations of borings installed by EMCON are shown in Figures 2 and 3. As a result, the following approaches were used for each interior AOPC/HWMU in accordance with the Closure Plan and CWP:

1. Area 1 (Thin Film Laboratory): Defer final closure and implement an activity and use limitation (AUL).
2. Area 9 (Old Planting Area), Area 11 (Process Photo Lab), and Area 31 (Foundry Basement Sump): Decontaminate area, defer final closure, and implement an AUL.
3. Area 7 (Paint Storage Room), Area 8 (Oil Storage Pump Room), Area 13 (Hazardous Materials Storage Facility) and Area 17 (Reclamation Room): Decontaminate area, defer final closure, install new floor covering, and implement an AUL.
4. Area 2 (Wet Chemistry Lab), Area 28 (A/C Room Sump) and Area 30 (Short Order Machine Shop): Decontaminate area and recommend final closure.

Areas where AULs will be implemented were surveyed so that they could be located in the future after the structure is demolished. The survey is included as Figure 4.

4.1.1 Decontamination

In general, the CWP specified decontamination by pressure washing the floors and/or sump walls with a specified (see Section 4.1.1.1 below) amount of water per square foot to remove contaminants. To decontaminate the closure areas in accordance with the CWP, each area was measured in the field to determine the amount of wash water required. After measuring the area to be decontaminated, the closure areas were swept in an effort to remove surficial debris. Water was applied to the floor in each closure area before sweeping to suppress dust formation in the work areas. All solid debris was collected and containerized in 55-gallon drums. Standing water in sumps was removed and placed in dedicated containers. Once debris and standing water were removed, the floors and/or sumps were decontaminated with pressure washers using Alconox detergent and potable water. During decontamination wash water was

contained in the closure areas by using temporary berms consisting of plastic tubes filled with potable water. Following decontamination, wash water was collected with a vacuum, stored on-site in two 20,000-gallon Baker tanks, and then transferred to vac trucks for proper disposal.

ARCADIS contracted Integrated Technical Services (ITS) to pressure wash the interior areas requiring decontamination. Decontamination work at the former Unisys Facility began on February 12, 2001 and was completed on November 1, 2001. The NYSDEC regularly visited the site to observe the decontamination activities.

4.1.1.1 Volume of Wash Water

The CWP specified that the four HWMU areas would be pressure washed with four gallons of water per square foot. The CWP required that the remaining seven interior AOPCs needing decontamination would be pressure washed with one to four gallons of water per square foot based on the results of a "decontamination demonstration study."

The demonstration study was performed on February 13, 2001 in Area 9. Temporary berms were placed around a 10-foot by 10-foot area and a three and a half foot by three and a half foot area within the bermed area was pressure washed with one gallon of water per square foot. The pressure washing was timed to ensure that the correct amount of water was applied. The wash water was vacuumed and containerized in a 55-gallon drum. A rinsate sample was then collected from the decontaminated area and submitted for laboratory analysis to assess the effectiveness of the decontamination process. To collect a rinsate sample from the decontaminated floor, a hollow plastic cylinder made from a 5-gallon bucket without a top or bottom was placed on top of a ring of rubber (acting as a gasket) on the pressure washed floor. Distilled water was poured into the bucket, making contact with the washed floor. A peristaltic pump was used to collect the distilled water in contact with the floor. The water was containerized as a rinsate sample.

As part of the demonstration study, the washing and sampling process was repeated by applying an additional gallon of water per square foot using the pressure washer and collecting another rinsate sample until a total of four gallons of water per square foot was applied to the test area. The rinsate samples collected during the demonstration study were sent to Severn Trent Laboratories (STL) to be analyzed for the COCs in Area 9, which include carbazole, benzo(a)pyrene, dibenzo(a,h)anthracene, cadmium, chromium, mercury, nickel, antimony and cyanide. A copy of STL's New York State

Department of Health certification is included in Appendix I. The results of the rinsate sample collected after applying one gallon of water per square foot indicated that there were no COCs present in excess of the New York State Ambient Water Quality Standards. The sample results are summarized in Table 10. Based on the demonstration study, the NYSDEC (on February 20, 2001) approved the application of one gallon of water per square foot for the decontamination of the interior AOPCs (other than the HWMU areas).

4.1.1.2 Application of Wash Water

The wash water was applied to the closure areas using three different pressure washers meeting the requirements of the CWP. A variety of methods were used to track the amount of water applied to the closure areas because different pressure washers were used during the decontamination work. The pressure washer used most often during decontamination was the Whitco Inc. 4-300H GPO pressure washer. The Whitco washer specifications state that the in-line water source tank has a capacity of 250-gallons and that the washer operates at four gallons per minute. The NYSDEC approved tracking the water applied by the Whitco washer as 250 gallons per pass (using 1 full tank). A second pressure washer, the Honda GX390, was also used for decontamination. The specifications indicated that the Honda washer would operate at four gallons per minute. A time test was performed and verified the four-gallon per minute operation rate. To track the water applied by the Honda washer, the time of operation was recorded. The third pressure washer used was the NLB Corporation 10200D. The specifications indicated that the NLB washer would operate at 25 gallons per minute. A time test was performed and verified the 25-gallon per minute operation rate. To track the water applied by the NLB washer, the time of operation was recorded. The method of recording operation times and using the verified flow rate to calculate the volume of water applied by both the Honda and the NLB washers was verbally approved by the NYSDEC.

4.1.2. AUL Implementation

The CWP specifies that an AUL be implemented in eight of the interior AOPCs. To implement the AULs, a restrictive covenant has been established. The restrictive covenant mandates specific procedures to be followed prior to breaching the concrete floor or sump sidewalls or bottom in an area with an AUL. A site plan that clearly identifies AUL areas (Figure 4) has been provided to i.Park, and is a part of the restrictive covenant. An AUL has been implemented in each of the eight interior AOPCs. The AUL is described in Section 6.3.

In the event the concrete floor or sump sidewalls are accidentally breached, ARCADIS recommends: 1) immediate notifications be made to i.Park, Lockheed Martin, and the NYSDEC; 2) a copy of this report be reviewed to identify the COCs present and other relevant information concerning the AUL area; 3) a health and safety plan be prepared and implemented to protect workers from potential exposure during the repair of the breach, or during other construction activities; and 4) restoration of the breached area be conducted as soon as possible. In the event demolition of a building where a proposed AUL applies, the Closure Plan sets forth the requirements to ensure adequate closure. The requirements include testing of demolition debris, proper handling of waste, investigation of underlying soils, inspection of any drain lines, and any necessary remediation of impacted soils.

4.2 Hazardous Waste Management Units (HWMUs)

Closure activities conducted in the four HWMUs are described in the following sections.

4.2.1 Area 7 (Paint Storage Room)

The paint storage room is located southeast of the truck-loading bay and was formerly used for the storage of materials such as paints and Varsol, which is a petroleum-based cleaner. In accordance with the CWP, the floor was swept and all debris found in the room was placed in a 55-gallon drum. On March 14, 2001, pressure washing the floor with four gallons of water per square foot, as required by the CWP, was completed in Area 7. A new floor covering will be installed in Area 7 by i.Park.

During decontamination of Area 7, a sump was located along the southern side of the room (see Figure 2). The sump contained two separators containing two traps and filter baskets. The filter baskets were removed from the traps and placed in the 55-gallon drums along with the solid waste generated from sweeping Area 17. Two soil samples (identified as Varsol (0 to 1) and Varsol (1 to 2)) were collected from the soil bottom of the sump. Samples were collected from 0 to 1 foot and 1 to 2 feet. The two soil samples were analyzed for VOCs and priority pollutant metals. No VOCs were detected in the soil samples in concentrations above the CPS. Copper and zinc were detected above the CPSs at the 0 to 1-foot and 1 to 2-foot depths (see Table 11). The sump was filled to the floor level with concrete.

An AUL has been implemented for Area 7 (including the sumps) resulting in partial closure. Final closure will be completed after the building has been demolished and any soils contaminated above CPS have been remediated as outlined in the CWP.

4.2.2 Area 8 (Oil Storage/Pump Room)

The oil storage/pump room is located south of the hazardous waste storage room and was formerly used to store containers of new and used cutting oils in 55-gallon drums. The room also served as a transfer point for cutting oils that were pumped from former exterior USTs and distributed for use within the main building. Before initiating decontamination activities, i.Park removed a chemical storage container from Area 8. i.Park also removed the windows and covered the openings with plastic sheeting. Prior to initiating decontamination activities, a portion of the sheeting detached, allowing debris to enter the room. The floor was swept and all debris found in the room was placed in a 55-gallon drum. On March 16, 2001, pressure washing the floor with four gallons of water per square foot, as required by the CWP, was completed in Area 8. The metal plates covering the pipe trench along the south wall in the southern room were removed and pressure washed with four gallons of water per square foot. ITS was unable to remove three metal plates. The NYSDEC approved cleaning the plates in-place with a brush to prevent wash water from entering the trench. The pipe trench was filled with concrete to the floor level by i.Park, who will also install a new floor covering Area 8.

An AUL has been implemented for Area 8, resulting in partial closure. Final closure will be completed after the building has been demolished and any soils contaminated above CPS have been remediated as outlined in the CWP.

4.2.3 Area 13 (Hazardous Materials Storage Facility)

Area 13 was formerly designated as the Hazardous Materials Storage Facility, which also served as the facility's 90-day storage facility for hazardous waste. Before decontamination work was initiated, i.Park removed windows in Area 13A allowing debris to enter the room. In addition, a roof leak in Area 13C allowed rain water to accumulate on the floor of the room. The floors were swept and all debris found in the room was placed in a 55-gallon drum. The standing water in Area 13C was pumped out and containerized with the wash water. On March 16, 2001, pressure washing the floors of the three rooms in Area 13 with four gallons of water per square foot, as required by the CWP, was completed. i.Park will install a new floor covering Area 13.

An AUL has been implemented for Area 13, resulting in partial closure. Final closure will be completed after the building has been demolished and any soils contaminated above CPS have been remediated as outlined in the CWP.

4.2.4 Area 17 (Reclamation Room)

Area 17 is located at the southeast corner of the manufacturing building and was formerly used for solvent reclamation and chip extraction. During decontamination activities, Area 17 was divided into two sections by a temporary wall. The floor was swept and all debris found in the room was placed in 55-gallon drums. The filter baskets removed from the trap in the Area 7 Sump were added to the drums at a later date. The floor scale was sealed with tile caulk to prevent wash water from draining under the floor. On March 13, 2001, pressure washing the floor of the western portion of Area 17 with four gallons of water per square foot, as required by the CWP, was completed. On November 1, 2001, pressure washing the floor of the eastern portion of Area 17 with four gallons of water per square foot, as required by the CWP, was completed.

A new floor covering will be installed in both the eastern and western portion of Area 17 by i.Park. The eastern portion of Area 17 contained three sumps: one deep soil-bottom sump (Sump A), one shallow soil-bottom sump (Sump B), and one shallow cement-bottom sump with a floor drain (Sump C). The three sumps located in Area 17 are indicated in Figure 2. Temporary berms were placed around the perimeter of the sumps to prevent wash water from draining into the sumps while the floor was being decontaminated.

Several pipes were observed to terminate inside Sump A. A dark residual material was also observed at the terminus of one of the pipes where it entered the sump. Through a review of floor plans and a water test, the pipe was determined to be the discharge for five floor drains in the area of the reclamation room. The dark residual material was sampled by ARCADIS on January 4, 2002 and analyzed for VOCs, SVOCs, and metals. The material contained SVOCs, VOCs and metals in concentrations exceeding the CPSs. The VOCs in excess of the CPSs included trichloroethene; toluene; tetrachloroethene; ethylbenzene; and xylenes. The metals in excess of the CPSs included arsenic, chromium, copper, lead, mercury, nickel, selenium, copper, silver, and zinc (see Table 12).

The soil at the bottom of the Sump A was also sampled on January 4, 2002 for VOCs, SVOCs and metals. No VOCs were identified in excess of the CPSs; several metals

and cyanide were detected in excess of the CPSs; the metals included arsenic, barium, beryllium, cadmium, chromium, lead, mercury, nickel, selenium, silver, and zinc (Table 12).

The five floor drains connected to Sump A were flushed of material using a power operated "pipe snake". Once the floor drains were cleaned with the pipe snake, they were filled with concrete to floor level. The terminus of the pipe inside Sump A was also filled with concrete. During the flushing of the floor drains with the pipe snake, a small amount of fluid was discharged into the sump. Therefore, the top two-feet of soil inside the sump was removed and placed in the 55-gallon drums containing solid waste collected during decontamination of the floor in the eastern portion of Area 17. On February 12, 2001 a soil sample was collected from the bottom of Sump A (after the top two-feet of soil was removed). The soil sample was analyzed for VOCs and metals. No VOCs were identified in excess of the CPS; zinc, copper, mercury, and nickel exceeded the CPS (see Table 12). On February 13, 2002, Sump A was filled with concrete to floor grade.

soil bottom and was sampled before sealing
Sump B contained a ~~concrete~~ bottom and was cleaned and filled to floor level with concrete; because Sump B was shallow concrete sump, no sampling was conducted.

On November 1, 2001, Sump C was pressure washed with four gallons of water per square foot. During pressure washing, a plastic plug was inserted into the floor drain to prevent the wash water from draining out of Sump C. On February 13, 2002 Sump C was filled with concrete to the floor level.

An AUL has been implemented for Area 17 resulting in partial closure. Final closure will be completed after the building has been demolished and any soils contaminated above CPSs have been remediated as outlined in the CWP.

4.3 Other Interior Areas of Potential Concern (AOPCs)

Closure activities completed in the seven AOPCs (Figure 3) are described in the following sections.

4.3.1 Area 1 (Thin Film Laboratory)

Area 1 was formerly consisted of the Thin Film Laboratory. Acids, caustic, and plating chemistry were used in this area. An AUL has been implemented for Area 1,

resulting in partial closure. Final closure will be completed after the building has been demolished and any soils contaminated above CPS have been remediated.

4.3.2 Area 9 (Old Plating Area)

Area 9, located in the central portion of the manufacturing building, was in operation from 1941 to the late 1960's, was formerly used for anodizing aluminum parts with chrome. Degreasing operations also occurred in Area 9. i.Park had removed the floor tile prior to the initiation of decontamination work exposing seams in the concrete floor marking the location of the below grade vaults. Temporary berms were placed around the perimeter of the vaults to prevent wash water from migrating away from the AOPC. The floor was swept and all debris found in the room was placed in a 55-gallon drum. In March 2001, pressure washing of the sections of floor in Area 9 located over below grade vaults with one gallon of water per square foot, as required by the CWP, was completed.

An AUL has been implemented for Area 9, resulting in partial closure. Final closure will be completed after the building has been demolished and any soils contaminated above CPS have been remediated.

4.3.3 Area 11 (Process Photo Lab)

Area 11 was formerly used for photographic development. Waste fixer and developer materials were used in Area 11. The floor was swept and all debris found in the room was placed in a 55-gallon drum. In February 2001, pressure washing of the floor in Area 11 with one gallon of water per square foot, as required by the CWP, was completed. The non-friable asbestos containing floor tiles in Area 11 were intact during pressure washing, however, many were warped and crumbling. Approximately 10 to 15 tiles were removed from the floor with the force of the pressure washer. These tiles were containerized in a 55-gallon drum.

An AUL has been implemented for Area 11, resulting in partial closure. Final closure will be completed after the building has been demolished and any soils contaminated above CPS have been remediated.

4.3.4 Area 31 (Foundry Basement Sump)

Area 31, the foundry basement sump, is located in the foundry building which formerly housed a casting foundry for metal parts. The sump in was full of water that had an

oily sheen. The water was pumped out and stored in 55-gallon drums and a 1,000-gallon polyethylene tank. Approximately, 1,900 gallons of water were pumped from the sump, which only has a 1,000-gallon capacity. When the water was removed, three, four-inch drain lines were visible. Through examination of facility maps, it was determined that two drain lines were connected to floor drains in the foundry basement and the third line was connected to the elevator shaft. It is believed that water initially filled the sump when i.Park removed portions of the foundry roof allowing rain and snow into the building, which drained into the sump through the floor drains. It is believed that standing water in the elevator shaft was the source of the water in excess of the 1,000-gallon capacity of the sump.

When the standing water was removed from the sump, approximately 5 inches of sludge remained on the bottom of the sump. The sludge was shoveled from the bottom of the sump and stored in 55-gallon drums.

Once the standing water and sludge were removed, the sump was pressure washed with one gallon of water per square foot as required by the CWP. On March 21, 2001, pressure washing was completed in Area 31.

An AUL for Area 31 has been implemented resulting in partial closure. Final closure will be completed after the building has been demolished and any soils contaminated above CPS have been remediated.

4.3.5 Area 2 (Wet Chemistry Lab)

Area 2, the wet chemistry lab, located in the central portion of the Environmental Building, was formerly used for metallurgical and chemical testing of materials. The floor tiles and walls of Area 2 were removed by i.Park prior to initiating decontamination work. Berms were placed around the perimeter of Area 2 (excluding the northeastern portion which used to contain bathrooms). On March 20, 2001, pressure washing with one gallon of water per square foot, as required by the CWP, was completed. As specified in the NYSDEC-approved CWP, no further remedial measures or AUL are required in Area 2 and the area is closed.

4.3.6 Area 28 (A/C Room Sump)

Area 28, the A/C Room Sump, was formerly used to collect condensate discharge from the air conditioning equipment. The walls and windows near the sump were removed by i.Park prior to initiating decontamination work, which allowed rain, snow and

debris to enter the sump. On March 14, 2001, the standing water was pumped out and the sump was pressure washed with one gallon of water per square foot, as required by the CWP. The standing water and wash water from Area 28 were combined with the wash water from Area 30 in a dedicated container. As specified in the NYSDEC-approved CWP, no further remedial measures, or AUL are required in Area 28 and the area is closed.

4.3.7 Area 30 (Short Order Machine Shop Sumps)

Area 30, consisting of two sumps, is located in the Machine Shop, where machining and other manufacturing operations formerly occurred. The two sumps contained bricks and other debris from demolition activities performed in the manufacturing building. The debris was removed and stored in 55-gallon drums. Two inches of standing water contained in the western sump was removed. The eastern sump contained two vertical wooden dividers. The wooden dividers were removed, cut into smaller pieces and placed in 55-gallon drums. On March 14, 2001, pressure washing with one gallon of water per square foot, as required by the CWP, was completed. The standing water and wash water from Area 30 was combined with the standing water and wash water from Area 28 in a dedicated 55-gallon drum. As specified in the NYSDEC-approved CWP, no further remedial measures, or AUL are required in Area 30 and the area is closed.

5. Conclusions for Interior Areas

ARCADIS has conducted investigative and remedial activities of the interior AOPCs and HWMUs at the former Unisys facility in Great Neck, New York. The investigative, and remedial activities were performed in accordance with the NYSDEC approved Closure Plan and CWP prepared by ARCADIS G&M dated February 22, 2001. Based on the results of the closure activities in the interior areas, ARCADIS concludes the following:

- Decontamination was completed in the Interior Areas 2, 7, 8, 9, 11, 13, 17, 28, 30, and 31 in accordance with the CWP.
- An AUL has been implemented in Areas 1, 7, 8, 9, 11, 13, 17 and 31 resulting in partial closure. Final closure will be completed after the building has been demolished and any soils contaminated above CPS have been remediated in accordance with the Closure Plan and CWP.

- A new floor covering will be installed in Areas 7, 8, 11, and 17 by i.Park.
- ARCADIS recommends that Areas 2, 28, and 30 be closed, and no further remedial measures or an AUL are required.

A summary of the closure activity and status of the interior areas is presented in Table 13.

6. Waste handling and disposal

The following sections discuss the handling and disposal of wastes generated during decontamination work in the interior and exterior areas.

6.1 Interior Area Waste

Waste generated during decontamination work in the interior areas was handled and disposed of in accordance with NYSDEC regulations. Waste characterization samples were collected by ITS and sent to Accredited Laboratories, Inc. for analysis, except where noted. Waste transportation and disposal tickets are included in Appendix J. Non-hazardous waste manifests are included in Appendix B and hazardous waste manifests are included in Appendix K.

The wash water from Areas 2, 7, 8, 9, 11, 13, 17, and 31 and the standing water removed from Area 13 were combined and stored on-site in two 20,000-gallon Baker tanks and six 55-gallon drums. A waste characterization sample was collected on March 16, 2001. The wash water was removed from the Baker tanks between March 28, 2002 and March 30, 2002 by Long Island Cesspool Co., Inc. The wash water was disposed of as non-hazardous waste at S&W Wastes, Inc. of South Kearny, New Jersey. Once the wash water was removed from the Baker tanks, ITS cleaned the remaining sediment off the bottom and sidewalls with a pressure washer and generated three 55-gallon drums of waste. The three drums generated from washing the Baker tanks and the six drums of wash water were removed from the site on April 11, 2001 and disposed of as non-hazardous waste at S&W Waste, Inc. in South Kearny, New Jersey. The nine drums were disposed of under the same profile that was generated using the analytical data for the wash water from Areas 2, 7, 8, 9, 11, 13, 17 and 31 and the solids collected during decontamination activities.

The wash water and standing water from the sumps in Area 28 and Area 30 were combined and stored on-site in a 55-gallon drum. A waste characterization sample was

ARCADIS

Volume I
Closure Report,
Former Unisys
Facility, Great Neck,
New York

collected on March 16, 2001. The drum was removed from the site on April 11, 2001 and was disposed of as non-hazardous waste at S&W Waste, Inc. in South Kearny, New Jersey.

The standing water pumped from the Area 31 sump was stored on-site in two 1,000-gallon polyethylene tanks and two 55-gallon drums. The sludge and water mix removed from the bottom of the Area 31 sump was containerized in seven 55-gallon drums. A separate waste characterization sample was collected for the standing water and the sludge and water mix. The two drums of Area 31 sump standing water was removed from the site on April 11, 2001 and was disposed of as non-hazardous waste at S&W Waste, Inc. in South Kearny, New Jersey under the same profile as the wash water from Areas 2, 7, 8, 9, 11, 13, 17 and 31 and the Baker tank clean-out water. The sludge and water mix was removed from the site on April 11, 2001 and was disposed of as non-hazardous waste at S&W Waste, Inc. in South Kearny, New Jersey under a separate profile.

All solid waste collected in Areas 2, 7 (not including waste from the sump), 8, 9, 11, 13, and the western portion of Area 17 during decontamination activities was containerized in six 55-gallon drums. One drum contained non-friable asbestos floor tiles from Area 11, which i.Park accepted responsibility for disposal. A composite sample for waste characterization was collected from the remaining five drums on March 16, 2002. The five drums were removed from the site on April 11, 2002 and disposed of as non-hazardous waste at S&W Waste, Inc. in South Kearny, New Jersey.

Solid waste collected while removing debris and sweeping the floor of the eastern portion of Area 17 and excavating Sump A in Area 17 was combined with the filter baskets removed from the trap in the Area 7 Sump and placed in two 55-gallon drums. A waste characterization sample was collected by Brookside Environmental Company and sent to Severn Trent Laboratories (STL) in Shelton, Connecticut. The New York State Department of Health Certificate of Approval for Laboratory Service for Accredited Laboratories, Inc. is included in Appendix J. The drums were disposed of as hazardous waste at CWM Chemical Services, LLC, in Model City, New York.

During decontamination work, a bottle of nitric acid (approximately 100 ml) was found in the manufacturing building. On March 16, 2001, Waste Management packed the bottle in a bucket of vermiculite for disposal in accordance with NYSDEC regulations.

6.2 Exterior Area Waste

Excavated soil from the exterior areas that contained COCs in excess of the CPS, were stockpiled. A composite sample was taken for waste characterization (Appendix E). The soil was disposed as non-hazardous waste at Clean Earth of Philadelphia, Pennsylvania on March 1, 2002.

A summary of the handling and disposal of all hazardous and non-hazardous waste from interior and exterior areas is compiled in Table 14.

6.3 AUL Implementation

To implement the AULs, a restrictive covenant has been established. The restrictive covenant mandates specific procedures to be followed prior to breaching the concrete slab in the exterior AUL area and/or breaching the concrete floor or sump sidewalls or bottom in an interior AUL area. An AUL has been implemented in Area 21 and eight of the interior AOPCs. A site plan that clearly identifies AUL areas (Figure 4) has been provided to i.Park, and is a part of the restrictive covenant for the AUL areas. An restrictive covenant for the AUL areas will be recorded with Nassau County as a part of the deed for the i.Park property and will be provided as an addendum to the Closure Report.

Table 1. Soil Sample Results for AOPC Area 26A at the Former Unisys Facility, Great Neck, New York, April, July, September, and December 2001 Sampling Rounds.

SITE	DATE	DEPTH (FEET BLS)	Zinc in mg/kg
			<u>Closure</u> <u>Performance</u> <u>Standard (A)</u>
			55.7
April			
26A-B	04/26/2001	0-1	188.
26A-B	04/26/2001	4-5	20.8
26A-C	04/26/2001	0-1	83.5
26A-C	04/26/2001	4-5	<15.8
26A-D	04/26/2001	0-1	127.
26A-D/4-5	04/26/2001	4-5	21.8
July			
26A-E	7/16/2001	0-1	250
26A-F	7/16/2001	0-1	128
26A-G	7/16/2001	0-1	193
26A-H	7/16/2001	0-1	141
26A-I	7/16/2001	0-1	114 J
26A-J	7/16/2001	0-1	102
September			
26A-M	9/25/2001	0-1	44.6
26A-N	9/25/2001	0-1	25.4
26A-O	9/25/2001	0-1	212
December			
26A-E1	12/17/2001	1-2	53.8
26A-E1	12/17/2001	2-3	32.4
26A-E1	12/17/2001	3-4	12.0
26A-G1	12/17/2001	1-2	49.1
26A-G1	12/17/2001	2-3	82.8
26A-G1	12/17/2001	3-4	11.4
26A-H1	12/17/2001	1-2	18.2
26A-H1	12/17/2001	2-3	20.0
26A-H1	12/17/2001	3-4	18.9

Exceedances above the Closure Performance Standard (CPS) are shown in **bold**.

mg/kg Milligrams per Kilograms.

BLS Below land surface.

(A) Closure Performance Standards for inorganics are the highest of either site specific background levels, Eastern U.S. Background levels, or NYSDEC-recommended soil clean-up objectives from TAGM 94-4046.

NYSDEC New York State Department of Environmental Conservation.

Table 2. Soil Sample Results for AOPC Area 26B at the Former Unisys Facility, Great Neck, New York, April, July, and December 2001 Sampling Rounds.

SITE	DATE	DEPTH (FEET BLS)	Arsenic in mg/kg	Copper in mg/kg
			<u>Closure Performance Standard (A)</u>	
			12	50
April				
26B-B	04/30/2001	0-1	6.4	35.1
26B-B	04/30/2001	4-5	6.0	31.0
26B-C	04/26/2001	0-1	<5.3	10.3
26B-C	04/26/2001	4-5	<6.0	16.2
26B-D	04/30/2001	0-1	18.0	32.4
26B-D	04/30/2001	4-5	<5.8	18.1
July				
26B-E	7/12/2001	0-1	9.3	NA
26B-F	7/12/2001	0-1	4.5	NA
December				
26B-D1	12/17/2001	1-2	7.5	NA
26B-D1	12/17/2001	2-3	5.8	NA
26B-D1	12/17/2001	3-4	4.2	NA

Exceedances above the Closure Performance Standard (CPS) are shown in **bold**.

mg/kg Milligrams per kilograms.

NA Not analyzed.

BLS Below land surface.

(A) Closure Performance Standards for inorganics are the highest of either site specific background levels, Eastern U.S. Background levels, or NYSDEC-recommended soil clean-up objectives from TAGM 94-4046.

NYSDEC New York State Department of Environmental Conservation.

Table 3. Soil Sample Results for AOPC Area 26D at the Former Unisys Facility, Great Neck, New York, April 2001, Sampling Round.

SITE	DATE	DEPTH (FEET BLS)	Copper in mg/kg	Mercury in mg/kg	Zinc in mg/kg
		<u>Closure Performance Standard (A)</u>	50	0.2	55.7
26D-B	04/30/2001	0-1	18.5	<0.0041	17.8
26D-B	04/30/2001	4-5	17.1	<0.0032	<13.6
26D-C	04/30/2001	0-1	17.1	0.0048	24.6
26D-C	04/30/2001	4-5	8.6	<0.0028	18.9
26D-D	04/30/2001	0-1	29.0	0.0059	23.7
26D-D	04/30/2001	4-5	10.2	<0.0027	<13.2

Exceedances above the Closure Performance Standard (CPS) are shown in **bold**.

mg/kg Milligrams per kilograms.

BLS Below land surface.

(A) Closure Performance Standards for inorganics are the highest of either site specific background levels, Eastern U.S. Background levels, or NYSDEC-recommended soil clean-up objectives from TAGM 94-4046.

NYSDEC New York State Department of Environmental Conservation.

Table 4. Soil Sample Results for AOPC Area 24 at the Former Unisys Facility, Great Neck, New York, April 2001, Sampling Round.

	SITE	24A	24B	24C	24D	24E	24F
CONSTITUENT	SAMPLE ID	24A	24B	24C	24D	24E	24F
(in ug/kg)	DATE	05/04/2001	05/04/2001	05/04/2001	05/04/2001	05/04/2001	05/04/2001
	DEPTH (FEET BLS)	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5

Total PCBs (B)	Closure Performance Standard (A)							
	Surface	Subsurface						
Aroclor-1016	1000	10000	<170	<34	<67	<35	<34	<35
Aroclor-1221	1000	10000	<350	<68	<140	<72	<68	<71
Aroclor-1232	1000	10000	<170	<34	<67	<35	<34	<35
Aroclor-1242	1000	10000	<170	<34	<67	<35	<34	<35
Aroclor-1248	1000	10000	<170	<34	<67	<35	<34	<35
Aroclor-1254	1000	10000	640	25 J	450	37	70	2.5 J
Aroclor-1260	1000	10000	<170	24 J	<67	48	<34	3.4 J

Exceedances above the Closure Performance Standard (CPS) are shown in bold.

ug/kg Micrograms per kilograms.

BLS Below land surface.

PCB Polychlorinated biphenyl

J Estimated value.

(A) Closure Performance Standards for organic compounds are based on NYSDEC-Recommended Soil Cleanup Objectives using a organic fraction in soil of 3%.

(B) Subsurface = greater than 18 inches below ground, surface = 18 inches or less below ground.

NYSDEC New York State Department of Environmental Conservation.

Table 5. Soil Sample Results for AOPC Area 21 at the Former Unisys Facility, Great Neck, New York, April, July, September, December, 2001 Sampling Round.

CONSTITUENT	SITE	21D	21D	21D	21D	21E	21E
	SAMPLE ID	21D/0-1	21D/4-5	21D/9-10	21D/14-15	21E/0-1	21E/4-5
	DATE	04/30/2001	04/30/2001	04/30/2001	04/30/2001	04/30/2001	04/30/2001
	DEPTH (FEET BLS)	0-1	4-5	9-10	14-15	0-1	4-5
	<u>Closure</u>						
	<u>Performance</u>						
	<u>Standard (A)</u>						
<u>Volatile Organic Compounds</u>							
<u>in ug/kg</u>							
Chloromethane	NA	--	--	--	--	--	--
Bromomethane	4950	--	--	--	--	--	--
Vinyl Chloride	342	--	--	--	--	--	--
Chloroethane	5550	--	--	--	--	--	--
Methylene Chloride	300	--	--	--	--	--	--
Acetone	NA	--	--	--	--	--	--
Carbon Disulfide	NA	--	--	--	--	--	--
Vinyl Acetate	NA	--	--	--	--	--	--
1,1-Dichloroethene	975	--	--	--	--	--	--
1,1-Dichloroethane	NA	--	--	--	--	--	--
Cis-1,2-Dichloroethene	NA	--	--	--	--	--	--
trans-1,2-Dichloroethene	885	--	--	--	--	--	--
Chloroform	NA	--	--	--	--	--	--
1,2-Dichloroethane	NA	--	--	--	--	--	--
2-Butanone (MEK)	NA	--	--	--	--	--	--
1,1,1-Trichloroethane	2,280	--	--	--	--	--	--
Carbon Tetrachloride	NA	--	--	--	--	--	--
Bromodichloromethane	NA	--	--	--	--	--	--
1,2-Dichloropropane	NA	--	--	--	--	--	--
cis-1,3-Dichloropropene	NA	--	--	--	--	--	--
Trichloroethene	1,890	--	--	--	--	--	--
Dibromochloromethane	NA	--	--	--	--	--	--
1,1,2-Trichloroethane	NA	--	--	--	--	--	--
Benzene	174	--	--	--	--	--	--
trans-1,3-Dichloropropene	NA	--	--	--	--	--	--
Bromoform	NA	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	NA	--	--	--	--	--	--
2-Hexanone	NA	--	--	--	--	--	--
Tetrachloroethene	4,155	--	--	--	--	--	--
Toluene	4,500	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	NA	--	--	--	--	--	--
Chlorobenzene	4,950	--	--	--	--	--	--
Ethylbenzene	100	--	--	--	--	--	--
Styrene	NA	--	--	--	--	--	--
Xylene (total)	3,600	--	--	--	--	--	--

See last page for footnotes.

Table 5. Soil Sample Results for AOPC Area 21 at the Former Unisys Facility, Great Neck, New York, April, July, September, December, 2001 Sampling Round.

CONSTITUENT	SITE	21D	21D	21D	21D	21E	21E
	SAMPLE ID	21D/0-1	21D/4-5	21D/9-10	21D/14-15	21E/0-1	21E/4-5
	DATE	04/30/2001	04/30/2001	04/30/2001	04/30/2001	04/30/2001	04/30/2001
	DEPTH (FEET BLS)	0-1	4-5	9-10	14-15	0-1	4-5
<u>Closure</u>							
<u>Performance</u>							
<u>Standard (A)</u>							
<u>Semi-Volatile Organic</u>							
<u>Compounds (SVOCs) in ug/kg</u>							
Phenol	330	<370	<370	<360	<340	<1500	<370
Bis(2-chloroethyl)ether	NA	<370	<370	<360	<340	<1500	<370
2-Chlorophenol	2250	<370	<370	<360	<340	<1500	<370
m-Dichlorobenzene	4650	<370	<370	<360	<340	<1500	<370
p-Dichlorobenzene	25500	<370	<370	<360	<340	<1500	<370
Benzyl alcohol	NA	<370	<370	<360	<340	<1500	<370
o-Dichlorobenzene	23970	<370	<370	<360	<340	<1500	<370
o-Cresol	NA	<370	<370	<360	<340	<1500	<370
Bis(2-chloro-1-methylethyl) ether	NA	<370	<370	<360	<340	<1500	<370
p-Cresol	2550	<370	<370	<360	<340	<1500	<370
N-Nitrosodipropylamine	NA	<370	<370	<360	<340	<1500	<370
Hexachloroethane	NA	<370	<370	<360	<340	<1500	<370
Nitrobenzene	600	<370	<370	<360	<340	<1500	<370
Isophorone	13200	<370	<370	<360	<340	<1500	<370
o-Nitrophenol	975	<370	<370	<360	<340	<1500	<370
2,4-Dimethylphenol	NA	<370	<370	<360	<340	<1500	<370
Benzoic acid	8100	<1800	<1800	<1700	<1700	<7300	<1800
Bis(2-chloroethoxy)methane	NA	<370	<370	<360	<340	<1500	<370
2,4-Dichlorophenol	1140	<370	<370	<360	<340	<1500	<370
1,2,4-Trichlorobenzene	10050	<370	<370	<360	<340	<1500	<370
Naphthalene	39000	<370	<370	<360	<340	<1500	<370
p-Chloroaniline	NA	<370	<370	<360	<340	<1500	<370
Hexachlorobutadiene	NA	<370	<370	<360	<340	<1500	<370
p-Chloro-m-cresol	NA	<370	<370	<360	<340	<1500	<370
2-Methylnaphthalene	50000	<370	<370	<360	<340	<1500	<370
Hexachlorocyclopentadiene	NA	<370	<370	<360	<340	<1500	<370
2,4,6-Trichlorophenol	NA	<370	<370	<360	<340	<1500	<370
2,4,5-Trichlorophenol	300	<1800	<1800	<1700	<1700	<7300	<1800
2-Chloronaphthalene	NA	<370	<370	<360	<340	<1500	<370
o-Nitroaniline	1290	<1800	<1800	<1700	<1700	<7300	<1800
Dimethyl phthalate	NA	<370	<370	<360	<340	<1500	<370
Acenaphthylene	50000	<370	<370	<360	<340	<1500	<370
2,6-Dinitrotoluene	3000	<370	<370	<360	<340	<1500	<370
m-Nitroaniline	1500	<1800	<1800	<1700	<1700	<7300	<1800
Acenaphthene	50000	<370	<370	<360	<340	<1500	<370
2,4-Dinitrophenol	600	<1800	<1800	<1700	<1700	<7300	<1800
p-Nitrophenol	315	<1800	<1800	<1700	<1700	<7300	<1800
Dibenzofuran	18600	<370	<370	<360	<340	<1500	<370
2,4-Dinitrotoluene	NA	<370	<370	<360	<340	<1500	<370
Diethyl phthalate	21300	<370	<370	<360	<340	<1500	<370

See last page for footnotes.

Table 5. Soil Sample Results for AOPC Area 21 at the Former Unisys Facility, Great Neck, New York, April, July, September, December, 2001 Sampling Round.

CONSTITUENT	SITE	21D	21D	21D	21D	21E	21E
	SAMPLE ID	21D/0-1	21D/4-5	21D/9-10	21D/14-15	21E/0-1	21E/4-5
	DATE	04/30/2001	04/30/2001	04/30/2001	04/30/2001	04/30/2001	04/30/2001
	DEPTH (FEET BLS)	0-1	4-5	9-10	14-15	0-1	4-5
<u>Closure</u>							
<u>Performance</u>							
<u>Standard (A)</u>							
<u>SVOCs in ug/kg continued</u>							
4-Chlorophenyl phenyl ether	NA	<370	<370	<360	<340	<1500	<370
Fluorene	50000	<370	<370	<360	<340	<1500	<370
p-Nitroaniline	NA	<1800	<1800	<1700	<1700	<7300	<1800
4,6-Dinitro-o-cresol	NA	<1800	<1800	<1700	<1700	<7300	<1800
N-Nitrosodiphenylamine	NA	<370	<370	<360	<340	<1500	<370
4-Bromofluorobenzene	NA	<370	<370	<360	<340	<1500	<370
Hexachlorobenzene	1230	<370	<370	<360	<340	<1500	<370
Pentachlorophenol	3000	<1800	<1800	<1700	<1700	<7300	<1800
Phenanthrene	50000	<370	<370	<360	<340	<1500	15 J
Anthracene	50000	<370	<370	<360	<340	<1500	11 J
Carbazole	NA	<370	<370	<360	<340	<1500	<370
Di-n-butyl phthalate	24300	<370	<370	<360	<340	<1500	<370
Fluoranthene	50000	20 J	<370	13 J	<340	<1500	120 J
Pyrene	50000	25 J	<370	13 J	<340	<1500	150 J
Butyl benzyl phthalate	50000	<370	<370	<360	<340	<1500	<370
3,3-Dichlorobenzidine	672	<730	<740	<720	<680	<3000	<730
Benzo(a)anthracene	8280	<370	<370	<360	<340	<1500	140 J
Chrysene	1200	<370	<370	<360	<340	<1500	130 J
Bis(2-ethylhexyl)phthalate (BEHP)	50000	<370	97 J	84 J	12 J	<1500	21 J
Di-n-octyl phthalate	50000	<370	<370	<360	<340	<1500	<370
Benzo(b)fluoranthene	3300	<370	<370	<360	<340	<1500	79 J
Benzo(k)fluoranthene	3300	<370	<370	<360	<340	<1500	120 J
Benzo(a)pyrene (B)	MDL	<370	<370	<360	<340	<1500	120 J
Indeno(1,2,3-cd)pyrene	9600	<370	<370	<360	<340	<1500	62 J
Dibenzo(a,h)anthracene	42	<370	<370	<360	<340	<1500	<370
Benzo(ghi)perylene	50000	<370	<370	<360	<340	<1500	64 J
Dimethylphthalate	NA	--	--	--	--	--	--
2,6-Dinitrotoluene	3	--	--	--	--	--	--
3-Nitroaniline	1.5	--	--	--	--	--	--
Acenaphthene	50	--	--	--	--	--	--
<u>METALS in mg/kg</u>							
Copper	50	13.0	13.3	9.8	8.2	13.2	14.9
Zinc	55.7	21.8	20.5	16.2	<14.0	25.3	25.1

See last page for footnotes.

Table 5. Soil Sample Results for AOPC Area 21 at the Former Unisys Facility, Great Neck, New York, April, July, September, December, 2001 Sampling Round.

CONSTITUENT	SITE	21E	21F	21F	21F	21F	21G
	SAMPLE ID	21E/14-15	21F/0-1	21F/4-5	21F/9-10	21F/14-15	
	DATE	04/30/2001	04/30/2001	04/30/2001	04/30/2001	04/30/2001	7/12/2001
	DEPTH (FEET BLS)	14-15	0-1	4-5	9-10	14-15	21.5
	<u>Closure</u>						
	<u>Performance</u>						
	<u>Standard (A)</u>						
<u>Volatile Organic Compounds</u>							
<u>in ug/kg</u>							
Chloromethane	NA	--	--	--	--	--	<11
Bromomethane	4950	--	--	--	--	--	<11 J
Vinyl Chloride	342	--	--	--	--	--	<11
Chloroethane	5550	--	--	--	--	--	<11
Methylene Chloride	300	--	--	--	--	--	<12
Acetone	NA	--	--	--	--	--	<11
Carbon Disulfide	NA	--	--	--	--	--	0.3 J
Vinyl Acetate	NA	--	--	--	--	--	<11
1,1-Dichloroethene	975	--	--	--	--	--	<5.5
1,1-Dichloroethane	NA	--	--	--	--	--	<5.5
Cis-1,2-Dichloroethene	NA	--	--	--	--	--	<5.5
trans-1,2-Dichloroethene	885	--	--	--	--	--	<5.5
Chloroform	NA	--	--	--	--	--	<5.5
1,2-Dichloroethane	NA	--	--	--	--	--	<5.5
2-Butanone (MEK)	NA	--	--	--	--	--	<11
1,1,1-Trichloroethane	2,280	--	--	--	--	--	<5.5
Carbon Tetrachloride	NA	--	--	--	--	--	<5.5
Bromodichloromethane	NA	--	--	--	--	--	<5.5
1,2-Dichloropropane	NA	--	--	--	--	--	<5.5
cis-1,3-Dichloropropene	NA	--	--	--	--	--	<5.5
Trichloroethene	1,890	--	--	--	--	--	<5.5
Dibromochloromethane	NA	--	--	--	--	--	<5.5
1,1,2-Trichloroethane	NA	--	--	--	--	--	<5.5
Benzene	174	--	--	--	--	--	<5.5
trans-1,3-Dichloropropene	NA	--	--	--	--	--	<5.5
Bromoform	NA	--	--	--	--	--	<5.5
4-Methyl-2-pentanone (MIBK)	NA	--	--	--	--	--	<11
2-Hexanone	NA	--	--	--	--	--	<11
Tetrachloroethene	4,155	--	--	--	--	--	<5.5
Toluene	4,500	--	--	--	--	--	<5.5
1,1,2,2-Tetrachloroethane	NA	--	--	--	--	--	<5.5
Chlorobenzene	4,950	--	--	--	--	--	<5.5
Ethylbenzene	100	--	--	--	--	--	<5.5
Styrene	NA	--	--	--	--	--	<5.5
Xylene (total)	3,600	--	--	--	--	--	0.4 J

See last page for footnotes.

Table 5. Soil Sample Results for AOPC Area 21 at the Former Unisys Facility, Great Neck, New York, April, July, September, December, 2001 Sampling Round.

CONSTITUENT	SITE	21E	21F	21F	21F	21F	21G
	SAMPLE ID	21E/14-15	21F/0-1	21F/4-5	21F/9-10	21F/14-15	
	DATE	04/30/2001	04/30/2001	04/30/2001	04/30/2001	04/30/2001	7/12/2001
	DEPTH (FEET BLS)	14-15	0-1	4-5	9-10	14-15	21.5
<u>Closure</u>							
<u>Performance</u>							
<u>Standard (A)</u>							
Semi-Volatile Organic							
Compounds (SVOCs) in ug/kg							
Phenol	330	<380	<350	<360	<360	<350	<60
Bis(2-chloroethyl)ether	NA	<380	<350	<360	<360	<350	<54
2-Chlorophenol	2250	<380	<350	<360	<360	<350	<43
m-Dichlorobenzene	4650	<380	<350	<360	<360	<350	<37
p-Dichlorobenzene	25500	<380	<350	<360	<360	<350	<35
Benzyl alcohol	NA	<380	<350 J	<360	<360	<350	<168
o-Dichlorobenzene	23970	<380	<350	<360	<360	<350	<38
o-Cresol	NA	<380	<350	<360	<360	<350	<58
Bis(2-chloro-1-methylethyl) ether	NA	<380	<350	<360	<360	<350	<81
p-Cresol	2550	<380	<350	<360	<360	<350	<77
N-Nitrosodipropylamine	NA	<380	<350	<360	<360	<350	<41
Hexachloroethane	NA	<380	<350	<360	<360	<350	<41
Nitrobenzene	600	<380	<350	<360	<360	<350	<63
Isophorone	13200	<380	<350	<360	<360	<350	<46
o-Nitrophenol	975	<380	<350	<360	<360	<350	<54
2,4-Dimethylphenol	NA	<380	<350	<360	<360	<350	<60
Benzoic acid	8100	<1800	<1700	<1700	<1800	<1700	<1010
Bis(2-chloroethoxy)methane	NA	<380	<350	<360	<360	<350	<52
2,4-Dichlorophenol	1140	<380	<350	<360	<360	<350	<77
1,2,4-Trichlorobenzene	10050	<380	<350	<360	<360	<350	<61
Naphthalene	39000	<380	26 J	53 J	<360	<350	<38
p-Chloroaniline	NA	<380	<350	<360	<360	<350	<86
Hexachlorobutadiene	NA	<380	<350	<360	<360	<350	<60
p-Chloro-m-cresol	NA	<380	<350	<360	<360	<350	<66
2-Methylnaphthalene	50000	<380	21 J	30 J	<360	<350	<43
Hexachlorocyclopentadiene	NA	<380	<350	<360	<360	<350	<70
2,4,6-Trichlorophenol	NA	<380	<350	<360	<360	<350	<67
2,4,5-Trichlorophenol	300	<1800	<1700	<1700	<1800	<1700	<73
2-Chloronaphthalene	NA	<380	<350	<360	<360	<350	<57
o-Nitroaniline	1290	<1800	<1700	<1700	<1800	<1700	<64
Dimethyl phthalate	NA	<380	<350	<360	<360	<350	<44
Acenaphthylene	50000	<380	62 J	<360	<360	<350	<32
2,6-Dinitrotoluene	3000	<380	<350	<360	<360	<350	<46
m-Nitroaniline	1500	<1800	<1700	<1700	<1800	<1700	<61
Acenaphthene	50000	<380	110 J	230 J	13 J	<350	<43
2,4-Dinitrophenol	600	<1800	<1700	<1700	<1800	<1700	<127
p-Nitrophenol	315	<1800	<1700	<1700	<1800	<1700	<151
Dibenzofuran	18600	<380	38 J	110 J	<360	<350	<40
2,4-Dinitrotoluene	NA	<380	<350	<360	<360	<350	<38
Diethyl phthalate	21300	<380	<350	<360	<360	<350	<40

See last page for footnotes.

Table 5. Soil Sample Results for AOPC Area 21 at the Former Unisys Facility, Great Neck, New York, April, July, September, December, 2001 Sampling Round.

CONSTITUENT	SITE	21E	21F	21F	21F	21F	21G
	SAMPLE ID	21E/14-15	21F/0-1	21F/4-5	21F/9-10	21F/14-15	
	DATE	04/30/2001	04/30/2001	04/30/2001	04/30/2001	04/30/2001	7/12/2001
	DEPTH (FEET BLS)	14-15	0-1	4-5	9-10	14-15	21.5
	<u>Closure</u>						
	<u>Performance</u>						
	<u>Standard (A)</u>						
<u>SVOCs in ug/kg continued</u>							
4-Chlorophenyl phenyl ether	NA	<380	<350	<360	<360	<350	<54
Fluorene	50000	<380	79 J	190 J	<360	<350	<29
p-Nitroaniline	NA	<1800	<1700	<1700	<1800	<1700	<52
4,6-Dinitro-o-cresol	NA	<1800	<1700	<1700	<1800	<1700	<55
N-Nitrosodiphenylamine	NA	<380	<350	<360	<360	<350	<26
4-Bromofluorobenzene	NA	<380	<350	<360	<360	<350	<26
Hexachlorobenzene	1230	<380	<350	<360	<360	<350	<28
Pentachlorophenol	3000	<1800	<1700	<1700	<1800	<1700	<184
Phenanthrene	50000	<380	870	1900	120 J	<350	<31
Anthracene	50000	<380	240 J	450	34 J	<350	<20
Carbazole	NA	<380	120 J	280 J	14 J	<350	<28
Di-n-butyl phthalate	24300	<380	64 J	11 J	10 J	<350	<52
Fluoranthene	50000	<380	1300	2200	170 J	<350	<28
Pyrene	50000	<380	970	2200	180 J	<350	<34
Butyl benzyl phthalate	50000	<380	94 J	<360	<360	<350	<54
3,3-Dichlorobenzidine	672	<760	<700	<720	<720	<700	<84
Benzo(a)anthracene	8280	<380	660	1200	100 J	<350	<23
Chrysene	1200	<380	730	1200	110 J	<350	<21
Bis(2-ethylhexyl)phthalate (BEHP)	50000	19 J	500	78 J	200 J	65 J	55 J
Di-n-octyl phthalate	50000	<380	<350	<360	<360	<350	<70
Benzo(b)fluoranthene	3300	<380	500	720	80 J	<350	<67
Benzo(k)fluoranthene	3300	<380	560	900	84 J	<350	<50
Benzo(a)pyrene (B)	MDL	<380	600	890	99 J	<350	<29
Indeno(1,2,3-cd)pyrene	9600	<380	250 J	730	91 J	<350	<44
Dibenzo(a,h)anthracene	42	<380	96 J	300 J	<360	<350	<38
Benzo(ghi)perylene	50000	<380	230 J	770	98 J	<350	<50
Dimethylphthalate	NA	--	--	--	--	--	<27
2,6-Dinitrotoluene	3	--	--	--	--	--	<38
3-Nitroaniline	1.5	--	--	--	--	--	<51
Acenaphthene	50	--	--	--	--	--	<36
<u>METALS in mg/kg</u>							
Copper	50	8.6	171.	210.	123.	21.9	15.4
Zinc	55.7	16.9	86.8	103.	51.4	<14.0	37.5

See last page for footnotes.

Table 5. Soil Sample Results for AOPC Area 21 at the Former Unisys Facility, Great Neck, New York, April, July, September, December, 2001 Sampling Round.

CONSTITUENT	SITE	21G	21G	21G	21G	21H	21H	21H	21I
	SAMPLE ID		21G (0-1)	21G (4-5)	21G (9-10)	21H (0-1)	21H (4-5)	21H (9-10)	21I (0-1)
	DATE	7/12/2001	7/12/2001	7/12/2001	7/12/2001	7/12/2001	7/12/2001	7/12/2001	7/12/2001
	DEPTH (FEET BLS)	26.5	0-1	4-5	9-10	0-1	4-5	9-10	0-1
<u>Closure</u>									
<u>Performance</u>									
<u>Standard (A)</u>									
<u>Volatile Organic Compounds</u>									
<u>in ug/kg</u>									
Chloromethane	NA	<10.4	--	--	--	--	--	--	--
Bromomethane	4950	<10.4 J	--	--	--	--	--	--	--
Vinyl Chloride	342	<10.4	--	--	--	--	--	--	--
Chloroethane	5550	<10.4	--	--	--	--	--	--	--
Methylene Chloride	300	<8	--	--	--	--	--	--	--
Acetone	NA	<8	--	--	--	--	--	--	--
Carbon Disulfide	NA	<5.2	--	--	--	--	--	--	--
Vinyl Acetate	NA	<10.4	--	--	--	--	--	--	--
1,1-Dichloroethene	975	<5.2	--	--	--	--	--	--	--
1,1-Dichloroethane	NA	<5.2	--	--	--	--	--	--	--
Cis-1,2-Dichloroethene	NA	<5.2	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	885	<5.2	--	--	--	--	--	--	--
Chloroform	NA	<5.2	--	--	--	--	--	--	--
1,2-Dichloroethane	NA	<5.2	--	--	--	--	--	--	--
2-Butanone (MEK)	NA	<10.4	--	--	--	--	--	--	--
1,1,1-Trichloroethane	2,280	<5.2	--	--	--	--	--	--	--
Carbon Tetrachloride	NA	<5.2	--	--	--	--	--	--	--
Bromodichloromethane	NA	<5.2	--	--	--	--	--	--	--
1,2-Dichloropropane	NA	<5.2	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	NA	<5.2	--	--	--	--	--	--	--
Trichloroethene	1,890	<5.2	--	--	--	--	--	--	--
Dibromochloromethane	NA	<5.2	--	--	--	--	--	--	--
1,1,2-Trichloroethane	NA	<5.2	--	--	--	--	--	--	--
Benzene	174	<5.2	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	NA	<5.2	--	--	--	--	--	--	--
Bromoform	NA	<5.2	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	NA	<10.4	--	--	--	--	--	--	--
2-Hexanone	NA	<10.4	--	--	--	--	--	--	--
Tetrachloroethene	4,155	<5.2	--	--	--	--	--	--	--
Toluene	4,500	<5	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	NA	<5.2	--	--	--	--	--	--	--
Chlorobenzene	4,950	<5.2	--	--	--	--	--	--	--
Ethylbenzene	100	<5.2	--	--	--	--	--	--	--
Styrene	NA	<5.2	--	--	--	--	--	--	--
Xylene (total)	3,600	<5.2	--	--	--	--	--	--	--

See last page for footnotes.

Table 5. Soil Sample Results for AOPC Area 21 at the Former Unisys Facility, Great Neck, New York, April, July, September, December, 2001 Sampling Round.

CONSTITUENT	SITE	21G	21G	21G	21G	21H	21H	21H	21I	
	SAMPLE ID		21G (0-1)	21G (4-5)	21G (9-10)	21H (0-1)	21H (4-5)	21H (9-10)	21I (0-1)	
	DATE	7/12/2001	7/12/2001	7/12/2001	7/12/2001	7/12/2001	7/12/2001	7/12/2001	7/12/2001	
	DEPTH (FEET BLS)	26.5	0-1	4-5	9-10	0-1	4-5	9-10	0-1	
	<u>Closure</u>									
	<u>Performance</u>									
	<u>Standard (A)</u>									
<u>Semi-Volatile Organic</u>										
<u>Compounds (SVOCs) in ug/kg</u>										
Phenol	330	<50	--	--	--	--	--	--	--	
Bis(2-chloroethyl)ether	NA	<45	--	--	--	--	--	--	--	
2-Chlorophenol	2250	<36	--	--	--	--	--	--	--	
m-Dichlorobenzene	4650	<31	--	--	--	--	--	--	--	
p-Dichlorobenzene	25500	<30	--	--	--	--	--	--	--	
Benzyl alcohol	NA	<142	--	--	--	--	--	--	--	
o-Dichlorobenzene	23970	<32	--	--	--	--	--	--	--	
o-Cresol	NA	<49	--	--	--	--	--	--	--	
Bis(2-chloro-1-methylethyl) ether	NA	<68	--	--	--	--	--	--	--	
p-Cresol	2550	<65	--	--	--	--	--	--	--	
N-Nitrosodipropylamine	NA	<35	--	--	--	--	--	--	--	
Hexachloroethane	NA	<35	--	--	--	--	--	--	--	
Nitrobenzene	600	<53	--	--	--	--	--	--	--	
Isophorone	13200	<39	--	--	--	--	--	--	--	
o-Nitrophenol	975	<45	--	--	--	--	--	--	--	
2,4-Dimethylphenol	NA	<50	--	--	--	--	--	--	--	
Benzoic acid	8100	<851	--	--	--	--	--	--	--	
Bis(2-chloroethoxy)methane	NA	<44	--	--	--	--	--	--	--	
2,4-Dichlorophenol	1140	<65	--	--	--	--	--	--	--	
1,2,4-Trichlorobenzene	10050	<52	--	--	--	--	--	--	--	
Naphthalene	39000	<32	--	--	--	--	--	--	--	
p-Chloroaniline	NA	<72	--	--	--	--	--	--	--	
Hexachlorobutadiene	NA	<50	--	--	--	--	--	--	--	
p-Chloro-m-cresol	NA	<55	--	--	--	--	--	--	--	
2-Methylnaphthalene	50000	<36	--	--	--	--	--	--	--	
Hexachlorocyclopentadiene	NA	<59	--	--	--	--	--	--	--	
2,4,6-Trichlorophenol	NA	<57	--	--	--	--	--	--	--	
2,4,5-Trichlorophenol	300	<62	--	--	--	--	--	--	--	
2-Chloronaphthalene	NA	<48	--	--	--	--	--	--	--	
o-Nitroaniline	1290	<54	--	--	--	--	--	--	--	
Dimethyl phthalate	NA	<27	--	--	--	--	--	--	--	
Acenaphthylene	50000	21 J	--	--	--	--	--	--	--	
2,6-Dinitrotoluene	3000	<39	--	--	--	--	--	--	--	
m-Nitroaniline	1500	<52	--	--	--	--	--	--	--	
Acenaphthene	50000	<36	--	--	--	--	--	--	--	
2,4-Dinitrophenol	600	<107	--	--	--	--	--	--	--	
p-Nitrophenol	315	<128	--	--	--	--	--	--	--	
Dibenzofuran	18600	<34	--	--	--	--	--	--	--	
2,4-Dinitrotoluene	NA	<32	--	--	--	--	--	--	--	
Diethyl phthalate	21300	<34	--	--	--	--	--	--	--	

See last page for footnotes.

Table 5. Soil Sample Results for AOPC Area 21 at the Former Unisys Facility, Great Neck, New York, April, July, September, December, 2001 Sampling Round.

CONSTITUENT	SITE	21G	21G	21G	21G	21H	21H	21H	21I
	SAMPLE ID		21G (0-1)	21G (4-5)	21G (9-10)	21H (0-1)	21H (4-5)	21H (9-10)	21I (0-1)
	DATE	7/12/2001	7/12/2001	7/12/2001	7/12/2001	7/12/2001	7/12/2001	7/12/2001	7/12/2001
	DEPTH (FEET BLS)	26.5	0-1	4-5	9-10	0-1	4-5	9-10	0-1
<u>Closure</u>									
<u>Performance</u>									
<u>Standard (A)</u>									
<u>SVOCs in ug/kg continued</u>									
4-Chlorophenyl phenyl ether	NA	<45	--	--	--	--	--	--	--
Fluorene	50000	<25	--	--	--	--	--	--	--
p-Nitroaniline	NA	<44	--	--	--	--	--	--	--
4,6-Dinitro-o-cresol	NA	<46	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	NA	<22	--	--	--	--	--	--	--
4-Bromofluorobenzene	NA	<22	--	--	--	--	--	--	--
Hexachlorobenzene	1230	<23	--	--	--	--	--	--	--
Pentachlorophenol	3000	<155	--	--	--	--	--	--	--
Phenanthrene	50000	100	--	--	--	--	--	--	--
Anthracene	50000	39	--	--	--	--	--	--	--
Carbazole	NA	<17	--	--	--	--	--	--	--
Di-n-butyl phthalate	24300	<44	--	--	--	--	--	--	--
Fluoranthene	50000	160	--	--	--	--	--	--	--
Pyrene	50000	220	--	--	--	--	--	--	--
Butyl benzyl phthalate	50000	50	--	--	--	--	--	--	--
3,3-Dichlorobenzidine	672	<71	--	--	--	--	--	--	--
Benzo(a)anthracene	8280	130	--	--	--	--	--	--	--
Chrysene	1200	150	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate (BEHP)	50000	2000	--	--	--	--	--	--	--
Di-n-octyl phthalate	50000	<59	--	--	--	--	--	--	--
Benzo(b)fluoranthene	3300	130	--	--	--	--	--	--	--
Benzo(k)fluoranthene	3300	110	--	--	--	--	--	--	--
Benzo(a)pyrene (B)	MDL	150	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	9600	130	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	42	48	--	--	--	--	--	--	--
Benzo(ghi)perylene	50000	160	--	--	--	--	--	--	--
Dimethylphthalate	NA	<27	--	--	--	--	--	--	--
2,6-Dinitrotoluene	3	<39	--	--	--	--	--	--	--
3-Nitroaniline	1.5	<52	--	--	--	--	--	--	--
Acenaphthene	50	<36	--	--	--	--	--	--	--
<u>METALS in mg/kg</u>									
Copper	50	98.5 J	15.4	11.3	392	18.3	201	72.5	14.1
Zinc	55.7	103	22.7	18.5	138	27.1	66.9	59.5	23.5

See last page for footnotes.

Table 5. Soil Sample Results for AOPC Area 21 at the Former Unisys Facility, Great Neck, New York, April, July, September, December, 2001 Sampling Round.

CONSTITUENT	SITE	21I	21I	21J	21J	21K	21K
	SAMPLE ID	21I (4-5)	21I (9-10)	21J (5)	21J(10)	21K(5)	21K(10)
	DATE	7/12/2001	7/12/2001	9/25/2001	9/25/2001	9/25/2001	9/25/2001
	DEPTH (FEET BLS)	4-5	9-10	4-5	9-10	4-5	9-10
<u>Closure</u>							
<u>Performance</u>							
<u>Standard (A)</u>							
<u>Volatile Organic Compounds</u>							
<u>in ug/kg</u>							
Chloromethane	NA	--	--	--	--	--	--
Bromomethane	4950	--	--	--	--	--	--
Vinyl Chloride	342	--	--	--	--	--	--
Chloroethane	5550	--	--	--	--	--	--
Methylene Chloride	300	--	--	--	--	--	--
Acetone	NA	--	--	--	--	--	--
Carbon Disulfide	NA	--	--	--	--	--	--
Vinyl Acetate	NA	--	--	--	--	--	--
1,1-Dichloroethene	975	--	--	--	--	--	--
1,1-Dichloroethane	NA	--	--	--	--	--	--
Cis-1,2-Dichloroethene	NA	--	--	--	--	--	--
trans-1,2-Dichloroethene	885	--	--	--	--	--	--
Chloroform	NA	--	--	--	--	--	--
1,2-Dichloroethane	NA	--	--	--	--	--	--
2-Butanone (MEK)	NA	--	--	--	--	--	--
1,1,1-Trichloroethane	2,280	--	--	--	--	--	--
Carbon Tetrachloride	NA	--	--	--	--	--	--
Bromodichloromethane	NA	--	--	--	--	--	--
1,2-Dichloropropane	NA	--	--	--	--	--	--
cis-1,3-Dichloropropene	NA	--	--	--	--	--	--
Trichloroethene	1,890	--	--	--	--	--	--
Dibromochloromethane	NA	--	--	--	--	--	--
1,1,2-Trichloroethane	NA	--	--	--	--	--	--
Benzene	174	--	--	--	--	--	--
trans-1,3-Dichloropropene	NA	--	--	--	--	--	--
Bromoform	NA	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	NA	--	--	--	--	--	--
2-Hexanone	NA	--	--	--	--	--	--
Tetrachloroethene	4,155	--	--	--	--	--	--
Toluene	4,500	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	NA	--	--	--	--	--	--
Chlorobenzene	4,950	--	--	--	--	--	--
Ethylbenzene	100	--	--	--	--	--	--
Styrene	NA	--	--	--	--	--	--
Xylene (total)	3,600	--	--	--	--	--	--

See last page for footnotes.

Table 5. Soil Sample Results for AOPC Area 21 at the Former Unisys Facility, Great Neck, New York, April, July, September, December, 2001 Sampling Round.

CONSTITUENT	SITE	21I	21I	21J	21J	21K	21K
	SAMPLE ID	21I (4-5)	21I (9-10)	21J (5)	21J(10)	21K(5)	21K(10)
	DATE	7/12/2001	7/12/2001	9/25/2001	9/25/2001	9/25/2001	9/25/2001
	DEPTH (FEET BLS)	4-5	9-10	4-5	9-10	4-5	9-10

Closure
Performance
Standard (A)

Semi-Volatile Organic
Compounds (SVOCs) in ug/kg

Phenol	330	--	--	--	--	--	--
Bis(2-chloroethyl)ether	NA	--	--	--	--	--	--
2-Chlorophenol	2250	--	--	--	--	--	--
m-Dichlorobenzene	4650	--	--	--	--	--	--
p-Dichlorobenzene	25500	--	--	--	--	--	--
Benzyl alcohol	NA	--	--	--	--	--	--
o-Dichlorobenzene	23970	--	--	--	--	--	--
o-Cresol	NA	--	--	--	--	--	--
Bis(2-chloro-1-methylethyl) ether	NA	--	--	--	--	--	--
p-Cresol	2550	--	--	--	--	--	--
N-Nitrosodipropylamine	NA	--	--	--	--	--	--
Hexachloroethane	NA	--	--	--	--	--	--
Nitrobenzene	600	--	--	--	--	--	--
Isophorone	13200	--	--	--	--	--	--
o-Nitrophenol	975	--	--	--	--	--	--
2,4-Dimethylphenol	NA	--	--	--	--	--	--
Benzoic acid	8100	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	NA	--	--	--	--	--	--
2,4-Dichlorophenol	1140	--	--	--	--	--	--
1,2,4-Trichlorobenzene	10050	--	--	--	--	--	--
Naphthalene	39000	--	--	--	--	--	--
p-Chloroaniline	NA	--	--	--	--	--	--
Hexachlorobutadiene	NA	--	--	--	--	--	--
p-Chloro-m-cresol	NA	--	--	--	--	--	--
2-Methylnaphthalene	50000	--	--	--	--	--	--
Hexachlorocyclopentadiene	NA	--	--	--	--	--	--
2,4,6-Trichlorophenol	NA	--	--	--	--	--	--
2,4,5-Trichlorophenol	300	--	--	--	--	--	--
2-Chloronaphthalene	NA	--	--	--	--	--	--
o-Nitroaniline	1290	--	--	--	--	--	--
Dimethyl phthalate	NA	--	--	--	--	--	--
Acenaphthylene	50000	--	--	--	--	--	--
2,6-Dinitrotoluene	3000	--	--	--	--	--	--
m-Nitroaniline	1500	--	--	--	--	--	--
Acenaphthene	50000	--	--	--	--	--	--
2,4-Dinitrophenol	600	--	--	--	--	--	--
p-Nitrophenol	315	--	--	--	--	--	--
Dibenzofuran	18600	--	--	--	--	--	--
2,4-Dinitrotoluene	NA	--	--	--	--	--	--
Diethyl phthalate	21300	--	--	--	--	--	--

See last page for footnotes.

Table 5. Soil Sample Results for AOPC Area 21 at the Former Unisys Facility, Great Neck, New York, April, July, September, December, 2001 Sampling Round.

CONSTITUENT	SITE	21I	21I	21J	21J	21K	21K
	SAMPLE ID	21I (4-5)	21I (9-10)	21J (5)	21J(10)	21K(5)	21K(10)
	DATE	7/12/2001	7/12/2001	9/25/2001	9/25/2001	9/25/2001	9/25/2001
	DEPTH (FEET BLS)	4-5	9-10	4-5	9-10	4-5	9-10
<u>Closure</u>							
<u>Performance</u>							
<u>Standard (A)</u>							
<u>SVOCs in ug/kg continued</u>							
4-Chlorophenyl phenyl ether	NA	--	--	--	--	--	--
Fluorene	50000	--	--	--	--	--	--
p-Nitroaniline	NA	--	--	--	--	--	--
4,6-Dinitro-o-cresol	NA	--	--	--	--	--	--
N-Nitrosodiphenylamine	NA	--	--	--	--	--	--
4-Bromofluorobenzene	NA	--	--	--	--	--	--
Hexachlorobenzene	1230	--	--	--	--	--	--
Pentachlorophenol	3000	--	--	--	--	--	--
Phenanthrene	50000	--	--	--	--	--	--
Anthracene	50000	--	--	--	--	--	--
Carbazole	NA	--	--	--	--	--	--
Di-n-butyl phthalate	24300	--	--	--	--	--	--
Fluoranthene	50000	--	--	--	--	--	--
Pyrene	50000	--	--	--	--	--	--
Butyl benzyl phthalate	50000	--	--	--	--	--	--
3,3-Dichlorobenzidine	672	--	--	--	--	--	--
Benzo(a)anthracene	8280	--	--	--	--	--	--
Chrysene	1200	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate (BEHP)	50000	--	--	--	--	--	--
Di-n-octyl phthalate	50000	--	--	--	--	--	--
Benzo(b)fluoranthene	3300	--	--	--	--	--	--
Benzo(k)fluoranthene	3300	--	--	--	--	--	--
Benzo(a)pyrene (B)	MDL	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	9600	--	--	--	--	--	--
Dibenzo(a,h)anthracene	42	--	--	--	--	--	--
Benzo(ghi)perylene	50000	--	--	--	--	--	--
Dimethylphthalate	NA	--	--	--	--	--	--
2,6-Dinitrotoluene	3	--	--	--	--	--	--
3-Nitroaniline	1.5	--	--	--	--	--	--
Acenaphthene	50	--	--	--	--	--	--
<u>METALS in mg/kg</u>							
Copper	50	6.6	14.2	186	82	14.1	7.7
Zinc	55.7	25.2	19.1	64	51.4	40	21.8

See last page for footnotes.

Table 5. Soil Sample Results for AOPC Area 21 at the Former Unisys Facility, Great Neck, New York,
April, July, September, December, 2001 Sampling Round.

CONSTITUENT	SITE	21G	21G	21G	21J	21J	21J
	SAMPLE ID	21G-1	21G-1	21G-1	21J-1	21J-1	21J-1
	DATE	12/17/2001	12/17/2001	12/17/2001	12/17/2001	12/17/2001	12/17/2001
	DEPTH (FEET BLS)	9-10	14-15	19-20	9-10	14-15	19-20

Closure
Performance
Standard (A)

Volatile Organic Compounds

in ug/kg

Chloromethane	NA	--	--	--	--	--	--
Bromomethane	4950	--	--	--	--	--	--
Vinyl Chloride	342	--	--	--	--	--	--
Chloroethane	5550	--	--	--	--	--	--
Methylene Chloride	300	--	--	--	--	--	--
Acetone	NA	--	--	--	--	--	--
Carbon Disulfide	NA	--	--	--	--	--	--
Vinyl Acetate	NA	--	--	--	--	--	--
1,1-Dichloroethene	975	--	--	--	--	--	--
1,1-Dichloroethane	NA	--	--	--	--	--	--
Cis-1,2-Dichloroethene	NA	--	--	--	--	--	--
trans-1,2-Dichloroethene	885	--	--	--	--	--	--
Chloroform	NA	--	--	--	--	--	--
1,2-Dichloroethane	NA	--	--	--	--	--	--
2-Butanone (MEK)	NA	--	--	--	--	--	--
1,1,1-Trichloroethane	2,280	--	--	--	--	--	--
Carbon Tetrachloride	NA	--	--	--	--	--	--
Bromodichloromethane	NA	--	--	--	--	--	--
1,2-Dichloropropane	NA	--	--	--	--	--	--
cis-1,3-Dichloropropene	NA	--	--	--	--	--	--
Trichloroethene	1,890	--	--	--	--	--	--
Dibromochloromethane	NA	--	--	--	--	--	--
1,1,2-Trichloroethane	NA	--	--	--	--	--	--
Benzene	174	--	--	--	--	--	--
trans-1,3-Dichloropropene	NA	--	--	--	--	--	--
Bromoform	NA	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	NA	--	--	--	--	--	--
2-Hexanone	NA	--	--	--	--	--	--
Tetrachloroethene	4,155	--	--	--	--	--	--
Toluene	4,500	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	NA	--	--	--	--	--	--
Chlorobenzene	4,950	--	--	--	--	--	--
Ethylbenzene	100	--	--	--	--	--	--
Styrene	NA	--	--	--	--	--	--
Xylene (total)	3,600	--	--	--	--	--	--

See last page for footnotes.

Table 5. Soil Sample Results for AOPC Area 21 at the Former Unisys Facility, Great Neck, New York, April, July, September, December, 2001 Sampling Round.

CONSTITUENT	SITE	21G	21G	21G	21J	21J	21J
	SAMPLE ID	21G-1	21G-1	21G-1	21J-1	21J-1	21J-1
	DATE	12/17/2001	12/17/2001	12/17/2001	12/17/2001	12/17/2001	12/17/2001
	DEPTH (FEET BLS)	9-10	14-15	19-20	9-10	14-15	19-20

Closure
Performance
Standard (A)

Semi-Volatile Organic**Compounds (SVOCs) in ug/kg**

Phenol	330	--	--	--	--	--	--
Bis(2-chloroethyl)ether	NA	--	--	--	--	--	--
2-Chlorophenol	2250	--	--	--	--	--	--
m-Dichlorobenzene	4650	--	--	--	--	--	--
p-Dichlorobenzene	25500	--	--	--	--	--	--
Benzyl alcohol	NA	--	--	--	--	--	--
o-Dichlorobenzene	23970	--	--	--	--	--	--
o-Cresol	NA	--	--	--	--	--	--
Bis(2-chloro-1-methylethyl) ether	NA	--	--	--	--	--	--
p-Cresol	2550	--	--	--	--	--	--
N-Nitrosodipropylamine	NA	--	--	--	--	--	--
Hexachloroethane	NA	--	--	--	--	--	--
Nitrobenzene	600	--	--	--	--	--	--
Isophorone	13200	--	--	--	--	--	--
o-Nitrophenol	975	--	--	--	--	--	--
2,4-Dimethylphenol	NA	--	--	--	--	--	--
Benzoic acid	8100	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	NA	--	--	--	--	--	--
2,4-Dichlorophenol	1140	--	--	--	--	--	--
1,2,4-Trichlorobenzene	10050	--	--	--	--	--	--
Naphthalene	39000	--	--	--	--	--	--
p-Chloroaniline	NA	--	--	--	--	--	--
Hexachlorobutadiene	NA	--	--	--	--	--	--
p-Chloro-m-cresol	NA	--	--	--	--	--	--
2-Methylnaphthalene	50000	--	--	--	--	--	--
Hexachlorocyclopentadiene	NA	--	--	--	--	--	--
2,4,6-Trichlorophenol	NA	--	--	--	--	--	--
2,4,5-Trichlorophenol	300	--	--	--	--	--	--
2-Chloronaphthalene	NA	--	--	--	--	--	--
o-Nitroaniline	1290	--	--	--	--	--	--
Dimethyl phthalate	NA	--	--	--	--	--	--
Acenaphthylene	50000	--	--	--	--	--	--
2,6-Dinitrotoluene	3000	--	--	--	--	--	--
m-Nitroaniline	1500	--	--	--	--	--	--
Acenaphthene	50000	--	--	--	--	--	--
2,4-Dinitrophenol	600	--	--	--	--	--	--
p-Nitrophenol	315	--	--	--	--	--	--
Dibenzofuran	18600	--	--	--	--	--	--
2,4-Dinitrotoluene	NA	--	--	--	--	--	--
Diethyl phthalate	21300	--	--	--	--	--	--

See last page for footnotes.

Table 5. Soil Sample Results for AOPC Area 21 at the Former Unisys Facility, Great Neck, New York, April, July, September, December, 2001 Sampling Round.

CONSTITUENT	SITE	21G	21G	21G	21J	21J	21J
	SAMPLE ID	21G-1	21G-1	21G-1	21J-1	21J-1	21J-1
	DATE	12/17/2001	12/17/2001	12/17/2001	12/17/2001	12/17/2001	12/17/2001
	DEPTH (FEET BLS)	9-10	14-15	19-20	9-10	14-15	19-20
	<u>Closure</u>						
	<u>Performance</u>						
	<u>Standard (A)</u>						
<u>SVOCs in ug/kg continued</u>							
4-Chlorophenyl phenyl ether	NA	--	--	--	--	--	--
Fluorene	50000	--	--	--	--	--	--
p-Nitroaniline	NA	--	--	--	--	--	--
4,6-Dinitro-o-cresol	NA	--	--	--	--	--	--
N-Nitrosodiphenylamine	NA	--	--	--	--	--	--
4-Bromofluorobenzene	NA	--	--	--	--	--	--
Hexachlorobenzene	1230	--	--	--	--	--	--
Pentachlorophenol	3000	--	--	--	--	--	--
Phenanthrene	50000	--	--	--	--	--	--
Anthracene	50000	--	--	--	--	--	--
Carbazole	NA	--	--	--	--	--	--
Di-n-butyl phthalate	24300	--	--	--	--	--	--
Fluoranthene	50000	--	--	--	--	--	--
Pyrene	50000	--	--	--	--	--	--
Butyl benzyl phthalate	50000	--	--	--	--	--	--
3,3-Dichlorobenzidine	672	--	--	--	--	--	--
Benzo(a)anthracene	8280	--	--	--	--	--	--
Chrysene	1200	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate (BEHP)	50000	--	--	--	--	--	--
Di-n-octyl phthalate	50000	--	--	--	--	--	--
Benzo(b)fluoranthene	3300	--	--	--	--	--	--
Benzo(k)fluoranthene	3300	--	--	--	--	--	--
Benzo(a)pyrene (B)	MDL	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	9600	--	--	--	--	--	--
Dibenzo(a,h)anthracene	42	--	--	--	--	--	--
Benzo(ghi)perylene	50000	--	--	--	--	--	--
Dimethylphthalate	NA	--	--	--	--	--	--
2,6-Dinitrotoluene	3	--	--	--	--	--	--
3-Nitroaniline	1.5	--	--	--	--	--	--
Acenaphthene	50	--	--	--	--	--	--
<u>METALS in mg/kg</u>							
Copper	50	168.0	27.6	24.5	305.0	74.0	8.2
Zinc	55.7	53.5	29.5	28.0	114.0	528	9.8

See last page for footnotes.

Table 5. Soil Sample Results for AOPC Area 21 at the Former Unisys Facility, Great Neck, New York, April, July, September, December, 2001 Sampling Round.

Exceedances above the Closure Performance Standard (CPS) are shown in **bold**.

ug/kg Micrograms per kilograms.

mg/kg Milligrams per kilograms.

BLS Below land surface.

J Estimated value.

NA Not applicable.

— Not analyzed.

MDL Method detection limit.

(A) Closure Performance Standards for organic compounds are based on NYSDEC-Recommended Soil Cleanup Objectives using a organic fraction in soil of 3%, Closure Performance Standards for inorganics are the highest of either site specific background levels, Eastern U.S. Background levels, or NYSDEC-recommended soil clean-up objectives from TAGM 94-4046.

NYSDEC New York State Department of Environmental Conservation.

Table 6. Soil Sample Results for AOPC Area 15 at the Former Unisys Facility, Great Neck, New York, April, July, September 2001 Sampling Round.

CONSTITUENT	SITE	15A	15A	15A	15A	15B	15B
	SAMPLE ID	15A/0-1	15A/4-5	15A/9-10	15A/13-15	15B/0-1	15B/4-5
	DATE	04/26/2001	04/26/2001	04/26/2001	04/26/2001	04/26/2001	04/26/2001
	DEPTH (FEET BLS)	0-1	4-5	9-10	13-15	0-1	4-5
<u>Closure Performance Standard (A)</u>							
Semi-Volatile Organic Compounds (SVOCs) in ug/kg							
Phenol	330	<6900	<380	<340	<360	<330	<330
Bis(2-chloroethyl)ether	NA	<6900	<380	<340	<360	<330	<330
2-Chlorophenol	2250	<6900	<380	<340	<360	<330	<330
m-Dichlorobenzene	4650	<6900	<380	<340	<360	<330	<330
p-Dichlorobenzene	25500	<6900	<380	<340	<360	<330	<330
Benzyl alcohol	NA	<6900	<380	<340	<360	<330	<330
o-Dichlorobenzene	23970	<6900	<380	<340	<360	<330	<330
o-Cresol	NA	<6900	<380	<340	<360	<330	<330
Bis(2-chloro-1-methylethyl) ether	NA	<6900	<380	<340	<360	<330	<330
p-Cresol	2550	<6900	<380	<340	<360	<330	<330
N-Nitrosodipropylamine	NA	<6900	<380	<340	<360	<330	<330
Hexachloroethane	NA	<6900	<380	<340	<360	<330	<330
Nitrobenzene	600	<6900	<380	<340	<360	<330	<330
Isophorone	13200	<6900	<380	<340	<360	<330	<330
o-Nitrophenol	975	<6900	<380	<340	<360	<330	<330
2,4-Dimethylphenol	NA	<6900	<380	<340	<360	<330	<330
Benzoic acid	8100	<34000	<1800	<1700	<1700	<1600	<1600
Bis(2-chloroethoxy)methane	NA	<6900	<380	<340	<360	<330	<330
2,4-Dichlorophenol	1140	<6900	<380	<340	<360	<330	<330
1,2,4-Trichlorobenzene	10050	<6900	<380	<340	<360	<330	<330
Naphthalene	39000	2100 J	<380	<340	<360	<330	340 J
p-Chloroaniline	NA	<6900	<380	<340	<360	<330	<330
Hexachlorobutadiene	NA	<6900	<380	<340	<360	<330	<330
p-Chloro-m-cresol	NA	<6900	<380	<340	<360	<330	<330
2-Methylnaphthalene	50000	1100 J	<380	<340	<360	<330	180 J
Hexachlorocyclopentadiene	NA	<6900	<380	<340	<360	<330	<330
2,4,6-Trichlorophenol	NA	<6900	<380	<340	<360	<330	<330
2,4,5-Trichlorophenol	300	<34000	<1800	<1700	<1700	<1600	<1600
2-Chloronaphthalene	NA	<6900	<380	<340	<360	<330	<330
o-Nitroaniline	1290	<34000	<1800	<1700	<1700	<1600	<1600
Dimethyl phthalate	NA	<6900	<380	<340	<360	<330	<330
Acenaphthylene	50000	150 J	<380	<340	<360	<330	37 J
2,6-Dinitrotoluene	3000	<6900	<380	<340	<360	<330	<330
m-Nitroaniline	1500	<34000	<1800	<1700	<1700	<1600	<1600
Acenaphthene	50000	4400 J	<380	<340	<360	<330	770 J
2,4-Dinitrophenol	600	<34000	<1800	<1700	<1700	<1600	<1600
p-Nitrophenol	315	<34000	<1800	<1700	<1700	<1600	<1600
Dibenzofuran	18600	2800 J	<380	<340	<360	<330	520 J
2,4-Dinitrotoluene	NA	<6900	<380	<340	<360	<330	<330
Diethyl phthalate	21300	<6900	<380	<340	<360	<330	<330
4-Chlorophenyl phenyl ether	NA	<6900	<380	<340	<360	<330	<330
Fluorene	50000	4000 J	<380	<340	<360	<330	760 J

See next page for footnotes.

Table 6. Soil Sample Results for AOPC Area 15 at the Former Unisys Facility, Great Neck, New York, April, July, September 2001 Sampling Round.

CONSTITUENT	SITE	15B	15B	15C	15C	15C	15C
	SAMPLE ID	15B/9-10	15B/14-15	15C/0-1	15C/4-5	15C/9-10	15C/14-15
	DATE	04/26/2001	04/26/2001	04/26/2001	04/26/2001	04/26/2001	04/26/2001
	DEPTH (FEET BLS)	9-10	14-15	0-1	4-5	9-10	14-15
<u>Closure</u>							
<u>Performance</u>							
<u>Standard (A)</u>							
Semi-Volatile Organic							
Compounds (SVOCs) in ug/kg							
Phenol	330	<330	<330	<370	<340	<350	<360
Bis(2-chloroethyl)ether	NA	<330	<330	<370	<340	<350	<360
2-Chlorophenol	2250	<330	<330	<370	<340	<350	<360
m-Dichlorobenzene	4650	<330	<330	<370	<340	<350	<360
p-Dichlorobenzene	25500	<330	<330	<370	<340	<350	<360
Benzyl alcohol	NA	<330	<330	<370	<340	<350	<360
o-Dichlorobenzene	23970	<330	<330	<370	<340	<350	<360
o-Cresol	NA	<330	36 J	44 J	<340	<350	<360
Bis(2-chloro-1-methylethyl) ether	NA	<330	<330	<370	<340	<350	<360
p-Cresol	2550	<330	82 J	110 J	<340	23 J	56 J
N-Nitrosodipropylamine	NA	<330	<330	<370	<340	<350	<360
Hexachloroethane	NA	<330	<330	<370	<340	<350	<360
Nitrobenzene	600	<330	<330	<370	<340	<350	<360
Isophorone	13200	<330	<330	21 J	<340	<350	<360
o-Nitrophenol	975	<330	<330	<370	<340	<350	<360
2,4-Dimethylphenol	NA	<330	63 J	70 J	<340	20 J	31 J
Benzoic acid	8100	<1600	110 J	160 J	<1600	<1700	<1800
Bis(2-chloroethoxy)methane	NA	<330	<330	<370	<340	<350	<360
2,4-Dichlorophenol	1140	<330	<330	<370	<340	<350	<360
1,2,4-Trichlorobenzene	10050	<330	<330	<370	<340	<350	<360
Naphthalene	39000	<330	75 J	580	<340	<350	56 J
p-Chloroaniline	NA	<330	<330	<370	<340	<350	<360
Hexachlorobutadiene	NA	<330	<330	<370	<340	<350	<360
p-Chloro-m-cresol	NA	<330	<330	<370	<340	<350	<360
2-Methylnaphthalene	50000	<330	40 J	300 J	<340	<350	28 J
Hexachlorocyclopentadiene	NA	<330	<330	<370	<340	<350	<360
2,4,6-Trichlorophenol	NA	<330	<330	<370	<340	<350	<360
2,4,5-Trichlorophenol	300	<1600	<1600	<1800	<1600	<1700	<1800
2-Chloronaphthalene	NA	<330	<330	<370	<340	<350	<360
o-Nitroaniline	1290	<1600	<1600	<1800	<1600	<1700	<1800
Dimethyl phthalate	NA	<330	<330	<370	<340	<350	<360
Acenaphthylene	50000	<330	22 J	91 J	<340	<350	15 J
2,6-Dinitrotoluene	3000	<330	<330	<370	<340	<350	<360
m-Nitroaniline	1500	<1600	<1600	<1800	<1600	<1700	<1800
Acenaphthene	50000	<330	150 J	710	<340	<350	150 J
2,4-Dinitrophenol	600	<1600	<1600	<1800	<1600	<1700	<1800
p-Nitrophenol	315	<1600	<1600	<1800	<1600	<1700	<1800
Dibenzofuran	18600	<330	87 J	380	<340	<350	71 J
2,4-Dinitrotoluene	NA	<330	<330	<370	<340	<350	<360
Diethyl phthalate	21300	<330	<330	<370	<340	<350	<360
4-Chlorophenyl phenyl ether	NA	<330	<330	<370	<340	<350	<360
Fluorene	50000	<330	130 J	520	<340	<350	110 J

See next page for footnotes.

Table 6. Soil Sample Results for AOPC Area 15 at the Former Unisys Facility, Great Neck, New York, April, July, September 2001 Sampling Round.

CONSTITUENT	SITE	15A	15A	15A	15A	15B	15B
	SAMPLE ID	15A/0-1	15A/4-5	15A/9-10	15A/13-15	15B/0-1	15B/4-5
	DATE	04/26/2001	04/26/2001	04/26/2001	04/26/2001	04/26/2001	04/26/2001
	DEPTH (FEET BLS)	0-1	4-5	9-10	13-15	0-1	4-5
<u>Closure Performance Standard (A)</u>							
<u>SVOCs in ug/kg continued</u>							
p-Nitroaniline	NA	<34000	<1800	<1700	<1700	<1600	<1600
4,6-Dinitro-o-cresol	NA	<34000	<1800	<1700	<1700	<1600	<1600
N-Nitrosodiphenylamine	NA	<6900	<380	<340	<360	<330	<330
4-Bromofluorobenzene	NA	<6900	<380	<340	<360	<330	<330
Hexachlorobenzene	1230	<6900	<380	<340	<360	<330	<330
Pentachlorophenol	3000	<34000	<1800	<1700	<1700	<1600	<1600
Phenanthrene	50000	31000	21 J	25 J	<360	27000 J	6600
Anthracene	50000	9200	12 J	7 J	<360	<330	1900
Carbazole	NA	4600 J	12 J	<340	<360	<330	980 J
Di-n-butyl phthalate	24300	210 J	9 J	<340	11 J	<330	<330
Fluoranthene	50000	32000	29 J	28 J	<360	26000 J	6900
Pyrene	50000	34000	26 J	29 J	<360	26000 J	7000
Butyl benzyl phthalate	50000	1600 J	<380	<340	<360	<330	210 J
3,3-Dichlorobenzidine	672	<14000	<750	<690	<710	<660	<660
Benzo(a)anthracene	8280	19000	28 J	16 J	<360	<330	4100
Chrysene	1200	18000	33 J	13 J	<360	<330	4100
Bis(2-ethylhexyl)phthalate (BEHP)	50000	2300JB	44 JB	35 JB	<360	1800000 B	550 JB
Di-n-octyl phthalate	50000	<6900	<380	<340	<360	<330	<330
Benzo(b)fluoranthene	3300	13000	54 J	10 J	<360	<330	2600
Benzo(k)fluoranthene	3300	13000	76 J	15 J	<360	<330	2700
Benzo(a)pyrene (B)	MDL	14000	67 J	10 J	<360	<330	3100
Indeno(1,2,3-cd)pyrene	9600	9900	120 J	<340	<360	<330	2300
Dibenzo(a,h)anthracene	42	4500 J	46 J	<340	<360	<330	900 J
Benzo(ghi)perylene	50000	10000	150 J	<340	<360	<330	2300
<u>METALS in mg/kg</u>							
Chromium	50	24.1	16.4	14.9	5.1	80.1	16.0
Mercury	0.2	0.45	0.020	0.0079	<0.0042	0.91	0.052
Zinc	55.7	148.	29.9	25.8	<13.7	855.	34.3

Exceedances above the Closure Performance Standard (CPS) are shown in bold.

ug/kg Micrograms per kilograms.

mg/kg Milligrams per kilograms.

BLS Below land surface.

J Estimated value.

B Detected in associated blank.

NA Not applicable.

- Not analyzed.

(A) Closure Performance Standards for organic compounds are based on NYSDEC-Recommended Soil Cleanup Objectives using a organic fraction in soil of 3%, Closure Performance Standards for inorganics are the highest of either site specific background levels, Eastern U.S. Background levels, or NYSDEC-recommended soil clean-up objectives from TAGM 94-4046.

NYSDEC New York State Department of Environmental Conservation.

Table 6. Soil Sample Results for AOPC Area 15 at the Former Unisys Facility, Great Neck, New York, April, July, September 2001 Sampling Round.

CONSTITUENT	SITE	15B	15B	15C	15C	15C	15C
	SAMPLE ID	15B/9-10	15B/14-15	15C/0-1	15C/4-5	15C/9-10	15C/14-15
	DATE	04/26/2001	04/26/2001	04/26/2001	04/26/2001	04/26/2001	04/26/2001
	DEPTH (FEET BLS)	9-10	14-15	0-1	4-5	9-10	14-15
<u>Closure Performance Standard (A)</u>							
<u>SVOCs in ug/kg continued</u>							
p-Nitroaniline	NA	<1600	<1600	<1800	<1600	<1700	<1800
4,6-Dinitro-o-cresol	NA	<1600	<1600	<1800	<1600	<1700	<1800
N-Nitrosodiphenylamine	NA	<330	<330	<370	<340	<350	<360
4-Bromofluorobenzene	NA	<330	<330	<370	<340	<350	<360
Hexachlorobenzene	1230	<330	<330	<370	<340	<350	<360
Pentachlorophenol	3000	<1600	<1600	<1800	<1600	<1700	<1800
Phenanthrene	50000	<330	1300	3700E	<340	<350	1000
Anthracene	50000	<330	400	1200	<340	<350	260 J
Carbazole	NA	<330	160 J	570	<340	<350	120 J
Di-n-butyl phthalate	24300	22 J	23 J	32 J	<340	11 J	<360
Fluoranthene	50000	<330	960	3000	<340	<350	670
Pyrene	50000	<330	1000	2800	<340	<350	660
Butyl benzyl phthalate	50000	<330	180 J	<370 J	<340	<350	<360
3,3-Dichlorobenzidine	672	<660	<660	<740 J	<680	<710	<720
Benzo(a)anthracene	8280	<330	640	2000	<340	<350	460
Chrysene	1200	<330	710	2000	<340	<350	470
Bis(2-ethylhexyl)phthalate (BEHP)	50000	46 JB	930 B	270 JB	<340	110 JB	130 JB
Di-n-octyl phthalate	50000	<330	<330	<370	<340	<350	<360
Benzo(b)fluoranthene	3300	<330	490	3200 E	<340	<350	310 J
Benzo(k)fluoranthene	3300	<330	520	1800	<340	<350	370
Benzo(a)pyrene (B)	MDL	<330	490	1700	<340	<350	340 J
Indeno(1,2,3-cd)pyrene	9600	<330	340 J	510	<340	<350	190 J
Dibenzo(a,h)anthracene	42	<330	150 J	170 J	<340	<350	72 J
Benzo(ghi)perylene	50000	<330	290 J	410	<340	<350	160 J
<u>METALS in mg/kg</u>							
Chromium	50	11.5	23.2	39.0	9.1	16.8	17.4
Mercury	0.2	0.0061	0.029	0.32	<0.0033	0.016	0.036
Zinc	55.7	23.6	42.6	258.	<13.6	28.2	32.0

Exceedances above the Closure Performance Standard (CPS) are shown in bold.

ug/kg Micrograms per kilograms.

mg/kg Milligrams per kilograms.

BLS Below land surface.

J Estimated value.

B Detected in associated blank.

NA Not applicable.

- Not analyzed.

(A) Closure Performance Standards for organic compounds are based on NYSDEC-Recommended Soil Cleanup Objectives using a organic fraction in soil of 3%, Closure Performance Standards for inorganics are the highest of either site specific background levels, Eastern U.S. Background levels, or NYSDEC-recommended soil clean-up objectives from TAGM 94-4046.

NYSDEC New York State Department of Environmental Conservation.

Table 6. Soil Sample Results for AOPC Area 15 at the Former Unisys Facility, Great Neck, New York, April, July, September 2001 Sampling Round.

CONSTITUENT	SITE	15D	15E	15F	15G	15H	15I
	SAMPLE ID	15D (0-1)	15E (0-1)	15F (0-1)	15G (0-1)	15H (0-1)	15I (0-1)
	DATE	7/12/2001	7/12/2001	7/12/2001	7/12/2001	7/12/2001	7/12/2001
	DEPTH (FEET BLS)	0-1	0-1	0-1	0-1	0-1	0-1
	<u>Closure</u>						
	<u>Performance</u>						
	<u>Standard (A)</u>						
<u>Semi-Volatile Organic</u>							
<u>Compounds (SVOCs) in ug/kg</u>							
Phenol	330	--	--	--	--	--	--
Bis(2-chloroethyl)ether	NA	--	--	--	--	--	--
2-Chlorophenol	2250	--	--	--	--	--	--
m-Dichlorobenzene	4650	--	--	--	--	--	--
p-Dichlorobenzene	25500	--	--	--	--	--	--
Benzyl alcohol	NA	--	--	--	--	--	--
o-Dichlorobenzene	23970	--	--	--	--	--	--
o-Cresol	NA	--	--	--	--	--	--
Bis(2-chloro-1-methylethyl) ether	NA	--	--	--	--	--	--
p-Cresol	2550	--	--	--	--	--	--
N-Nitrosodipropylamine	NA	--	--	--	--	--	--
Hexachloroethane	NA	--	--	--	--	--	--
Nitrobenzene	600	--	--	--	--	--	--
Isophorone	13200	--	--	--	--	--	--
o-Nitrophenol	975	--	--	--	--	--	--
2,4-Dimethylphenol	NA	--	--	--	--	--	--
Benzoic acid	8100	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	NA	--	--	--	--	--	--
2,4-Dichlorophenol	1140	--	--	--	--	--	--
1,2,4-Trichlorobenzene	10050	--	--	--	--	--	--
Naphthalene	39000	--	--	--	--	--	--
p-Chloroaniline	NA	--	--	--	--	--	--
Hexachlorobutadiene	NA	--	--	--	--	--	--
p-Chloro-m-cresol	NA	--	--	--	--	--	--
2-Methylnaphthalene	50000	--	--	--	--	--	--
Hexachlorocyclopentadiene	NA	--	--	--	--	--	--
2,4,6-Trichlorophenol	NA	--	--	--	--	--	--
2,4,5-Trichlorophenol	300	--	--	--	--	--	--
2-Chloronaphthalene	NA	--	--	--	--	--	--
o-Nitroaniline	1290	--	--	--	--	--	--
Dimethyl phthalate	NA	--	--	--	--	--	--
Acenaphthylene	50000	--	--	--	--	--	--
2,6-Dinitrotoluene	3000	--	--	--	--	--	--
m-Nitroaniline	1500	--	--	--	--	--	--
Acenaphthene	50000	--	--	--	--	--	--
2,4-Dinitrophenol	600	--	--	--	--	--	--
p-Nitrophenol	315	--	--	--	--	--	--
Dibenzofuran	18600	--	--	--	--	--	--
2,4-Dinitrotoluene	NA	--	--	--	--	--	--
Diethyl phthalate	21300	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	NA	--	--	--	--	--	--
Fluorene	50000	--	--	--	--	--	--

See next page for footnotes.

Table 6. Soil Sample Results for AOPC Area 15 at the Former Unisys Facility, Great Neck, New York, April, July, September 2001 Sampling Round.

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (FEET BLS)	15D 15D (0-1) 7/12/2001 0-1	15E 15E (0-1) 7/12/2001 0-1	15F 15F (0-1) 7/12/2001 0-1	15G 15G (0-1) 7/12/2001 0-1	15H 15H (0-1) 7/12/2001 0-1	15I 15I (0-1) 7/12/2001 0-1
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Closure
Performance
Standard (A)

SVOCs in ug/kg continued

p-Nitroaniline	NA	--	--	--	--	--	--
4,6-Dinitro-o-cresol	NA	--	--	--	--	--	--
N-Nitrosodiphenylamine	NA	--	--	--	--	--	--
4-Bromofluorobenzene	NA	--	--	--	--	--	--
Hexachlorobenzene	1230	--	--	--	--	--	--
Pentachlorophenol	3000	--	--	--	--	--	--
Phenanthrene	50000	--	--	--	--	--	--
Anthracene	50000	--	--	--	--	--	--
Carbazole	NA	--	--	--	--	--	--
Di-n-butyl phthalate	24300	--	--	--	--	--	--
Fluoranthene	50000	--	--	--	--	--	--
Pyrene	50000	--	--	--	--	--	--
Butyl benzyl phthalate	50000	--	--	--	--	--	--
3,3-Dichlorobenzidine	672	--	--	--	--	--	--
Benzo(a)anthracene	8280	--	--	--	--	--	--
Chrysene	1200	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate (BEHP)	50000	--	--	--	--	--	--
Di-n-octyl phthalate	50000	--	--	--	--	--	--
Benzo(b)fluoranthene	3300	--	--	--	--	--	--
Benzo(k)fluoranthene	3300	--	--	--	--	--	--
Benzo(a)pyrene (B)	MDL	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	9600	--	--	--	--	--	--
Dibenzo(a,h)anthracene	42	--	--	--	--	--	--
Benzo(ghi)perylene	50000	--	--	--	--	--	--

METALS in mg/kg

Chromium	50	18.0 J	12.8 J	23.8 J	14.6 J	19.8 J	14.3 J
Mercury	0.2	0.16	<0.032	0.070	0.032	0.085	0.22
Zinc	55.7	29.5	21.0	63.5	25.1	29.4	52.9

Exceedances above the Closure Performance Standard (CPS) are shown in **bold**.

ug/kg Micrograms per kilograms.

mg/kg Milligrams per kilograms.

BLS Below land surface.

J Estimated value.

B Detected in associated blank.

NA Not applicable.

-- Not analyzed.

(A) Closure Performance Standards for organic compounds are based on NYSDEC-Recommended Soil Cleanup Objectives using a organic fraction in soil of 3%, Closure Performance Standards for inorganics are the highest of either site specific background levels, Eastern U.S. Background levels, or NYSDEC-recommended soil clean-up objectives from TAGM 94-4046.

NYSDEC New York State Department of Environmental Conservation.

Table 6. Soil Sample Results for AOPC Area 15 at the Former Unisys Facility, Great Neck, New York, April, July, September 2001 Sampling Round.

CONSTITUENT	SITE	15J	15K	15L	15M	15N	15J
	SAMPLE ID	15J	15K	15L	15M	15N	15J1
	DATE	9/25/2001	9/25/2001	9/25/2001	9/25/2001	9/25/2001	12/17/2001
	DEPTH (FEET BLS)	0-1	0-1	0-1	0-1	0-1	1-2

Closure
Performance
Standard (A)

Semi-Volatile Organic

Compounds (SVOCs) in ug/kg

Phenol	330	--	--	--	--	--	--
Bis(2-chloroethyl)ether	NA	--	--	--	--	--	--
2-Chlorophenol	2250	--	--	--	--	--	--
m-Dichlorobenzene	4650	--	--	--	--	--	--
p-Dichlorobenzene	25500	--	--	--	--	--	--
Benzyl alcohol	NA	--	--	--	--	--	--
o-Dichlorobenzene	23970	--	--	--	--	--	--
o-Cresol	NA	--	--	--	--	--	--
Bis(2-chloro-1-methylethyl) ether	NA	--	--	--	--	--	--
p-Cresol	2550	--	--	--	--	--	--
N-Nitrosodipropylamine	NA	--	--	--	--	--	--
Hexachloroethane	NA	--	--	--	--	--	--
Nitrobenzene	600	--	--	--	--	--	--
Isophorone	13200	--	--	--	--	--	--
o-Nitrophenol	975	--	--	--	--	--	--
2,4-Dimethylphenol	NA	--	--	--	--	--	--
Benzoic acid	8100	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	NA	--	--	--	--	--	--
2,4-Dichlorophenol	1140	--	--	--	--	--	--
1,2,4-Trichlorobenzene	10050	--	--	--	--	--	--
Naphthalene	39000	--	--	--	--	--	--
p-Chloroaniline	NA	--	--	--	--	--	--
Hexachlorobutadiene	NA	--	--	--	--	--	--
p-Chloro-m-cresol	NA	--	--	--	--	--	--
2-Methylnaphthalene	50000	--	--	--	--	--	--
Hexachlorocyclopentadiene	NA	--	--	--	--	--	--
2,4,6-Trichlorophenol	NA	--	--	--	--	--	--
2,4,5-Trichlorophenol	300	--	--	--	--	--	--
2-Chloronaphthalene	NA	--	--	--	--	--	--
o-Nitroaniline	1290	--	--	--	--	--	--
Dimethyl phthalate	NA	--	--	--	--	--	--
Acenaphthylene	50000	--	--	--	--	--	--
2,6-Dinitrotoluene	3000	--	--	--	--	--	--
m-Nitroaniline	1500	--	--	--	--	--	--
Acenaphthene	50000	--	--	--	--	--	--
2,4-Dinitrophenol	600	--	--	--	--	--	--
p-Nitrophenol	315	--	--	--	--	--	--
Dibenzofuran	18600	--	--	--	--	--	--
2,4-Dinitrotoluene	NA	--	--	--	--	--	--
Diethyl phthalate	21300	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	NA	--	--	--	--	--	--
Fluorene	50000	--	--	--	--	--	--

See next page for footnotes.

Table 6. Soil Sample Results for AOPC Area 15 at the Former Unisys Facility, Great Neck, New York, April, July, September 2001 Sampling Round.

CONSTITUENT	SITE	15J	15K	15L	15M	15N	15J
	SAMPLE ID	15J	15K	15L	15M	15N	15J1
	DATE	9/25/2001	9/25/2001	9/25/2001	9/25/2001	9/25/2001	12/17/2001
	DEPTH (FEET BLS)	0-1	0-1	0-1	0-1	0-1	1-2

	<u>Closure Performance Standard (A)</u>						
<u>SVOCs in ug/kg continued</u>							
p-Nitroaniline	NA	--	--	--	--	--	--
4,6-Dinitro-o-cresol	NA	--	--	--	--	--	--
N-Nitrosodiphenylamine	NA	--	--	--	--	--	--
4-Bromofluorobenzene	NA	--	--	--	--	--	--
Hexachlorobenzene	1230	--	--	--	--	--	--
Pentachlorophenol	3000	--	--	--	--	--	--
Phenanthrene	50000	--	--	--	--	--	--
Anthracene	50000	--	--	--	--	--	--
Carbazole	NA	--	--	--	--	--	--
Di-n-butyl phthalate	24300	--	--	--	--	--	--
Fluoranthene	50000	--	--	--	--	--	--
Pyrene	50000	--	--	--	--	--	--
Butyl benzyl phthalate	50000	--	--	--	--	--	--
3,3-Dichlorobenzidine	672	--	--	--	--	--	--
Benzo(a)anthracene	8280	--	--	--	--	--	--
Chrysene	1200	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate (BEHP)	50000	--	--	--	--	--	--
Di-n-octyl phthalate	50000	--	--	--	--	--	--
Benzo(b)fluoranthene	3300	--	--	--	--	--	--
Benzo(k)fluoranthene	3300	--	--	--	--	--	--
Benzo(a)pyrene (B)	MDL	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	9600	--	--	--	--	--	--
Dibenzo(a,h)anthracene	42	--	--	--	--	--	--
Benzo(ghi)perylene	50000	--	--	--	--	--	--
<u>METALS in mg/kg</u>							
Chromium	50	--	--	--	--	--	--
Mercury	0.2	--	--	--	--	--	--
Zinc	55.7	230	78	105	158	40.8	204.0

Exceedances above the Closure Performance Standard (CPS) are shown in bold.

ug/kg Micrograms per kilograms.

mg/kg Milligrams per kilograms.

BLS Below land surface.

J Estimated value.

B Detected in associated blank.

NA Not applicable.

-- Not analyzed.

(A) Closure Performance Standards for organic compounds are based on NYSDEC-Recommended Soil Cleanup Objectives using a organic fraction in soil of 3%, Closure Performance Standards for inorganics are the highest of either site specific background levels, Eastern U.S. Background levels, or NYSDEC-recommended soil clean-up objectives from TAGM 94-4046.

NYSDEC New York State Department of Environmental Conservation.

Table 6. Soil Sample Results for AOPC Area 15 at the Former Unisys Facility, Great Neck, New York, April, July, September 2001 Sampling Round.

CONSTITUENT	SITE	15J	15J	15B	15B	15B
	SAMPLE ID	15J1	15J1	15B1	15B1	15B1
	DATE	12/17/2001	12/17/2001	12/17/2001	12/17/2001	12/17/2001
	DEPTH (FEET BLS)	2-3	3-4	1-2	2-3	3-4

	<u>Closure Performance Standard (A)</u>					
<u>SVOCs in ug/kg continued</u>						
p-Nitroaniline	NA	--	--	--	--	--
4,6-Dinitro-o-cresol	NA	--	--	--	--	--
N-Nitrosodiphenylamine	NA	--	--	--	--	--
4-Bromofluorobenzene	NA	--	--	--	--	--
Hexachlorobenzene	1230	--	--	--	--	--
Pentachlorophenol	3000	--	--	--	--	--
Phenanthrene	50000	--	--	--	--	--
Anthracene	50000	--	--	--	--	--
Carbazole	NA	--	--	--	--	--
Di-n-butyl phthalate	24300	--	--	--	--	--
Fluoranthene	50000	--	--	--	--	--
Pyrene	50000	--	--	--	--	--
Butyl benzyl phthalate	50000	--	--	--	--	--
3,3-Dichlorobenzidine	672	--	--	--	--	--
Benzo(a)anthracene	8280	--	--	--	--	--
Chrysene	1200	--	--	--	--	--
Bis(2-ethylhexyl)phthalate (BEHP)	50000	--	--	--	--	--
Di-n-octyl phthalate	50000	--	--	--	--	--
Benzo(b)fluoranthene	3300	--	--	--	--	--
Benzo(k)fluoranthene	3300	--	--	--	--	--
Benzo(a)pyrene (B)	MDL	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	9600	--	--	--	--	--
Dibenzo(a,h)anthracene	42	--	--	--	--	--
Benzo(ghi)perylene	50000	--	--	--	--	--
<u>METALS in mg/kg</u>						
Chromium	50	--	--	--	--	--
Mercury	0.2	--	--	--	--	--
Zinc	55.7	55.6	57.4	17.2	17.9	44.3

Exceedances above the Closure Performance Standard (CPS) are shown in bold.

ug/kg Micrograms per kilograms.

mg/kg Milligrams per kilograms.

BLS Below land surface.

J Estimated value.

B Detected in associated blank.

NA Not applicable.

-- Not analyzed.

(A) Closure Performance Standards for organic compounds are based on NYSDEC-Recommended Soil Cleanup Objectives using a organic fraction in soil of 3%, Closure Performance Standards for inorganics are the highest of either site specific background levels, Eastern U.S. Background levels, or NYSDEC-recommended soil clean-up objectives from TAGM 94-4046.

NYSDEC New York State Department of Environmental Conservation.

Table 6. Soil Sample Results for AOPC Area 15 at the Former Unisys Facility, Great Neck, New York, April, July, September 2001 Sampling Round.

CONSTITUENT	SITE	15J	15J	15B	15B	15B
	SAMPLE ID	15J1	15J1	15B1	15B1	15B1
	DATE	12/17/2001	12/17/2001	12/17/2001	12/17/2001	12/17/2001
	DEPTH (FEET BLS)	2-3	3-4	1-2	2-3	3-4

Closure
Performance
Standard (A)

Semi-Volatile Organic

Compounds (SVOCs) in ug/kg

Phenol	330	--	--	--	--	--
Bis(2-chloroethyl)ether	NA	--	--	--	--	--
2-Chlorophenol	2250	--	--	--	--	--
m-Dichlorobenzene	4650	--	--	--	--	--
p-Dichlorobenzene	25500	--	--	--	--	--
Benzyl alcohol	NA	--	--	--	--	--
o-Dichlorobenzene	23970	--	--	--	--	--
o-Cresol	NA	--	--	--	--	--
Bis(2-chloro-1-methylethyl) ether	NA	--	--	--	--	--
p-Cresol	2550	--	--	--	--	--
N-Nitrosodipropylamine	NA	--	--	--	--	--
Hexachloroethane	NA	--	--	--	--	--
Nitrobenzene	600	--	--	--	--	--
Isophorone	13200	--	--	--	--	--
o-Nitrophenol	975	--	--	--	--	--
2,4-Dimethylphenol	NA	--	--	--	--	--
Benzoic acid	8100	--	--	--	--	--
Bis(2-chloroethoxy)methane	NA	--	--	--	--	--
2,4-Dichlorophenol	1140	--	--	--	--	--
1,2,4-Trichlorobenzene	10050	--	--	--	--	--
Naphthalene	39000	--	--	--	--	--
p-Chloroaniline	NA	--	--	--	--	--
Hexachlorobutadiene	NA	--	--	--	--	--
p-Chloro-m-cresol	NA	--	--	--	--	--
2-Methylnaphthalene	50000	--	--	--	--	--
Hexachlorocyclopentadiene	NA	--	--	--	--	--
2,4,6-Trichlorophenol	NA	--	--	--	--	--
2,4,5-Trichlorophenol	300	--	--	--	--	--
2-Chloronaphthalene	NA	--	--	--	--	--
o-Nitroaniline	1290	--	--	--	--	--
Dimethyl phthalate	NA	--	--	--	--	--
Acenaphthylene	50000	--	--	--	--	--
2,6-Dinitrotoluene	3000	--	--	--	--	--
m-Nitroaniline	1500	--	--	--	--	--
Acenaphthene	50000	--	--	--	--	--
2,4-Dinitrophenol	600	--	--	--	--	--
p-Nitrophenol	315	--	--	--	--	--
Dibenzofuran	18600	--	--	--	--	--
2,4-Dinitrotoluene	NA	--	--	--	--	--
Diethyl phthalate	21300	--	--	--	--	--
4-Chlorophenyl phenyl ether	NA	--	--	--	--	--
Fluorene	50000	--	--	--	--	--

See next page for footnotes.

Table 7. Soil Sample Results for AOPC Area FMP01 at the Former Unisys Facility, Great Neck, New York, April, 2001 Sampling Round.

CONSTITUENT (in mg/kg)	SITE	FPM-1A	FPM-1A	FPM-1A	FPM-1B	FPM-1B	FPM-1B
	SAMPLE ID	FPM-1A/0-1	FPM-1A/4-5	FPM-1A/9-10	FPM-1B/0-1	FPM-1B/4-5	FPM-1B/9-10
	DATE	04/26/2001	04/26/2001	04/26/2001	04/26/2001	04/26/2001	04/26/2001
	START DEPTH:	0.000	4.000	9.000	0.000	4.000	9.000
END DEPTH:	1.000	5.000	10.000	1.000	5.000	10.000	
WET CHEMISTRY:							
Nitrate		<1.25	<1.04	<1.06	<1.12	<1.04	1.22
Nitrogen		<2.5	4.73	<2.11	8.14	4.54	<2.1

mg/kg Milligrams per kilograms.

Table 8. Soil Sample Results for AOPC Area FMP8 at the Former Unisys Facility, Great Neck, New York,
April, July, September and December 2001 Sampling Rounds.

CONSTITUENT	SITE	FPM-8A	FPM-8A	FPM-8A	FPM-8A	FPM-8B
	SAMPLE ID	FPM-8A/0-1	FPM-8A/4-5	FPM-8A/9-10	FPM-8A/14-15	FPM-8B/0-1
	DATE	04/27/2001	04/27/2001	04/27/2001	04/27/2001	04/27/2001
	DEPTH (FEET BLS)	0-1	4-5	9-10	14-15	0-1
<u>Closure</u>						
<u>Performance</u>						
<u>Standard (A)</u>						
Semi-Volatile Organic						
Compounds (SVOCs) in ug/kg						
Phenol	330	<330	<340	<340	<330	<330
Bis(2-chloroethyl)ether	NA	<330	<340	<340	<330	<330
2-Chlorophenol	2250	<330	<340	<340	<330	<330
m-Dichlorobenzene	4650	<330	<340	<340	<330	<330
p-Dichlorobenzene	25500	<330	<340	<340	<330	<330
Benzyl alcohol	NA	<330	<340	<340	<330	<330
o-Dichlorobenzene	23970	<330	<340	<340	<330	<330
o-Cresol	NA	<330	<340	<340	<330	<330
Bis(2-chloro-1-methylethyl) ether	NA	<330	<340	<340	<330	<330
p-Cresol	2550	<330	<340	<340	<330	<330
N-Nitrosodipropylamine	NA	<330	<340	<340	<330	<330
Hexachloroethane	NA	<330	<340	<340	<330	<330
Nitrobenzene	600	<330	<340	<340	<330	<330
Isophorone	13200	<330	<340	<340	<330	<330
o-Nitrophenol	975	<330	<340	<340	<330	<330
2,4-Dimethylphenol	NA	<330	<340	<340	<330	<330
Benzoic acid	8100	<1600	<1600	<1600	<1600	<1600
Bis(2-chloroethoxy)methane	NA	<330	<340	<340	<330	<330
2,4-Dichlorophenol	1140	<330	<340	<340	<330	<330
1,2,4-Trichlorobenzene	10050	<330	<340	<340	<330	<330
Naphthalene	39000	<330	<340	<340	<330	<330
p-Chloroaniline	NA	<330	<340	<340	<330	<330
Hexachlorobutadiene	NA	<330	<340	<340	<330	<330
p-Chloro-m-cresol	NA	<330	<340	<340	<330	<330
2-Methylnaphthalene	50000	<330	<340	<340	<330	<330
Hexachlorocyclopentadiene	NA	<330	<340	<340	<330	<330
2,4,6-Trichlorophenol	NA	<330	<340	<340	<330	<330
2,4,5-Trichlorophenol	300	<1600	<1600	<1600	<1600	<1600
2-Chloronaphthalene	NA	<330	<340	<340	<330	<330
o-Nitroaniline	1290	<1600	<1600	<1600	<1600	<1600
Dimethyl phthalate	NA	<330	<340	<340	<330	<330
Acenaphthylene	50000	5 J	<340	<340	<330	<330
2,6-Dinitrotoluene	3000	<330	<340	<340	<330	<330
m-Nitroaniline	1500	<1600	<1600	<1600	<1600	<1600
Acenaphthene	50000	9 J	<340	<340	<330	<330
2,4-Dinitrophenol	600	<1600	<1600	<1600	<1600	<1600
p-Nitrophenol	315	<1600	<1600	<1600	<1600	<1600
Dibenzofuran	18600	<330	<340	<340	<330	<330
2,4-Dinitrotoluene	NA	<330	<340	<340	<330	<330
Diethyl phthalate	21300	<330	<340	<340	<330	<330
4-Chlorophenyl phenyl ether	NA	<330	<340	<340	<330	<330
Fluorene	50000	<330	<340	<340	<330	<330

See last page for footnotes.

Table 8. Soil Sample Results for AOPC Area FMP8 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Rounds.

CONSTITUENT	SITE	FPM-8A	FPM-8A	FPM-8A	FPM-8A	FPM-8B
	SAMPLE ID	FPM-8A/0-1	FPM-8A/4-5	FPM-8A/9-10	FPM-8A/14-15	FPM-8B/0-1
	DATE	04/27/2001	04/27/2001	04/27/2001	04/27/2001	04/27/2001
	DEPTH (FEET BLS)	0-1	4-5	9-10	14-15	0-1
<u>Closure</u>						
<u>Performance</u>						
<u>Standard (A)</u>						
<u>SVOCs continued</u>						
p-Nitroaniline	NA	<1600	<1600	<1600	<1600	<1600
4,6-Dinitro-o-cresol	NA	<1600	<1600	<1600	<1600	<1600
N-Nitrosodiphenylamine	NA	<330	<340	<340	<330	<330
4-Bromofluorobenzene	NA	<330	<340	<340	<330	<330
Hexachlorobenzene	1230	<330	<340	<340	<330	<330
Pentachlorophenol	3000	<1600	<1600	<1600	<1600	<1600
Phenanthrene	50000	80 J	21 J	<340	<330	<330
Anthracene	50000	22 J	6 J	<340	<330	<330
Carbazole	NA	11 J	<340	<340	<330	<330
Di-n-butyl phthalate	24300	<330	<340	<340	<330	<330
Fluoranthene	50000	100 J	29 J	<340	<330	<330
Pyrene	50000	110 J	32 J	<340	<330	<330
Butyl benzyl phthalate	50000	<330	<340	<340	<330	<330
3,3-Dichlorobenzidine	672	<660	<670	<670	<660	<670
Benzo(a)anthracene	8280	69 J	21 J	<340	<330	<330
Chrysene	1200	79 J	21 J	<340	<330	<330
Bis(2-ethylhexyl)phthalate (BEHP)	50000	<330	<340	<340	<330	<330
Di-n-octyl phthalate	50000	<330	<340	<340	<330	<330
Benzo(b)fluoranthene	3300	64 J	17 J	<340	<330	<330
Benzo(k)fluoranthene	3300	68 J	17 J	<340	<330	<330
Benzo(a)pyrene (B)	MDL	70 J	19 J	<340	<330	<330
Indeno(1,2,3-cd)pyrene	9600	59 J	12 J	<340	<330	<330
Dibenzo(a,h)anthracene	42	22 J	<340	<340	<330	<330
Benzo(ghi)perylene	50000	70 J	13 J	<340	<330	<330
<u>Volatile Organic Compounds (VOCs)</u>						
<u>in ug/kg</u>						
Chloromethane	NA	<10	<10	<10	<10	<10
Bromomethane	4950	<10	<10	<10	<10	<10
Vinyl chloride	342	<10	<10	<10	<10	<10
Chloroethane	5550	<10	<10	<10	<10	<10
Methylene chloride	300	<8 J	<8 J	<8 J	<6 J	<7 J
Acetone	330	<24	<24	<27	<10	<10
Carbon disulfide	8100	<5	<5	<5	<5	<5
Vinyl Acetate	NA	<10 J	<10 J	<10 J	<10 J	<10 J
1,1-Dichloroethylene	975	<5	<5	<5	<5	<5
1,1-Dichloroethane	450	<5	<5	<5	<5	<5
cis-1,2-Dichloroethene	NA	<5	<5	<5	<5	<5
trans-1,2-Dichloroethene	885	<5	<5	<5	<5	<5
1,2-Dichloroethane	210	<5	<5	<5	<5	<5
Chloroform	NA	<5	<5	<5	<5	<5
1,2-Dichloroethene	NA	—	—	—	—	—

See last page for footnotes.

Table 8. Soil Sample Results for AOPC Area FMP8 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Rounds.

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (FEET BLS)	FPM-8A FPM-8A/0-1 04/27/2001 0-1	FPM-8A FPM-8A/4-5 04/27/2001 4-5	FPM-8A FPM-8A/9-10 04/27/2001 9-10	FPM-8A FPM-8A/14-15 04/27/2001 14-15	FPM-8B FPM-8B/0-1 04/27/2001 0-1
<u>Closure</u>						
<u>Performance</u>						
<u>Standard (A)</u>						
<u>VOCs (cont'd)</u>						
2-Butanone	NA	3 J	4 J	4 J	3 J	<10
1,1,1-Trichloroethane	2280	<5	<5	<5	5	<5
Carbon tetrachloride	1650	<5	<5	<5	5	<5
Bromodichloromethane	NA	<5	5	<5	5	<5
1,2-Dichloropropane	NA	<5	5	<5	5	<5
cis-1,3-Dichloropropene	NA	<5	5	<5	5	<5
Trichloroethene	1890	<5	5	<5	5	<5
Dibromochloromethane	NA	<5	5	<5	5	<5
1,1,2-Trichloroethane	NA	<5	5	<5	5	<5
Benzene	174	<5	5	<5	5	<5
trans-1,3-Dichloropropene	NA	<5	5	<5	5	<5
Bromoform	NA	<5	5	<5	5	<5
4-Methyl-2-pentanone	2850	<10	<10	<10	<10	<10
2-Hexanone	NA	<10	<10	<10	<10	<10
Tetrachloroethene	4155	<5	5	<5	5	<5
Toluene	4500	<5	5	<5	5	<5
1,1,2,2-Tetrachloroethane	1770	<5	5	<5	5	<5
Chlorobenzene	4950	<5	5	<5	5	<5
Ethylbenzene	10000	<5	5	<5	5	<5
Styrene	NA	<5	5	<5	5	<5
Xylene (total)	3600	<5	5	<5	5	<5
<u>METALS in mg/kg</u>						
Antimony	NA	<7.6	<6.3	<7.1	<7.3	<7.1
Arsenic	12	<5.7	<4.7	<5.3	<5.5	<5.4
Beryllium	1.75	<0.95	<0.79	<0.88	<0.91	<0.89
Cadmium	10	<1.9	<1.6	<1.8	<1.8	<1.8
Chromium	50	10.	8.6	16.0	11.5	7.6
Copper	50	18.4	15.3	11.0	9.3	9.6
Lead	500	6.1	5.6	<4.4	<4.6	<4.5
Mercury	0.2	0.12	0.033	<0.0032	<0.0029	<0.0031
Nickel	28.5	16.8	16.9	15.3	17.4	14.0
Selenium	3.9	<9.5	<7.9	<8.8	<9.1	<8.9
Silver	NA	<1.9	<1.6	<1.8	<1.8	<1.8
Thallium	NA	<14.2	<11.8	<13.2	<13.7	<13.4
Zinc	55.7	19.6	18.7	17.2	36.8	<13.4

See last page for footnotes.

Table 8. Soil Sample Results for AOPC Area FMP8 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Rounds.

CONSTITUENT	SITE	FPM-8B	FPM-8B	FPM-8B	FPM-8C	FPM-8C
	SAMPLE ID	FPM-8B/4-5	FPM-8B/9-10	FPM-8B/14-15	FPM-8C/0-1	FPM-8C/4-5
	DATE	04/27/2001	04/27/2001	04/27/2001	04/27/2001	04/27/2001
	DEPTH (FEET BLS)	4-5	9-10	14-15	0-1	4-5
<u>Closure Performance Standard (A)</u>						
Semi-Volatile Organic Compounds (SVOCs) in ug/kg						
Phenol	330	<350	<340	<340	<340	<350
Bis(2-chloroethyl)ether	NA	<350	<340	<340	<340	<350
2-Chlorophenol	2250	<350	<340	<340	<340	<350
m-Dichlorobenzene	4650	<350	<340	<340	<340	<350
p-Dichlorobenzene	25500	<350	<340	<340	<340	<350
Benzyl alcohol	NA	<350	<340	<340	<340	<350
o-Dichlorobenzene	23970	<350	<340	<340	<340	<350
o-Cresol	NA	<350	<340	<340	<340	<350
Bis(2-chloro-1-methylethyl) ether	NA	<350	<340	<340	<340	<350
p-Cresol	2550	<350	<340	<340	<340	<350
N-Nitrosodipropylamine	NA	<350	<340	<340	<340	<350
Hexachloroethane	NA	<350	<340	<340	<340	<350
Nitrobenzene	600	<350	<340	<340	<340	<350
Isophorone	13200	<350	<340	<340	<340	<350
o-Nitrophenol	975	<350	<340	<340	<340	<350
2,4-Dimethylphenol	NA	<350	<340	<340	<340	<350
Benzoic acid	8100	<1700	<1600	<1600	<1700	8 J
Bis(2-chloroethoxy)methane	NA	<350	<340	<340	<340	<350
2,4-Dichlorophenol	1140	<350	<340	<340	<340	<350
1,2,4-Trichlorobenzene	10050	<350	<340	<340	<340	<350
Naphthalene	39000	10 J	<340	<340	<340	5 J
p-Chloroaniline	NA	<350	<340	<340	<340	<350
Hexachlorobutadiene	NA	<350	<340	<340	<340	<350
p-Chloro-m-cresol	NA	<350	<340	<340	<340	<350
2-Methylnaphthalene	50000	<350	<340	<340	<340	<350
Hexachlorocyclopentadiene	NA	<350	<340	<340	<340	<350
2,4,6-Trichlorophenol	NA	<350	<340	<340	<340	<350
2,4,5-Trichlorophenol	300	<1700	<1600	<1600	<1700	<1700
2-Chloronaphthalene	NA	<350	<340	<340	<340	<350
o-Nitroaniline	1290	<1700	<1600	<1600	<1700	<1700
Dimethyl phthalate	NA	<350	<340	<340	<340	<350
Acenaphthylene	50000	7 J	<340	<340	<340	69 J
2,6-Dinitrotoluene	3000	<350	<340	<340	<340	<350
m-Nitroaniline	1500	<1700	<1600	<1600	<1700	<1700
Acenaphthene	50000	33 J	<340	<340	<340	<350
2,4-Dinitrophenol	600	<1700	<1600	<1600	<1700	<1700
p-Nitrophenol	315	<1700	<1600	<1600	<1700	<1700
Dibenzofuran	18600	11 J	<340	<340	<340	<350
2,4-Dinitrotoluene	NA	<350	<340	<340	<340	<350
Diethyl phthalate	21300	<350	<340	<340	<340	<350
4-Chlorophenyl phenyl ether	NA	<350	<340	<340	<340	<350
Fluorene	50000	22 J	<340	<340	<340	4 J

See last page for footnotes.

Table 8. Soil Sample Results for AOPC Area FMP8 at the Former Unisys Facility, Great Neck, New York,
April, July, September and December 2001 Sampling Rounds.

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (FEET BLS)	FPM-8B FPM-8B/4-5 04/27/2001 4-5	FPM-8B FPM-8B/9-10 04/27/2001 9-10	FPM-8B FPM-8B/14-15 04/27/2001 14-15	FPM-8C FPM-8C/0-1 04/27/2001 0-1	FPM-8C FPM-8C/4-5 04/27/2001 4-5
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Closure
Performance
Standard (A)

SVOCs continued

p-Nitroaniline	NA	<1700	<1600	<1600	<1700	<1700
4,6-Dinitro-o-cresol	NA	<1700	<1600	<1600	<1700	<1700
N-Nitrosodiphenylamine	NA	<350	<340	<340	<340	<350
4-Bromofluorobenzene	NA	<350	<340	<340	<340	<350
Hexachlorobenzene	1230	<350	<340	<340	<340	<350
Pentachlorophenol	3000	<1700	<1600	<1600	<1700	<1700
Phenanthrene	50000	280 J	<340	<340	<340	90 J
Anthracene	50000	72 J	<340	<340	<340	65 J
Carbazole	NA	30 J	<340	<340	<340	5 J
Di-n-butyl phthalate	24300	<350	<340	<340	<340	<350
Fluoranthene	50000	420	<340	<340	<340	480
Pyrene	50000	420	<340	<340	<340	440
Butyl benzyl phthalate	50000	31 J	<340	<340	<340	8 J
3,3-Dichlorobenzidine	672	<690	<680	<680	<690	<700
Benzo(a)anthracene	8280	280 J	<340	<340	<340	380
Chrysene	1200	330 J	<340	<340	<340	300 J
Bis(2-ethylhexyl)phthalate (BEHP)	50000	<350	<340	<340	<340	<350
Di-n-octyl phthalate	50000	<350	<340	<340	<340	<350
Benzo(b)fluoranthene	3300	210 J	<340	<340	<340	250 JB
Benzo(k)fluoranthene	3300	270 J	<340	<340	<340	340 JB
Benzo(a)pyrene (B)	MDL	260 J	<340	<340	<340	270 JB
Indeno(1,2,3-cd)pyrene	9600	220 J	<340	<340	<340	150 JB
Dibenzo(a,h)anthracene	42	92 J	<340	<340	<340	37 J
Benzo(ghi)perylene	50000	230 J	<340	<340	<340	150 JB

Volatile Organic Compounds (VOCs)

in ug/kg

Chloromethane	NA	<10	<10	<8	<10	<9
Bromomethane	4950	<10	<10	<8	<10	<9
Vinyl chloride	342	<10	<10	<8	<10	<9
Chloroethane	5550	<10	<10	<8	<10	<9
Methylene chloride	300	<7 J	<6 J	<6 J	<10 J	<6 J
Acetone	330	<10	<10	<12	<33	<22
Carbon disulfide	8100	<5	<5	<4	<5	<4
Vinyl Acetate	NA	<10 J	<10 J	<8 J	<10 J	<9
1,1-Dichloroethylene	975	<5	<5	<4	<5	<4
1,1-Dichloroethane	450	<5	<5	<4	<5	<4
cis-1,2-Dichloroethene	NA	<5	<5	<4	<5	<4
trans-1,2-Dichloroethene	885	<5	<5	<4	<5	<4
1,2-Dichloroethane	210	<5	<5	<4	<5	<4
Chloroform	NA	<5	5	<4	<5	<4
1,2-Dichloroethene	NA	—	—	—	—	—

See last page for footnotes.

Table 8. Soil Sample Results for AOPC Area FMP8 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Rounds.

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (FEET BLS)	FPM-8B FPM-8B/4-5 04/27/2001 4-5	FPM-8B FPM-8B/9-10 04/27/2001 9-10	FPM-8B FPM-8B/14-15 04/27/2001 14-15	FPM-8C FPM-8C/0-1 04/27/2001 0-1	FPM-8C FPM-8C/4-5 04/27/2001 4-5
<u>Closure Performance Standard (A)</u>						
<u>VOCs (cont'd)</u>						
2-Butanone	NA	<10	<10	4 J	4 J	<4
1,1,1-Trichloroethane	2280	<5	<5	<4	<5	<4
Carbon tetrachloride	1650	<5	<5	<4	<5	<4
Bromodichloromethane	NA	<5	<5	<4	<5	<4
1,2-Dichloropropane	NA	<5	<5	<4	<5	<4
cis-1,3-Dichloropropane	NA	<5	<5	<4	<5	<4
Trichloroethene	1890	<5	<5	<4	<5	<4
Dibromochloromethane	NA	<5	<5	<4	<5	<4
1,1,2-Trichloroethane	NA	<5	<5	<4	<5	<4
Benzene	174	<5	<5	<4	<5	0.2 J
trans-1,3-Dichloropropane	NA	<5	<5	<4	<5	<4
Bromoform	NA	<5	<5	<4	<5	<4
4-Methyl-2-pentanone	2850	<10	<10	<8	<10	<9
2-Hexanone	NA	<10	<10	<8	<10	<9
Tetrachloroethene	4155	<5	<5	<4	<5	0.6 J
Toluene	4500	<5	<5	<4	<5	1 J
1,1,1,2-Tetrachloroethane	1770	<5	<5	<4	<5	<4
Chlorobenzene	4950	<5	<5	<4	<5	0.2 J
Ethylbenzene	10000	<5	<5	<4	<5	<4
Styrene	NA	<5	<5	<4	<5	0.3 J
Xylene (total)	3600	<5	<5	<4	<5	0.4 J
<u>METALS in mg/kg</u>						
Antimony	NA	<7.7	<7.2	<7.3	<7.6	<7.7
Arsenic	12	<5.8	<5.4	<5.5	<5.7	7.0
Beryllium	1.75	<0.96	<0.90	<0.91	<0.95	<0.97
Cadmium	10	<1.9	<1.8	<1.8	<1.9	<1.9
Chromium	50	12.0	5.5	6.4	14.4	10.6
Copper	50	52.6	<4.5	4.6	20.6	20.7
Lead	500	29.1	<4.5	<4.6	<4.7	5.0
Mercury	0.2	0.068	<0.0031	<0.0031	<0.0027	0.026
Nickel	28.5	14.9	8.1	13.6	26.7	14.9
Selenium	3.9	<9.6	<9.0	<9.1	<9.5	<9.7
Silver	NA	<1.9	<1.8	<1.8	<1.9	<1.9
Thallium	NA	<14.4	<13.4	<13.7	<14.2	<14.5
Zinc	55.7	56.2	<13.4	<13.7	24.9	52.2

See last page for footnotes.

Table 8. Soil Sample Results for AOPC Area FMP8 at the Former Unisys Facility, Great Neck, New York,
April, July, September and December 2001 Sampling Rounds.

CONSTITUENT	SITE	FPM-8C	FPM-8C	FPM-8D	FPM-8D	FPM-8D
	SAMPLE ID	FPM-8C/9-10	FPM-8C/14-15	FPM-8D/0-1	FPM-8D/4-5	FPM-8D/9-10
	DATE	04/27/2001	04/27/2001	04/27/2001	04/27/2001	04/27/2001
	DEPTH (FEET BLS)	9-10	14-15	0-1	4-5	9-10
	<u>Closure</u>					
	<u>Performance</u>					
	<u>Standard (A)</u>					
Semi-Volatile Organic						
Compounds (SVOCs) in ug/kg						
Phenol	330	<340	5 J	<370	<350	<350
Bis(2-chloroethyl)ether	NA	<340	<340	<370	<350	<350
2-Chlorophenol	2250	<340	<340	<370	<350	<350
m-Dichlorobenzene	4650	<340	<340	<370	<350	<350
p-Dichlorobenzene	25500	<340	<340	<370	<350	<350
Benzyl alcohol	NA	<340	<340	<370	<350	<350
o-Dichlorobenzene	23970	<340	<340	<370	<350	<350
o-Cresol	NA	<340	<340	<370	<350	<350
Bis(2-chloro-1-methylethyl) ether	NA	<340	<340	<370	<350	<350
p-Cresol	2550	<340	6 J	<370	<350	<350
N-Nitrosodipropylamine	NA	<340	<340	<370	<350	<350
Hexachloroethane	NA	<340	<340	<370	<350	<350
Nitrobenzene	600	<340	<340	<370	<350	<350
Isophorone	13200	<340	<340	<370	<350	<350
o-Nitrophenol	975	<340	<340	<370	<350	<350
2,4-Dimethylphenol	NA	<340	<340	<370	<350	<350
Benzoic acid	8100	<1600	9 J	<1800	<1700	8 J
Bis(2-chloroethoxy)methane	NA	<340	<340	<370	<350	<350
2,4-Dichlorophenol	1140	<340	<340	<370	<350	<350
1,2,4-Trichlorobenzene	10050	<340	<340	<370	<350	<350
Naphthalene	39000	<340	46 J	22 J	<350	<350
p-Chloroaniline	NA	<340	<340	<370	<350	<350
Hexachlorobutadiene	NA	<340	<340	<370	<350	<350
p-Chloro-m-cresol	NA	<340	<340	<370	<350	<350
2-Methylnaphthalene	50000	<340	43 J	19 J	<350	<350
Hexachlorocyclopentadiene	NA	<340	<340	<370	<350	<350
2,4,6-Trichlorophenol	NA	<340	<340	<370	<350	<350
2,4,5-Trichlorophenol	300	<1600	<1700	<1800	<1700	<1700
2-Chloronaphthalene	NA	<340	<340	<370	<350	<350
o-Nitroaniline	1290	<1600	<1700	<1800	<1700	<1700
Dimethyl phthalate	NA	<340	<340	<370	<350	<350
Acenaphthylene	50000	<340	220 J	26 J	<350	<350
2,6-Dinitrotoluene	3000	<340	<340	<370	<350	<350
m-Nitroaniline	1500	<1600	<1700	<1800	<1700	<1700
Acenaphthene	50000	<340	25 J	85 J	<350	<350
2,4-Dinitrophenol	600	<1600	<1700	<1800	<1700	<1700
p-Nitrophenol	315	<1600	<1700	<1800	<1700	<1700
Dibenzofuran	18600	<340	18 J	37 J	<350	<350
2,4-Dinitrotoluene	NA	<340	<340	<370	<350	<350
Diethyl phthalate	21300	<340	<340	<370	<350	<350
4-Chlorophenyl phenyl ether	NA	<340	<340	<370	<350	<350
Fluorene	50000	<340	26 J	85 J	<350	<350

See last page for footnotes.

Table 8. Soil Sample Results for AOPC Area FMP8 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Rounds.

CONSTITUENT	SITE	FPM-8C	FPM-8C	FPM-8D	FPM-8D	FPM-8D
	SAMPLE ID	FPM-8C/9-10	FPM-8C/14-15	FPM-8D/0-1	FPM-8D/4-5	FPM-8D/9-10
	DATE	04/27/2001	04/27/2001	04/27/2001	04/27/2001	04/27/2001
	DEPTH (FEET BLS)	9-10	14-15	0-1	4-5	9-10
<u>Closure Performance Standard (A)</u>						
<u>SVOCs continued</u>						
p-Nitroaniline	NA	<1600	<1700	<1800	<1700	<1700
4,6-Dinitro-o-cresol	NA	<1600	<1700	<1800	<1700	<1700
N-Nitrosodiphenylamine	NA	<340	<340	<370	<350	<350
4-Bromofluorobenzene	NA	<340	<340	<370	<350	<350
Hexachlorobenzene	1230	<340	<340	<370	<350	<350
Pentachlorophenol	3000	<1600	<1700	<1800	<1700	<1700
Phenanthrene	50000	<340	320 J	660	8 J	<350
Anthracene	50000	<340	210 J	200 J	<350	<350
Carbazole	NA	<340	37 J	100 J	<350	<350
Di-n-butyl phthalate	24300	<340	<340	<370	<350	<350
Fluoranthene	50000	<340	960	870	20 J	<350
Pyrene	50000	2 J	1100	770	16 J	2 J
Butyl benzyl phthalate	50000	<340	93 J	72 J	8 J	3 J
3,3-Dichlorobenzidine	672	<670	<680	<740	<700	<700
Benzo(a)anthracene	8280	<340	950	550	10 J	<350
Chrysene	1200	<340	860	500	8 J	<350
Bis(2-ethylhexyl)phthalate (BEHP)	50000	<340	350 U	<370	<350	<350
Di-n-octyl phthalate	50000	<340	<340	<370	<350	<350
Benzo(b)fluoranthene	3300	<340	770 B	400 B	<350	<350
Benzo(k)fluoranthene	3300	<340	760 B	470 B	<350	<350
Benzo(a)pyrene (B)	MDL	<340	790 B	420 B	<350	<350
Indeno(1,2,3-cd)pyrene	9600	<340	700 B	320 JB	<350	<350
Dibenzo(a,h)anthracene	42	<340	270 J	120 J	<350	<350
Benzo(ghi)perylene	50000	<340	770 B	360 JB	<350	<350
<u>Volatile Organic Compounds (VOCs)</u>						
<u>in ug/kg</u>						
Chloromethane	NA	<10	<10	<10	<10	<11
Bromomethane	4950	<10	<10	<10	<10	<11
Vinyl chloride	342	<10	<10	<10	<10	<11
Chloroethane	5550	<10	<10	<10	<10	<11
Methylene chloride	300	<10 J	<20 J	<8 J	<11 J	<9 J
Acetone	330	<11	<18	<70	<20	<11
Carbon disulfide	8100	<5	<5 J	<5	<5	<5
Vinyl Acetate	NA	<10	<10 J	<10	<10	<11
1,1-Dichloroethylene	975	<5	<5 J	<5	<5	<5
1,1-Dichloroethane	450	<5	<5 J	<5	<5	<5
cis-1,2-Dichloroethene	NA	<5	<5 J	<5	<5	<5
trans-1,2-Dichloroethene	885	<5	<5 J	<5	<5	<5
1,2-Dichloroethane	210	<5	<5 J	<5	<5	<5
Chloroform	NA	<5	<5 J	<5	<5	<5
1,2-Dichloroethene	NA	—	—	—	—	—

See last page for footnotes.

Table 8. Soil Sample Results for AOPC Area FMP8 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Rounds.

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (FEET BLS)	FPM-8D FPM-8D/13-15 04/27/2001 13-15	FPM-8E FPM-8E/0-1 04/27/2001 0-1	FPM-8E FPM-8E/4-5 04/27/2001 4-5	FPM-8E FPM-8E/9-10 04/27/2001 9-10	FPM-8E FPM-8E/14-15 04/27/2001 14-15
<u>Closure</u>						
<u>Performance</u>						
<u>Standard (A)</u>						
<u>Semi-Volatile Organic</u>						
<u>Compounds (SVOCs) in ug/kg</u>						
Phenol	330	<370	<370	<370	<340	<340
Bis(2-chloroethyl)ether	NA	<370	<370	<370	<340	<340
2-Chlorophenol	2250	<370	<370	<370	<340	<340
m-Dichlorobenzene	4650	<370	<370	<370	<340	<340
p-Dichlorobenzene	25500	<370	<370	<370	<340	<340
Benzyl alcohol	NA	<370	<370	<370	<340	<340
o-Dichlorobenzene	23970	<370	<370	<370	<340	<340
o-Cresol	NA	<370	<370	<370	<340	<340
Bis(2-chloro-1-methylethyl) ether	NA	<370	<370	<370	<340	<340
p-Cresol	2550	<370	<370	<370	<340	<340
N-Nitrosodipropylamine	NA	<370	<370	<370	<340	<340
Hexachloroethane	NA	<370	<370	<370	<340	<340
Nitrobenzene	600	<370	<370	<370	<340	<340
Isophorone	13200	<370	<370	<370	<340	<340
o-Nitrophenol	975	<370	<370	<370	<340	<340
2,4-Dimethylphenol	NA	<370	<370	<370	<340	<340
Benzoic acid	8100	<1800	<1800	<1800	<1600	<1700
Bis(2-chloroethoxy)methane	NA	<370	<370	<370	<340	<340
2,4-Dichlorophenol	1140	<370	<370	<370	<340	<340
1,2,4-Trichlorobenzene	10050	<370	<370	<370	<340	<340
Naphthalene	39000	<370	13 J	6 J	<340	<340
p-Chloroaniline	NA	<370	<370	<370	<340	<340
Hexachlorobutadiene	NA	<370	<370	<370	<340	<340
p-Chloro-m-cresol	NA	<370	<370	<370	<340	<340
2-Methylnaphthalene	50000	<370	11 J	4 J	<340	<340
Hexachlorocyclopentadiene	NA	<370	<370	<370	<340	<340
2,4,6-Trichlorophenol	NA	<370	<370	<370	<340	<340
2,4,5-Trichlorophenol	300	<1800	<1800	<1800	<1600	<1700
2-Chloronaphthalene	NA	<370	<370	<370	<340	<340
o-Nitroaniline	1290	<1800	<1800	<1800	<1600	<1700
Dimethyl phthalate	NA	<370	<370	<370	<340	<340
Acenaphthylene	50000	<370	22 J	8 J	<340	<340
2,6-Dinitrotoluene	3000	<370	<370	<370	<340	<340
m-Nitroaniline	1500	<1800	<1800	<1800	<1600	<1700
Acenaphthene	50000	<370	48 J	37 J	<340	<340
2,4-Dinitrophenol	600	<1800	<1800	<1800	<1600	<1700
p-Nitrophenol	315	<1800	<1800	<1800	<1600	<1700
Dibenzofuran	18600	<370	18 J	10 J	<340	<340
2,4-Dinitrotoluene	NA	<370	<370	<370	<340	<340
Diethyl phthalate	21300	<370	<370	<370	28 JB	<340
4-Chlorophenyl phenyl ether	NA	<370	<370	<370	<340	<340
Fluorene	50000	<370	45 J	28 J	<340	<340

See last page for footnotes.

Table 8. Soil Sample Results for AOPC Area FMP8 at the Former Unisys Facility, Great Neck, New York,
April, July, September and December 2001 Sampling Rounds.

CONSTITUENT	SITE	FPM-8C	FPM-8C	FPM-8D	FPM-8D	FPM-8D
	SAMPLE ID	FPM-8C/9-10	FPM-8C/14-15	FPM-8D/0-1	FPM-8D/4-5	FPM-8D/9-10
	DATE	04/27/2001	04/27/2001	04/27/2001	04/27/2001	04/27/2001
	DEPTH (FEET BLS)	9-10	14-15	0-1	4-5	9-10
<u>Closure Performance Standard (A)</u>						
VOCs (cont'd)						
2-Butanone	NA	<10	3 J	<10	<10	<11
1,1,1-Trichloroethane	2280	<5	<5 J	<5	<5	<5
Carbon tetrachloride	1650	<5	<5 J	<5	<5	<5
Bromodichloromethane	NA	<5	<5 J	<5	<5	<5
1,2-Dichloropropane	NA	<5	<5 J	<5	<5	<5
cis-1,3-Dichloropropene	NA	<5	<5 J	<5	<5	<5
Trichloroethene	1890	<5	<5 J	<5	<5	<5
Dibromochloromethane	NA	<5	<5 J	<5	<5	<5
1,1,2-Trichloroethane	NA	<5	<5 J	<5	<5	<5
Benzene	174	<5	0.3 J	<5	<5	<5
trans-1,3-Dichloropropene	NA	<5	<5 J	<5	<5	<5
Bromoform	NA	<5	<5 J	<5	<5	<5
4-Methyl-2-pentanone	2850	<10	<10 J	<10	<10	<11
2-Hexanone	NA	<10	<10 J	<10	<10	<11
Tetrachloroethene	4155	<5	4 J	<5	<5	<5
Toluene	4500	<5	<22 J	0.8 J	<5	<5
1,1,1,2-Tetrachloroethane	1770	<5	<5J	<5	<5	<5
Chlorobenzene	4950	<5	<5J	<5	<5	<5
Ethylbenzene	10000	<5	<5J	<5	<5	<5
Styrene	NA	<5	<5J	<5	<5	<5
Xylene (total)	3600	<5	<5J	0.3 J	<5	<5
METALS in mg/kg						
Antimony	NA	<7.9	<7.1	<8.0	<6.8	<8.0
Arsenic	12	<5.9	<5.3	10.1	<5.1	<6.0
Beryllium	1.75	<0.98	<0.88	<1.0	<0.84	<1.0
Cadmium	10	<2.0	<1.8	<2.0	<1.7	<2.0
Chromium	50	9.0	12.2	19.3	18.3	11.5
Copper	50	12.1	20.8	45.4	13.5	10.1
Lead	500	<4.9	7.1	57.5	7.3	<5.0
Mercury	0.2	<0.0031	0.026	0.48	0.024	<0.0031
Nickel	28.5	20.0	14.7	17.1	15.8	10.1
Selenium	3.9	<9.8	<8.8	<10.	<8.4	<10.
Silver	NA	<2.0	<1.8	<2.0	<1.7	<2.0
Thallium	NA	<14.7	<13.3	<15.0	<12.7	<15.0
Zinc	55.7	19.3	26.9	68.0	22.2	18.1

See last page for footnotes.

Table 8. Soil Sample Results for AOPC Area FMP8 at the Former Unisys Facility, Great Neck, New York,
 April, July, September and December 2001 Sampling Rounds.

CONSTITUENT	SITE	FPM-8D	FPM-8E	FPM-8E	FPM-8E	FPM-8E
	SAMPLE ID	FPM-8D/13-15	FPM-8E/0-1	FPM-8E/4-5	FPM-8E/9-10	FPM-8E/14-15
	DATE	04/27/2001	04/27/2001	04/27/2001	04/27/2001	04/27/2001
	DEPTH (FEET BLS)	13-15	0-1	4-5	9-10	14-15
<u>Closure</u>						
<u>Performance</u>						
<u>Standard (A)</u>						
<u>SVOCs continued</u>						
p-Nitroaniline	NA	<1800	<1800	<1800	<1600	<1700
4,6-Dinitro-o-cresol	NA	<1800	<1800	<1800	<1600	<1700
N-Nitrosodiphenylamine	NA	<370	<370	<370	<340	<340
4-Bromofluorobenzene	NA	<370	<370	<370	<340	<340
Hexachlorobenzene	1230	<370	<370	<370	<340	<340
Pentachlorophenol	3000	<1800	<1800	<1800	<1600	<1700
Phenanthrene	50000	12 J	470	270 J	26 J	<340
Anthracene	50000	3 J	140 J	81 J	5 J	<340
Carbazole	NA	<370	72 J	44 J	<340	<340
Di-n-butyl phthalate	24300	<370	<370	<370	<340	<340
Fluoranthene	50000	30 J	820	460	74 J	<340
Pyrene	50000	23 J	760	400	54 J	2 J
Butyl benzyl phthalate	50000	3 J	20 J	<370	<340	<340
3,3-Dichlorobenzidine	672	<730	<740	<740	<680	<690
Benzo(a)anthracene	8280	14 J	480	280 J	34 J	<340
Chrysene	1200	12 J	440	220 J	28 J	<340
Bis(2-ethylhexyl)phthalate (BEHP)	50000	<370	<370	<370	<340	<340
Di-n-octyl phthalate	50000	<370	<370	<370	<340	<340
Benzo(b)fluoranthene	3300	<370	330 JB	200 JB	<340	<340
Benzo(k)fluoranthene	3300	<370	430 B	230 JB	<340	<340
Benzo(a)pyrene (B)	MDL	<370	350 JB	200 JB	<340	<340
Indeno(1,2,3-cd)pyrene	9600	<370	270 JB	130 JB	<340	<340
Dibenzo(a,h)anthracene	42	<370	100 J	49 J	5 J	<340
Benzo(ghi)perylene	50000	<370	300 JB	130 JB	<340	<340
<u>Volatile Organic Compounds (VOCs)</u>						
<u>in ug/kg</u>						
Chloromethane	NA	<10	<11	<10	<10	<10
Bromomethane	4950	<10	<11	<10	<10	<10
Vinyl chloride	342	<10	<11	<10	<10	<10
Chloroethane	5550	<10	<11	<10	<10	<10
Methylene chloride	300	<11 J	<9 J	<8 J	<11J	<12J
Acetone	330	<10	<78	<15	<10	<11
Carbon disulfide	8100	<5	<6	<5	<5	<5
Vinyl Acetate	NA	<10	<11	<10	<10	<10
1,1-Dichloroethylene	975	<5	<6	<5	<5	<5
1,1-Dichloroethane	450	<5	<6	<5	<5	<5
cis-1,2-Dichloroethene	NA	<5	<6	<5	<5	<5
trans-1,2-Dichloroethene	885	<5	<6	<5	<5	<5
1,2-Dichloroethane	210	<5	<6	<5	<5	<5
Chloroform	NA	<5	<6	<5	<5	<5
1,2-Dichloroethene	NA	—	—	—	—	—

See last page for footnotes.

Table 8. Soil Sample Results for AOPC Area FMP8 at the Former Unisys Facility, Great Neck, New York,
April, July, September and December 2001 Sampling Rounds.

CONSTITUENT	SITE	FPM-8D	FPM-8E	FPM-8E	FPM-8E	FPM-8E
	SAMPLE ID	FPM-8D/13-15	FPM-8E/0-1	FPM-8E/4-5	FPM-8E/9-10	FPM-8E/14-15
	DATE	04/27/2001	04/27/2001	04/27/2001	04/27/2001	04/27/2001
	DEPTH (FEET BLS)	13-15	0-1	4-5	9-10	14-15
<u>Closure</u>						
<u>Performance</u>						
<u>Standard (A)</u>						
<u>VOCs (cont'd)</u>						
2-Butanone	NA	2 J	<14	<5	<10	3 J
1,1,1-Trichloroethane	2280	<5	<6	<5	<5	<5
Carbon tetrachloride	1650	<5	<6	<5	<5	<5
Bromodichloromethane	NA	<5	<6	<5	<5	<5
1,2-Dichloropropane	NA	<5	<6	<5	<5	<5
cis-1,3-Dichloropropene	NA	<5	<6	<5	<5	<5
Trichloroethene	1890	<5	<6	<5	<5	<5
Dibromochloromethane	NA	<5	<6	<5	<5	<5
1,1,2-Trichloroethane	NA	<5	<6	<5	<5	<5
Benzene	174	<5	<6	<5	<5	<5
trans-1,3-Dichloropropene	NA	<5	<6	<5	<5	<5
Bromoform	NA	<5	<6	<5	<5	<5
4-Methyl-2-pentanone	2850	<10	<11	<10	<10	<10
2-Hexanone	NA	<10	<11	<10	<10	<10
Tetrachloroethene	4155	<5	<6	<5	<5	<5
Toluene	4500	<5	0.9 J	0.5 J	<5	<5
1,1,2,2-Tetrachloroethane	1770	<5	<6	<5	<5	<5
Chlorobenzene	4950	<5	<6	<5	<5	<5
Ethylbenzene	10000	<5	<6	<5	<5	<5
Styrene	NA	<5	<6	<5	<5	<5
Xylene (total)	3600	<5	2 J	<5	<5	<5
<u>METALS in mg/kg</u>						
Antimony	NA	<7.7	<8.0	<7.5	<8.3	<6.5
Arsenic	12	<5.8	13.3	<5.6	8.2	<4.8
Beryllium	1.75	<0.97	<1.0	<0.94	<1.0	<0.81
Cadmium	10	<1.9	<2.0	<1.9	<2.1	<1.6
Chromium	50	20.7	28.3	16.3	15.3	11.4
Copper	50	13.4	57.0	20.0	16.7	17.4
Lead	500	5.8	49.0	16.0	<5.2	<4.0
Mercury	0.2	0.012	0.12	0.058	<0.0043	<0.0043
Nickel	28.5	14.1	17.2	17.5	12.9	16.1
Selenium	3.9	<9.7	<10.	<9.4	<10.4	<8.1
Silver	NA	<1.9	<2.0	<1.9	<2.1	<1.6
Thallium	NA	<14.5	<15.0	<14.0	<15.6	<12.1
Zinc	55.7	32.5	89.2	32.2	22.6	15.9

See last page for footnotes.

Table 8. Soil Sample Results for AOPC Area FMP8 at the Former Unisys Facility, Great Neck, New York,
April, July, September and December 2001 Sampling Rounds.

CONSTITUENT	SITE	FPM-8F	FPM-8G	FPM-8H	FPM-8I	FPM-8J	FPM-8K	FPM-8L
	SAMPLE ID	FPM-8F	FPM-8G	FPM-8H	FPM-8I	FPM-8J	FPM-8K	FPM-8L
	DATE	7/12/2001	7/12/2001	7/12/2001	7/12/2001	7/12/2001	9/25/2001	9/25/2001
	DEPTH (FEET BLS)	0-1	0-1	0-1	0-1	0-1	0-1	0-1

Closure
Performance
Standard (A)

**Semi-Volatile Organic
Compounds (SVOCs) in ug/kg**

Phenol	330	--	--	--	--	--	--	--
Bis(2-chloroethyl)ether	NA	--	--	--	--	--	--	--
2-Chlorophenol	2250	--	--	--	--	--	--	--
m-Dichlorobenzene	4650	--	--	--	--	--	--	--
p-Dichlorobenzene	25500	--	--	--	--	--	--	--
Benzyl alcohol	NA	--	--	--	--	--	--	--
o-Dichlorobenzene	23970	--	--	--	--	--	--	--
o-Cresol	NA	--	--	--	--	--	--	--
Bis(2-chloro-1-methylethyl) ether	NA	--	--	--	--	--	--	--
p-Cresol	2550	--	--	--	--	--	--	--
N-Nitrosodipropylamine	NA	--	--	--	--	--	--	--
Hexachloroethane	NA	--	--	--	--	--	--	--
Nitrobenzene	600	--	--	--	--	--	--	--
Isophorone	13200	--	--	--	--	--	--	--
o-Nitrophenol	975	--	--	--	--	--	--	--
2,4-Dimethylphenol	NA	--	--	--	--	--	--	--
Benzoic acid	8100	--	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	NA	--	--	--	--	--	--	--
2,4-Dichlorophenol	1140	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	10050	--	--	--	--	--	--	--
Naphthalene	39000	--	--	--	--	--	--	--
p-Chloroaniline	NA	--	--	--	--	--	--	--
Hexachlorobutadiene	NA	--	--	--	--	--	--	--
p-Chloro-m-cresol	NA	--	--	--	--	--	--	--
2-Methylnapthalene	50000	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	NA	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	NA	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	300	--	--	--	--	--	--	--
2-Chloronaphthalene	NA	--	--	--	--	--	--	--
o-Nitroaniline	1290	--	--	--	--	--	--	--
Dimethyl phthalate	NA	--	--	--	--	--	--	--
Acenaphthylene	50000	--	--	--	--	--	--	--
2,6-Dinitrotoluene	3000	--	--	--	--	--	--	--
m-Nitroaniline	1500	--	--	--	--	--	--	--
Acenaphthene	50000	--	--	--	--	--	--	--
2,4-Dinitrophenol	600	--	--	--	--	--	--	--
p-Nitrophenol	315	--	--	--	--	--	--	--
Dibenzofuran	18600	--	--	--	--	--	--	--
2,4-Dinitrotoluene	NA	--	--	--	--	--	--	--
Diethyl phthalate	21300	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	NA	--	--	--	--	--	--	--
Fluorene	50000	--	--	--	--	--	--	--

See last page for footnotes.

Table 8. Soil Sample Results for AOPC Area FMP8 at the Former Unisys Facility, Great Neck, New York,
April, July, September and December 2001 Sampling Rounds.

CONSTITUENT	SITE	FPM-8F	FPM-8G	FPM-8H	FPM-8I	FPM-8J	FPM-8K	FPM-8L
	SAMPLE ID	FPM-8F	FPM-8G	FPM-8H	FPM-8I	FPM-8J	FPM-8K	FPM-8L
	DATE	7/12/2001	7/12/2001	7/12/2001	7/12/2001	7/12/2001	9/25/2001	9/25/2001
	DEPTH (FEET BLS)	0-1	0-1	0-1	0-1	0-1	0-1	0-1

Closure
Performance
Standard (A)

SVOCs continued

p-Nitroaniline	NA	--	--	--	--	--	--	--
4,6-Dinitro-o-cresol	NA	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	NA	--	--	--	--	--	--	--
4-Bromofluorobenzene	NA	--	--	--	--	--	--	--
Hexachlorobenzene	1230	--	--	--	--	--	--	--
Pentachlorophenol	3000	--	--	--	--	--	--	--
Phenanthrene	50000	--	--	--	--	--	--	--
Anthracene	50000	--	--	--	--	--	--	--
Carbazole	NA	--	--	--	--	--	--	--
Di-n-butyl phthalate	24300	--	--	--	--	--	--	--
Fluoranthene	50000	--	--	--	--	--	--	--
Pyrene	50000	--	--	--	--	--	--	--
Butyl benzyl phthalate	50000	--	--	--	--	--	--	--
3,3-Dichlorobenzidine	672	--	--	--	--	--	--	--
Benzo(a)anthracene	8280	--	--	--	--	--	--	--
Chrysene	1200	--	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate (BEHP)	50000	--	--	--	--	--	--	--
Di-n-octyl phthalate	50000	--	--	--	--	--	--	--
Benzo(b)fluoranthene	3300	--	--	--	--	--	--	--
Benzo(k)fluoranthene	3300	--	--	--	--	--	--	--
Benzo(a)pyrene (B)	MDL	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	9600	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	42	--	--	--	--	--	--	--
Benzo(ghi)perylene	50000	--	--	--	--	--	--	--

Volatile Organic Compounds (VOCs)

in ug/kg

Chloromethane	NA	--	--	--	--	--	--	--
Bromomethane	4950	--	--	--	--	--	--	--
Vinyl chloride	342	--	--	--	--	--	--	--
Chloroethane	5550	--	--	--	--	--	--	--
Methylene chloride	300	--	--	--	--	--	--	--
Acetone	330	--	--	--	--	--	--	--
Carbon disulfide	8100	--	--	--	--	--	--	--
Vinyl Acetate	NA	--	--	--	--	--	--	--
1,1-Dichloroethylene	975	--	--	--	--	--	--	--
1,1-Dichloroethane	450	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	NA	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	885	--	--	--	--	--	--	--
1,2-Dichloroethane	210	--	--	--	--	--	--	--
Chloroform	NA	--	--	--	--	--	--	--
1,2-Dichloroethene	NA	--	--	--	--	--	--	--

See last page for footnotes.

Table 8. Soil Sample Results for AOPC Area FMP8 at the Former Unisys Facility, Great Neck, New York,
April, July, September and December 2001 Sampling Rounds.

CONSTITUENT	SITE	FPM-8F	FPM-8G	FPM-8H	FPM-8I	FPM-8J	FPM-8K	FPM-8L
	SAMPLE ID	FPM-8F	FPM-8G	FPM-8H	FPM-8I	FPM-8J	FPM-8K	FPM-8L
	DATE	7/12/2001	7/12/2001	7/12/2001	7/12/2001	7/12/2001	9/25/2001	9/25/2001
	DEPTH (FEET BLS)	0-1	0-1	0-1	0-1	0-1	0-1	0-1

Closure
Performance
Standard (A)

VOCs (cont'd)

2-Butanone	NA	--	--	--	--	--	--	--
1,1,1-Trichloroethane	2280	--	--	--	--	--	--	--
Carbon tetrachloride	1650	--	--	--	--	--	--	--
Bromodichloromethane	NA	--	--	--	--	--	--	--
1,2-Dichloropropane	NA	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	NA	--	--	--	--	--	--	--
Trichloroethene	1890	--	--	--	--	--	--	--
Dibromochloromethane	NA	--	--	--	--	--	--	--
1,1,2-Trichloroethane	NA	--	--	--	--	--	--	--
Benzene	174	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	NA	--	--	--	--	--	--	--
Bromoform	NA	--	--	--	--	--	--	--
4-Methyl-2-pentanone	2850	--	--	--	--	--	--	--
2-Hexanone	NA	--	--	--	--	--	--	--
Tetrachloroethene	4155	--	--	--	--	--	--	--
Toluene	4500	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	1770	--	--	--	--	--	--	--
Chlorobenzene	4950	--	--	--	--	--	--	--
Ethylbenzene	10000	--	--	--	--	--	--	--
Styrene	NA	--	--	--	--	--	--	--
Xylene (total)	3600	--	--	--	--	--	--	--

METALS in mg/kg

Antimony	NA	--	--	--	--	--	--	--
Arsenic	12	--	--	26.1	24.6	6.5	4.8	7.9
Beryllium	1.75	--	--	--	--	--	--	--
Cadmium	10	--	--	--	--	--	--	--
Chromium	50	--	--	18.9	50.3	19.3	--	--
Copper	50	--	--	--	--	--	--	--
Lead	500	--	--	--	--	--	--	--
Mercury	0.2	0.16 J	0.59 J	0.69 J	--	--	0.15	0.58
Nickel	28.5	--	--	--	--	--	--	--
Selenium	3.9	<0.98	<0.90	<1.0	<1.0	1 BJ	--	--
Silver	NA	--	--	--	--	--	--	--
Thallium	NA	--	--	--	--	--	--	--
Zinc	55.7	--	--	111	123	43.4	22.9	33.1

See last page for footnotes.

Table 8. Soil Sample Results for AOPC Area FMP8 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Rounds.

CONSTITUENT	SITE	FPM-8L	FPM-8L	FPM-8L	FPM-8H	FPM-8H	FPM-8H
	SAMPLE ID	FPM-8L1	FPM-8L1	FPM-8L1	FPM-8H1	FPM-8H1	FPM-8H1
	DATE	12/17/2001	12/17/2001	12/17/2001	12/17/2001	12/17/2001	12/17/2001
	DEPTH (FEET BLS)	1-2	2-3	3-4	1-2	2-3	3-4

Closure
Performance
Standard (A)

Semi-Volatile Organic
Compounds (SVOCs) in ug/kg

Phenol	330	--	--	--	--	--	--
Bis(2-chloroethyl)ether	NA	--	--	--	--	--	--
2-Chlorophenol	2250	--	--	--	--	--	--
m-Dichlorobenzene	4650	--	--	--	--	--	--
p-Dichlorobenzene	25500	--	--	--	--	--	--
Benzyl alcohol	NA	--	--	--	--	--	--
o-Dichlorobenzene	23970	--	--	--	--	--	--
o-Cresol	NA	--	--	--	--	--	--
Bis(2-chloro-1-methylethyl) ether	NA	--	--	--	--	--	--
p-Cresol	2550	--	--	--	--	--	--
N-Nitrosodipropylamine	NA	--	--	--	--	--	--
Hexachloroethane	NA	--	--	--	--	--	--
Nitrobenzene	600	--	--	--	--	--	--
Isophorone	13200	--	--	--	--	--	--
o-Nitrophenol	975	--	--	--	--	--	--
2,4-Dimethylphenol	NA	--	--	--	--	--	--
Benzoic acid	8100	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	NA	--	--	--	--	--	--
2,4-Dichlorophenol	1140	--	--	--	--	--	--
1,2,4-Trichlorobenzene	10050	--	--	--	--	--	--
Naphthalene	39000	--	--	--	--	--	--
p-Chloroaniline	NA	--	--	--	--	--	--
Hexachlorobutadiene	NA	--	--	--	--	--	--
p-Chloro-m-cresol	NA	--	--	--	--	--	--
2-Methylnaphthalene	50000	--	--	--	--	--	--
Hexachlorocyclopentadiene	NA	--	--	--	--	--	--
2,4,6-Trichlorophenol	NA	--	--	--	--	--	--
2,4,5-Trichlorophenol	300	--	--	--	--	--	--
2-Chloronaphthalene	NA	--	--	--	--	--	--
o-Nitroaniline	1290	--	--	--	--	--	--
Dimethyl phthalate	NA	--	--	--	--	--	--
Acenaphthylene	50000	--	--	--	--	--	--
2,6-Dinitrotoluene	3000	--	--	--	--	--	--
m-Nitroaniline	1500	--	--	--	--	--	--
Acenaphthene	50000	--	--	--	--	--	--
2,4-Dinitrophenol	600	--	--	--	--	--	--
p-Nitrophenol	315	--	--	--	--	--	--
Dibenzofuran	18600	--	--	--	--	--	--
2,4-Dinitrotoluene	NA	--	--	--	--	--	--
Diethyl phthalate	21300	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	NA	--	--	--	--	--	--
Fluorene	50000	--	--	--	--	--	--

See last page for footnotes.

Table 8. Soil Sample Results for AOPC Area FMP8 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Rounds.

CONSTITUENT	SITE	FPM-8L	FPM-8L	FPM-8L	FPM-8H	FPM-8H	FPM-8H
	SAMPLE ID	FPM-8L1	FPM-8L1	FPM-8L1	FPM-8H1	FPM-8H1	FPM-8H1
	DATE	12/17/2001	12/17/2001	12/17/2001	12/17/2001	12/17/2001	12/17/2001
	DEPTH (FEET BLS)	1-2	2-3	3-4	1-2	2-3	3-4

Closure
Performance
Standard (A)

SVOCs continued

p-Nitroaniline	NA	--	--	--	--	--	--
4,6-Dinitro-o-cresol	NA	--	--	--	--	--	--
N-Nitrosodiphenylamine	NA	--	--	--	--	--	--
4-Bromofluorobenzene	NA	--	--	--	--	--	--
Hexachlorobenzene	1230	--	--	--	--	--	--
Pentachlorophenol	3000	--	--	--	--	--	--
Phenanthrene	50000	--	--	--	--	--	--
Anthracene	50000	--	--	--	--	--	--
Carbazole	NA	--	--	--	--	--	--
Di-n-butyl phthalate	24300	--	--	--	--	--	--
Fluoranthene	50000	--	--	--	--	--	--
Pyrene	50000	--	--	--	--	--	--
Butyl benzyl phthalate	50000	--	--	--	--	--	--
3,3-Dichlorobenzidine	672	--	--	--	--	--	--
Benzo(a)anthracene	8280	--	--	--	--	--	--
Chrysene	1200	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate (BEHP)	50000	--	--	--	--	--	--
Di-n-octyl phthalate	50000	--	--	--	--	--	--
Benzo(b)fluoranthene	3300	--	--	--	--	--	--
Benzo(k)fluoranthene	3300	--	--	--	--	--	--
Benzo(a)pyrene (B)	MDL	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	9600	--	--	--	--	--	--
Dibenzo(a,h)anthracene	42	--	--	--	--	--	--
Benzo(ghi)perylene	50000	--	--	--	--	--	--

Volatile Organic Compounds (VOCs)

in ug/kg

Chloromethane	NA	--	--	--	--	--	--
Bromomethane	4950	--	--	--	--	--	--
Vinyl chloride	342	--	--	--	--	--	--
Chloroethane	5550	--	--	--	--	--	--
Methylene chloride	300	--	--	--	--	--	--
Acetone	330	--	--	--	--	--	--
Carbon disulfide	8100	--	--	--	--	--	--
Vinyl Acetate	NA	--	--	--	--	--	--
1,1-Dichloroethylene	975	--	--	--	--	--	--
1,1-Dichloroethane	450	--	--	--	--	--	--
cis-1,2-Dichloroethene	NA	--	--	--	--	--	--
trans-1,2-Dichloroethene	885	--	--	--	--	--	--
1,2-Dichloroethane	210	--	--	--	--	--	--
Chloroform	NA	--	--	--	--	--	--
1,2-Dichloroethene	NA	--	--	--	--	--	--

See last page for footnotes.

Table 8. Soil Sample Results for AOPC Area FMP8 at the Former Unisys Facility, Great Neck, New York,
April, July, September and December 2001 Sampling Rounds.

CONSTITUENT	SITE	FPM-8L	FPM-8L	FPM-8L	FPM-8H	FPM-8H	FPM-8H
	SAMPLE ID	FPM-8L1	FPM-8L1	FPM-8L1	FPM-8H1	FPM-8H1	FPM-8H1
	DATE	12/17/2001	12/17/2001	12/17/2001	12/17/2001	12/17/2001	12/17/2001
	DEPTH (FEET BLS)	1-2	2-3	3-4	1-2	2-3	3-4

Closure
Performance
Standard (A)

VOCs (cont'd)

2-Butanone	NA	--	--	--	--	--	--
1,1,1-Trichloroethane	2280	--	--	--	--	--	--
Carbon tetrachloride	1650	--	--	--	--	--	--
Bromodichloromethane	NA	--	--	--	--	--	--
1,2-Dichloropropane	NA	--	--	--	--	--	--
cis-1,3-Dichloropropene	NA	--	--	--	--	--	--
Trichloroethene	1890	--	--	--	--	--	--
Dibromochloromethane	NA	--	--	--	--	--	--
1,1,2-Trichloroethane	NA	--	--	--	--	--	--
Benzene	174	--	--	--	--	--	--
trans-1,3-Dichloropropene	NA	--	--	--	--	--	--
Bromoform	NA	--	--	--	--	--	--
4-Methyl-2-pentanone	2850	--	--	--	--	--	--
2-Hexanone	NA	--	--	--	--	--	--
Tetrachloroethene	4155	--	--	--	--	--	--
Toluene	4500	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	1770	--	--	--	--	--	--
Chlorobenzene	4950	--	--	--	--	--	--
Ethylbenzene	10000	--	--	--	--	--	--
Styrene	NA	--	--	--	--	--	--
Xylene (total)	3600	--	--	--	--	--	--

METALS in mg/kg

Antimony	NA	--	--	--	--	--	--
Arsenic	12	3.4	5.6	8.2	4.7	3.6	11.5
Beryllium	1.75	--	--	--	--	--	--
Cadmium	10	--	--	--	--	--	--
Chromium	50	--	--	--	--	--	--
Copper	50	--	--	--	--	--	--
Lead	500	--	--	--	--	--	--
Mercury	0.2	--	--	--	--	--	--
Nickel	28.5	--	--	--	--	--	--
Selenium	3.9	--	--	--	--	--	--
Silver	NA	--	--	--	--	--	--
Thallium	NA	--	--	--	--	--	--
Zinc	55.7	43.0	308	47.6	26.7	19.4	70.2

See last page for footnotes.

Table 8. Soil Sample Results for AOPC Area FMP8 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Rounds.

Exceedances above the Closure Performance Standard (CPS) are shown in **bold**.

ug/kg	Micrograms per kilograms.
mg/kg	Milligrams per kilograms.
J	Estimated value.
B	Detected in associated blank for organics.
B	Between instrument detection limit and contract required detection limit for metals.
BLS	Below land surface.
NA	Not applicable.
--	Not analyzed.
MDL	Method detection limit.
(A)	Closure Performance Standards for organic compounds are based on NYSDEC-Recommended Soil Cleanup Objectives using a organic fraction in soil of 3%, Closure Performance Standards for inorganics are the highest of either site specific background levels, Eastern U.S. Background levels, or NYSDEC-recommended soil clean-up objectives from TAGM 94-4046.
NYSDEC	New York State Department of Environmental Conservation.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

CONSTITUENT	SITE	FPM-19A	FPM-19A	FPM-19A	FPM-19B	FPM-19B
	SAMPLE ID	FPM-19A/0-1	FPM-19A/4-5	FPM-19A/9-10	FPM-19B/0-1	FPM-19B/4-5
	DATE	04/30/2001	04/30/2001	04/30/2001	04/30/2001	04/30/2001
	DEPTH (FEET BLS)	0-1	4-5	9-10	0-1	4-5
<u>Closure</u>						
<u>Performance</u>						
<u>Standard (A)</u>						
Semi-Volatile Organic						
Compounds (SVOCs) in ug/kg						
Phenol	330	<360	<340	<340	<350	<330
Bis(2-chloroethyl)ether	NA	<360	<340	<340	<350	<330
2-Chlorophenol	2250	<360	<340	<340	<350	<330
m-Dichlorobenzene	4650	<360	<340	<340	<350	<330
p-Dichlorobenzene	25500	<360	<340	<340	<350	<330
Benzyl alcohol	NA	<360	<340	<340	<350	<330
o-Dichlorobenzene	23970	<360	<340	<340	<350	<330
o-Cresol	NA	<360	<340	<340	<350	<330
Bis(2-chloro-1-methylethyl) ether	NA	<360	<340	<340	<350	<330
p-Cresol	2550	<360	<340	<340	<350	<330
N-Nitrosodipropylamine	NA	<360	<340	<340	<350	<330
Hexachloroethane	NA	<360	<340	<340	<350	<330
Nitrobenzene	600	<360	<340	<340	<350	<330
Isophorone	13200	<360	<340	<340	<350	<330
o-Nitrophenol	975	<360	<340	<340	<350	<330
2,4-Dimethylphenol	NA	<360	<340	<340	<350	<330
Benzoic acid	8100	<1700	<1600	<1600	<1700	<1600
Bis(2-chloroethoxy)methane	NA	<360	<340	<340	<350	<330
2,4-Dichlorophenol	1140	<360	<340	<340	<350	<330
1,2,4-Trichlorobenzene	10050	<360	<340	<340	<350	<330
Naphthalene	39000	14 J	<340	<340	12 J	<330
p-Chloroaniline	NA	<360	<340	<340	<350	<330
Hexachlorobutadiene	NA	<360	<340	<340	<350	<330
p-Chloro-m-cresol	NA	<360	<340	<340	<350	<330
2-Methylnaphthalene	50000	8 J	<340	<340	6 J	<330
Hexachlorocyclopentadiene	NA	<360	<340	<340	<350	<330
2,4,6-Trichlorophenol	NA	<360	<340	<340	<350	<330
2,4,5-Trichlorophenol	300	<1700	<1600	<1600	<1700	<1600
2-Chloronaphthalene	NA	<360	<340	<340	<350	<330
o-Nitroaniline	1290	<1700	<1600	<1600	<1700	<1600
Dimethyl phthalate	NA	<360	<340	<340	11 J	<330
Acenaphthylene	50000	29 J	<340	<340	11 J	<330
2,6-Dinitrotoluene	3000	<360	<340	<340	<350	<330
m-Nitroaniline	1500	<1700	<1600	<1600	<1700	<1600
Acenaphthene	50000	75 J	<340	<340	47 J	<330
2,4-Dinitrophenol	600	<1700	<1600	<1600	<1700	<1600
p-Nitrophenol	315	<1700	<1600	<1600	<1700	<1600
Dibenzofuran	18600	21 J	<340	<340	18 J	<330
2,4-Dinitrotoluene	NA	<360	<340	<340	<350	<330
Diethyl phthalate	21300	<360	<340	<340	<350	<330
4-Chlorophenyl phenyl ether	NA	<360	<340	<340	<350	<330

See last page for footnotes.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

CONSTITUENT	SITE	FPM-19A	FPM-19A	FPM-19A	FPM-19B	FPM-19B
	SAMPLE ID	FPM-19A/0-1	FPM-19A/4-5	FPM-19A/9-10	FPM-19B/0-1	FPM-19B/4-5
	DATE	04/30/2001	04/30/2001	04/30/2001	04/30/2001	04/30/2001
	DEPTH (FEET BLS)	0-1	4-5	9-10	0-1	4-5
<u>Closure Performance Standard (A)</u>						
<u>SVOCs continued</u>						
Fluorene	50000	52 J	<340	<340	36 J	<330
p-Nitroaniline	NA	<1700	<1600	<1600	<1700	<1600
4,6-Dinitro-o-cresol	NA	<1700	<1600	<1600	<1700	<1600
N-Nitrosodiphenylamine	NA	<360	<340	<340	<350	<330
4-Bromofluorobenzene	NA	<360	<340	<340	<350	<330
Hexachlorobenzene	1230	<360	<340	<340	<350	<330
Pentachlorophenol	3000	<1700	<1600	<1600	<1700	<1600
Phenanthrene	50000	650	<340	<340	430	<330
Anthracene	50000	160 J	<340	<340	96 J	<330
Carbazole	NA	88 J	<340	<340	56 J	<330
Di-n-butyl phthalate	24300	<360	<340	<340	60 J	<330
Fluoranthene	50000	1200	<340	<340	560	<330
Pyrene	50000	1000	<340	<340	610	<330
Butyl benzyl phthalate	50000	29 J	<340	<340	29 J	<330
3,3-Dichlorobenzidine	672	<720	<680	<680	<690	<670
Benzo(a)anthracene	8280	680	<340	<340	340 J	<330
Chrysene	1200	700	<340	<340	380	<330
Bis(2-ethylhexyl)phthalate (BEHP)	50000	<360	<340	<340	1700 B	<330
Di-n-octyl phthalate	50000	<360	<340	<340	<350	<330
Benzo(b)fluoranthene	3300	660	<340	<340	340 J	<330
Benzo(k)fluoranthene	3300	500	<340	<340	320 J	<330
Benzo(a)pyrene (B)	MDL	630	<340	<340	320 J	<330
Indeno(1,2,3-cd)pyrene	9600	540	<340	<340	300 J	<330
Dibenzo(a,h)anthracene	42	230 J	<340	<340	130 J	<330
Benzo(ghi)perylene	50000	510	<340	<340	320 J	<330
<u>Volatile Organic Compounds (VOCs)</u>						
<u>in ug/kg</u>						
Chloromethane	NA	<11	<10	<10	<10	<10
Bromomethane	4950	<11	<10	<10	<10	<10
Vinyl chloride	342	<11	<10	<10	<10	<10
Chloroethane	5550	<11	<10	<5 J	<5 J	<10
Methylene chloride	300	<8 J	<5 J	<5 J	<5 J	<10 J
Acetone	330	<11	<25	<19	<19	<14
Carbon disulfide	8100	<5	<5	<5	<5	<5
Vinyl Acetate	NA	<11	<10	<10	<10	<10
1,1-Dichloroethylene	975	<5	<5	<5	<5	<5
1,1-Dichloroethane	450	<5	<5	<5	<5	<5
cis-1,2-Dichloroethene	NA	<5	<5	<5	<5	<5
trans-1,2-Dichloroethene	885	<5	<5	<5	<5	<5
1,2-Dichloroethane	210	<5	<5	<5	<5	<5
Chloroform	NA	<5	<5	<5	<5	<5

See footnotes on last page.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (FEET BLS)	FPM-19A FPM-19A/0-1 04/30/2001 0-1	FPM-19A FPM-19A/4-5 04/30/2001 4-5	FPM-19A FPM-19A/9-10 04/30/2001 9-10	FPM-19B FPM-19B/0-1 04/30/2001 0-1	FPM-19B FPM-19B/4-5 04/30/2001 4-5
-------------	---	---	---	---	---	---

Closure
Performance
Standard (A)

VOCs continued

Trichloroethene	1890	<5	<5	<5	<5	<5
2-Butanone	NA	<11	<10	<10	<10	<10
1,1,1-Trichloroethane	2280	<5	<5	<5	<5	<5
Carbon tetrachloride	1650	<5	<5	<5	<5	<5
Bromodichloromethane	NA	<5	<5	<5	<5	<5
1,2-Dichloropropane	NA	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	NA	<5	<5	<5	<5	<5
Dibromochloromethane	NA	<5	<5	<5	<5	<5
1,1,2-Trichloroethane	NA	<5	<5	<5	<5	<5
Benzene	174	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	NA	<5	<5	<5	<5	<5
Bromoform	NA	<5	<5	<5	<5	<5
4-Methyl-2-pentanone	2850	<11	<10	<10	<10	<10
2-Hexanone	NA	<11	<10	<10	<10	<10
Tetrachloroethene	4155	<5	<5	<5	<5	<5
Toluene	4500	0.8 J	0.9 J	1 J	0.9 J	0.9 J
1,1,2,2-Tetrachloroethane	1770	<5	<5	<5	<5	<5
Chlorobenzene	4950	<5	<5	<5	<5	<5
Ethylbenzene	10000	<5	<5	<5	<5	<5
Styrene	NA	<5	<5	<5	<5	<5
Xylene (total)	3600	<5	<5	<5	<5	<5

METALS in mg/kg

Antimony	NA	<8.0	<6.4	<7.6	<8.0	<6.6
Arsenic	12	17.9	<4.8	<5.7	10.7	<4.9
Beryllium	1.75	<1.0	<0.80	<0.96	<1.0	<0.82
Cadmium	10	<2.0	<1.6	<1.9	<2.0	<1.6
Chromium	50	15.3	3.9	8.4	11.2	4.7
Copper	50	88.7	<4.0	9.1	36.4	6.3
Lead	500	70.0	<4.0	<4.8	70.3	<4.1
Mercury	0.2	0.44	<0.0032	<0.0036	0.096	<0.0036
Nickel	28.5	15.1	6.3	12.4	13.6	11.8
Selenium	3.9	<10.0	<8.0	<9.6	<10.0	<8.2
Silver	NA	4.3	<1.6	<1.9	2.6	<1.6
Thallium	NA	<15.0	<12.0	<14.4	<15.0	<12.3
Zinc	55.7	160.	<12.0	<14.4	92.4	<12.3

See footnotes on last page.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

CONSTITUENT	SITE	FPM-19B	FPM-19B	FPM-19C	FPM-19C	FPM-19C
	SAMPLE ID	FPM-19B/9-10	FPM-19B/14-15	FPM-19C/0-1	FPM-19C/4-5	FPM-19C/9-10
	DATE	04/30/2001	04/30/2001	04/30/2001	04/30/2001	04/30/2001
	DEPTH (FEET BLS)	9-10	14-15	0-1	4-5	9-10
<u>Closure</u>						
<u>Performance</u>						
<u>Standard (A)</u>						
Semi-Volatile Organic						
Compounds (SVOCs) in ug/kg						
Phenol	330	<340	<340	<7100	<340	<1400
Bis(2-chloroethyl)ether	NA	<340	<340	<7100	<340	<1400
2-Chlorophenol	2250	<340	<340	<7100	<340	<1400
m-Dichlorobenzene	4650	<340	<340	<7100	<340	<1400
p-Dichlorobenzene	25500	<340	<340	<7100	<340	<1400
Benzyl alcohol	NA	<340	<340	<7100	<340	<1400
o-Dichlorobenzene	23970	<340	<340	<7100	<340	<1400
o-Cresol	NA	<340	<340	<7100	<340	<1400
Bis(2-chloro-1-methylethyl) ether	NA	<340	<340	<7100	<340	<1400
p-Cresol	2550	<340	<340	<7100	<340	<1400
N-Nitrosodipropylamine	NA	<340	<340	<7100	<340	<1400
Hexachloroethane	NA	<340	<340	<7100	<340	<1400
Nitrobenzene	600	<340	<340	<7100	<340	<1400
Isophorone	13200	<340	<340	<7100	<340	<1400
o-Nitrophenol	975	<340	<340	<7100	<340	<1400
2,4-Dimethylphenol	NA	<340	<340	<7100	<340	<1400
Benzoic acid	8100	72 J	<1700	<34000	<1600	<6600
Bis(2-chloroethoxy)methane	NA	<340	<340	<7100	<340	<1400
2,4-Dichlorophenol	1140	<340	<340	<7100	<340	<1400
1,2,4-Trichlorobenzene	10050	<340	<340	<7100	<340	<1400
Naphthalene	39000	22 J	6 J	180 J	<340	46 J
p-Chloroaniline	NA	<340	<340	<7100	<340	<1400
Hexachlorobutadiene	NA	<340	<340	<7100	<340	<1400
p-Chloro-m-cresol	NA	<340	<340	<7100	<340	<1400
2-Methylnaphthalene	50000	12 J	<340	160 J	<340	28 J
Hexachlorocyclopentadiene	NA	<340	<340	<7100	<340	<1400
2,4,6-Trichlorophenol	NA	<340	<340	<7100	<340	<1400
2,4,5-Trichlorophenol	300	<1700	<1700	<34000	<1600	<6600
2-Chloronaphthalene	NA	<340	<340	<7100	<340	<1400
o-Nitroaniline	1290	<1700	<1700	<34000	<1600	<6600
Dimethyl phthalate	NA	<340	<340	<7100	<340	<1400
Acenaphthylene	50000	18 J	<340	4800 J	<340	850 J
2,6-Dinitrotoluene	3000	<340	<340	<7100	<340	<1400
m-Nitroaniline	1500	<1700	<1700	<34000	<1600	<6600
Acenaphthene	50000	46 J	9 J	470 J	<340	97 J
2,4-Dinitrophenol	600	<1700	<1700	<34000	<1600	<6600
p-Nitrophenol	315	<1700	<1700	<34000	<1600	<6600
Dibenzofuran	18600	26 J	5 J	240 J	<340	62 J
2,4-Dinitrotoluene	NA	<340	<340	<7100	<340	<1400
Diethyl phthalate	21300	8 J	<340	<7100	6 J	<1400
4-Chlorophenyl phenyl ether	NA	<340	<340	<7100	<340	<1400

See last page for footnotes.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

CONSTITUENT	SITE	FPM-19B	FPM-19B	FPM-19C	FPM-19C	FPM-19C
	SAMPLE ID	FPM-19B/9-10	FPM-19B/14-15	FPM-19C/0-1	FPM-19C/4-5	FPM-19C/9-10
	DATE	04/30/2001	04/30/2001	04/30/2001	04/30/2001	04/30/2001
	DEPTH (FEET BLS)	9-10	14-15	0-1	4-5	9-10
<u>Closure Performance Standard (A)</u>						
<u>SVOCs continued</u>						
Fluorene	50000	39 J	6 J	480 J	<340	88 J
p-Nitroaniline	NA	<1700	<1700	<34000	<1600	<6600
4,6-Dinitro-o-cresol	NA	<1700	<1700	<34000	<1600	<6600
N-Nitrosodiphenylamine	NA	<340	<340	<7100	<340	<1400
4-Bromofluorobenzene	NA	<340	<340	<7100	<340	<1400
Hexachlorobenzene	1230	<340	<340	<7100	<340	<1400
Pentachlorophenol	3000	<1700	<1700	<34000	<1600	<6600
Phenanthrene	50000	420	78 J	9500	<340	2000
Anthracene	50000	100 J	16 J	6700 J	<340	1300 J
Carbazole	NA	57 J	9 J	820 J	<340	220 J
Di-n-butyl phthalate	24300	86 J	<340	<7100	<340	150 J
Fluoranthene	50000	540	110 J	34000	4 J	6000
Pyrene	50000	510	96 J	36000	3 J	6400
Butyl benzyl phthalate	50000	190 J	25 J	<7100	<340	91 J
3,3-Dichlorobenzidine	672	<690	<680	<14000	<680	<2700
Benzo(a)anthracene	8280	320 J	61 J	31000	<340	5600
Chrysene	1200	370	68 J	32000	<340	5600
Bis(2-ethylhexyl)phthalate (BEHP)	50000	1600 B	<340	<7100	<340	1800 U
Di-n-octyl phthalate	50000	<340	<340	<7100	<340	<1400
Benzo(b)fluoranthene	3300	260 J	65 J	27000	<340	4600
Benzo(k)fluoranthene	3300	290 J	74 J	21000	<340	4600
Benzo(a)pyrene (B)	MDL	330 J	65 J	28000	<340	5400
Indeno(1,2,3-cd)pyrene	9600	270 J	39 J	21000	<340	4500
Dibenzo(a,h)anthracene	42	130 J	12 J	8700	<340	1900
Benzo(ghi)perylene	50000	300 J	39 J	19000	<340	4300
<u>Volatile Organic Compounds (VOCs)</u>						
<u>in ug/kg</u>						
Chloromethane	NA	<10	<8	<10	<10	<10
Bromomethane	4950	<10	<8	<10	<10	<10
Vinyl chloride	342	<10	<8	<10	<10	<10
Chloroethane	5550	<10	<8	<10	<10	<10
Methylene chloride	300	<6 J	<8 J	<10 J	<6 J	<10 J
Acetone	330	<34	<17	<16	<26	<11
Carbon disulfide	8100	<5	<4	<5	<5	<5
Vinyl Acetate	NA	<10	<8	<10	<10	<10
1,1-Dichloroethylene	975	<5	<4	<5	<5	<5
1,1-Dichloroethane	450	<5	<4	<5	<5	<5
cis-1,2-Dichloroethene	NA	<5	<4	<5	<5	<5
trans-1,2-Dichloroethene	885	<5	<4	<5	<5	<5
1,2-Dichloroethane	210	<5	<4	<5	<5	<5
Chloroform	NA	<5	<4	<5	<5	<5

See footnotes on last page.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

CONSTITUENT	SITE	FPM-19B	FPM-19B	FPM-19C	FPM-19C	FPM-19C
	SAMPLE ID	FPM-19B/9-10	FPM-19B/14-15	FPM-19C/0-1	FPM-19C/4-5	FPM-19C/9-10
	DATE	04/30/2001	04/30/2001	04/30/2001	04/30/2001	04/30/2001
	DEPTH (FEET BLS)	9-10	14-15	0-1	4-5	9-10
<u>Closure Performance Standard (A)</u>						
<u>VOCs continued</u>						
Trichloroethene	1890	<5	<4	<5	<5	<5
2-Butanone	NA	<5	<4	<10	<10	<10
1,1,1-Trichloroethane	2280	<5	<4	<5	<5	<5
Carbon tetrachloride	1650	<5	<4	<5	<5	<5
Bromodichloromethane	NA	<5	<4	<5	<5	<5
1,2-Dichloropropane	NA	<5	<4	<5	<5	<5
cis-1,3-Dichloropropene	NA	<5	<4	<5	<5	<5
Dibromochloromethane	NA	<5	<4	<5	<5	<5
1,1,2-Trichloroethane	NA	<5	<4	<5	<5	<5
Benzene	174	<5	<4	0.3 J	<5	<5
trans-1,3-Dichloropropene	NA	<5	<4	<5	<5	<5
Bromoform	NA	<5	<4	<5	<5	<5
4-Methyl-2-pentanone	2850	<10	<8	<10	<10	<10
2-Hexanone	NA	<10	<8	<10	<10	<10
Tetrachloroethene	4155	<5	<4	<5	<5	<5
Toluene	4500	0.9 J	0.6 J	1 J	1 J	0.9 J
1,1,1,2-Tetrachloroethane	1770	<5	<4	<5	<5	<5
Chlorobenzene	4950	<5	<4	<5	<5	<5
Ethylbenzene	10000	<5	<4	<5	<5	<5
Styrene	NA	<5	<4	<5	<5	<5
Xylene (total)	3600	<5	<4	<5	<5	<5
<u>METALS in mg/kg</u>						
Antimony	NA	<7.4	<6.9	<7.5	<7.4	<7.8
Arsenic	12	<5.6	<5.2	6.7	<5.5	<5.8
Beryllium	1.75	<0.92	<0.86	<0.94	<0.92	<0.97
Cadmium	10	<1.8	<1.7	<1.9	<1.8	<1.9
Chromium	50	13.9	8.7	24.3	5.2	23.3
Copper	50	19.9	10.0	164.	5.8	54.6
Lead	500	49.3	8.3	213.	<4.6	91.9
Mercury	0.2	0.054	0.0042	0.43	0.0039	0.12
Nickel	28.5	12.2	11.9	12.3	7.1	11.5
Selenium	3.9	<9.2	<8.6	<9.4	<9.2	<9.7
Silver	NA	<1.8	<1.7	4.7	<1.8	<1.9
Thallium	NA	<13.9	<12.9	<14.0	<13.8	<14.6
Zinc	55.7	67.7	29.4	225.	<13.8	110.

See footnotes on last page.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

CONSTITUENT	SITE	FPM-19C	FPM-19D	FPM-19D	FPM-19D	FPM-19D
	SAMPLE ID	FPM-19C/14-15	FPM-19D/0-1	FPM-19D/4-5	FPM-19D/9-10	FPM-19D/14-15
	DATE	04/30/2001	04/30/2001	04/30/2001	04/30/2001	04/30/2001
	DEPTH (FEET BLS)	14-15	0-1	4-5	9-10	14-15
<u>Closure</u>						
<u>Performance</u>						
<u>Standard (A)</u>						
Semi-Volatile Organic						
Compounds (SVOCs) in ug/kg						
Phenol	330	<340	<7000	<340	<350	<680
Bis(2-chloroethyl)ether	NA	<340	<7000	<340	<350	<680
2-Chlorophenol	2250	<340	<7000	<340	<350	<680
m-Dichlorobenzene	4650	<340	<7000	<340	<350	<680
p-Dichlorobenzene	25500	<340	<7000	<340	<350	<680
Benzyl alcohol	NA	<340	<7000J	<340	<350	<680
o-Dichlorobenzene	23970	<340	<7000	<340	<350	<680
o-Cresol	NA	<340	<7000	<340	<350	<680
Bis(2-chloro-1-methylethyl) ether	NA	<340	<7000	<340	<350	<680
p-Cresol	2550	<340	<7000	<340	<350	<680
N-Nitrosodipropylamine	NA	<340	<7000	<340	<350	<680
Hexachloroethane	NA	<340	<7000	<340	<350	<680
Nitrobenzene	600	<340	<7000	<340	<350	<680
Isophorone	13200	<340	<7000	<340	<350	<680
o-Nitrophenol	975	<340	<7000	<340	<350	<680
2,4-Dimethylphenol	NA	<340	<7000	<340	<350	<680
Benzoic acid	8100	<1600	<34000	<1600	<1700	<3300
Bis(2-chloroethoxy)methane	NA	<340	<7000	<340	<350	<680
2,4-Dichlorophenol	1140	<340	<7000	<340	<350	<680
1,2,4-Trichlorobenzene	10050	<340	<7000	<340	<350	<680
Naphthalene	39000	<340	96 J	<340	24 J	26 J
p-Chloroaniline	NA	<340	<7000	<340	<350	<680
Hexachlorobutadiene	NA	<340	<7000	<340	<350	<680
p-Chloro-m-cresol	NA	<340	<7000	<340	<350	<680
2-Methylnaphthalene	50000	<340	<7000	<340	10 J	<680
Hexachlorocyclopentadiene	NA	<340	<7000	<340	<350	<680
2,4,6-Trichlorophenol	NA	<340	<7000	<340	<350	<680
2,4,5-Trichlorophenol	300	<1600	<34000	<1600	<1700	<3300
2-Chloronaphthalene	NA	<340	<7000	<340	<350	<680
o-Nitroaniline	1290	<1600	<34000	<1600	<1700	<3300
Dimethyl phthalate	NA	<340	<7000	<340	<350	<680
Acenaphthylene	50000	<340	<7000	<340	58 J	27 J
2,6-Dinitrotoluene	3000	<340	<7000	<340	<350	<680
m-Nitroaniline	1500	<1600	<34000	<1600	<1700	<3300
Acenaphthene	50000	<340	130 J	<340	46 J	34 J
2,4-Dinitrophenol	600	<1600	<34000	<1600	<1700	<3300
p-Nitrophenol	315	<1600	<34000	<1600	<1700	<3300
Dibenzofuran	18600	<340	<7000	<340	20 J	16 J
2,4-Dinitrotoluene	NA	<340	<7000	<340	<350	<680
Diethyl phthalate	21300	<340	<7000	<340	<350	<680
4-Chlorophenyl phenyl ether	NA	<340	<7000	<340	<350	<680

See last page for footnotes.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

CONSTITUENT	SITE	FPM-19C	FPM-19D	FPM-19D	FPM-19D	FPM-19D
	SAMPLE ID	FPM-19C/14-15	FPM-19D/0-1	FPM-19D/4-5	FPM-19D/9-10	FPM-19D/14-15
	DATE	04/30/2001	04/30/2001	04/30/2001	04/30/2001	04/30/2001
	DEPTH (FEET BLS)	14-15	0-1	4-5	9-10	14-15
<u>Closure Performance Standard (A)</u>						
SVOCs continued						
Fluorene	50000	<340	<7000	<340	36 J	27 J
p-Nitroaniline	NA	<1600	<34000	<1600	<1700	<3300
4,6-Dinitro-o-cresol	NA	<1600	<34000	<1600	<1700	<3300
N-Nitrosodiphenylamine	NA	<340	<7000	<340	<350	<680
4-Bromofluorobenzene	NA	<340	<7000	<340	<350	<680
Hexachlorobenzene	1230	<340	<7000	<340	<350	<680
Pentachlorophenol	3000	<1600	<34000	<1600	<1700	<3300
Phenanthrene	50000	<340	1000 J	<340	380	250 J
Anthracene	50000	<340	320 J	<340	160 J	91 J
Carbazole	NA	<340	120 J	<340	56 J	32 J
Di-n-butyl phthalate	24300	<340	290 J	<340	560	2100
Fluoranthene	50000	<340	2100 J	<340	990	570 J
Pyrene	50000	<340	2100 J	4 J	780	620 J
Butyl benzyl phthalate	50000	<340	37000	<340	410	280 J
3,3-Dichlorobenzidine	672	<680	<14000	<670	<700	<1400
Benzo(a)anthracene	8280	<340	1200 J	<340	560	350 J
Chrysene	1200	<340	1200 J	<340	630	390 J
Bis(2-ethylhexyl)phthalate (BEHP)	50000	440 U	2900 J	19 J	1800	4700
Di-n-octyl phthalate	50000	<340	<7000	<340	27 J	28 J
Benzo(b)fluoranthene	3300	<340	1200 J	<340	620	280 J
Benzo(k)fluoranthene	3300	<340	1300 J	<340	440	380 J
Benzo(a)pyrene (B)	MDL	<340	1200 J	<340	560	340 J
Indeno(1,2,3-cd)pyrene	9600	<340	710 J	<340	250 J	270 J
Dibenzo(a,h)anthracene	42	<340	360 J	<340	120 J	120 J
Benzo(ghi)perylene	50000	<340	700 J	<340	180 J	300 J
Volatile Organic Compounds (VOCs)						
in ug/kg						
Chloromethane	NA	<10	<11	<10	<10	<10
Bromomethane	4950	<10	<11	<10	<10	<10
Vinyl chloride	342	<10	<11	<10	<10	<10
Chloroethane	5550	<10	<11	<10	<10	<10
Methylene chloride	300	<4 J	<14	<6	<15	<10
Acetone	330	<20	<10 J	<10 J	<10 J	<24 J
Carbon disulfide	8100	<5	<5	<5	<5	<5
Vinyl Acetate	NA	<10	<11 J	<10 J	<10 J	<10 J
1,1-Dichloroethylene	975	<5	<5	<5	<5	<5
1,1-Dichloroethane	450	<5	<5	<5	<5	<5
cis-1,2-Dichloroethene	NA	<5	<5	<5	<5	<5
trans-1,2-Dichloroethene	885	<5	<5	<5	<5	<5
1,2-Dichloroethane	210	<5	<5	<5	<5	<5
Chloroform	NA	<5	<5	<5	<5	<5

See footnotes on last page.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

CONSTITUENT	SITE	FPM-19C	FPM-19D	FPM-19D	FPM-19D	FPM-19D
	SAMPLE ID	FPM-19C/14-15	FPM-19D/0-1	FPM-19D/4-5	FPM-19D/9-10	FPM-19D/14-15
	DATE	04/30/2001	04/30/2001	04/30/2001	04/30/2001	04/30/2001
	DEPTH (FEET BLS)	14-15	0-1	4-5	9-10	14-15
<u>Closure Performance Standard (A)</u>						
<u>VOCs continued</u>						
Trichloroethene	1890	<5	<5	<5	<5	<5
2-Butanone	NA	<10	<11 J	<10 J	<10 J	<10 J
1,1,1-Trichloroethane	2280	<5	<5	<5	<5	<5
Carbon tetrachloride	1650	<5	<5	<5	<5	<5
Bromodichloromethane	NA	<5	<5	<5	<5	<5
1,2-Dichloropropane	NA	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	NA	<5	<5	<5	<5	<5
Dibromochloromethane	NA	<5	<5	<5	<5	<5
1,1,2-Trichloroethane	NA	<5	<5	<5	<5	<5
Benzene	174	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	NA	<5	<5	<5	<5	<5
Bromoform	NA	<5	<5	<5	<5	<5
4-Methyl-2-pentanone	2850	<10	<11	<10	<10	<10
2-Hexanone	NA	<10	<11 J	<10 J	<10 J	<10 J
Tetrachloroethene	4155	<5	<5	<5	<5	<5
Toluene	4500	0.6 J	<5	<5	1 J	0.5 J
1,1,2,2-Tetrachloroethane	1770	<5	<5	<5	<5	<5
Chlorobenzene	4950	<5	<5	<5	<5	<5
Ethylbenzene	10000	<5	<5	<5	0.6 J	<5
Styrene	NA	<5	<5	<5	<5	<5
Xylene (total)	3600	<5	<5	<5	3 J	<5
<u>METALS in mg/kg</u>						
Antimony	NA	<7.9	<7.1	<6.8	<6.7	<6.0
Arsenic	12	<5.9	10.8	<5.1	<5.0	<4.5
Beryllium	1.75	<0.98	<0.89	<0.85	<0.84	<0.76
Cadmium	10	<2.0	<1.8	<1.7	<1.7	<1.5
Chromium	50	5.7	15.1	10.	14.9	19.3
Copper	50	8.4	89.4	10.7	284.	37.3
Lead	500	<4.9	49.2	<4.2	47.1	24.2
Mercury	0.2	<0.0028	0.34	<0.0037	0.090	0.12
Nickel	28.5	10.9	15.8	16.7	21.2	23.6
Selenium	3.9	<9.8	<8.9	<8.5	<8.4	<7.6
Silver	NA	<2.0	<1.8	<1.7	<1.7	<1.5
Thallium	NA	<14.7	<13.3	<12.7	<12.6	<11.4
Zinc	55.7	<14.7	109.	18.6	86.3	57.8

See footnotes on last page.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (FEET BLS)	FPM-19E FPM-19E/0-1 04/30/2001 0-1	FPM-19E FPM-19E/4-5 04/30/2001 4-5	FPM-19E FPM-19E/9-10 04/30/2001 9-10	FPM-19E FPM-19E/14-15 04/30/2001 14-15	FPM-19F FPM-19F/0-1 04/30/2001 0-1
<u>Closure</u>						
<u>Performance</u>						
<u>Standard (A)</u>						
Semi-Volatile Organic						
Compounds (SVOCs) in ug/kg						
Phenol	330	<380	<360	<350	<340	<360
Bis(2-chloroethyl)ether	NA	<380	<360	<350	<340	<360
2-Chlorophenol	2250	<380	<360	<350	<340	<360
m-Dichlorobenzene	4650	<380	<360	<350	<340	<360
p-Dichlorobenzene	25500	<380	<360	<350	<340	<360
Benzyl alcohol	NA	<380	<360	<350	<340	<360
o-Dichlorobenzene	23970	<380	<360	<350	<340	<360
o-Cresol	NA	<380	<360	<350	<340	<360
Bis(2-chloro-1-methylethyl) ether	NA	<380	<360	<350	<340	<360
p-Cresol	2550	<380	<360	<350	<340	<360
N-Nitrosodipropylamine	NA	<380	<360	<350	<340	<360
Hexachloroethane	NA	<380	<360	<350	<340	<360
Nitrobenzene	600	<380	<360	<350	<340	<360
Isophorone	13200	<380	<360	<350	<340	<360
o-Nitrophenol	975	<380	<360	<350	<340	<360
2,4-Dimethylphenol	NA	<380	<360	<350	<340	<360
Benzoic acid	8100	<1800	<1800	<1700	<1700	<1800
Bis(2-chloroethoxy)methane	NA	<380	<360	<350	<340	<360
2,4-Dichlorophenol	1140	<380	<360	<350	<340	<360
1,2,4-Trichlorobenzene	10050	<380	<360	<350	<340	<360
Naphthalene	39000	18 J	<360	4 J	36 J	14 J
p-Chloroaniline	NA	<380	<360	<350	<340	<360
Hexachlorobutadiene	NA	<380	<360	<350	<340	<360
p-Chloro-m-cresol	NA	<380	<360	<350	<340	<360
2-Methylnaphthalene	50000	8 J	<360	<350	15 J	11 J
Hexachlorocyclopentadiene	NA	<380	<360	<350	<340	<360
2,4,6-Trichlorophenol	NA	<380	<360	<350	<340	<360
2,4,5-Trichlorophenol	300	<1800	<1800	<1700	<1700	<1800
2-Chloronaphthalene	NA	<380	<360	<350	<340	<360
o-Nitroaniline	1290	<1800	<1800	<1700	<1700	<1800
Dimethyl phthalate	NA	<380	<360	<350	<340	<360
Acenaphthylene	50000	46 J	<360	<350	27 J	57 J
2,6-Dinitrotoluene	3000	<380	<360	<350	<340	<360
m-Nitroaniline	1500	<1800	<1800	<1700	<1700	<1800
Acenaphthene	50000	36 J	<360	<350	52 J	38 J
2,4-Dinitrophenol	600	<1800	<1800	<1700	<1700	<1800
p-Nitrophenol	315	<1800	<1800	<1700	<1700	<1800
Dibenzofuran	18600	17 J	<360	<350	27 J	16 J
2,4-Dinitrotoluene	NA	<380	<360	<350	<340	<360
Diethyl phthalate	21300	<380	<360	<350	<340	<360
4-Chlorophenyl phenyl ether	NA	<380	<360	<350	<340	<360

See last page for footnotes.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

CONSTITUENT	SITE SAMPLE ID DATE DEPTH (FEET BLS)	FPM-19E FPM-19E/0-1 04/30/2001 0-1	FPM-19E FPM-19E/4-5 04/30/2001 4-5	FPM-19E FPM-19E/9-10 04/30/2001 9-10	FPM-19E FPM-19E/14-15 04/30/2001 14-15	FPM-19F FPM-19F/0-1 04/30/2001 0-1
<u>Closure Performance Standard (A)</u>						
<u>SVOCs continued</u>						
Fluorene	50000	28 J	<360	<350	40 J	36 J
p-Nitroaniline	NA	<1800	<1800	<1700	<1700	<1800
4,6-Dinitro-o-cresol	NA	<1800	<1800	<1700	<1700	<1800
N-Nitrosodiphenylamine	NA	<380	<360	<350	<340	<360
4-Bromofluorobenzene	NA	<380	<360	<350	<340	<360
Hexachlorobenzene	1230	<380	<360	<350	<340	<360
Pentachlorophenol	3000	<1800	<1800	<1700	<1700	<1800
Phenanthrene	50000	340 J	28 J	<350	390	510
Anthracene	50000	120 J	6 J	<350	110 J	160 J
Carbazole	NA	51 J	<360	<350	60 J	58 J
Di-n-butyl phthalate	24300	130 J	<360	<350	67 J	56 J
Fluoranthene	50000	640	52 J	<350	560	960
Pyrene	50000	480	42 J	<350	400	960
Butyl benzyl phthalate	50000	160 J	<360	<350	42 J	38 J
3,3-Dichlorobenzidine	672	<750	<730	<690	<690	<730
Benzo(a)anthracene	8280	320 J	24 J	<350	260 J	650
Chrysene	1200	390	26 J	<350	300 J	700
Bis(2-ethylhexyl)phthalate (BEHP)	50000	940	150 J	25 J	510	240 J
Di-n-octyl phthalate	50000	<380	<360	<350	<340	52 J
Benzo(b)fluoranthene	3300	320 J	25 J	<350	240 J	600
Benzo(k)fluoranthene	3300	350 J	24 J	<350	260 J	590
Benzo(a)pyrene (B)	MDL	400	23 J	<350	300 J	590
Indeno(1,2,3-cd)pyrene	9600	210 J	9 J	<350	150 J	590
Dibenzo(a,h)anthracene	42	98 J	<360	<350	69 J	250 J
Benzo(ghi)perylene	50000	190 J	9 J	<350	120 J	600
<u>Volatile Organic Compounds (VOCs)</u>						
<u>in ug/kg</u>						
Chloromethane	NA	<11	<11	<10	<11	<11
Bromomethane	4950	<11	<11	<10	<11	<11
Vinyl chloride	342	<11	<11	<10	<11	<11
Chloroethane	5550	<11	<11	<10	<11	<11
Methylene chloride	300	<6	<7	<10	<6	<10
Acetone	330	<13 J	<34	<10 J	<12	<23
Carbon disulfide	8100	<6	<6	<5	<5	<5
Vinyl Acetate	NA	<11 J	<11 J	<10 J	<11 J	<11 J
1,1-Dichloroethylene	975	<6	<6	<5	<5	<5
1,1-Dichloroethane	450	<6	<6	<5	<5	<5
cis-1,2-Dichloroethene	NA	<6	<6	<5	<5	<5
trans-1,2-Dichloroethene	885	<6	<6	<5	<5	<5
1,2-Dichloroethane	210	<6	<6	<5	<5	<5
Chloroform	NA	<6	<6	<5	<5	<5

See footnotes on last page.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

CONSTITUENT	SITE	FPM-19E	FPM-19E	FPM-19E	FPM-19E	FPM-19F
	SAMPLE ID	FPM-19E/0-1	FPM-19E/4-5	FPM-19E/9-10	FPM-19E/14-15	FPM-19F/0-1
	DATE	04/30/2001	04/30/2001	04/30/2001	04/30/2001	04/30/2001
	DEPTH (FEET BLS)	0-1	4-5	9-10	14-15	0-1

Closure
Performance
Standard (A)

VOCs continued

Trichloroethene	1890	<6	<6	<5	<5	<5
2-Butanone	NA	<11 J	<11	<10 J	<11	<11
1,1,1-Trichloroethane	2280	<6	<6	<5	<5	<5
Carbon tetrachloride	1650	<6	<6	<5	<5	<5
Bromodichloromethane	NA	<6	<6	<5	<5	<5
1,2-Dichloropropane	NA	<6	<6	<5	<5	<5
cis-1,3-Dichloropropene	NA	<6	<6	<5	<5	<5
Dibromochloromethane	NA	<6	<6	<5	<5	<5
1,1,2-Trichloroethane	NA	<6	<6	<5	<5	<5
Benzene	174	<6	<6	<5	<5	<5
trans-1,3-Dichloropropene	NA	<6	<6	<5	<5	<5
Bromoform	NA	<6	<6	<5	<5	<5
4-Methyl-2-pentanone	2850	<11	<11	<10	<11	<11
2-Hexanone	NA	<11 J	<11	<10 J	<11	<11
Tetrachloroethene	4155	<6	<6	<5	<5	<5
Toluene	4500	<6	0.7 J	<5	<5	<5
1,1,2,2-Tetrachloroethane	1770	<6	<6	<5	<5	<5
Chlorobenzene	4950	<6	<6	<5	<5	<5
Ethylbenzene	10000	<6	<6	<5	<5	<5
Styrene	NA	<6	<6	<5	<5	<5
Xylene (total)	3600	<6	<6	<5	<5	<5

METALS in mg/kg

Antimony	NA	<8.7	<6.2	<7.2	<7.7	<8.9
Arsenic	12	7.6	<4.7	<5.4	<5.8	14.8
Beryllium	1.75	<1.1	<0.78	<0.90	<0.96	<1.1
Cadmium	10	<2.2	<1.6	<1.8	<1.9	10.8
Chromium	50	18.7	29.1	2.9	19.4	475.
Copper	50	82.7	19.2	5.1	30.5	220.
Lead	500	108.	7.5	<4.5	42.3	1100
Mercury	0.2	0.27	0.019	<0.0034	0.054	0.50
Nickel	28.5	42.2	17.6	6.5	17.5	57.5
Selenium	3.9	<10.8	<7.8	<9.0	<9.6	<11.1
Silver	NA	<2.2	<1.6	<1.8	<1.9	<2.2
Thallium	NA	<16.3	<11.7	<13.5	<14.4	<16.7
Zinc	55.7	187.	33.4	<13.5	72.0	8530

See footnotes on last page.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

CONSTITUENT	SITE	FPM-19F	FPM-19F	FPM-19F	FPM-19G	FPM-19G
	SAMPLE ID	FPM-19F/4-5	FPM-19F/9-10	FPM-19F/14-15	FPM-19G/0-1	FPM-19G/4-5
	DATE	04/30/2001	04/30/2001	04/30/2001	04/30/2001	04/30/2001
	DEPTH (FEET BLS)	4-5	9-10	14-15	0-1	4-5
<u>Closure</u>						
<u>Performance</u>						
<u>Standard (A)</u>						
Semi-Volatile Organic						
Compounds (SVOCs) in ug/kg						
Phenol	330	<360	<350	<380	<360	<350
Bis(2-chloroethyl)ether	NA	<360	<350	<380	<360	<350
2-Chlorophenol	2250	<360	<350	<380	<360	<350
m-Dichlorobenzene	4650	<360	<350	<380	<360	<350
p-Dichlorobenzene	25500	<360	<350	<380	<360	<350
Benzyl alcohol	NA	<360	<350	<380	<360	<350
o-Dichlorobenzene	23970	<360	<350	<380	<360	<350
o-Cresol	NA	<360	<350	<380	<360	<350
Bis(2-chloro-1-methylethyl) ether	NA	<360	<350	<380	<360	<350
p-Cresol	2550	<360	<350	24 J	<360	<350
N-Nitrosodipropylamine	NA	<360	<350	<380	<360	<350
Hexachloroethane	NA	<360	<350	<380	<360	<350
Nitrobenzene	600	<360	<350	<380	<360	<350
Isophorone	13200	<360	<350	<380	<360	<350
o-Nitrophenol	975	<360	<350	<380	<360	<350
2,4-Dimethylphenol	NA	<360	<350	<380	<360	<350
Benzoic acid	8100	<1800	<1700	<1800	<1800	<1700
Bis(2-chloroethoxy)methane	NA	<360	<350	<380	<360	<350
2,4-Dichlorophenol	1140	<360	<350	<380	<360	<350
1,2,4-Trichlorobenzene	10050	<360	<350	<380	<360	<350
Naphthalene	39000	<360	3 J	6 J	19 J	6 J
p-Chloroaniline	NA	<360	<350	<380	<360	<350
Hexachlorobutadiene	NA	<360	<350	<380	<360	<350
p-Chloro-m-cresol	NA	<360	<350	<380	<360	<350
2-Methylnaphthalene	50000	<360	<350	<380	15 J	<350
Hexachlorocyclopentadiene	NA	<360	<350	<380	<360	<350
2,4,6-Trichlorophenol	NA	<360	<350	<380	<360	<350
2,4,5-Trichlorophenol	300	<1800	<1700	<1800	<1800	<1700
2-Chloronaphthalene	NA	<360	<350	<380	<360	<350
o-Nitroaniline	1290	<1800	<1700	<1800	<1800	<1700
Dimethyl phthalate	NA	<360	<350	<380	<360	<350
Acenaphthylene	50000	<360	<350	<380	17 J	3 J
2,6-Dinitrotoluene	3000	<360	<350	<380	<360	<350
m-Nitroaniline	1500	<1800	<1700	<1800	<1800	<1700
Acenaphthene	50000	<360	<350	<380	110 J	<350
2,4-Dinitrophenol	600	<1800	<1700	<1800	<1800	<1700
p-Nitrophenol	315	<1800	<1700	<1800	<1800	<1700
Dibenzofuran	18600	<360	<350	<380	38 J	<350
2,4-Dinitrotoluene	NA	<360	<350	<380	<360	<350
Diethyl phthalate	21300	<360	<350	<380	<360	4 J
4-Chlorophenyl phenyl ether	NA	<360	<350	<380	<360	<350

See last page for footnotes.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

CONSTITUENT	SITE	FPM-19F	FPM-19F	FPM-19F	FPM-19G	FPM-19G
	SAMPLE ID	FPM-19F/4-5	FPM-19F/9-10	FPM-19F/14-15	FPM-19G/0-1	FPM-19G/4-5
	DATE	04/30/2001	04/30/2001	04/30/2001	04/30/2001	04/30/2001
	DEPTH (FEET BLS)	4-5	9-10	14-15	0-1	4-5
<u>Closure Performance Standard (A)</u>						
<u>SVOCs continued</u>						
Fluorene	50000	<360	<350	<380	83 J	<350
p-Nitroaniline	NA	<1800	<1700	<1800	<1800	<1700
4,6-Dinitro-o-cresol	NA	<1800	<1700	<1800	<1800	<1700
N-Nitrosodiphenylamine	NA	<360	<350	<380	<360	<350
4-Bromofluorobenzene	NA	<360	<350	<380	<360	<350
Hexachlorobenzene	1230	<360	<350	<380	<360	<350
Pentachlorophenol	3000	<1800	<1700	<1800	<1800	<1700
Phenanthrene	50000	5 J	9 J	<380	850	14 J
Anthracene	50000	<360	<350	<380	210 J	<350
Carbazole	NA	<360	<350	<380	94 J	<350
Di-n-butyl phthalate	24300	<360	<350	<380	16 J	<350
Fluoranthene	50000	10 J	17 J	<380	990	7 J
Pyrene	50000	10 J	18 J	<380	980	9 J
Butyl benzyl phthalate	50000	<360	<350	<380	15 J	<350
3,3-Dichlorobenzidine	672	<730	<710	<750	<730	<700
Benzo(a)anthracene	8280	6 J	12 J	<380	580	<350
Chrysene	1200	7 J	13 J	<380	620	<350
Bis(2-ethylhexyl)phthalate (BEHP)	50000	30 J	42 J	42 J	280 J	28 J
Di-n-octyl phthalate	50000	<360	<350	<380	15 J	<350
Benzo(b)fluoranthene	3300	7 J	12 J	<380	550	<350
Benzo(k)fluoranthene	3300	7 J	13 J	<380	510	<350
Benzo(a)pyrene (B)	MDL	<360	12 J	<380	500	<350
Indeno(1,2,3-cd)pyrene	9600	<360	8 J	<380	460	<350
Dibenzo(a,h)anthracene	42	<360	<350	<380	210 J	<350
Benzo(ghi)perylene	50000	<360	7 J	<380	480	<350
<u>Volatile Organic Compounds (VOCs)</u>						
<u>in ug/kg</u>						
Chloromethane	NA	<11	<11	<12	<10	<11
Bromomethane	4950	<11	<11	<12	<10	<11
Vinyl chloride	342	<11	<11	<12	<10	<11
Chloroethane	5550	<11	<11	<12	<10	<11
Methylene chloride	300	<10	<10	<11	<5	<6
Acetone	330	<12 J	32 J	45 J	<2 J	<4 J
Carbon disulfide	8100	<5	<5	<6	<5	<5
Vinyl Acetate	NA	<11 J	<11 J	<12 J	<10 J	<11 J
1,1-Dichloroethylene	975	<5	<5	<6	<5	<5
1,1-Dichloroethane	450	<5	<5	<6	<5	<5
cis-1,2-Dichloroethene	NA	<5	<5	<6	<5	<5
trans-1,2-Dichloroethene	885	<5	<5	<6	<5	<5
1,2-Dichloroethane	210	<5	<5	<6	<5	<5
Chloroform	NA	<5	<5	<6	<5	<5

See footnotes on last page.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

CONSTITUENT	SITE	FPM-19F	FPM-19F	FPM-19F	FPM-19G	FPM-19G
	SAMPLE ID	FPM-19F/4-5	FPM-19F/9-10	FPM-19F/14-15	FPM-19G/0-1	FPM-19G/4-5
	DATE	04/30/2001	04/30/2001	04/30/2001	04/30/2001	04/30/2001
	DEPTH (FEET BLS)	4-5	9-10	14-15	0-1	4-5
<u>Closure Performance Standard (A)</u>						
<u>VOCs continued</u>						
Trichloroethene	1890	<5	<5	<6	<5	<5
2-Butanone	NA	<11 J	<11 J	<12 J	<10 J	<11 J
1,1,1-Trichloroethane	2280	<5	<5	<6	<5	<5
Carbon tetrachloride	1650	<5	<5	<6	<5	<5
Bromodichloromethane	NA	<5	<5	<6	<5	<5
1,2-Dichloropropane	NA	<5	<5	<6	<5	<5
cis-1,3-Dichloropropene	NA	<5	<5	<6	<5	<5
Dibromochloromethane	NA	<5	<5	<6	<5	<5
1,1,2-Trichloroethane	NA	<5	<5	<6	<5	<5
Benzene	174	<5	<5	<6	<5	<5
trans-1,3-Dichloropropene	NA	<5	<5	<6	<5	<5
Bromoform	NA	<5	<5	<6	<5	<5
4-Methyl-2-pentanone	2850	<11	<11	<12	<10	<11
2-Hexanone	NA	<11 J	<11 J	<12 J	<10 J	<11 J
Tetrachloroethene	4155	<5	<5	<6	<5	<5
Toluene	4500	<5	<5	<6	<5	<5
1,1,2,2-Tetrachloroethane	1770	<5	<5	<6	<5	<5
Chlorobenzene	4950	<5	<5	<6	<5	<5
Ethylbenzene	10000	<5	<5	<6	<5	<5
Styrene	NA	<5	<5	<6	<5	<5
Xylene (total)	3600	<5	<5	<6	<5	<5
<u>METALS in mg/kg</u>						
Antimony	NA	<7.7	<7.6	<7.5	<8.2	<8.1
Arsenic	12	<5.8	<5.7	<5.6	14.6	<6.1
Beryllium	1.75	<0.96	<0.96	<0.94	<1.0	<1.0
Cadmium	10	<1.9	<1.9	<1.9	<2.0	<2.0
Chromium	50	9.4	9.8	15.0	19.6	10.9
Copper	50	9.9	24.3	8.5	290.	10.8
Lead	500	5.9	10.0	6.8	116.	7.1
Mercury	0.2	0.030	0.023	0.021	8.1	0.038
Nickel	28.5	16.8	14.4	14.0	19.4	16.4
Selenium	3.9	<9.6	<9.6	<9.4	<10.3	<10.1
Silver	NA	<1.9	<1.9	<1.9	4.8	<2.0
Thallium	NA	<14.4	<14.3	<14.1	<15.4	<15.2
Zinc	55.7	21.8	24.6	52.3	137.	18.6

See footnotes on last page.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

CONSTITUENT	SITE	FPM-19G	FPM-19G	FPM-19H	FPM-19H	FPM-19H
	SAMPLE ID	FPM-19G/9-10	FPM-19G/14-15	FPM-19H/0-1	FPM-19H/4-5	FPM-19H/9-10
	DATE	04/30/2001	04/30/2001	04/27/2001	04/27/2001	04/27/2001
	DEPTH (FEET BLS)	9-10	14-15	0-1	4-5	9-10
<u>Closure</u>						
<u>Performance</u>						
<u>Standard (A)</u>						
<u>Semi-Volatile Organic</u>						
<u>Compounds (SVOCs) in ug/kg</u>						
Phenol	330	<350	<340	<1400	<340	<350
Bis(2-chloroethyl)ether	NA	<350	<340	<1400	<340	<350
2-Chlorophenol	2250	<350	<340	<1400	<340	<350
m-Dichlorobenzene	4650	<350	<340	<1400	<340	<350
p-Dichlorobenzene	25500	<350	<340	<1400	<340	<350
Benzyl alcohol	NA	<350	<340	<1400	<340	<350
o-Dichlorobenzene	23970	<350	<340	<1400	<340	<350
o-Cresol	NA	<350	<340	<1400	<340	<350
Bis(2-chloro-1-methylethyl) ether	NA	<350	<340	<1400	<340	<350
p-Cresol	2550	<350	<340	<1400	<340	<350
N-Nitrosodipropylamine	NA	<350	<340	<1400	<340	<350
Hexachloroethane	NA	<350	<340	<1400	<340	<350
Nitrobenzene	600	<350	<340	<1400	<340	<350
Isophorone	13200	<350	<340	<1400	<340	<350
o-Nitrophenol	975	<350	<340	<1400	<340	<350
2,4-Dimethylphenol	NA	<350	<340	<1400	<340	<350
Benzoic acid	8100	<1700	<1700	<6900	<1700	<1700
Bis(2-chloroethoxy)methane	NA	<350	<340	<1400	<340	<350
2,4-Dichlorophenol	1140	<350	<340	<1400	<340	<350
1,2,4-Trichlorobenzene	10050	<350	<340	<1400	<340	<350
Naphthalene	39000	8 J	5 J	220 J	<340	<350
p-Chloroaniline	NA	<350	<340	<1400	<340	<350
Hexachlorobutadiene	NA	<350	<340	<1400	<340	<350
p-Chloro-m-cresol	NA	<350	<340	<1400	<340	<350
2-Methylnaphthalene	50000	6 J	<340	160 J	<340	<350
Hexachlorocyclopentadiene	NA	<350	<340	<1400	<340	<350
2,4,6-Trichlorophenol	NA	<350	<340	<1400	<340	<350
2,4,5-Trichlorophenol	300	<1700	<1700	<6900	<1700	<1700
2-Chloronaphthalene	NA	<350	<340	<1400	<340	<350
o-Nitroaniline	1290	<1700	<1700	<6900	<1700	<1700
Dimethyl phthalate	NA	<350	<340	<1400	<340	<350
Acenaphthylene	50000	<350	6 J	860 J	<340	<350
2,6-Dinitrotoluene	3000	<350	<340	<1400	<340	<350
m-Nitroaniline	1500	<1700	<1700	<6900	<1700	<1700
Acenaphthene	50000	<350	7 J	100 J	<340	<350
2,4-Dinitrophenol	600	<1700	<1700	<6900	<1700	<1700
p-Nitrophenol	315	<1700	<1700	<6900	<1700	<1700
Dibenzofuran	18600	<350	4 J	120 J	<340	<350
2,4-Dinitrotoluene	NA	<350	<340	<1400	<340	<350
Diethyl phthalate	21300	<350	<340	<1400	<340	<350
4-Chlorophenyl phenyl ether	NA	<350	<340	<1400	<340	<350

See last page for footnotes.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

CONSTITUENT	SITE	FPM-19G	FPM-19G	FPM-19H	FPM-19H	FPM-19H
	SAMPLE ID	FPM-19G/9-10	FPM-19G/14-15	FPM-19H/0-1	FPM-19H/4-5	FPM-19H/9-10
	DATE	04/30/2001	04/30/2001	04/27/2001	04/27/2001	04/27/2001
	DEPTH (FEET BLS)	9-10	14-15	0-1	4-5	9-10
<u>Closure Performance Standard (A)</u>						
<u>SVOCs continued</u>						
Fluorene	50000	<350	8 J	110 J	<340	<350
p-Nitroaniline	NA	<1700	<1700	<6900	<1700	<1700
4,6-Dinitro-o-cresol	NA	<1700	<1700	<6900	<1700	<1700
N-Nitrosodiphenylamine	NA	<350	<340	<1400	<340	<350
4-Bromofluorobenzene	NA	<350	<340	<1400	<340	<350
Hexachlorobenzene	1230	<350	<340	<1400	<340	<350
Pentachlorophenol	3000	<1700	<1700	<6900	<1700	<1700
Phenanthrene	50000	<350	100 J	2100	<340	<350
Anthracene	50000	<350	23 J	1300 J	<340	<350
Carbazole	NA	<350	10 J	200 J	<340	<350
Di-n-butyl phthalate	24300	<350	8 J	170 J	<340	<350
Fluoranthene	50000	<350	140 J	5900	<340	<350
Pyrene	50000	<350	150 J	6600	<340	<350
Butyl benzyl phthalate	50000	<350	10 J	97 J	<340	<350
3,3-Dichlorobenzidine	672	<700	<690	<2800	<690	<700
Benzo(a)anthracene	8280	<350	76 J	5800	<340	<350
Chrysene	1200	<350	86 J	6200	<340	<350
Bis(2-ethylhexyl)phthalate (BEHP)	50000	61 J	280 J	<1400	<340	<350
Di-n-octyl phthalate	50000	<350	8 J	<1400	<340	<350
Benzo(b)fluoranthene	3300	<350	74 J	6500	<340	<350
Benzo(k)fluoranthene	3300	<350	85 J	3900	<340	<350
Benzo(a)pyrene (B)	MDL	<350	73 J	6000	<340	<350
Indeno(1,2,3-cd)pyrene	9600	<350	43 J	5600	<340	<350
Dibenzo(a,h)anthracene	42	<350	19 J	2300	<340	<350
Benzo(ghi)perylene	50000	<350	43 J	4800	<340	<350
<u>Volatile Organic Compounds (VOCs)</u>						
<u>in ug/kg</u>						
Chloromethane	NA	<11	<11	<10	<10	<10
Bromomethane	4950	<11	<11	<10	<10	<10
Vinyl chloride	342	<11	<11	<10	<10	<10
Chloroethane	5550	<11	<11	<10	<10	<10
Methylene chloride	300	<6	<6	<6 J	<6 J	<9 J
Acetone	330	<6 J	<9 J	<12	<10	<24
Carbon disulfide	8100	<5	<5	<5	<5	<5
Vinyl Acetate	NA	<11 J	<11 J	<10 J	<10 J	<10
1,1-Dichloroethylene	975	<5	<5	<5	<5	<5
1,1-Dichloroethane	450	<5	<5	<5	<5	<5
cis-1,2-Dichloroethene	NA	<5	<5	<5	<5	<5
trans-1,2-Dichloroethene	885	<5	<5	<5	<5	<5
1,2-Dichloroethane	210	<5	<5	<5	<5	<5
Chloroform	NA	<5	<5	<5	<6	<5

See footnotes on last page.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

CONSTITUENT	SITE	FPM-19G	FPM-19G	FPM-19H	FPM-19H	FPM-19H
	SAMPLE ID	FPM-19G/9-10	FPM-19G/14-15	FPM-19H/0-1	FPM-19H/4-5	FPM-19H/9-10
	DATE	04/30/2001	04/30/2001	04/27/2001	04/27/2001	04/27/2001
	DEPTH (FEET BLS)	9-10	14-15	0-1	4-5	9-10
<u>Closure</u>						
<u>Performance</u>						
<u>Standard (A)</u>						
<u>VOCs continued</u>						
Trichloroethene	1890	<5	<5	0.5 J	<5	<5
2-Butanone	NA	<11 J	<11 J	<10	<10	<10
1,1,1-Trichloroethane	2280	<5	<5	<5	<5	<5
Carbon tetrachloride	1650	<5	<5	<5	<5	<5
Bromodichloromethane	NA	<5	<5	<5	<5	<5
1,2-Dichloropropane	NA	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	NA	<5	<5	<5	<5	<5
Dibromochloromethane	NA	<5	<5	<5	<5	<5
1,1,2-Trichloroethane	NA	<5	<5	<5	<5	<5
Benzene	174	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	NA	<5	<5	<5	<5	<5
Bromoform	NA	<5	<5	<5	<5	<5
4-Methyl-2-pentanone	2850	<11	<11	<10	<10	<10
2-Hexanone	NA	<11 J	<11 J	<10	<10	<10
Tetrachloroethene	4155	<5	0.3 J	<5	<5	<5
Toluene	4500	<5	<5	<5	<5	<5
1,1,2,2-Tetrachloroethane	1770	<5	<5	<5	<5	<5
Chlorobenzene	4950	<5	<5	<5	<5	<5
Ethylbenzene	10000	<5	<5	<5	<5	<5
Styrene	NA	<5	<5	<5	<5	<5
Xylene (total)	3600	<5	<5	<5	<5	<5
<u>METALS in mg/kg</u>						
Antimony	NA	<8.0	<7.7	<8.5	<8.2	<6.4
Arsenic	12	<6.0	<5.8	<6.3	<6.1	<4.8
Beryllium	1.75	<1.0	<0.97	<1.0	<1.0	<0.80
Cadmium	10	<2.0	<1.9	<2.1	<2.0	<1.6
Chromium	50	12.7	14.9	15.0	6.8	8.6
Copper	50	10.8	31.0	379.	8.0	13.7
Lead	500	<5.0	14.2	67.8	<5.1	<4.0
Mercury	0.2	0.012	0.39	0.25	0.030	0.0044
Nickel	28.5	14.8	16.8	20.9	12.8	16.4
Selenium	3.9	<10.	<9.7	<10.6	<10.2	<8.0
Silver	NA	<2.0	<1.9	<2.1	<2.0	<1.6
Thallium	NA	<14.9	<14.5	<15.9	<15.3	<11.9
Zinc	55.7	17.8	32.9	181.	<15.3	14.8

See footnotes on last page.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

CONSTITUENT	SITE	FPM-19H	FPM-19I	FPM-19I	FPM-19I	FPM-19I
	SAMPLE ID	FPM-19H/13-15	FPM-19I/0-1	FPM-19I/4-5	FPM-19I/9-10	FPM-19I/14-15
	DATE	04/27/2001	04/27/2001	04/27/2001	04/27/2001	04/27/2001
	DEPTH (FEET BLS)	13-15	0-1	4-5	9-10	14-15
<u>Closure</u>						
<u>Performance</u>						
<u>Standard (A)</u>						
Semi-Volatile Organic						
Compounds (SVOCs) in ug/kg						
Phenol	330	<340	<340	<350	<340	<350
Bis(2-chloroethyl)ether	NA	<340	<340	<350	<340	<350
2-Chlorophenol	2250	<340	<340	<350	<340	<350
m-Dichlorobenzene	4650	<340	<340	<350	<340	<350
p-Dichlorobenzene	25500	<340	<340	<350	<340	<350
Benzyl alcohol	NA	<340	<340	<350	<340	<350
o-Dichlorobenzene	23970	<340	<340	<350	<340	<350
o-Cresol	NA	<340	<340	<350	<340	<350
Bis(2-chloro-1-methylethyl) ether	NA	<340	<340	<350	<340	<350
p-Cresol	2550	<340	<340	<350	<340	<350
N-Nitrosodipropylamine	NA	<340	<340	<350	<340	<350
Hexachloroethane	NA	<340	<340	<350	<340	<350
Nitrobenzene	600	<340	<340	<350	<340	<350
Isophorone	13200	<340	<340	<350	<340	<350
o-Nitrophenol	975	<340	<340	<350	<340	<350
2,4-Dimethylphenol	NA	<340	<340	<350	<340	<350
Benzoic acid	8100	<1700	<1600	<1700	<1600	<1700
Bis(2-chloroethoxy)methane	NA	<340	<340	<350	<340	<350
2,4-Dichlorophenol	1140	<340	<340	<350	<340	<350
1,2,4-Trichlorobenzene	10050	<340	<340	<350	<340	<350
Naphthalene	39000	6 J	7 J	<350	<340	<350
p-Chloroaniline	NA	<340	<340	<350	<340	<350
Hexachlorobutadiene	NA	<340	<340	<350	<340	<350
p-Chloro-m-cresol	NA	<340	<340	<350	<340	<350
2-Methylnaphthalene	50000	<340	7 J	<350	<340	<350
Hexachlorocyclopentadiene	NA	<340	<340	<350	<340	<350
2,4,6-Trichlorophenol	NA	<340	<340	<350	<340	<350
2,4,5-Trichlorophenol	300	<1700	<1600	<1700	<1600	<1700
2-Chloronaphthalene	NA	<340	<340	<350	<340	<350
o-Nitroaniline	1290	<1700	<1600	<1700	<1600	<1700
Dimethyl phthalate	NA	<340	<340	<350	<340	<350
Acenaphthylene	50000	17 J	6 J	<350	<340	<350
2,6-Dinitrotoluene	3000	<340	<340	<350	<340	<350
m-Nitroaniline	1500	<1700	<1600	<1700	<1600	<1700
Acenaphthene	50000	<340	<340	<350	<340	<350
2,4-Dinitrophenol	600	<1700	<1600	<1700	<1600	<1700
p-Nitrophenol	315	<1700	<1600	<1700	<1600	<1700
Dibenzofuran	18600	<340	<340	<350	<340	<350
2,4-Dinitrotoluene	NA	<340	<340	<350	<340	<350
Diethyl phthalate	21300	<340	<340	<350	<340	<350
4-Chlorophenyl phenyl ether	NA	<340	<340	<350	<340	<350

See last page for footnotes.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

CONSTITUENT	SITE	FPM-19H	FPM-19I	FPM-19I	FPM-19I	FPM-19I
	SAMPLE ID	FPM-19H/13-15	FPM-19I/0-1	FPM-19I/4-5	FPM-19I/9-10	FPM-19I/14-15
	DATE	04/27/2001	04/27/2001	04/27/2001	04/27/2001	04/27/2001
	DEPTH (FEET BLS)	13-15	0-1	4-5	9-10	14-15

Closure
Performance
Standard (A)

SVOCs continued

Fluorene	50000	<340	<340	<350	<340	<350
p-Nitroaniline	NA	<1700	<1600	<1700	<1600	<1700
4,6-Dinitro-o-cresol	NA	<1700	<1600	<1700	<1600	<1700
N-Nitrosodiphenylamine	NA	<340	<340	<350	<340	<350
4-Bromofluorobenzene	NA	<340	<340	<350	<340	<350
Hexachlorobenzene	1230	<340	<340	<350	<340	<350
Pentachlorophenol	3000	<1700	<1600	<1700	<1600	<1700
Phenanthrene	50000	69 J	20 J	4 J	<340	<350
Anthracene	50000	26 J	9 J	<350	<340	<350
Carbazole	NA	7 J	<340	<350	<340	<350
Di-n-butyl phthalate	24300	<340	<340	<350	<340	<350
Fluoranthene	50000	200 J	56 J	9 J	<340	<350
Pyrene	50000	210 J	44 J	7 J	<340	2 J
Butyl benzyl phthalate	50000	7 J	<340	<350	<340	<350
3,3-Dichlorobenzidine	672	<680	<680	<700	<670	<700
Benzo(a)anthracene	8280	150 J	34 J	5 J	<340	<350
Chrysene	1200	170 J	28 J	4 J	<340	<350
Bis(2-ethylhexyl)phthalate (BEHP)	50000	<340	<340	<350	<340	<350
Di-n-octyl phthalate	50000	<340	<340	<350	<340	<350
Benzo(b)fluoranthene	3300	140 J	<340	<350	<340	<350
Benzo(k)fluoranthene	3300	170 J	<340	<350	<340	<350
Benzo(a)pyrene (B)	MDL	140 J	<340	<350	<340	<350
Indeno(1,2,3-cd)pyrene	9600	83 J	<340	<350	<340	<350
Dibenzo(a,h)anthracene	42	35 J	<340	<350	<340	<350
Benzo(ghi)perylene	50000	83 J	<340	<350	<340	<350

Volatile Organic Compounds (VOCs)

in ug/kg

Chloromethane	NA	<10	<10	<10	<11	<11
Bromomethane	4950	<10	<10	<10	<11	<11
Vinyl chloride	342	<10	<10	<10	<11	<11
Chloroethane	5550	<10	<10	<10	<11	<11
Methylene chloride	300	<8 J	<6 J	<4 J	<6 J	<6 J
Acetone	330	<12	<35	<18	<22	<11
Carbon disulfide	8100	<5	<5	<5	<5	<5
Vinyl Acetate	NA	<10 J	<10 J	<10 J	<11 J	<11 J
1,1-Dichloroethylene	975	<5	<5	<5	<5	<5
1,1-Dichloroethane	450	<5	<5	<5	<5	<5
cis-1,2-Dichloroethene	NA	<5	<5	<5	<5	<5
trans-1,2-Dichloroethene	885	<5	<5	<5	<5	<5
1,2-Dichloroethane	210	<5	<5	<5	<5	<5
Chloroform	NA	<6	<5	<5	<5	<5

See footnotes on last page.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

CONSTITUENT	SITE	FPM-19H	FPM-19I	FPM-19I	FPM-19I	FPM-19I
	SAMPLE ID	FPM-19H/13-15	FPM-19I/0-1	FPM-19I/4-5	FPM-19I/9-10	FPM-19I/14-15
	DATE	04/27/2001	04/27/2001	04/27/2001	04/27/2001	04/27/2001
	DEPTH (FEET BLS)	13-15	0-1	4-5	9-10	14-15
<u>Closure Performance Standard (A)</u>						
VOCs continued						
Trichloroethene	1890	<5	<5	<5	<5	0.5 J
2-Butanone	NA	<10	<10	<10	4 J	<11
1,1,1-Trichloroethane	2280	<5	<5	<5	<5	<5
Carbon tetrachloride	1650	<5	<5	<5	<5	<5
Bromodichloromethane	NA	<5	<5	<5	<5	<5
1,2-Dichloropropane	NA	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	NA	<5	<5	<5	<5	<5
Dibromochloromethane	NA	<5	<5	<5	<5	<5
1,1,2-Trichloroethane	NA	<5	<5	<5	<5	<5
Benzene	174	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	NA	<5	<5	<5	<5	<5
Bromoform	NA	<5	<5	<5	<5	<5
4-Methyl-2-pentanone	2850	<10	<10	<10	<11	<11
2-Hexanone	NA	<10	<10	<10	<11	<11
Tetrachloroethene	4155	<5	<5	<5	<5	3 J
Toluene	4500	<5	<5	<5	1 J	0.6 J
1,1,2,2-Tetrachloroethane	1770	<5	<5	<5	<5	<5
Chlorobenzene	4950	<5	<5J	<5J	<5	<5
Ethylbenzene	10000	<5	<5	<5	<5	<5
Styrene	NA	<5	<5	<5	<5	<5
Xylene (total)	3600	<5	<5	<5	<5	<5
METALS in mg/kg						
Antimony	NA	<7.0	<7.4	<7.7	<7.9	<7.9
Arsenic	12	<5.2	<5.6	<5.8	<5.9	<5.9
Beryllium	1.75	<0.87	<0.93	<0.97	<0.98	<0.99
Cadmium	10	<1.7	<1.9	<1.9	<2.0	<2.0
Chromium	50	12.0	3.5	9.2	9.0	15.4
Copper	50	15.1	12.4	20.6	9.1	10.9
Lead	500	18.1	7.7	50.7	<4.9	42.8
Mercury	0.2	0.037	0.019	0.049	0.0082	0.046
Nickel	28.5	14.4	3.7	13.4	13.3	15.3
Selenium	3.9	<8.7	<9.3	<9.7	<9.8	<9.9
Silver	NA	<1.7	<1.9	<1.9	<2.0	<2.0
Thallium	NA	<13.0	<14.0	<14.5	<14.7	<14.8
Zinc	55.7	18.4	16.7	25.6	<14.7	42.8

See footnotes on last page.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

CONSTITUENT	SITE	FPM-19J	FPM-19J	FPM-19J	FPM-19J	FPM-19K
	SAMPLE ID	FPM-19J/0-1	FPM-19J/4-5	FPM-19J/9-10	FPM-19J/14-15	FPM-19K
	DATE	04/27/2001	04/27/2001	04/27/2001	04/27/2001	7/12/2001
	DEPTH (FEET BLS)	0-1	4-5	9-10	14-15	0-1
<u>Closure</u>						
<u>Performance</u>						
<u>Standard (A)</u>						
Semi-Volatile Organic						
Compounds (SVOCs) in ug/kg						
Phenol	330	<340	<350	<350	<340	--
Bis(2-chloroethyl)ether	NA	<340	<350	<350	<340	--
2-Chlorophenol	2250	<340	<350	<350	<340	--
m-Dichlorobenzene	4650	<340	<350	<350	<340	--
p-Dichlorobenzene	25500	<340	<350	<350	<340	--
Benzyl alcohol	NA	<340	<350	<350	<340	--
o-Dichlorobenzene	23970	<340	<350	<350	<340	--
o-Cresol	NA	<340	<350	<350	<340	--
Bis(2-chloro-1-methylethyl) ether	NA	<340	<350	<350	<340	--
p-Cresol	2550	<340	<350	<350	<340	--
N-Nitrosodipropylamine	NA	<340	<350	<350	<340	--
Hexachloroethane	NA	<340	<350	<350	<340	--
Nitrobenzene	600	<340	<350	<350	<340	--
Isophorone	13200	<340	<350	<350	<340	--
o-Nitrophenol	975	<340	<350	<350	<340	--
2,4-Dimethylphenol	NA	<340	<350	<350	<340	--
Benzoic acid	8100	<1600	<1700	<1700	<1700	--
Bis(2-chloroethoxy)methane	NA	<340	<350	<350	<340	--
2,4-Dichlorophenol	1140	<340	<350	<350	<340	--
1,2,4-Trichlorobenzene	10050	<340	<350	<350	<340	--
Naphthalene	39000	16 J	16 J	<350	<340	--
p-Chloroaniline	NA	<340	<350	<350	<340	--
Hexachlorobutadiene	NA	<340	<350	<350	<340	--
p-Chloro-m-cresol	NA	<340	<350	<350	<340	--
2-Methylnaphthalene	50000	16 J	9 J	<350	<340	--
Hexachlorocyclopentadiene	NA	<340	<350	<350	<340	--
2,4,6-Trichlorophenol	NA	<340	<350	<350	<340	--
2,4,5-Trichlorophenol	300	<1600	<1700	<1700	<1700	--
2-Chloronaphthalene	NA	<340	<350	<350	<340	--
o-Nitroaniline	1290	<1600	<1700	<1700	<1700	--
Dimethyl phthalate	NA	<340	<350	<350	<340	--
Acenaphthylene	50000	9 J	24 J	<350	<340	--
2,6-Dinitrotoluene	3000	<340	<350	<350	<340	--
m-Nitroaniline	1500	<1600	<1700	<1700	<1700	--
Acenaphthene	50000	100 J	36 J	<350	<340	--
2,4-Dinitrophenol	600	<1600	<1700	<1700	<1700	--
p-Nitrophenol	315	<1600	<1700	<1700	<1700	--
Dibenzofuran	18600	45 J	13 J	<350	<340	--
2,4-Dinitrotoluene	NA	<340	<350	<350	<340	--
Diethyl phthalate	21300	<340	<350	<350	<340	--
4-Chlorophenyl phenyl ether	NA	<340	<350	<350	<340	--

See last page for footnotes.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

CONSTITUENT	SITE	FPM-19J	FPM-19J	FPM-19J	FPM-19J	FPM-19K
	SAMPLE ID	FPM-19J/0-1	FPM-19J/4-5	FPM-19J/9-10	FPM-19J/14-15	FPM-19K
	DATE	04/27/2001	04/27/2001	04/27/2001	04/27/2001	7/12/2001
	DEPTH (FEET BLS)	0-1	4-5	9-10	14-15	0-1

Closure
Performance
Standard (A)

SVOCs continued

Fluorene	50000	100 J	34 J	<350	<340	--
p-Nitroaniline	NA	<1600	<1700	<1700	<1700	--
4,6-Dinitro-o-cresol	NA	<1600	<1700	<1700	<1700	--
N-Nitrosodiphenylamine	NA	<340	<350	<350	<340	--
4-Bromofluorobenzene	NA	<340	<350	<350	<340	--
Hexachlorobenzene	1230	<340	<350	<350	<340	--
Pentachlorophenol	3000	<1600	<1700	<1700	<1700	--
Phenanthrene	50000	650	270 J	9 J	<340	--
Anthracene	50000	210 J	85 J	<350	<340	--
Carbazole	NA	98 J	44 J	<350	<340	--
Di-n-butyl phthalate	24300	<340	<350	<350	<340	--
Fluoranthene	50000	720	420	13 J	<340	--
Pyrene	50000	570	330 J	10 J	<340	--
Butyl benzyl phthalate	50000	<340	<350	<350	<340	--
3,3-Dichlorobenzidine	672	<680	<700	<700	<690	--
Benzo(a)anthracene	8280	450	250 J	6 J	<340	--
Chrysene	1200	340	210 J	5 J	<340	--
Bis(2-ethylhexyl)phthalate (BEHP)	50000	<340	<350	<350	<340	--
Di-n-octyl phthalate	50000	<340	<350	<350	<340	--
Benzo(b)fluoranthene	3300	<340	<350	<350	<340	--
Benzo(k)fluoranthene	3300	<340	<350	<350	<340	--
Benzo(a)pyrene (B)	MDL	<340	<350	<350	<340	--
Indeno(1,2,3-cd)pyrene	9600	<340	<350	<350	<340	--
Dibenzo(a,h)anthracene	42	70 J	48 J	<350	<340	--
Benzo(ghi)perylene	50000	<340	<350	<350	<340	--

Volatile Organic Compounds (VOCs)

in ug/kg

Chloromethane	NA	<10	<10	<11	<9	--
Bromomethane	4950	<10	<10	<11	<9	--
Vinyl chloride	342	<10	<10	<11	<9	--
Chloroethane	5550	<10	<10	<11	<9	--
Methylene chloride	300	<10 J	<1 J	<6 J	<5J	--
Acetone	330	<9	<8	<6	<27	--
Carbon disulfide	8100	<5	<5	<5	<5	--
Vinyl Acetate	NA	<10	<10	<11	<9J	--
1,1-Dichloroethylene	975	<5	<5	<5	<5	--
1,1-Dichloroethane	450	<5	<5	<5	<5	--
cis-1,2-Dichloroethene	NA	<5	<5	<5	<5	--
trans-1,2-Dichloroethene	885	<5	<5	<5	<5	--
1,2-Dichloroethane	210	<5	<5	<5	<5	--
Chloroform	NA	<5	<5	<5	<5	--

See footnotes on last page.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

CONSTITUENT	SITE	FPM-19J	FPM-19J	FPM-19J	FPM-19J	FPM-19K
	SAMPLE ID	FPM-19J/0-1	FPM-19J/4-5	FPM-19J/9-10	FPM-19J/14-15	FPM-19K
	DATE	04/27/2001	04/27/2001	04/27/2001	04/27/2001	7/12/2001
	DEPTH (FEET BLS)	0-1	4-5	9-10	14-15	0-1
<u>Closure</u>						
<u>Performance</u>						
<u>Standard (A)</u>						
<u>VOCs continued</u>						
Trichloroethene	1890	<5	<5	<5	<5	--
2-Butanone	NA	<10	<10	<11	<9	--
1,1,1-Trichloroethane	2280	<5	<5	<5	<5	--
Carbon tetrachloride	1650	<5	<5	<5	<5	--
Bromodichloromethane	NA	<5	<5	<5	<5	--
1,2-Dichloropropane	NA	<5	<5	<5	<5	--
cis-1,3-Dichloropropene	NA	<5	<5	<5	<5	--
Dibromochloromethane	NA	<5	<5	<5	<5	--
1,1,2-Trichloroethane	NA	<5	<5	<5	<5	--
Benzene	174	<5	<5	<5	<5	--
trans-1,3-Dichloropropene	NA	<5	<5	<5	<5	--
Bromoform	NA	<5	<5	<5	<5	--
4-Methyl-2-pentanone	2850	<10	<10	<11	<9	--
2-Hexanone	NA	<10	<10	<11	<9	--
Tetrachloroethene	4155	<5	<5	0.6 J	<5	--
Toluene	4500	<5	<5	0.4 J	<5	--
1,1,2,2-Tetrachloroethane	1770	<5	<5	<5	<5	--
Chlorobenzene	4950	<5	<5	<5	<5J	--
Ethylbenzene	10000	<5	<5	<5	<5	--
Styrene	NA	<5	<5	<5	<5	--
Xylene (total)	3600	<5	<5	<5	<5	--
<u>METALS in mg/kg</u>						
Antimony	NA	<7.7	<7.7	<8.2	<7.4	--
Arsenic	12	<5.8	<5.8	18.7	<5.5	3.1 B
Beryllium	1.75	<0.96	<0.96	<1.0	<0.92	--
Cadmium	10	<1.9	<1.9	<2.0	<1.8	--
Chromium	50	9.7	12.5	12.6	7.9	--
Copper	50	11.3	29.0	11.2	8.3	11.7
Lead	500	6.3	15.3	11.9	7.8	--
Mercury	0.2	0.019	0.068	0.021	0.011	--
Nickel	28.5	16.6	17.6	36.4	11.9	--
Selenium	3.9	<9.6	<9.6	<10.2	<9.2	<9.0
Silver	NA	<1.9	<1.9	<2.0	<1.8	--
Thallium	NA	<14.4	<14.4	<15.4	<13.8	--
Zinc	55.7	23.5	25.8	25.2	<13.8	18.4 J

See footnotes on last page.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

CONSTITUENT	SITE	FPM-19L	FPM-19M	FPM-19N	FPM-19O	FPM-19P	FPM-19Q
	SAMPLE ID	FPM-19L	FPM-19M	FPM-19N	FPM-19O	FPM-19P	FPM-19Q
	DATE	7/12/2001	7/12/2001	7/12/2001	7/12/2001	7/12/2001	7/12/2001
	DEPTH (FEET BLS)	0-1	0-1	0-1	0-1	0-1	0-1

Closure
Performance
Standard (A)

**Semi-Volatile Organic
Compounds (SVOCs) in ug/kg**

Phenol	330	--	--	--	--	--	--
Bis(2-chloroethyl)ether	NA	--	--	--	--	--	--
2-Chlorophenol	2250	--	--	--	--	--	--
m-Dichlorobenzene	4650	--	--	--	--	--	--
p-Dichlorobenzene	25500	--	--	--	--	--	--
Benzyl alcohol	NA	--	--	--	--	--	--
o-Dichlorobenzene	23970	--	--	--	--	--	--
o-Cresol	NA	--	--	--	--	--	--
Bis(2-chloro-1-methylethyl) ether	NA	--	--	--	--	--	--
p-Cresol	2550	--	--	--	--	--	--
N-Nitrosodipropylamine	NA	--	--	--	--	--	--
Hexachloroethane	NA	--	--	--	--	--	--
Nitrobenzene	600	--	--	--	--	--	--
Isophorone	13200	--	--	--	--	--	--
o-Nitrophenol	975	--	--	--	--	--	--
2,4-Dimethylphenol	NA	--	--	--	--	--	--
Benzoic acid	8100	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	NA	--	--	--	--	--	--
2,4-Dichlorophenol	1140	--	--	--	--	--	--
1,2,4-Trichlorobenzene	10050	--	--	--	--	--	--
Naphthalene	39000	--	--	--	--	--	--
p-Chloroaniline	NA	--	--	--	--	--	--
Hexachlorobutadiene	NA	--	--	--	--	--	--
p-Chloro-m-cresol	NA	--	--	--	--	--	--
2-Methylnaphthalene	50000	--	--	--	--	--	--
Hexachlorocyclopentadiene	NA	--	--	--	--	--	--
2,4,6-Trichlorophenol	NA	--	--	--	--	--	--
2,4,5-Trichlorophenol	300	--	--	--	--	--	--
2-Chloronaphthalene	NA	--	--	--	--	--	--
o-Nitroaniline	1290	--	--	--	--	--	--
Dimethyl phthalate	NA	--	--	--	--	--	--
Acenaphthylene	50000	--	--	--	--	--	--
2,6-Dinitrotoluene	3000	--	--	--	--	--	--
m-Nitroaniline	1500	--	--	--	--	--	--
Acenaphthene	50000	--	--	--	--	--	--
2,4-Dinitrophenol	600	--	--	--	--	--	--
p-Nitrophenol	315	--	--	--	--	--	--
Dibenzofuran	18600	--	--	--	--	--	--
2,4-Dinitrotoluene	NA	--	--	--	--	--	--
Diethyl phthalate	21300	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	NA	--	--	--	--	--	--

See last page for footnotes.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

CONSTITUENT	SITE	FPM-19L	FPM-19M	FPM-19N	FPM-19O	FPM-19P	FPM-19Q
	SAMPLE ID	FPM-19L	FPM-19M	FPM-19N	FPM-19O	FPM-19P	FPM-19Q
	DATE	7/12/2001	7/12/2001	7/12/2001	7/12/2001	7/12/2001	7/12/2001
	DEPTH (FEET BLS)	0-1	0-1	0-1	0-1	0-1	0-1

	<u>Closure</u>						
	<u>Performance</u>						
	<u>Standard (A)</u>						
<u>SVOCs continued</u>							
Fluorene	50000	--	--	--	--	--	--
p-Nitroaniline	NA	--	--	--	--	--	--
4,6-Dinitro-o-cresol	NA	--	--	--	--	--	--
N-Nitrosodiphenylamine	NA	--	--	--	--	--	--
4-Bromofluorobenzene	NA	--	--	--	--	--	--
Hexachlorobenzene	1230	--	--	--	--	--	--
Pentachlorophenol	3000	--	--	--	--	--	--
Phenanthrene	50000	--	--	--	--	--	--
Anthracene	50000	--	--	--	--	--	--
Carbazole	NA	--	--	--	--	--	--
Di-n-butyl phthalate	24300	--	--	--	--	--	--
Fluoranthene	50000	--	--	--	--	--	--
Pyrene	50000	--	--	--	--	--	--
Butyl benzyl phthalate	50000	--	--	--	--	--	--
3,3-Dichlorobenzidine	672	--	--	--	--	--	--
Benzo(a)anthracene	8280	--	--	--	--	--	--
Chrysene	1200	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate (BEHP)	50000	--	--	--	--	--	--
Di-n-octyl phthalate	50000	--	--	--	--	--	--
Benzo(b)fluoranthene	3300	--	--	--	--	--	--
Benzo(k)fluoranthene	3300	--	--	--	--	--	--
Benzo(a)pyrene (B)	MDL	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	9600	--	--	--	--	--	--
Dibenzo(a,h)anthracene	42	--	--	--	--	--	--
Benzo(ghi)perylene	50000	--	--	--	--	--	--
<u>Volatile Organic Compounds (VOCs)</u>							
<u>in ug/kg</u>							
Chloromethane	NA	--	--	--	--	--	--
Bromomethane	4950	--	--	--	--	--	--
Vinyl chloride	342	--	--	--	--	--	--
Chloroethane	5550	--	--	--	--	--	--
Methylene chloride	300	--	--	--	--	--	--
Acetone	330	--	--	--	--	--	--
Carbon disulfide	8100	--	--	--	--	--	--
Vinyl Acetate	NA	--	--	--	--	--	--
1,1-Dichloroethylene	975	--	--	--	--	--	--
1,1-Dichloroethane	450	--	--	--	--	--	--
cis-1,2-Dichloroethene	NA	--	--	--	--	--	--
trans-1,2-Dichloroethene	885	--	--	--	--	--	--
1,2-Dichloroethane	210	--	--	--	--	--	--
Chloroform	NA	--	--	--	--	--	--

See footnotes on last page.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

CONSTITUENT	SITE	FPM-19L	FPM-19M	FPM-19N	FPM-19O	FPM-19P	FPM-19Q
	SAMPLE ID	FPM-19L	FPM-19M	FPM-19N	FPM-19O	FPM-19P	FPM-19Q
	DATE	7/12/2001	7/12/2001	7/12/2001	7/12/2001	7/12/2001	7/12/2001
	DEPTH (FEET BLS)	0-1	0-1	0-1	0-1	0-1	0-1

		<u>Closure Performance Standard (A)</u>					
<u>VOCs continued</u>							
Trichloroethene	1890	--	--	--	--	--	--
2-Butanone	NA	--	--	--	--	--	--
1,1,1-Trichloroethane	2280	--	--	--	--	--	--
Carbon tetrachloride	1650	--	--	--	--	--	--
Bromodichloromethane	NA	--	--	--	--	--	--
1,2-Dichloropropane	NA	--	--	--	--	--	--
cis-1,3-Dichloropropene	NA	--	--	--	--	--	--
Dibromochloromethane	NA	--	--	--	--	--	--
1,1,2-Trichloroethane	NA	--	--	--	--	--	--
Benzene	174	--	--	--	--	--	--
trans-1,3-Dichloropropene	NA	--	--	--	--	--	--
Bromoform	NA	--	--	--	--	--	--
4-Methyl-2-pentanone	2850	--	--	--	--	--	--
2-Hexanone	NA	--	--	--	--	--	--
Tetrachloroethene	4155	--	--	--	--	--	--
Toluene	4500	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	1770	--	--	--	--	--	--
Chlorobenzene	4950	--	--	--	--	--	--
Ethylbenzene	10000	--	--	--	--	--	--
Styrene	NA	--	--	--	--	--	--
Xylene (total)	3600	--	--	--	--	--	--
<u>METALS in mg/kg</u>							
Antimony	NA	--	--	--	--	--	--
Arsenic	12	3.1 B	3.0 B	9	30.2	14.8	11.8
Beryllium	1.75	--	--	--	--	--	--
Cadmium	10	--	--	--	--	--	--
Chromium	50	--	--	--	--	--	--
Copper	50	9.8	39.9	21	445	154	31.2
Lead	500	--	--	--	--	--	--
Mercury	0.2	<0.016	<0.033	0.42 J	0.59 J	0.36 J	0.32 J
Nickel	28.5	--	--	--	--	--	--
Selenium	3.9	--	--	--	--	--	--
Silver	NA	--	--	--	--	--	--
Thallium	NA	--	--	--	--	--	--
Zinc	55.7	19.7 J	155 J	37 J	93.1 J	94 J	39.4 J

See footnotes on last page.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

CONSTITUENT	SITE	FPM-19R	FPM-19S	FPM-19T	FPM-19U	FPM-19V	FPM-19W
	SAMPLE ID	FPM-19R	FPM-19S	FPM-19T	FPM-19U	FPM-19V	FPM-19W
	DATE	7/12/2001	7/12/2001	7/12/2001	7/12/2001	7/12/2001	7/12/2001
	DEPTH (FEET BLS)	0-1	0-1	0-1	0-1	0-1	0-1

Closure
Performance
Standard (A)

**Semi-Volatile Organic
Compounds (SVOCs) in ug/kg**

Phenol	330	--	--	--	--	--	--
Bis(2-chloroethyl)ether	NA	--	--	--	--	--	--
2-Chlorophenol	2250	--	--	--	--	--	--
m-Dichlorobenzene	4650	--	--	--	--	--	--
p-Dichlorobenzene	25500	--	--	--	--	--	--
Benzyl alcohol	NA	--	--	--	--	--	--
o-Dichlorobenzene	23970	--	--	--	--	--	--
o-Cresol	NA	--	--	--	--	--	--
Bis(2-chloro-1-methylethyl) ether	NA	--	--	--	--	--	--
p-Cresol	2550	--	--	--	--	--	--
N-Nitrosodipropylamine	NA	--	--	--	--	--	--
Hexachloroethane	NA	--	--	--	--	--	--
Nitrobenzene	600	--	--	--	--	--	--
Isophorone	13200	--	--	--	--	--	--
o-Nitrophenol	975	--	--	--	--	--	--
2,4-Dimethylphenol	NA	--	--	--	--	--	--
Benzoic acid	8100	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	NA	--	--	--	--	--	--
2,4-Dichlorophenol	1140	--	--	--	--	--	--
1,2,4-Trichlorobenzene	10050	--	--	--	--	--	--
Naphthalene	39000	--	--	--	--	--	--
p-Chloroaniline	NA	--	--	--	--	--	--
Hexachlorobutadiene	NA	--	--	--	--	--	--
p-Chloro-m-cresol	NA	--	--	--	--	--	--
2-Methylnaphthalene	50000	--	--	--	--	--	--
Hexachlorocyclopentadiene	NA	--	--	--	--	--	--
2,4,6-Trichlorophenol	NA	--	--	--	--	--	--
2,4,5-Trichlorophenol	300	--	--	--	--	--	--
2-Chloronaphthalene	NA	--	--	--	--	--	--
o-Nitroaniline	1290	--	--	--	--	--	--
Dimethyl phthalate	NA	--	--	--	--	--	--
Acenaphthylene	50000	--	--	--	--	--	--
2,6-Dinitrotoluene	3000	--	--	--	--	--	--
m-Nitroaniline	1500	--	--	--	--	--	--
Acenaphthene	50000	--	--	--	--	--	--
2,4-Dinitrophenol	600	--	--	--	--	--	--
p-Nitrophenol	315	--	--	--	--	--	--
Dibenzofuran	18600	--	--	--	--	--	--
2,4-Dinitrotoluene	NA	--	--	--	--	--	--
Diethyl phthalate	21300	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	NA	--	--	--	--	--	--

See last page for footnotes.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

CONSTITUENT	SITE	FPM-19R	FPM-19S	FPM-19T	FPM-19U	FPM-19V	FPM-19W
	SAMPLE ID	FPM-19R	FPM-19S	FPM-19T	FPM-19U	FPM-19V	FPM-19W
	DATE	7/12/2001	7/12/2001	7/12/2001	7/12/2001	7/12/2001	7/12/2001
	DEPTH (FEET BLS)	0-1	0-1	0-1	0-1	0-1	0-1

	<u>Closure</u>						
	<u>Performance</u>						
	<u>Standard (A)</u>						
<u>SVOCs continued</u>							
Fluorene	50000	--	--	--	--	--	--
p-Nitroaniline	NA	--	--	--	--	--	--
4,6-Dinitro-o-cresol	NA	--	--	--	--	--	--
N-Nitrosodiphenylamine	NA	--	--	--	--	--	--
4-Bromofluorobenzene	NA	--	--	--	--	--	--
Hexachlorobenzene	1230	--	--	--	--	--	--
Pentachlorophenol	3000	--	--	--	--	--	--
Phenanthrene	50000	--	--	--	--	--	--
Anthracene	50000	--	--	--	--	--	--
Carbazole	NA	--	--	--	--	--	--
Di-n-butyl phthalate	24300	--	--	--	--	--	--
Fluoranthene	50000	--	--	--	--	--	--
Pyrene	50000	--	--	--	--	--	--
Butyl benzyl phthalate	50000	--	--	--	--	--	--
3,3-Dichlorobenzidine	672	--	--	--	--	--	--
Benzo(a)anthracene	8280	--	--	--	--	--	--
Chrysene	1200	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate (BEHP)	50000	--	--	--	--	--	--
Di-n-octyl phthalate	50000	--	--	--	--	--	--
Benzo(b)fluoranthene	3300	--	--	--	--	--	--
Benzo(k)fluoranthene	3300	--	--	--	--	--	--
Benzo(a)pyrene (B)	MDL	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	9600	--	--	--	--	--	--
Dibenzo(a,h)anthracene	42	--	--	--	--	--	--
Benzo(ghi)perylene	50000	--	--	--	--	--	--
<u>Volatile Organic Compounds (VOCs)</u>							
<u>in ug/kg</u>							
Chloromethane	NA	--	--	--	--	--	--
Bromomethane	4950	--	--	--	--	--	--
Vinyl chloride	342	--	--	--	--	--	--
Chloroethane	5550	--	--	--	--	--	--
Methylene chloride	300	--	--	--	--	--	--
Acetone	330	--	--	--	--	--	--
Carbon disulfide	8100	--	--	--	--	--	--
Vinyl Acetate	NA	--	--	--	--	--	--
1,1-Dichloroethylene	975	--	--	--	--	--	--
1,1-Dichloroethane	450	--	--	--	--	--	--
cis-1,2-Dichloroethene	NA	--	--	--	--	--	--
trans-1,2-Dichloroethene	885	--	--	--	--	--	--
1,2-Dichloroethane	210	--	--	--	--	--	--
Chloroform	NA	--	--	--	--	--	--

See footnotes on last page.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

CONSTITUENT	SITE	FPM-19R	FPM-19S	FPM-19T	FPM-19U	FPM-19V	FPM-19W
	SAMPLE ID	FPM-19R	FPM-19S	FPM-19T	FPM-19U	FPM-19V	FPM-19W
	DATE	7/12/2001	7/12/2001	7/12/2001	7/12/2001	7/12/2001	7/12/2001
	DEPTH (FEET BLS)	0-1	0-1	0-1	0-1	0-1	0-1

	<u>Closure</u>						
	<u>Performance</u>						
	<u>Standard (A)</u>						
<u>VOCs continued</u>							
Trichloroethene	1890	--	--	--	--	--	--
2-Butanone	NA	--	--	--	--	--	--
1,1,1-Trichloroethane	2280	--	--	--	--	--	--
Carbon tetrachloride	1650	--	--	--	--	--	--
Bromodichloromethane	NA	--	--	--	--	--	--
1,2-Dichloropropane	NA	--	--	--	--	--	--
cis-1,3-Dichloropropene	NA	--	--	--	--	--	--
Dibromochloromethane	NA	--	--	--	--	--	--
1,1,2-Trichloroethane	NA	--	--	--	--	--	--
Benzene	174	--	--	--	--	--	--
trans-1,3-Dichloropropene	NA	--	--	--	--	--	--
Bromoform	NA	--	--	--	--	--	--
4-Methyl-2-pentanone	2850	--	--	--	--	--	--
2-Hexanone	NA	--	--	--	--	--	--
Tetrachloroethene	4155	--	--	--	--	--	--
Toluene	4500	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	1770	--	--	--	--	--	--
Chlorobenzene	4950	--	--	--	--	--	--
Ethylbenzene	10000	--	--	--	--	--	--
Styrene	NA	--	--	--	--	--	--
Xylene (total)	3600	--	--	--	--	--	--
<u>METALS in mg/kg</u>							
Antimony	NA	--	--	--	--	--	--
Arsenic	12	17.8	4.6 B	7.1	5.1 B	11.8	15.6
Beryllium	1.75	--	--	--	--	--	--
Cadmium	10	--	--	--	--	--	--
Chromium	50	--	--	--	--	--	--
Copper	50	99.1	27.9	11.6	8.8	1990	27.6
Lead	500	--	--	--	--	--	--
Mercury	0.2	0.71 J	0.17 J	0.11 J	0.007 J	19.4 J	0.69 J
Nickel	28.5	--	--	--	--	--	--
Selenium	3.9	--	--	--	--	--	--
Silver	NA	--	--	--	--	--	--
Thallium	NA	--	--	--	--	--	--
Zinc	55.7	46.9 J	83.8 J	245 J	12.8 BJ	949 J	53.7 J

See footnotes on last page.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

CONSTITUENT	SITE	FPM-19X	FPM-19Y	FPM-19C1	FPM-19C1	FPM-19C1	FPM-19D1
	SAMPLE ID	FPM-19X	FPM-19Y	FPM-19C1	FPM-19C1	FPM-19C1	FPM-19D1
	DATE	9/25/2001	9/25/2001	12/17/2001	12/17/2001	12/17/2001	12/17/2001
DEPTH (FEET BLS)	0-1	0-1	1-2	2-3	3-4	1-2	
<u>Closure</u>							
<u>Performance</u>							
<u>Standard (A)</u>							
<u>Semi-Volatile Organic</u>							
<u>Compounds (SVOCs) in ug/kg</u>							
Phenol	330	--	--	--	--	--	--
Bis(2-chloroethyl)ether	NA	--	--	--	--	--	--
2-Chlorophenol	2250	--	--	--	--	--	--
m-Dichlorobenzene	4650	--	--	--	--	--	--
p-Dichlorobenzene	25500	--	--	--	--	--	--
Benzyl alcohol	NA	--	--	--	--	--	--
o-Dichlorobenzene	23970	--	--	--	--	--	--
o-Cresol	NA	--	--	--	--	--	--
Bis(2-chloro-1-methylethyl) ether	NA	--	--	--	--	--	--
p-Cresol	2550	--	--	--	--	--	--
N-Nitrosodipropylamine	NA	--	--	--	--	--	--
Hexachloroethane	NA	--	--	--	--	--	--
Nitrobenzene	600	--	--	--	--	--	--
Isophorone	13200	--	--	--	--	--	--
o-Nitrophenol	975	--	--	--	--	--	--
2,4-Dimethylphenol	NA	--	--	--	--	--	--
Benzoic acid	8100	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	NA	--	--	--	--	--	--
2,4-Dichlorophenol	1140	--	--	--	--	--	--
1,2,4-Trichlorobenzene	10050	--	--	--	--	--	--
Naphthalene	39000	--	--	--	--	--	--
p-Chloroaniline	NA	--	--	--	--	--	--
Hexachlorobutadiene	NA	--	--	--	--	--	--
p-Chloro-m-cresol	NA	--	--	--	--	--	--
2-Methylnaphthalene	50000	--	--	--	--	--	--
Hexachlorocyclopentadiene	NA	--	--	--	--	--	--
2,4,6-Trichlorophenol	NA	--	--	--	--	--	--
2,4,5-Trichlorophenol	300	--	--	--	--	--	--
2-Chloronaphthalene	NA	--	--	--	--	--	--
o-Nitroaniline	1290	--	--	--	--	--	--
Dimethyl phthalate	NA	--	--	--	--	--	--
Acenaphthylene	50000	--	--	--	--	--	--
2,6-Dinitrotoluene	3000	--	--	--	--	--	--
m-Nitroaniline	1500	--	--	--	--	--	--
Acenaphthene	50000	--	--	--	--	--	--
2,4-Dinitrophenol	600	--	--	--	--	--	--
p-Nitrophenol	315	--	--	--	--	--	--
Dibenzofuran	18600	--	--	--	--	--	--
2,4-Dinitrotoluene	NA	--	--	--	--	--	--
Diethyl phthalate	21300	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	NA	--	--	--	--	--	--

See last page for footnotes.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

CONSTITUENT	SITE	FPM-19X	FPM-19Y	FPM-19C1	FPM-19C1	FPM-19C1	FPM-19D1
	SAMPLE ID	FPM-19X	FPM-19Y	FPM-19C1	FPM-19C1	FPM-19C1	FPM-19D1
	DATE	9/25/2001	9/25/2001	12/17/2001	12/17/2001	12/17/2001	12/17/2001
	DEPTH (FEET BLS)	0-1	0-1	1-2	2-3	3-4	1-2

Closure
Performance
Standard (A)

SVOCs continued

Fluorene	50000	--	--	--	--	--	--
p-Nitroaniline	NA	--	--	--	--	--	--
4,6-Dinitro-o-cresol	NA	--	--	--	--	--	--
N-Nitrosodiphenylamine	NA	--	--	--	--	--	--
4-Bromofluorobenzene	NA	--	--	--	--	--	--
Hexachlorobenzene	1230	--	--	--	--	--	--
Pentachlorophenol	3000	--	--	--	--	--	--
Phenanthrene	50000	--	--	--	--	--	--
Anthracene	50000	--	--	--	--	--	--
Carbazole	NA	--	--	--	--	--	--
Di-n-butyl phthalate	24300	--	--	--	--	--	--
Fluoranthene	50000	--	--	--	--	--	--
Pyrene	50000	--	--	--	--	--	--
Butyl benzyl phthalate	50000	--	--	--	--	--	--
3,3-Dichlorobenzidine	672	--	--	--	--	--	--
Benzo(a)anthracene	8280	--	--	--	--	--	--
Chrysene	1200	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate (BEHP)	50000	--	--	--	--	--	--
Di-n-octyl phthalate	50000	--	--	--	--	--	--
Benzo(b)fluoranthene	3300	--	--	--	--	--	--
Benzo(k)fluoranthene	3300	--	--	--	--	--	--
Benzo(a)pyrene (B)	MDL	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	9600	--	--	--	--	--	--
Dibenzo(a,h)anthracene	42	--	--	--	--	--	--
Benzo(ghi)perylene	50000	--	--	--	--	--	--

Volatile Organic Compounds (VOCs)

in ug/kg

Chloromethane	NA	--	--	--	--	--	--
Bromomethane	4950	--	--	--	--	--	--
Vinyl chloride	342	--	--	--	--	--	--
Chloroethane	5550	--	--	--	--	--	--
Methylene chloride	300	--	--	--	--	--	--
Acetone	330	--	--	--	--	--	--
Carbon disulfide	8100	--	--	--	--	--	--
Vinyl Acetate	NA	--	--	--	--	--	--
1,1-Dichloroethylene	975	--	--	--	--	--	--
1,1-Dichloroethane	450	--	--	--	--	--	--
cis-1,2-Dichloroethene	NA	--	--	--	--	--	--
trans-1,2-Dichloroethene	885	--	--	--	--	--	--
1,2-Dichloroethane	210	--	--	--	--	--	--
Chloroform	NA	--	--	--	--	--	--

See footnotes on last page.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

CONSTITUENT	SITE	FPM-19X	FPM-19Y	FPM-19C1	FPM-19C1	FPM-19C1	FPM-19D1
	SAMPLE ID	FPM-19X	FPM-19Y	FPM-19C1	FPM-19C1	FPM-19C1	FPM-19D1
	DATE	9/25/2001	9/25/2001	12/17/2001	12/17/2001	12/17/2001	12/17/2001
	DEPTH (FEET BLS)	0-1	0-1	1-2	2-3	3-4	1-2
<u>Closure Performance Standard (A)</u>							
<u>VOCs continued</u>							
Trichloroethene	1890	--	--	--	--	--	--
2-Butanone	NA	--	--	--	--	--	--
1,1,1-Trichloroethane	2280	--	--	--	--	--	--
Carbon tetrachloride	1650	--	--	--	--	--	--
Bromodichloromethane	NA	--	--	--	--	--	--
1,2-Dichloropropane	NA	--	--	--	--	--	--
cis-1,3-Dichloropropene	NA	--	--	--	--	--	--
Dibromochloromethane	NA	--	--	--	--	--	--
1,1,2-Trichloroethane	NA	--	--	--	--	--	--
Benzene	174	--	--	--	--	--	--
trans-1,3-Dichloropropene	NA	--	--	--	--	--	--
Bromoform	NA	--	--	--	--	--	--
4-Methyl-2-pentanone	2850	--	--	--	--	--	--
2-Hexanone	NA	--	--	--	--	--	--
Tetrachloroethene	4155	--	--	--	--	--	--
Toluene	4500	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	1770	--	--	--	--	--	--
Chlorobenzene	4950	--	--	--	--	--	--
Ethylbenzene	10000	--	--	--	--	--	--
Styrene	NA	--	--	--	--	--	--
Xylene (total)	3600	--	--	--	--	--	--
<u>METALS in mg/kg</u>							
Antimony	NA	--	--	--	--	--	--
Arsenic	12	112	11.6	--	--	--	--
Beryllium	1.75	--	--	--	--	--	--
Cadmium	10	--	--	--	--	--	--
Chromium	50	--	--	--	--	--	--
Copper	50	--	--	--	--	--	--
Lead	500	--	--	--	--	--	--
Mercury	0.2	0.74	0.58	0.009	<.006	<.006	0.03
Nickel	28.5	--	--	--	--	--	--
Selenium	3.9	--	--	--	--	--	--
Silver	NA	--	--	--	--	--	--
Thallium	NA	--	--	--	--	--	--
Zinc	55.7	98.4	122	13.0	12.1	6.7	27.1

See footnotes on last page.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

CONSTITUENT	SITE	FPM-19D1	FPM-19D1	FPM-19Z1	FPM-19Z1	FPM-19Z1	FPM-19Z2
	SAMPLE ID	FPM-19D1	FPM-19D1	FPM-19Z1	FPM-19Z1	FPM-19Z1	FPM-19Z2
	DATE	12/17/2001	12/17/2001	12/17/2001	12/17/2001	12/17/2001	12/17/2001
	DEPTH (FEET BLS)	2-3	3-4	1-2	2-3	3-4	1-2

Closure
Performance
Standard (A)

**Semi-Volatile Organic
Compounds (SVOCs) in ug/kg**

Phenol	330	--	--	--	--	--	--
Bis(2-chloroethyl)ether	NA	--	--	--	--	--	--
2-Chlorophenol	2250	--	--	--	--	--	--
m-Dichlorobenzene	4650	--	--	--	--	--	--
p-Dichlorobenzene	25500	--	--	--	--	--	--
Benzyl alcohol	NA	--	--	--	--	--	--
o-Dichlorobenzene	23970	--	--	--	--	--	--
o-Cresol	NA	--	--	--	--	--	--
Bis(2-chloro-1-methylethyl) ether	NA	--	--	--	--	--	--
p-Cresol	2550	--	--	--	--	--	--
N-Nitrosodipropylamine	NA	--	--	--	--	--	--
Hexachloroethane	NA	--	--	--	--	--	--
Nitrobenzene	600	--	--	--	--	--	--
Isophorone	13200	--	--	--	--	--	--
o-Nitrophenol	975	--	--	--	--	--	--
2,4-Dimethylphenol	NA	--	--	--	--	--	--
Benzoic acid	8100	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	NA	--	--	--	--	--	--
2,4-Dichlorophenol	1140	--	--	--	--	--	--
1,2,4-Trichlorobenzene	10050	--	--	--	--	--	--
Naphthalene	39000	--	--	--	--	--	--
p-Chloroaniline	NA	--	--	--	--	--	--
Hexachlorobutadiene	NA	--	--	--	--	--	--
p-Chloro-m-cresol	NA	--	--	--	--	--	--
2-Methylnaphthalene	50000	--	--	--	--	--	--
Hexachlorocyclopentadiene	NA	--	--	--	--	--	--
2,4,6-Trichlorophenol	NA	--	--	--	--	--	--
2,4,5-Trichlorophenol	300	--	--	--	--	--	--
2-Chloronaphthalene	NA	--	--	--	--	--	--
o-Nitroaniline	1290	--	--	--	--	--	--
Dimethyl phthalate	NA	--	--	--	--	--	--
Acenaphthylene	50000	--	--	--	--	--	--
2,6-Dinitrotoluene	3000	--	--	--	--	--	--
m-Nitroaniline	1500	--	--	--	--	--	--
Acenaphthene	50000	--	--	--	--	--	--
2,4-Dinitrophenol	600	--	--	--	--	--	--
p-Nitrophenol	315	--	--	--	--	--	--
Dibenzofuran	18600	--	--	--	--	--	--
2,4-Dinitrotoluene	NA	--	--	--	--	--	--
Diethyl phthalate	21300	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	NA	--	--	--	--	--	--

See last page for footnotes.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

CONSTITUENT	SITE	FPM-19D1	FPM-19D1	FPM-19Z1	FPM-19Z1	FPM-19Z1	FPM-19Z2
	SAMPLE ID	FPM-19D1	FPM-19D1	FPM-19Z1	FPM-19Z1	FPM-19Z1	FPM-19Z2
	DATE	12/17/2001	12/17/2001	12/17/2001	12/17/2001	12/17/2001	12/17/2001
	DEPTH (FEET BLS)	2-3	3-4	1-2	2-3	3-4	1-2
<u>Closure Performance Standard (A)</u>							
<u>SVOCs continued</u>							
Fluorene	50000	--	--	--	--	--	--
p-Nitroaniline	NA	--	--	--	--	--	--
4,6-Dinitro-o-cresol	NA	--	--	--	--	--	--
N-Nitrosodiphenylamine	NA	--	--	--	--	--	--
4-Bromofluorobenzene	NA	--	--	--	--	--	--
Hexachlorobenzene	1230	--	--	--	--	--	--
Pentachlorophenol	3000	--	--	--	--	--	--
Phenanthrene	50000	--	--	--	--	--	--
Anthracene	50000	--	--	--	--	--	--
Carbazole	NA	--	--	--	--	--	--
Di-n-butyl phthalate	24300	--	--	--	--	--	--
Fluoranthene	50000	--	--	--	--	--	--
Pyrene	50000	--	--	--	--	--	--
Butyl benzyl phthalate	50000	--	--	--	--	--	--
3,3-Dichlorobenzidine	672	--	--	--	--	--	--
Benzo(a)anthracene	8280	--	--	--	--	--	--
Chrysene	1200	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate (BEHP)	50000	--	--	--	--	--	--
Di-n-octyl phthalate	50000	--	--	--	--	--	--
Benzo(b)fluoranthene	3300	--	--	--	--	--	--
Benzo(k)fluoranthene	3300	--	--	--	--	--	--
Benzo(a)pyrene (B)	MDL	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	9600	--	--	--	--	--	--
Dibenzo(a,h)anthracene	42	--	--	--	--	--	--
Benzo(ghi)perylene	50000	--	--	--	--	--	--
<u>Volatile Organic Compounds (VOCs)</u>							
<u>in ug/kg</u>							
Chloromethane	NA	--	--	--	--	--	--
Bromomethane	4950	--	--	--	--	--	--
Vinyl chloride	342	--	--	--	--	--	--
Chloroethane	5550	--	--	--	--	--	--
Methylene chloride	300	--	--	--	--	--	--
Acetone	330	--	--	--	--	--	--
Carbon disulfide	8100	--	--	--	--	--	--
Vinyl Acetate	NA	--	--	--	--	--	--
1,1-Dichloroethylene	975	--	--	--	--	--	--
1,1-Dichloroethane	450	--	--	--	--	--	--
cis-1,2-Dichloroethene	NA	--	--	--	--	--	--
trans-1,2-Dichloroethene	885	--	--	--	--	--	--
1,2-Dichloroethane	210	--	--	--	--	--	--
Chloroform	NA	--	--	--	--	--	--

See footnotes on last page.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

CONSTITUENT	DEPTH (FEET BLS)	SITE	FPM-19D1	FPM-19D1	FPM-19Z1	FPM-19Z1	FPM-19Z1	FPM-19Z2
		SAMPLE ID	FPM-19D1	FPM-19D1	FPM-19Z1	FPM-19Z1	FPM-19Z1	FPM-19Z2
		DATE	12/17/2001	12/17/2001	12/17/2001	12/17/2001	12/17/2001	12/17/2001
			2-3	3-4	1-2	2-3	3-4	1-2
<u>Closure Performance Standard (A)</u>								
<u>VOCs continued</u>								
Trichloroethene	1890	--	--	--	--	--	--	--
2-Butanone	NA	--	--	--	--	--	--	--
1,1,1-Trichloroethane	2280	--	--	--	--	--	--	--
Carbon tetrachloride	1650	--	--	--	--	--	--	--
Bromodichloromethane	NA	--	--	--	--	--	--	--
1,2-Dichloropropane	NA	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	NA	--	--	--	--	--	--	--
Dibromochloromethane	NA	--	--	--	--	--	--	--
1,1,2-Trichloroethane	NA	--	--	--	--	--	--	--
Benzene	174	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	NA	--	--	--	--	--	--	--
Bromoform	NA	--	--	--	--	--	--	--
4-Methyl-2-pentanone	2850	--	--	--	--	--	--	--
2-Hexanone	NA	--	--	--	--	--	--	--
Tetrachloroethene	4155	--	--	--	--	--	--	--
Toluene	4500	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	1770	--	--	--	--	--	--	--
Chlorobenzene	4950	--	--	--	--	--	--	--
Ethylbenzene	10000	--	--	--	--	--	--	--
Styrene	NA	--	--	--	--	--	--	--
Xylene (total)	3600	--	--	--	--	--	--	--
<u>METALS in mg/kg</u>								
Antimony	NA	--	--	--	--	--	--	--
Arsenic	12	--	--	--	--	--	--	--
Beryllium	1.75	--	--	--	--	--	--	--
Cadmium	10	--	--	--	--	--	--	--
Chromium	50	--	--	--	--	--	--	--
Copper	50	--	--	--	--	--	--	--
Lead	500	--	--	--	--	--	--	--
Mercury	0.2	<.006	<.005	0.01	0.01	0.05	0.2	
Nickel	28.5	--	--	--	--	--	--	--
Selenium	3.9	--	--	--	--	--	--	--
Silver	NA	--	--	--	--	--	--	--
Thallium	NA	--	--	--	--	--	--	--
Zinc	55.7	14.7	10.6	31.3	49.8	23.4	16.5	

See footnotes on last page.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

CONSTITUENT	SITE	FPM-19Z2	FPM-19Z2	FPM-19Z3	FPM-19Z3	FPM-19Z3	FPM-19Z4
	SAMPLE ID	FPM-19Z2	FPM-19Z2	FPM-19Z3	FPM-19Z3	FPM-19Z3	FPM-19Z4
	DATE	12/17/2001	12/17/2001	12/17/2001	12/17/2001	12/17/2001	12/17/2001
	DEPTH (FEET BLS)	2-3	3-4	1-2	2-3	3-4	1-2
<u>Closure</u>							
<u>Performance</u>							
<u>Standard (A)</u>							
Semi-Volatile Organic							
Compounds (SVOCs) in ug/kg							
Phenol	330	--	--	--	--	--	--
Bis(2-chloroethyl)ether	NA	--	--	--	--	--	--
2-Chlorophenol	2250	--	--	--	--	--	--
m-Dichlorobenzene	4650	--	--	--	--	--	--
p-Dichlorobenzene	25500	--	--	--	--	--	--
Benzyl alcohol	NA	--	--	--	--	--	--
o-Dichlorobenzene	23970	--	--	--	--	--	--
o-Cresol	NA	--	--	--	--	--	--
Bis(2-chloro-1-methylethyl) ether	NA	--	--	--	--	--	--
p-Cresol	2550	--	--	--	--	--	--
N-Nitrosodipropylamine	NA	--	--	--	--	--	--
Hexachloroethane	NA	--	--	--	--	--	--
Nitrobenzene	600	--	--	--	--	--	--
Isophorone	13200	--	--	--	--	--	--
o-Nitrophenol	975	--	--	--	--	--	--
2,4-Dimethylphenol	NA	--	--	--	--	--	--
Benzoic acid	8100	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	NA	--	--	--	--	--	--
2,4-Dichlorophenol	1140	--	--	--	--	--	--
1,2,4-Trichlorobenzene	10050	--	--	--	--	--	--
Naphthalene	39000	--	--	--	--	--	--
p-Chloroaniline	NA	--	--	--	--	--	--
Hexachlorobutadiene	NA	--	--	--	--	--	--
p-Chloro-m-cresol	NA	--	--	--	--	--	--
2-Methylnaphthalene	50000	--	--	--	--	--	--
Hexachlorocyclopentadiene	NA	--	--	--	--	--	--
2,4,6-Trichlorophenol	NA	--	--	--	--	--	--
2,4,5-Trichlorophenol	300	--	--	--	--	--	--
2-Chloronaphthalene	NA	--	--	--	--	--	--
o-Nitroaniline	1290	--	--	--	--	--	--
Dimethyl phthalate	NA	--	--	--	--	--	--
Acenaphthylene	50000	--	--	--	--	--	--
2,6-Dinitrotoluene	3000	--	--	--	--	--	--
m-Nitroaniline	1500	--	--	--	--	--	--
Acenaphthene	50000	--	--	--	--	--	--
2,4-Dinitrophenol	600	--	--	--	--	--	--
p-Nitrophenol	315	--	--	--	--	--	--
Dibenzofuran	18600	--	--	--	--	--	--
2,4-Dinitrotoluene	NA	--	--	--	--	--	--
Diethyl phthalate	21300	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	NA	--	--	--	--	--	--

See last page for footnotes.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

CONSTITUENT	SITE	FPM-19Z2	FPM-19Z2	FPM-19Z3	FPM-19Z3	FPM-19Z3	FPM-19Z4
	SAMPLE ID	FPM-19Z2	FPM-19Z2	FPM-19Z3	FPM-19Z3	FPM-19Z3	FPM-19Z4
	DATE	12/17/2001	12/17/2001	12/17/2001	12/17/2001	12/17/2001	12/17/2001
DEPTH (FEET BLS)		2-3	3-4	1-2	2-3	3-4	1-2
<u>Closure Performance Standard (A)</u>							
SVOCs continued							
Fluorene	50000	--	--	--	--	--	--
p-Nitroaniline	NA	--	--	--	--	--	--
4,6-Dinitro-o-cresol	NA	--	--	--	--	--	--
N-Nitrosodiphenylamine	NA	--	--	--	--	--	--
4-Bromofluorobenzene	NA	--	--	--	--	--	--
Hexachlorobenzene	1230	--	--	--	--	--	--
Pentachlorophenol	3000	--	--	--	--	--	--
Phenanthrene	50000	--	--	--	--	--	--
Anthracene	50000	--	--	--	--	--	--
Carbazole	NA	--	--	--	--	--	--
Di-n-butyl phthalate	24300	--	--	--	--	--	--
Fluoranthene	50000	--	--	--	--	--	--
Pyrene	50000	--	--	--	--	--	--
Butyl benzyl phthalate	50000	--	--	--	--	--	--
3,3-Dichlorobenzidine	672	--	--	--	--	--	--
Benzo(a)anthracene	8280	--	--	--	--	--	--
Chrysene	1200	--	--	--	--	--	--
Bis(2-ethylhexyl)phthalate (BEHP)	50000	--	--	--	--	--	--
Di-n-octyl phthalate	50000	--	--	--	--	--	--
Benzo(b)fluoranthene	3300	--	--	--	--	--	--
Benzo(k)fluoranthene	3300	--	--	--	--	--	--
Benzo(a)pyrene (B)	MDL	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	9600	--	--	--	--	--	--
Dibenzo(a,h)anthracene	42	--	--	--	--	--	--
Benzo(ghi)perylene	50000	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)							
in ug/kg							
Chloromethane	NA	--	--	--	--	--	--
Bromomethane	4950	--	--	--	--	--	--
Vinyl chloride	342	--	--	--	--	--	--
Chloroethane	5550	--	--	--	--	--	--
Methylene chloride	300	--	--	--	--	--	--
Acetone	330	--	--	--	--	--	--
Carbon disulfide	8100	--	--	--	--	--	--
Vinyl Acetate	NA	--	--	--	--	--	--
1,1-Dichloroethylene	975	--	--	--	--	--	--
1,1-Dichloroethane	450	--	--	--	--	--	--
cis-1,2-Dichloroethene	NA	--	--	--	--	--	--
trans-1,2-Dichloroethene	885	--	--	--	--	--	--
1,2-Dichloroethane	210	--	--	--	--	--	--
Chloroform	NA	--	--	--	--	--	--

See footnotes on last page.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

CONSTITUENT	SITE	FPM-19Z2	FPM-19Z2	FPM-19Z3	FPM-19Z3	FPM-19Z3	FPM-19Z4
	SAMPLE ID	FPM-19Z2	FPM-19Z2	FPM-19Z3	FPM-19Z3	FPM-19Z3	FPM-19Z4
	DATE	12/17/2001	12/17/2001	12/17/2001	12/17/2001	12/17/2001	12/17/2001
	DEPTH (FEET BLS)	2-3	3-4	1-2	2-3	3-4	1-2
<u>Closure Performance Standard (A)</u>							
<u>VOCs continued</u>							
Trichloroethene	1890	--	--	--	--	--	--
2-Butanone	NA	--	--	--	--	--	--
1,1,1-Trichloroethane	2280	--	--	--	--	--	--
Carbon tetrachloride	1650	--	--	--	--	--	--
Bromodichloromethane	NA	--	--	--	--	--	--
1,2-Dichloropropane	NA	--	--	--	--	--	--
cis-1,3-Dichloropropene	NA	--	--	--	--	--	--
Dibromochloromethane	NA	--	--	--	--	--	--
1,1,2-Trichloroethane	NA	--	--	--	--	--	--
Benzene	174	--	--	--	--	--	--
trans-1,3-Dichloropropene	NA	--	--	--	--	--	--
Bromoform	NA	--	--	--	--	--	--
4-Methyl-2-pentanone	2850	--	--	--	--	--	--
2-Hexanone	NA	--	--	--	--	--	--
Tetrachloroethene	4155	--	--	--	--	--	--
Toluene	4500	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	1770	--	--	--	--	--	--
Chlorobenzene	4950	--	--	--	--	--	--
Ethylbenzene	10000	--	--	--	--	--	--
Styrene	NA	--	--	--	--	--	--
Xylene (total)	3600	--	--	--	--	--	--
<u>METALS in mg/kg</u>							
Antimony	NA	--	--	--	--	--	--
Arsenic	12	--	--	--	--	--	--
Beryllium	1.75	--	--	--	--	--	--
Cadmium	10	--	--	--	--	--	--
Chromium	50	--	--	--	--	--	--
Copper	50	--	--	--	--	--	--
Lead	500	--	--	--	--	--	--
Mercury	0.2	0.01	0.02	0.3	0.01	0.01	0.3
Nickel	28.5	--	--	--	--	--	--
Selenium	3.9	--	--	--	--	--	--
Silver	NA	--	--	--	--	--	--
Thallium	NA	--	--	--	--	--	--
Zinc	55.7	28.4	16.8	107.0	13.7	10.3	39.2

See footnotes on last page.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

	SITE	FPM-19Z4
	SAMPLE ID	FPM-19Z4
CONSTITUENT	DATE	12/17/2001
	DEPTH (FEET BLS)	2-3

	<u>Closure</u>	
	<u>Performance</u>	
	<u>Standard (A)</u>	
<u>Semi-Volatile Organic</u>		
<u>Compounds (SVOCs) in ug/kg</u>		
Phenol	330	--
Bis(2-chloroethyl)ether	NA	--
2-Chlorophenol	2250	--
m-Dichlorobenzene	4650	--
p-Dichlorobenzene	25500	--
Benzyl alcohol	NA	--
o-Dichlorobenzene	23970	--
o-Cresol	NA	--
Bis(2-chloro-1-methylethyl) ether	NA	--
p-Cresol	2550	--
N-Nitrosodipropylamine	NA	--
Hexachloroethane	NA	--
Nitrobenzene	600	--
Isophorone	13200	--
o-Nitrophenol	975	--
2,4-Dimethylphenol	NA	--
Benzoic acid	8100	--
Bis(2-chloroethoxy)methane	NA	--
2,4-Dichlorophenol	1140	--
1,2,4-Trichlorobenzene	10050	--
Naphthalene	39000	--
p-Chloroaniline	NA	--
Hexachlorobutadiene	NA	--
p-Chloro-m-cresol	NA	--
2-Methylnaphthalene	50000	--
Hexachlorocyclopentadiene	NA	--
2,4,6-Trichlorophenol	NA	--
2,4,5-Trichlorophenol	300	--
2-Chloronaphthalene	NA	--
o-Nitroaniline	1290	--
Dimethyl phthalate	NA	--
Acenaphthylene	50000	--
2,6-Dinitrotoluene	3000	--
m-Nitroaniline	1500	--
Acenaphthene	50000	--
2,4-Dinitrophenol	600	--
p-Nitrophenol	315	--
Dibenzofuran	18600	--
2,4-Dinitrotoluene	NA	--
Diethyl phthalate	21300	--
4-Chlorophenyl phenyl ether	NA	--

See last page for footnotes.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

	SITE	FPM-19Z4
	SAMPLE ID	FPM-19Z4
CONSTITUENT	DATE	12/17/2001
	DEPTH (FEET BLS)	2-3

	<u>Closure</u>	
	<u>Performance</u>	
	<u>Standard (A)</u>	
<u>SVOCs continued</u>		
Fluorene	50000	--
p-Nitroaniline	NA	--
4,6-Dinitro-o-cresol	NA	--
N-Nitrosodiphenylamine	NA	--
4-Bromofluorobenzene	NA	--
Hexachlorobenzene	1230	--
Pentachlorophenol	3000	--
Phenanthrene	50000	--
Anthracene	50000	--
Carbazole	NA	--
Di-n-butyl phthalate	24300	--
Fluoranthene	50000	--
Pyrene	50000	--
Butyl benzyl phthalate	50000	--
3,3-Dichlorobenzidine	672	--
Benzo(a)anthracene	8280	--
Chrysene	1200	--
Bis(2-ethylhexyl)phthalate (BEHP)	50000	--
Di-n-octyl phthalate	50000	--
Benzo(b)fluoranthene	3300	--
Benzo(k)fluoranthene	3300	--
Benzo(a)pyrene (B)	MDL	--
Indeno(1,2,3-cd)pyrene	9600	--
Dibenzo(a,h)anthracene	42	--
Benzo(ghi)perylene	50000	--

Volatile Organic Compounds (VOCs)

<u>in ug/kg</u>		
Chloromethane	NA	--
Bromomethane	4950	--
Vinyl chloride	342	--
Chloroethane	5550	--
Methylene chloride	300	--
Acetone	330	--
Carbon disulfide	8100	--
Vinyl Acetate	NA	--
1,1-Dichloroethylene	975	--
1,1-Dichloroethane	450	--
cis-1,2-Dichloroethene	NA	--
trans-1,2-Dichloroethene	885	--
1,2-Dichloroethane	210	--
Chloroform	NA	--

See footnotes on last page.

Table 9. Soil Sample Results for AOPC Area FMP19 at the Former Unisys Facility, Great Neck, New York, April, July, September and December 2001 Sampling Round.

CONSTITUENT	SITE	FPM-19Z4
	SAMPLE ID	FPM-19Z4
	DATE	12/17/2001
	DEPTH (FEET BLS)	2-3
	<u>Closure</u>	
	<u>Performance</u>	
	<u>Standard (A)</u>	
<u>VOCs continued</u>		
Trichloroethene	1890	--
2-Butanone	NA	--
1,1,1-Trichloroethane	2280	--
Carbon tetrachloride	1650	--
Bromodichloromethane	NA	--
1,2-Dichloropropane	NA	--
cis-1,3-Dichloropropene	NA	--
Dibromochloromethane	NA	--
1,1,2-Trichloroethane	NA	--
Benzene	174	--
trans-1,3-Dichloropropene	NA	--
Bromoform	NA	--
4-Methyl-2-pentanone	2850	--
2-Hexanone	NA	--
Tetrachloroethene	4155	--
Toluene	4500	--
1,1,2,2-Tetrachloroethane	1770	--
Chlorobenzene	4950	--
Ethylbenzene	10000	--
Styrene	NA	--
Xylene (total)	3600	--
<u>METALS in mg/kg</u>		
Antimony	NA	--
Arsenic	12	--
Beryllium	1.75	--
Cadmium	10	--
Chromium	50	--
Copper	50	--
Lead	500	--
Mercury	0.2	0.01
Nickel	28.5	--
Selenium	3.9	--
Silver	NA	--
Thallium	NA	--
Zinc	55.7	11.6

See footnotes on last page.

Exceedances above the Closure Performance Standard (CPS) are shown in **bold**.

ug/kg Micrograms per kilograms.

mg/kg Milligrams per kilograms.

J Estimated value.

B Detected in associated blank for organics.

B Between instrument detection limit and contract required detection limit for inorganics.

BLS Below land surface.

NA Not applicable.

ND Not detected.

— Not analyzed.

MDL Method detection limit.

(A) Closure Performance Standards for organic compounds are based on NYSDEC-Recommended Soil Cleanup Objectives using a organic fraction in soil of 3%, Closure Performance Standards for inorganics are the highest of either site specific background levels, Eastern U.S. Background levels, or NYSDEC-recommended soil clean-up objectives from TAGM 94-4046.

NYSDEC New York State Department of Environmental Conservation.

Table 10. Demonstration Study Sample Results, Former Unisys Facility, Great Neck, New York.

AREA 9 CONTAMINANTS OF CONCERN:	Standard* (ug/l)	1 gal/ft ² sample (ug/l)
<u>SVOCs</u>		
Benzo(a)pyrene	U	U
Carbazole	--*	U
Dibenz(a,h)anthracene	--*	U
<u>Metals</u>		
Antimony	3	U
Cadmium	5	U
Chromium	50	U
Mercury	0.7	U
Nickel	100	U
Cyanide, total	200	U

Footnotes:

- * New York State Ambient Water Quality Standards
- U Nondetect
- * Substances not regulated by the principal organic contaminant (POC) groundwater standard
- ug/l Micrograms per liter
- gal/ft² Gallon per foot squared.

Table 11. Soil Sample Results for Area 7, Former Unisys Facility, Great Neck, New York.

Parameters	SITE	Area 7	Area 7
	SAMPLE ID	VAR SOL (0-1)	VAR SOL (1-2)
	DATE	2/12/2002	2/12/2002
	DEPTH (FEET BLS)	0-1	1-2
<u>Closure</u>			
<u>Performance</u>			
<u>Standard (A)</u>			
<u>Volatile Organic Compounds (VOCs)</u>			
<u>in ug/kg</u>			
1,1-Dichloroethene	975	<5	<5
Methylene chloride	300	<10	<9
1,1,1-Trichloroethane	2280	<5	<5
1,2-Dichloroethene (total)	885	<5	<5
Benzene	174	<5	<5
Trichloroethene	1890	<5	<5
Toluene	4500	2 J	<5
Tetrachloroethene	4155	<5	<5
Chlorobenzene	4950	<5	<5
Ethylbenzene	10000	<5	<5
Xylenes	3600	<5	<5
sec-Butylbenzene	NA	<5	<5
Chloromethane	--	--	--
Vinyl chloride	--	--	--
Bromomethane	--	--	--
Chloroethane	--	--	--
Carbon disulfide	--	--	--
Acetone	--	--	--
2-Butanone (MEK)	--	--	--
Chloroform	--	--	--
Carbon tetrachloride	--	--	--
1,2-Dichloroethane	--	--	--
1,2-Dichloropropane	--	--	--
Bromodichloromethane	--	--	--
cis-1,3-Dichloropropene	--	--	--
4-Methyl-2-pentanone (MIB)	--	--	--
2-Hexanone	--	--	--
Dibromochloromethane	--	--	--
Styrene	--	--	--
Bromoform	--	--	--
1,1,1,2-Tetrachloroethane	--	--	--
<u>METALS in mg/kg</u>			
Aluminum	33000	5780	5040
Antimony	NA	<9.9 J	<7.2 J
Arsenic	12	3.9 B	3.6 B
Barium	600	45.8	45.2
Beryllium	1.75	<1.7	<1.2
Cadmium	10	<2.5	0.76 B
Chromium	50	24	23.8 J

Footnotes on lat page.

Table 11. Soil Sample Results for Area 7 , Former Unisys Facility, Great Neck, New York.

Parameters	SITE	Area 7	Area 7
	SAMPLE ID	VAR SOL (0-1)	VAR SOL (1-2)
	DATE	2/12/2002	2/12/2002
	DEPTH (FEET BLS)	0-1	1-2
	<u>Closure</u>		
	<u>Performance</u>		
	<u>Standard (A)</u>		
Copper	50	79.8	63
Cobalt	60	5 J	5
Lead	500	36.6 J	63.3 J
Magnesium	5000	2160	1610
Manganese	5000	242	278
Mercury	0.2	0.76 B	0.26 B
Nickel	28.5	24.3	23.2
Selenium	3.9	<13.5	<9.9
Silver	5	<2.5	0.19 B
Thallium	NA	<18.6	<13.6
Vanadium	300	14.1	12.3
Zinc	55.7	180	70.7
Cyanide in ug/kg	ND	<511 J	106 BJ

Exceedances above the Closure Performance Standard (CPS) are shown in **bold**.

ug/kg Micrograms per kilogram.

mg/kg Milligrams per kilogram.

BLS Below land surface.

J Estimated value.

B Detected between the instrument detection limit and contract required detection limit.

NA Not Available

(A) Closure Performance Standards for organic compounds are based on NYSDEC-recommended Soil Cleanup Objectives using a organic fraction in soil of 3%, Closure Performance Standards for inorganics are the highest of either site specific background levels, Eastern U.S. background levels or NYSDEC-recommended soil clean-up objectives from TAGM 94-4046.

NYSDEC New York State Department of Environmental Conservation.

Table 12. Sample Results for Area 17 Sump A Bottom, Sump B and Pipe Terminus, Former Unisys Facility, Great Neck, New York.

CONSTITUENT	Site ID: Sample ID: Sample Date:	Area 17 Sump A Area 17 Sump ^(b) 1/4/2002	Area 17 Sump A Area 17 Sump-INF Pipe ^(c) 1/4/2002	Area 17 Sump A SVE DEEP 2/12/2002	Area 17 Sump B SVE SHALLOW 2/12/2002
<u>Closure</u>					
<u>Performance</u>					
<u>Standard (A)</u>					
<u>Volatile Organic Compounds (VOCs)</u>					
<u>in ug/kg</u>					
Chloromethane	NA	<8	<4900	--	--
Vinyl chloride	342	<8	<4900	--	--
Bromomethane	4950	<8	<4900 J	--	--
Chloroethane	5550	<8	<4900	--	--
1,1-Dichloroethene	975	<8	<4900	<11	<5
Carbon disulfide	8100	<8	<4900	--	--
Acetone	330	<16 J	<12000	--	--
Methylene chloride	300	<8	<4900	<18	<9
1,1-Dichloroethane	450	<8	<4900 J	--	--
2-Butanone (MEK)	NA	<16 J	<4900	--	--
Chloroform	NA	<8	<4900	--	--
1,1,1-Trichloroethane	2280	<8	<4900	<11	<5
Carbon tetrachloride	1650	<8	<4900	--	--
1,2-Dichloroethene (total)	NA	5 J	2500 J	7J	<5
Benzene	174	3 J	<4900	<11	<5
1,2-Dichloroethane	210	<8	<4900	--	--
Trichloroethene	1890	32 J	20,000	57	2J
1,2-Dichloropropane	NA	<8	<4900	--	--
Bromodichloromethane	NA	<8	<4900	--	--
cis-1,3-Dichloropropene	NA	R	R	--	--
4-Methyl-2-pentanone (MIBK)	2850	<16 J	<4900	--	--
Toluene	4500	31 J	64,000	23	1J
trans-1,3-Dichloropropene	NA	<8	<4900	--	--
1,1,2-Trichloroethane	NA	<8	<4900	--	--
Tetrachloroethene	4155	130 J	110000 J	100	10
2-Hexanone	NA	<16 J	<4900 J	--	--
Dibromochloromethane	NA	<8	<4900	--	--
Chlorobenzene	4950	<8	<4900	<11	<5
Ethylbenzene	10000	5 J	15000	1J	<5
Styrene	NA	<8	<4900	--	--
Bromoform	NA	<8	<4900	--	--
1,1,2,2-Tetrachloroethane	1770	<8	<4900	--	--
Xylenes	3600	15 J	84000	7J	2J
sec-Butylbenzene	NA	--	--	<11J	<5
<u>Semi-Volatile Organic</u>					
<u>Compounds (SVOCs) in ug/kg</u>					
Phenol	330	<20000	<26000	--	--
Bis(2-chloroethyl)ether	NA	<20000	<26000	--	--
1,3-Dichlorobenzene	4650	<20000	18000 J	--	--
1,4-Dichlorobenzene	25500	<20000	16000 J	--	--
1,2-Dichlorobenzene	23970	<20000	17000 J	--	--
Benzyl alcohol	NA	<20000	<26000	--	--
o-cresol	NA	<20000	1600 J	--	--
1,2-oxbis (1-chloropropane)	NA	<20000	<26000	--	--
n-Nitroso-di-n-propylamine	NA	<20000	<26000	--	--
Hexachloroethane	NA	<20000	<26000	--	--

Table 12. Sample Results for Area 17 Sump A Bottom, Sump B and Pipe Terminus, Former Unisys Facility, Great Neck, New York.

CONSTITUENT	Site ID: Sample ID: Sample Date:	Area 17 Sump A Area 17 Sump ^(b) 1/4/2002	Area 17 Sump A Area 17 Sump-INF Pipe ^(c) 1/4/2002	Area 17 Sump A SVE DEEP 2/12/2002	Area 17 Sump B SVE SHALLOW 2/12/2002
	<u>Closure</u>				
	<u>Performance</u>				
	<u>Standard (A)</u>				
See footnotes on last page.					
<u>SVOCs continued</u>					
4-Methylphenol	2550	<20000	2100 J	--	--
2-Chlorophenol	2250	<20000	<26000	--	--
Nitrobenzene	600	<20000	<26000	--	--
Bis(2-chloroethoxy)methane	NA	<20000	<26000	--	--
1,2,4-Trichlorobenzene	10050	<20000	<26000	--	--
Benzoic acid	8100	<99000	<130000	--	--
Isophorone	13200	<20000	<26000	--	--
2,4-Dimethylphenol	NA	<20000	<26000	--	--
Hexachlorobutadiene	NA	<20000	<26000	--	--
Naphthalene	39000	<20000	10000 J	--	--
2,4-Dichlorophenol	1140	<20000	<26000	--	--
4-Chloroaniline	NA	<20000	<26000	--	--
2,4,6-Trichlorophenol	NA	<20000	<26000	--	--
2,4,5-Trichlorophenol	300	<99000	<130000	--	--
Hexachlorocyclopentadiene	NA	<20000 J	<26000	--	--
1-Methylnaphthalene	50000	1900 J	9100 J	--	--
2-Nitroaniline	1290	<99000	<130000	--	--
2-Chloronaphthalene	NA	<20000	<26000	--	--
4-Chloro-3-methylphenol	NA	<20000	<26000	--	--
2,6-Dinitrotoluene	3000	<20000	<26000	--	--
2-Nitrophenol	975	<20000	<26000	--	--
3-Nitroaniline	1500	<99000	<130000	--	--
Dimethyl phthalate	NA	<20000	<26000	--	--
2,4-Dinitrophenol	600	R	R	--	--
Acenaphthylene	50000	<20000	<26000	--	--
2,4-Dinitrotoluene	NA	<20000	<26000	--	--
Acenaphthene	50000	<20000	<26000	--	--
Dibenzofuran	18600	<20000	<26000	--	--
4-Nitrophenol	315	<99000	<130000	--	--
Fluorene	50000	<20000	<26000	--	--
4-Nitroaniline	NA	<41000	<53000	--	--
4-Bromophenyl phenyl ether	NA	<20000	<26000	--	--
Hexachlorobenzene	1230	<20000	<26000	--	--
Diethyl phthalate	21300	<20000	<26000	--	--
4-Chlorophenyl phenyl ether	NA	<20000	<26000	--	--
Pentachlorophenol	3000	19000 J	<130000	--	--
n-Nitrosodiphenylamine	NA	<20000	<26000	--	--
4,6-Dinitro-2-methylphenol	NA	R	R	--	--
Phenanthrene	50000	13000 J	14000 J	--	--
Anthracene	50000	<20000	<26000	--	--
Carbazole	NA	<20000	<26000	--	--
Di-n-butyl phthalate	24300	1600 J	<26000	--	--
Fluoranthene	50000	<20000	<26000	--	--
Indene	50000	4000	1600 J	--	--
Butyl benzyl phthalate	50000	<20000	<26000	--	--
Benzo(a)anthracene	8280	<20000	<26000	--	--
Chrysene	1200	1800	<26000	--	--

Table 12. Sample Results for Area 17 Sump A Bottom, Sump B and Pipe Terminus, Former Unisys Facility, Great Neck, New York.

CONSTITUENT	Site ID: Sample ID: Sample Date:	Area 17 Sump A Area 17 Sump ^(b)	Area 17 Sump A Area 17 Sump-INF Pipe ^(c)	Area 17 Sump A SVE DEEP	Area 17 Sump B SVE SHALLOW
		1/4/2002	1/4/2002	2/12/2002	2/12/2002
	<u>Closure</u> <u>Performance</u> <u>Standard (A)</u>				
See footnotes on last page.					
<u>SVOCs continued</u>					
3,3-Dichlorobenzidine	672	<41000	<53000	--	--
Bis(2-ethylhexyl)phthalate	50000	16000 J	38000	--	--
Di-n-octyl phthalate	50000	<20000	<26000	--	--
Benzo(b)fluoranthene	3300	<20000	<26000	--	--
Benzo(k)fluoranthene	3300	<20000	<26000	--	--
Benzo(a)pyrene	MDL	<20000	<26000	--	--
Indeno(1,2,3-cd)pyrene	9600	<20000	<26000	--	--
Dibenzo(a,h)anthracene	42	<20000	<26000	--	--
Benzo(ghi)perylene	50000	<20000	<26000	--	--
<u>METALS in mg/kg</u>					
Aluminum	33000	50200	2830	6750	6380
Antimony	NA	18.6 J	11.5 J	<9.9J	<10.8J
Arsenic	12	17.0	13.0	4.5B	10
Barium	600	904	262	26.9	58.3
Beryllium	1.75	6.3	0.58	0.75B	<1.9
Cadmium	10	11.1 J	7.6 J	<2.5	1.1B
Chromium	50	4930	595	31.2J	188J
Copper	50	19600	1780	353	278
Cobalt	--	--	--	10.6	8.6
Iron	NA	123000	59500	--	--
Lead	500	5780	714	388J	152J
Magnesium	5000	1510 J	293 J	1350	1830
Manganese	5000	491 J	1180 J	113	262
Mercury	0.2	434	35.8	1.3B	0.18B
Nickel	28.5	3210	297	60.4	115
Selenium	3.9	18.8 J	5.9 J	<13.6	<14.8
Silver	5	221 J	21.4 J	1.3B	<2.8
Thallium	NA	0.18 J	2.4 J	<18.7	<20.4
Vanadium	300	68.9	22.8	16.6	14.7
Zinc	55.7	4030	875	439	304
Cyanide in ug/kg	ND	1.12	0.418 B	<542J	<531J

Exceedances above the Closure Performance Standard (CPS) are shown in bold.

ug/kg Micrograms per kilogram.

mg/kg Milligrams per kilograms.

BLS Below land surface.

J Estimated value.

R Unusable value.

B Between instrument detection limit and contract required detection limit for inorganics.

NA Not applicable.

(A) Closure Performance Standards for organic compounds are based on NYSDEC-recommended Soil Cleanup Objectives using a organic fraction in soil of 3%, Closure Performance Standards for inorganics are the highest of either site specific background levels, Eastern U.S. Background levels or NYSDEC-recommended soil clean-up objectives from TAGM 94-4046.

(b) Sample was collected from the 0 - 1 foot interval in the soil bottom of Sump A in Area 17.

(c) Sample was collected from the pipe terminus with a dark residual fluid inside Sump A in Area 17.

NYSDEC New York State Department of Environmental Conservation.

Table 13 Summary of Closure of Exterior and Interior Areas

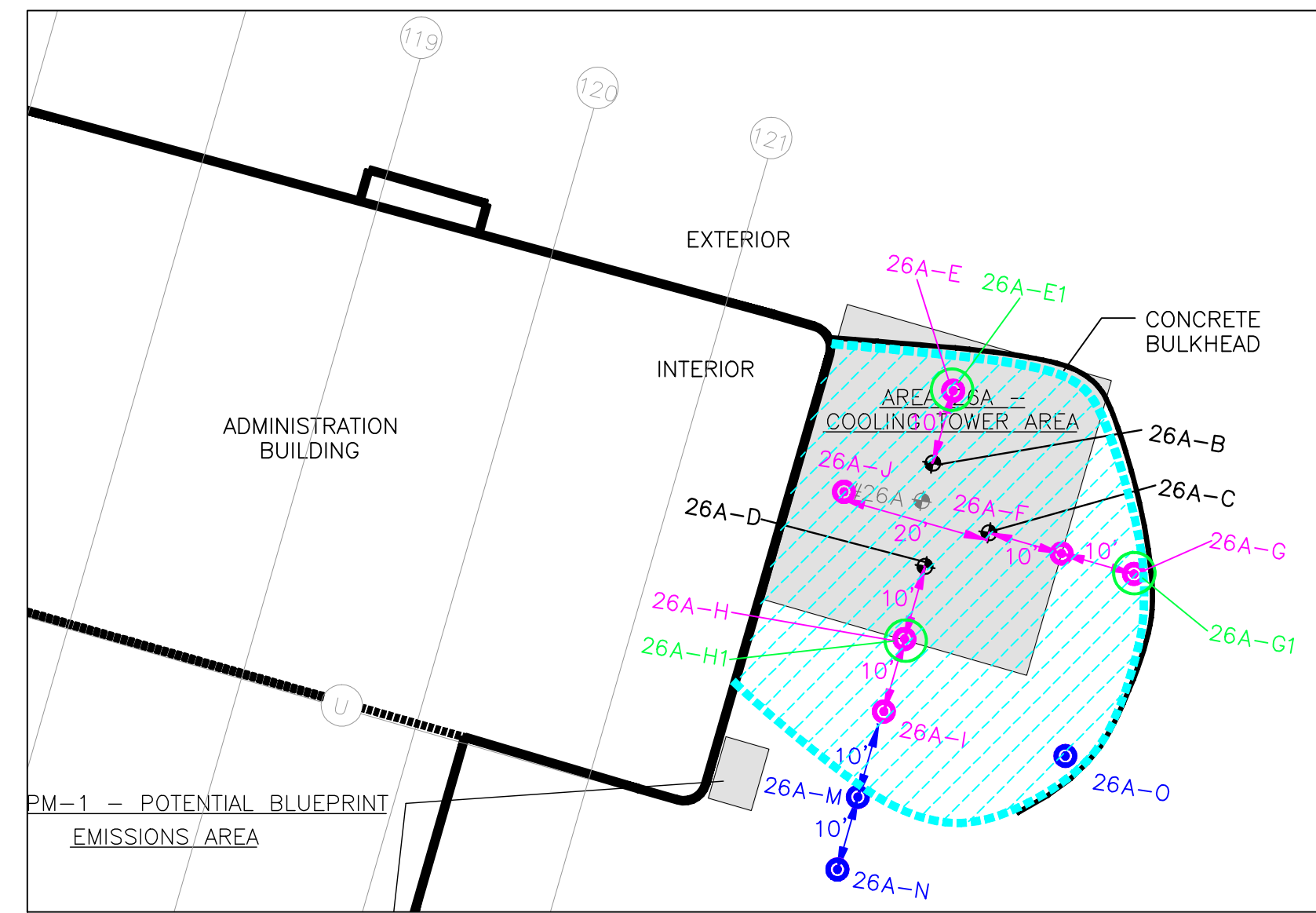
AOPC	Closure Activity	Closure Status
Exterior Areas		
24, 26D, and FPM-1	No COCs identified.	Certified closed
15, 26A, 26B, FPM-8, and FPM-19	Soils impacted with COCs above CPS excavated and disposed off-site. Confirmed clean with end point sampling	Certified closed
21	Soils impacted with COCs above CPS excavated upto 5 feet depth and disposed off-site. Concrete cap installed at approximately 5 feet depth. Low concentration of metals above CPS, remain under the concrete cap at approximately 10-15 feet depth.	Deferred closure. AUL implemented
Interior Areas		
2, 28, and 30	Decontaminated the areas. Confirmed clean with sampling.	Certified closed
1, 7, 8, 9, 11, 13, 17, and 31	Decontaminated the areas. Further investigation under the concrete floor deferred.	Deferred closure. AUL implemented.

Notes:

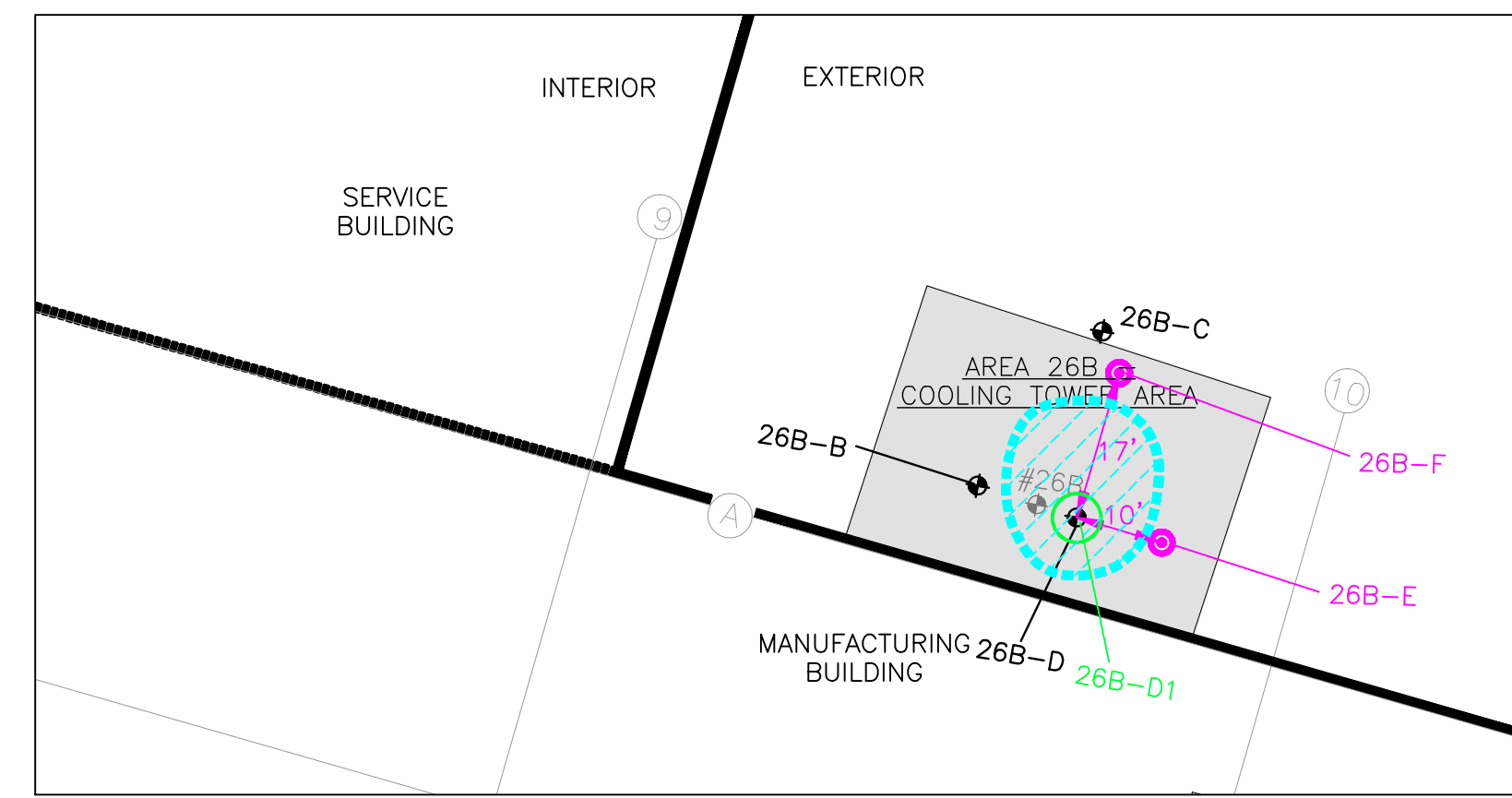
AOPC – Areas of Potential Concern
 COC – Contaminants of Concern
 CPA – Closure Performance Standards per NYSDEC
 AUL – Activity and Use Limitation

Table 14. Summary of Waste Disposal from Closure Areas.

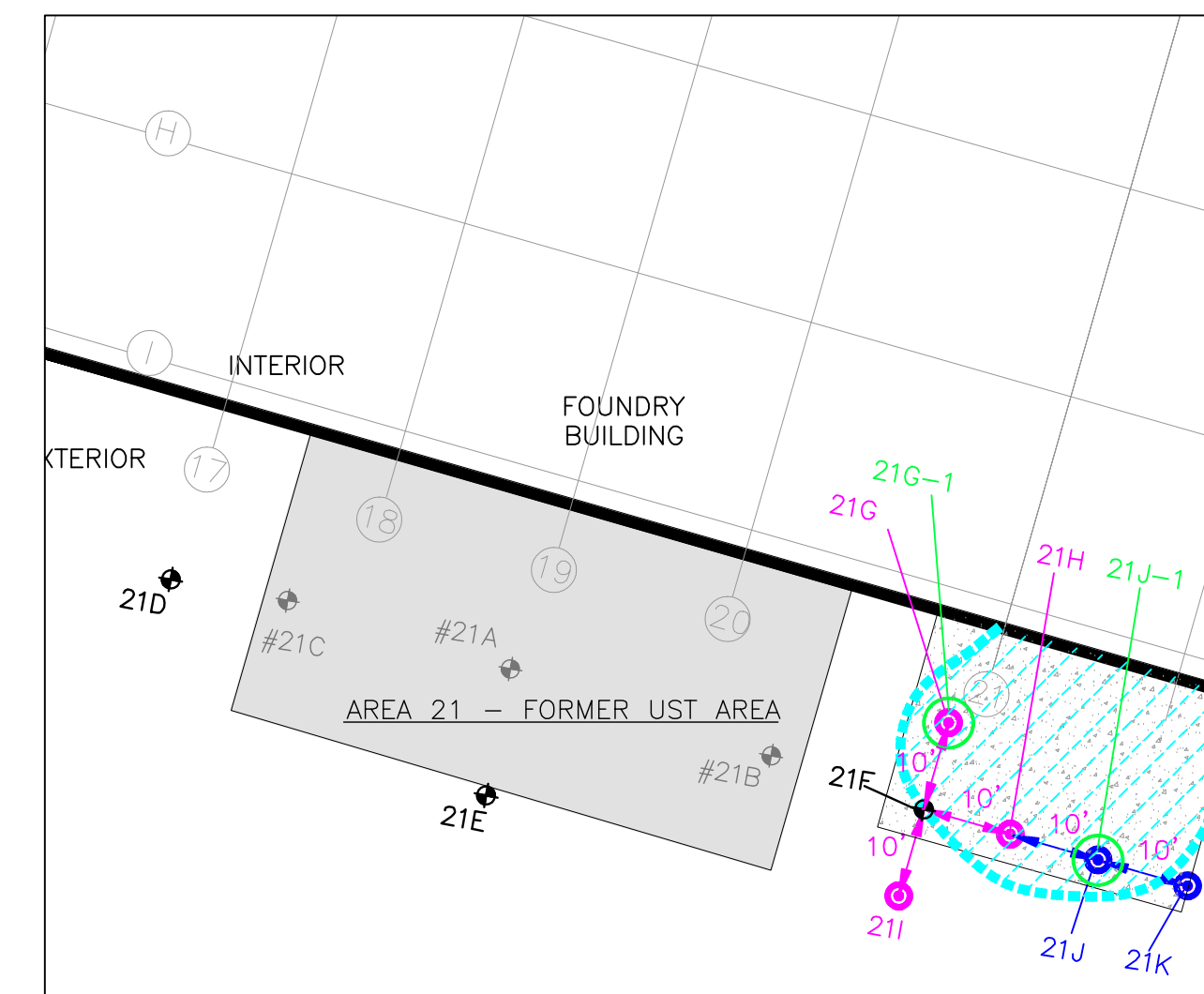
Description of Waste Source	Type of Waste	Approx. Quantity	Waste Characterization	Facility	Date Removed from Site	Closure Status
<u>Exterior Areas</u> 26A, 26B, 21, 15, FPM8, FPM19,	Excavation soil	480.3 tons	Non-Hazardous	Clean Earth of Philadelphia, Philadelphia, PA	March 1, 2002	Final closure in all areas except Area 21 (AUL will be implemented)
<u>Interior Areas</u> 2, 7, 8, 9, 11, 13, 17, 31	Wash water plus standing water in Area 13	2 x 20000 gallons	Non-Hazardous	S&W Waste, Inc. South Kearny, NJ	March 28-30, 2002	Final closures pending building demolition and remediation of any contaminated soils **Except Area 2, which is closed
<u>Areas</u> 2, 7, 8, 9, 11, 13, 17, 31	Wash water	6 x 55 gallon drums	Non-Hazardous	S & W Waste, Inc., South Kearny, NJ	April 11, 2001	Final closures pending building demolition and remediation of any contaminated soils **Except Area 2, which is closed
<u>Areas</u> 2, 7, 8, 9, 11, 13, 17, 31	Tank sediment	3 x 55 gallon drums	Non-Hazardous	S & W Waste, Inc., South Kearny, NJ	April 11, 2001	Final closures pending building demolition and remediation of any contaminated soils **Except Area 2, which is closed
<u>Areas</u> 28, 30	Wash water	one 55 gallon drum	Non-Hazardous	S & W Waste, Inc., South Kearny, NJ	April 11, 2001	Final Closure
<u>Area</u> 31	Standing water	2000 gallons	Non-Hazardous	S&W Waste, Inc. South Kearny, NJ	April 2, 2001	Final closure pending building demolition and remediation of any contaminated soils
<u>Area</u> 31	Sludge + water	7 x 55 gallon drums	Non-Hazardous	S & W Waste, Inc., South Kearny, NJ	April 11, 2001	Final closure pending building demolition and remediation of any contaminated soils
<u>Areas</u> 2, 7, 8, 9, 11, 13, 17 West	Solid	5 x 55 gallon drums	Non-Hazardous	S & W Waste, Inc., South Kearny, NJ	April 11, 2001	Final closures pending building demolition and remediation of any contaminated soils **Except Area 2, which is closed
<u>Areas</u> 17 (East and Sump A) 7 (Sump)	Solid	2 x 55 gallon drums	Hazardous	CWM Chemical Services, Model City, NY	April 5, 2001	Final closure pending building demolition and remediation of any contaminated soils



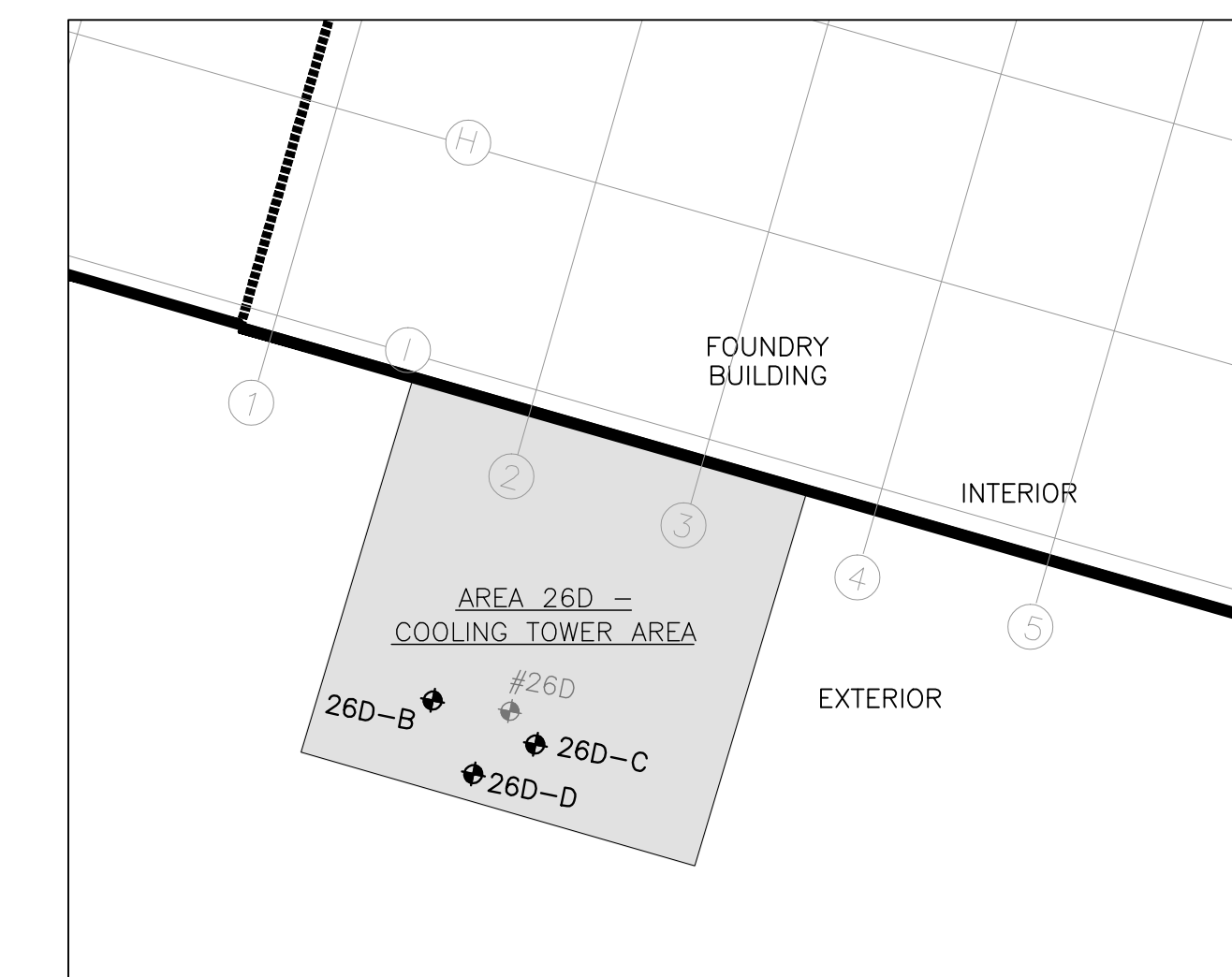
NORTHEAST OF ADMINISTRATION BUILDING
AREA 26A - COOLING TOWER AREA
TABLE 1



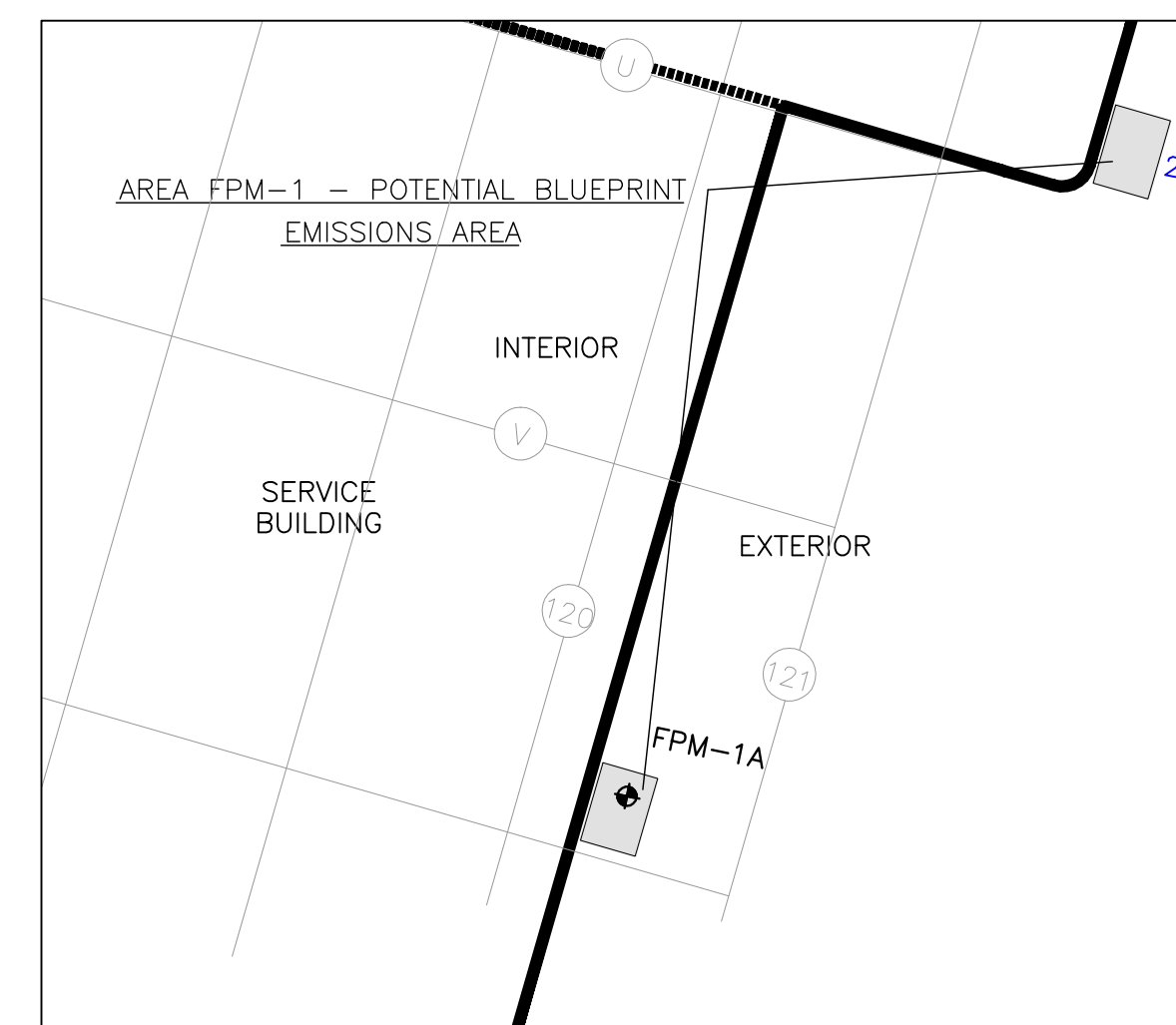
NORTHEAST OF MANUFACTURING BUILDING -
EAST OF SERVICE AREA
AREA 26B - COOLING TOWER AREA
TABLE 2



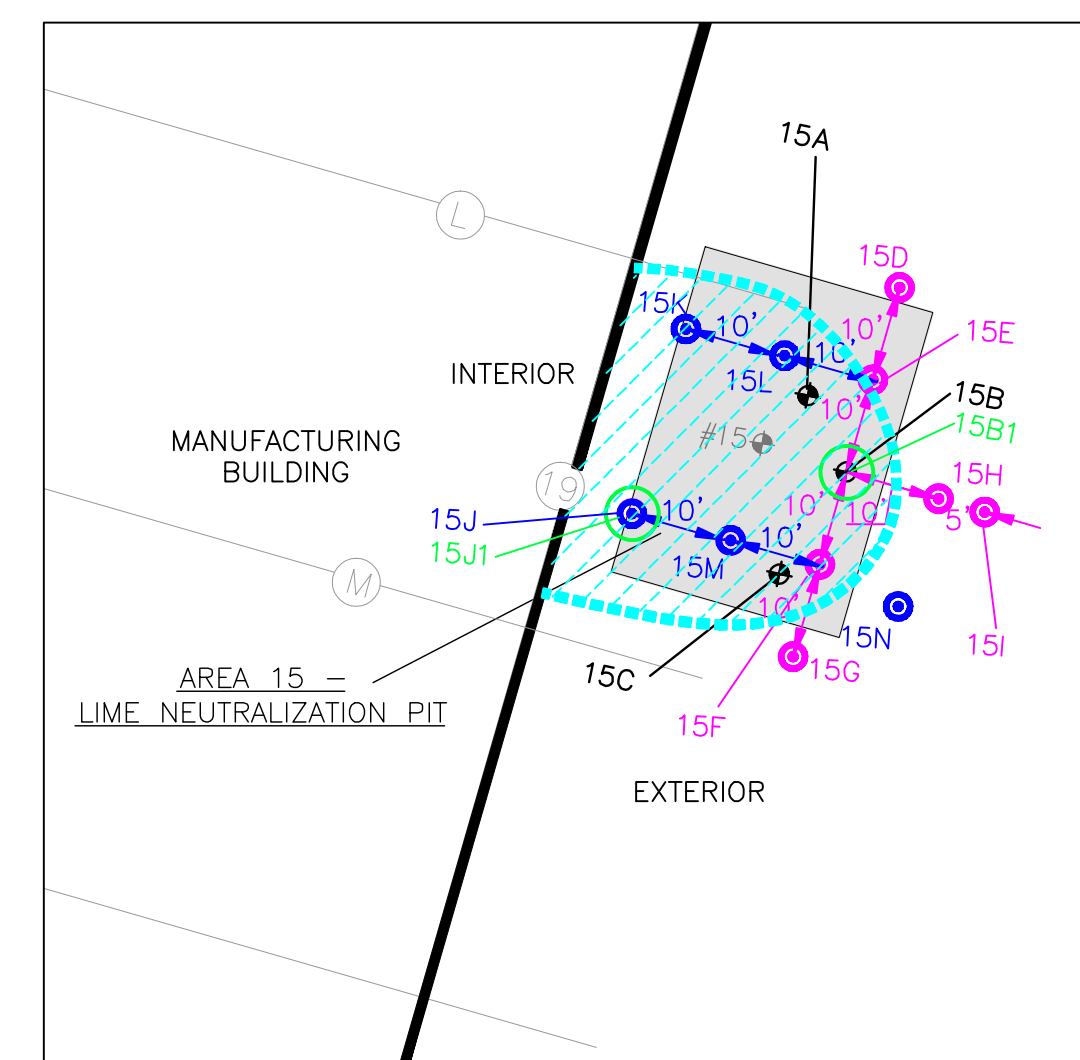
SOUTHEAST OF FOUNDRY BUILDING
AREA 21 - TWO FORMER 15,000-GALLON AND
ONE FORMER 10,000-GALLON OIL USTS
TABLE 5



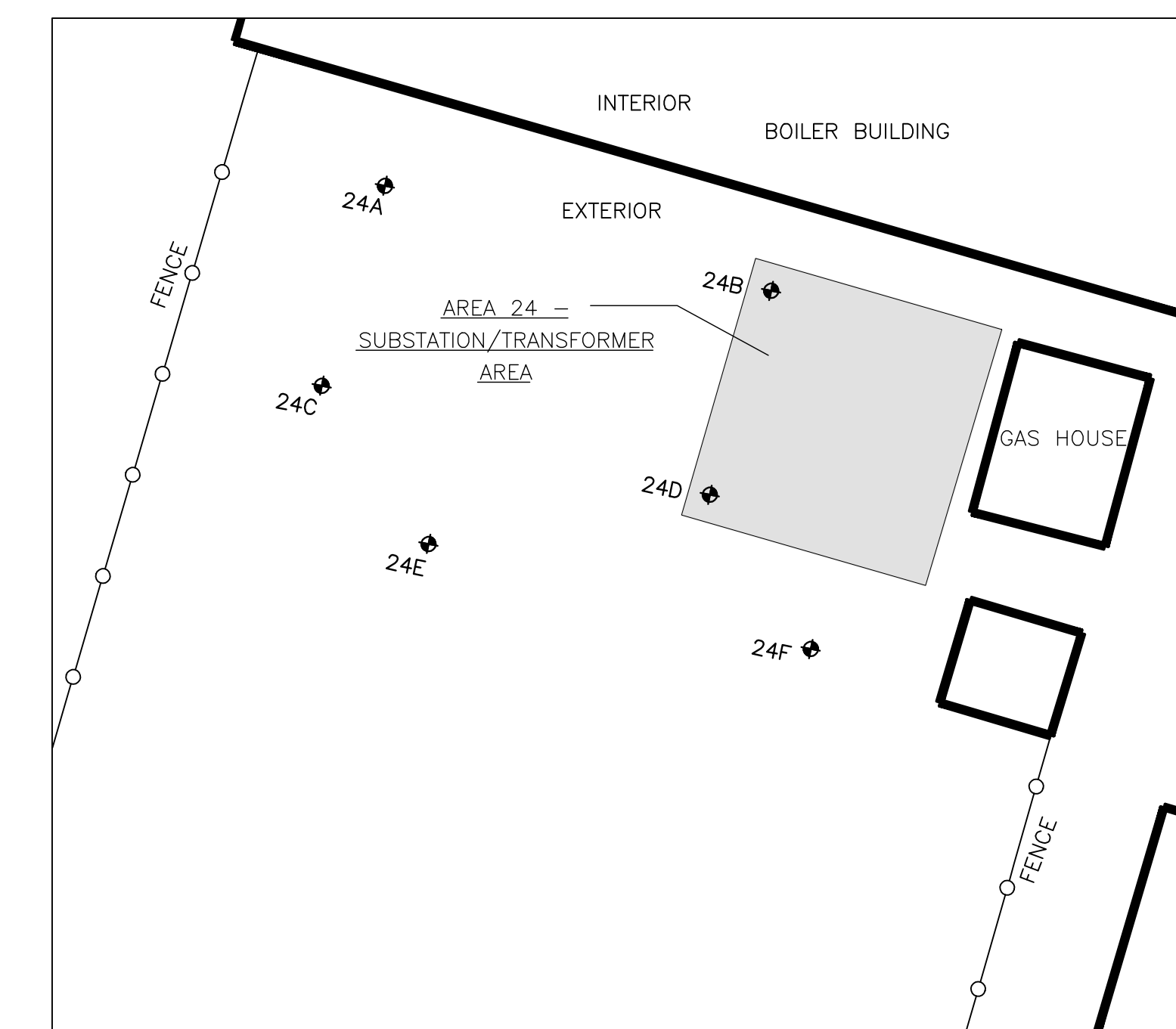
SOUTHEAST OF FOUNDRY BUILDING
AREA 26D - COOLING TOWER AREA
TABLE 3



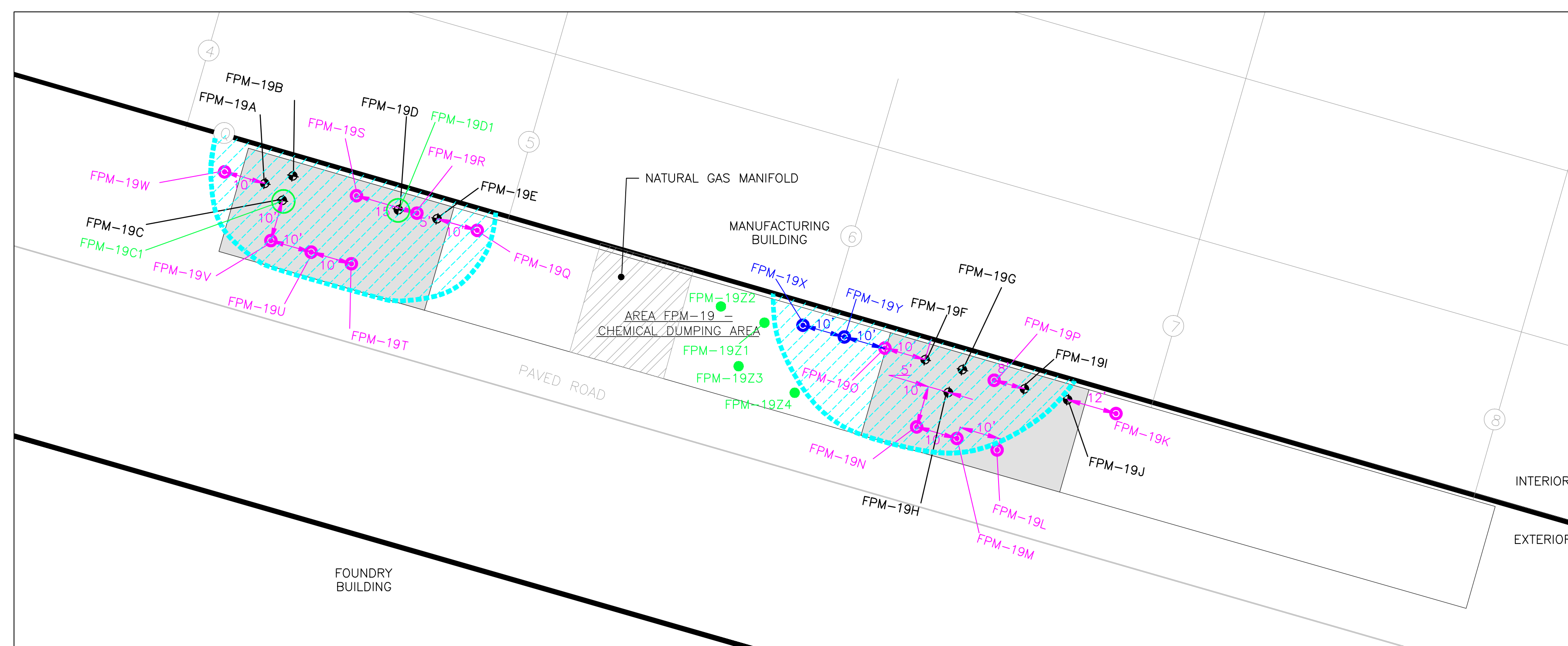
EAST OF SERVICE BUILDING, SOUTH OF
ADMINISTRATION BUILDING
AREA FPM-1 - POTENTIAL BLUEPRINT EMISSIONS AREA
TABLE 7



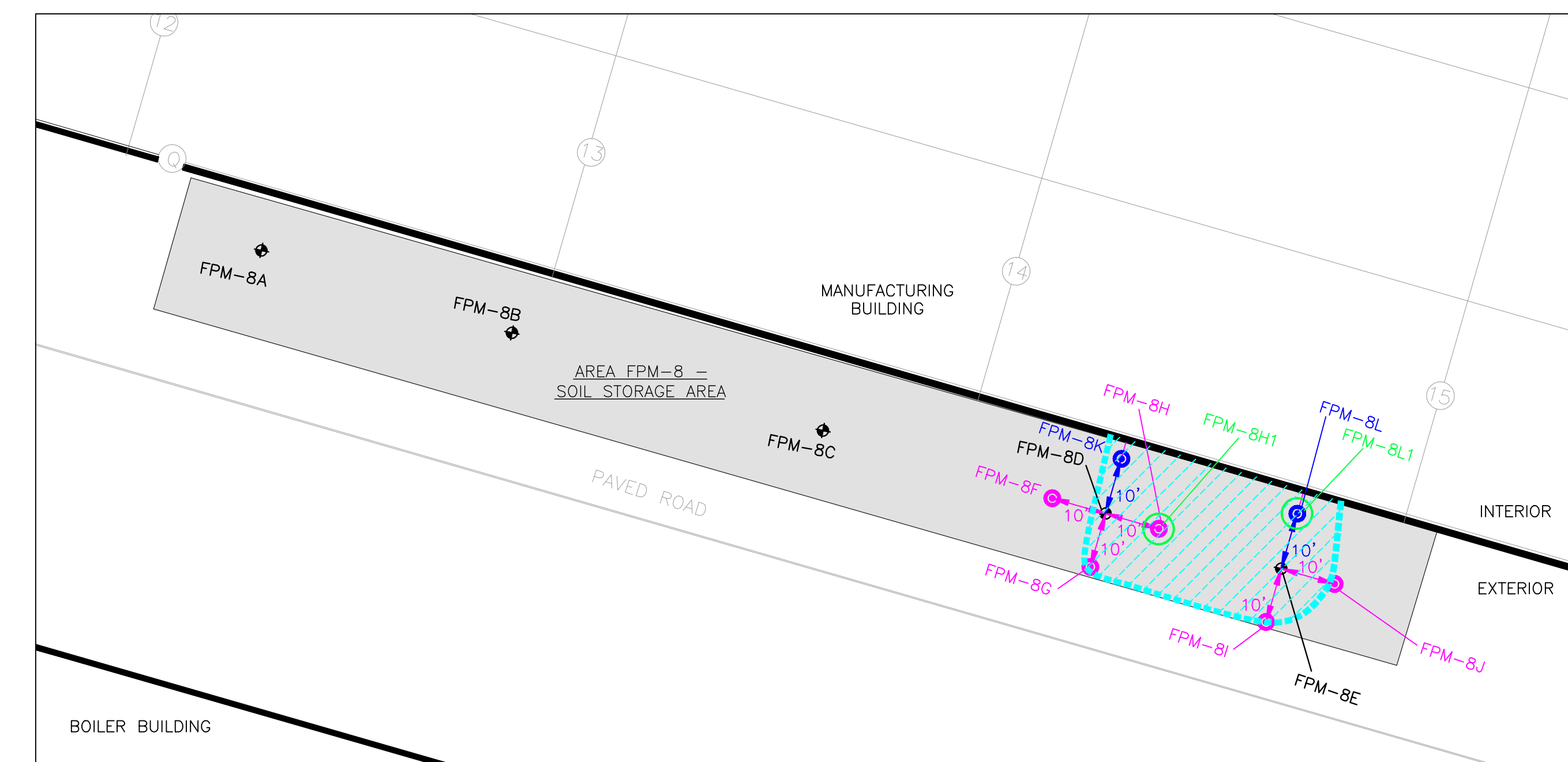
EAST OF MANUFACTURING BUILDING
AREA 15 - LIME NEUTRALIZATION PIT
TABLE 6



SOUTH OF BOILER BUILDING
AREA 24 - SUBSTATION/TRANSFORMERS
TABLE 4



SOUTH OF MANUFACTURING BUILDING, NORTH OF FOUNDRY BUILDING
AREA FPM-19 - CHEMICAL DUMPING AREA
TABLE 9



SOUTH OF MANUFACTURING BUILDING, NORTH
OF BOILER BUILDING
AREA FPM-8 - SOIL STORAGE AREA
TABLE 8

NOTES:
1. INFORMATION ON THIS FIGURE IS FROM DRAWING NO. 1, "LOCKHEED MARTIN CORP., PHASE 1 SITE SOIL INVESTIGATION, GREAT NECK, NEW YORK", PREPARED BY EMCN, ISSUED APRIL 1998.
2. SURVEY PERFORMED BY THE SEAR-BROWN GROUP ON FEBRUARY 23, AND PROVIDED ON A MAP ENTITLED "BORINGS LOCATIONS MAP", DATED JUNE 14, 2000.

LEGEND

- EXTERIOR WALL
- INTERIOR WALL
- SOIL BORING (PREVIOUS INVESTIGATION)
- SOIL BORING
- ORIGINAL AREA OF INVESTIGATION
- EXCAVATION AREA
- EXCAVATION BOUNDARY/ AREA W/ DELINEATED IMPACTS
- APRIL 2001 SAMPLING
- JULY 2001 SAMPLING
- SEPTEMBER 2001 SAMPLING
- DECEMBER 2001 SAMPLING
- 20' X 35' CONCRETE SLAB 5 FEET BELOW GRADE EXISTING AUL

NO.	DATE	REVISION DESCRIPTION	BY
			CKD

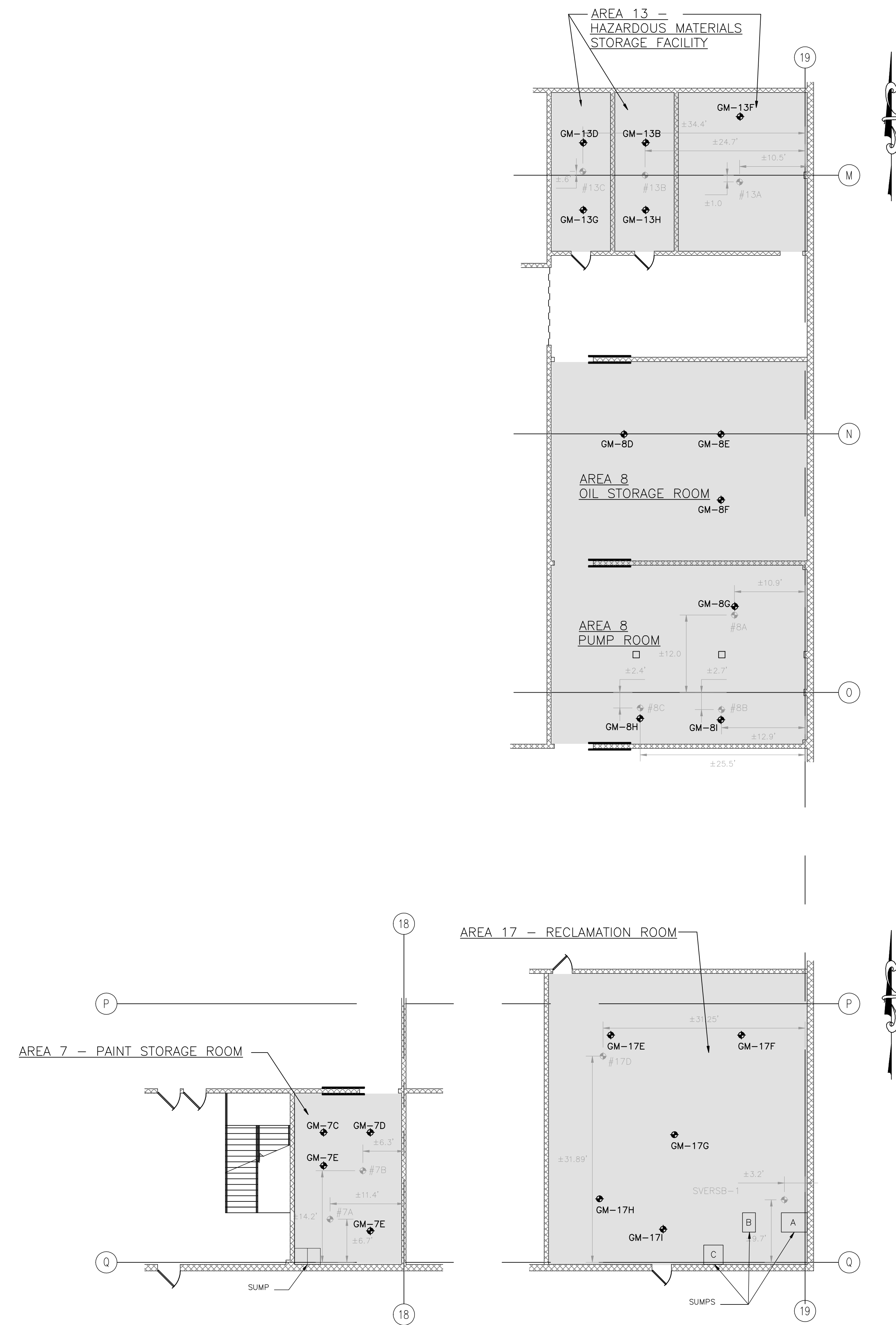
FORMER UNISYS FACILITY
GREAT NECK, NEW YORK

SITE PLAN OF EXTERIOR
AOPCs WITH SOIL BORING
LOCATIONS AND IMPACTED
SOIL BOUNDARIES

ARCADIS G&M
88 Durfee Road
Melville, New York 11747
Tel: 631/249-7600 Fax: 631/249-7610

PROJECT MANAGER C. SAN GIOVANNI	DEPARTMENT MANAGER N. VALKENBURG
LEAD DESIGN PROF. C. BERARDI TUOHY	CHECKED
DRAWN A.G.	DATE 01/24/02
PROJECT NUMBER NY01227.017.01	FIGURE NUMBER 1





MANUFACTURING BUILDING
 AREA 7 - PAINT STORAGE ROOM
 AREA 8 - OIL STORAGE / PUMP ROOM
 AREA 13 - HAZARDOUS MATERIALS STORAGE FACILITY
 AREA 17 - RECLAMATION ROOM

LEGEND

- POURED CONCRETE WALL
- MASONRY WALL
- METAL STUD PARTITIONS
- SOIL BORING (PREVIOUS INVESTIGATION)
- SOIL BORING
- ACTIVITIES USE LIMITATION AREAS



- NOTES:
1. INFORMATION ON THIS FIGURE IS FROM DRAWING NO. 1, "LOCKHEED MARTIN CORP., PHASE 1 SITE SOIL INVESTIGATION, GREAT NECK, NEW YORK", PREPARED BY EMCOR, ISSUED APRIL 1998.
 2. BORINGS 9E AND 9F WERE PERFORMED ON FEBRUARY 25 AND 26, 2000 BY ARCADIS GERAGHTY & MILLER.
 3. BORING SVERSB-1 LOCATION FROM DRAWING NO. 2, "SITE PLAN, FORMER LOCKHEED MARTIN CORPORATION, GREAT NECK, NEW YORK", PREPARED BY ARCADIS GERAGHTY & MILLER, DATED JULY 13, 1999.
 4. SURVEY PERFORMED BY THE SEAR-BROWN GROUP ON FEBRUARY 23, AND PROVIDED ON A MAP ENTITLED "BORINGS LOCATIONS MAP", DATED JUNE 14, 2000.

NO.	DATE	REVISION DESCRIPTION	BY
			CKD

FORMER UNISYS FACILITY
 GREAT NECK, NEW YORK

LOCATION MAP OF
 HAZARDOUS WASTE MANAGEMENT
 UNITS

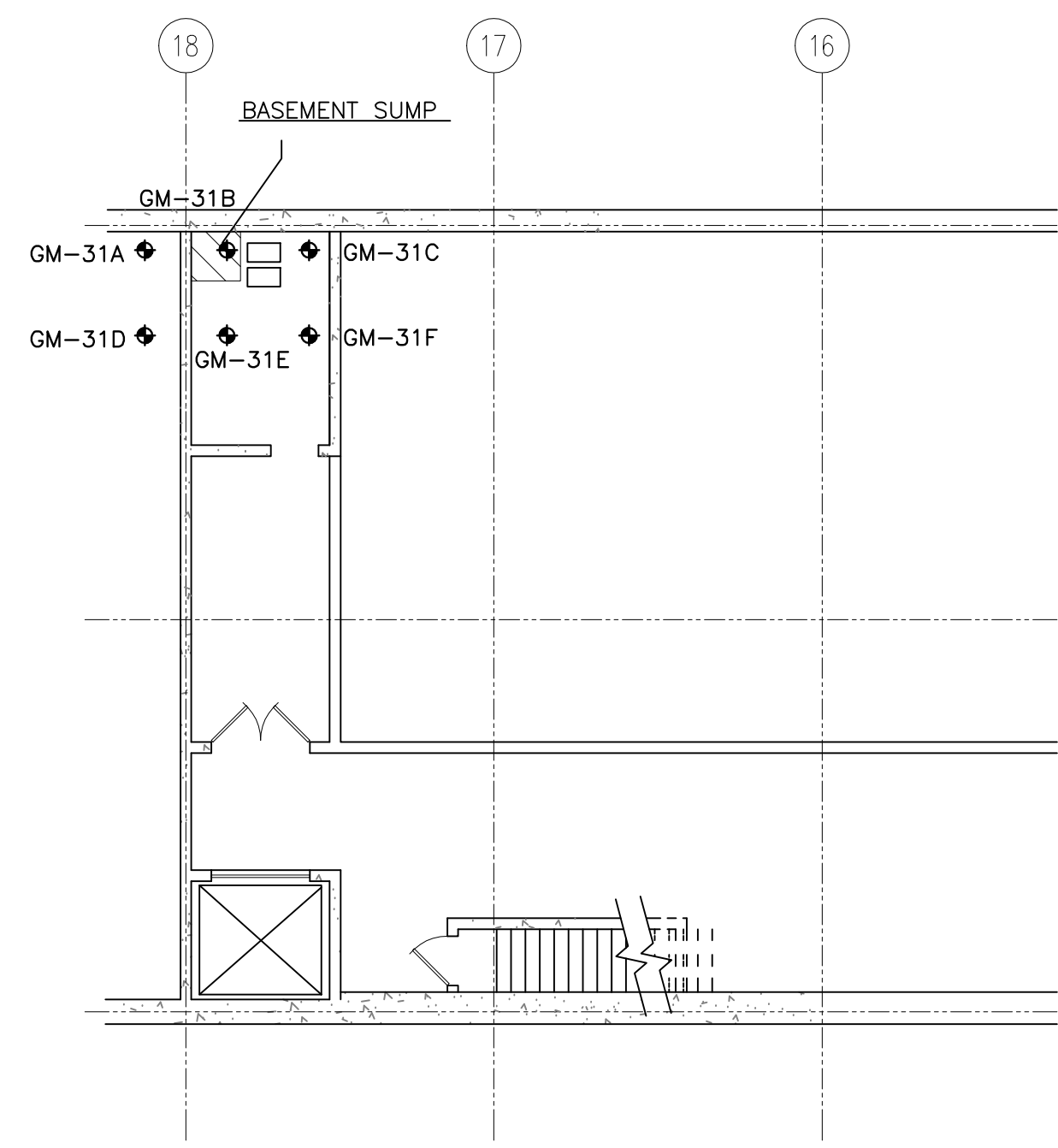


PROJECT MANAGER C. SAN GIOVANNI	DEPARTMENT MANAGER N. VALKENBURG
------------------------------------	-------------------------------------

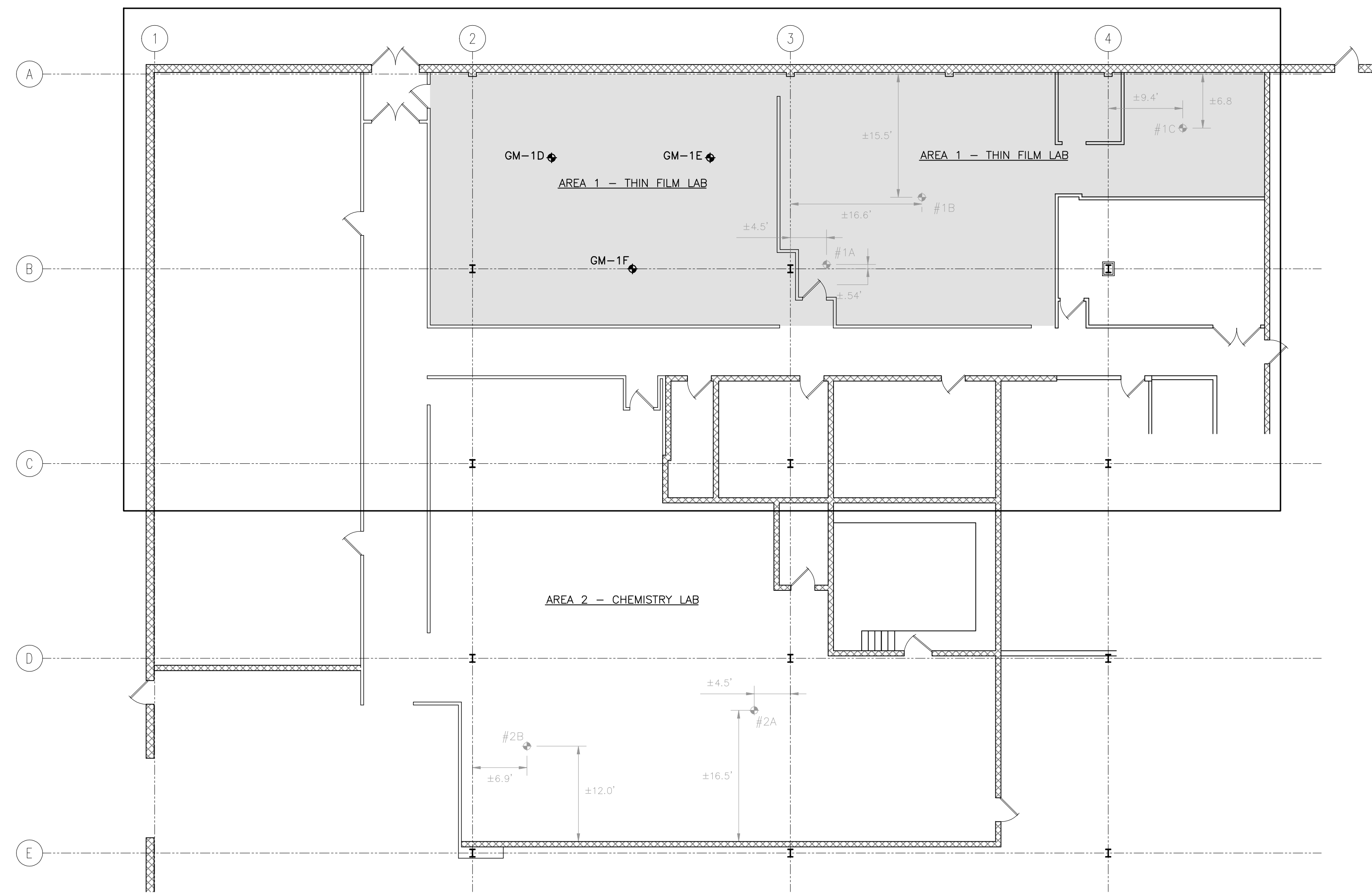
LEAD DESIGN PROF. C. BERARDI TUOHY	CHECKED
---------------------------------------	---------

DRAWN A.C.	DATE 8/10/00
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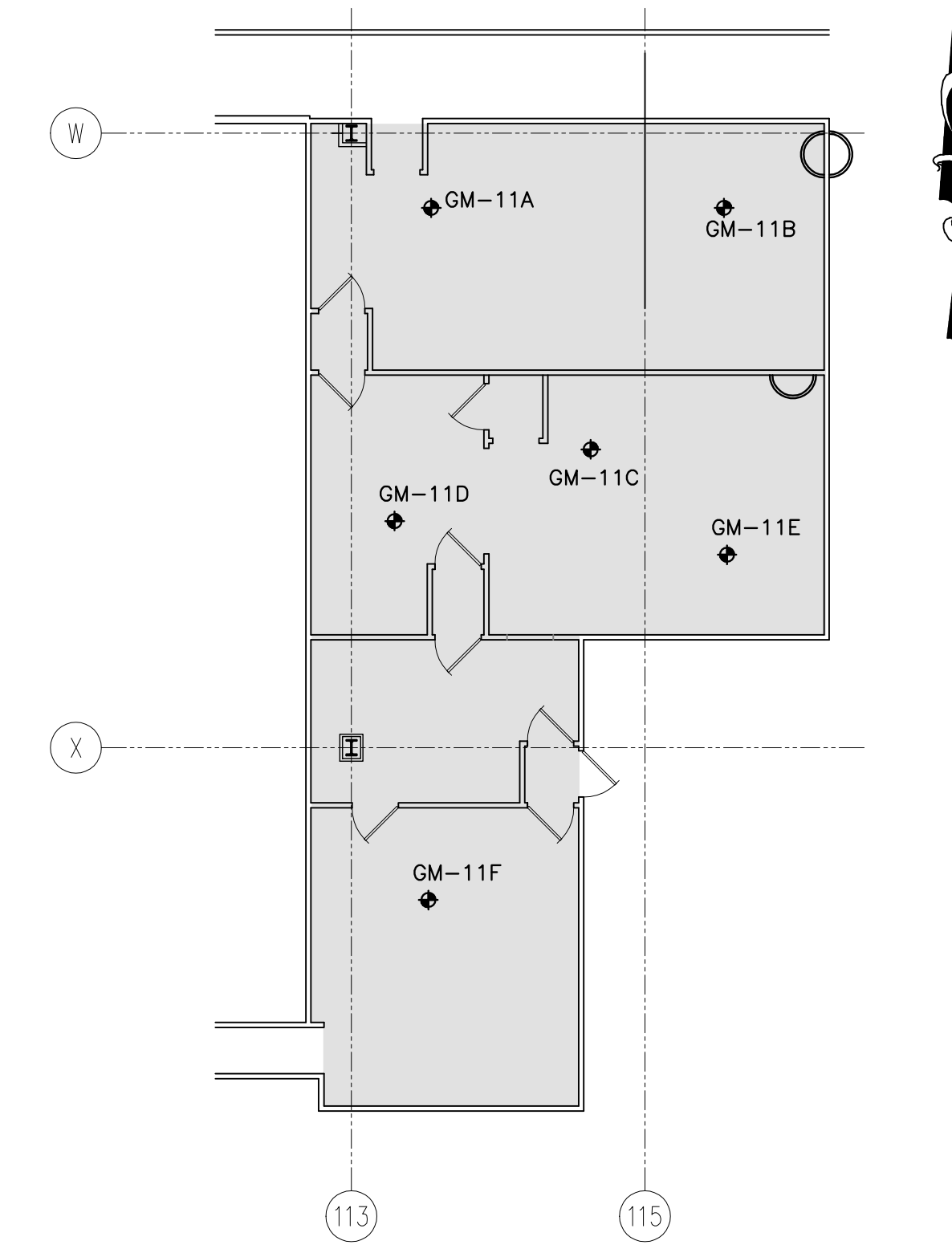
PROJECT NUMBER NY01227.017.01	FIGURE NUMBER 2
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FOUNDRY BUILDING
AREA 31 - BASEMENT SUMP



ENVIRONMENTAL BUILDING
AREA 1 - THIN FILM LAB
AREA 2 - CHEMISTRY LAB

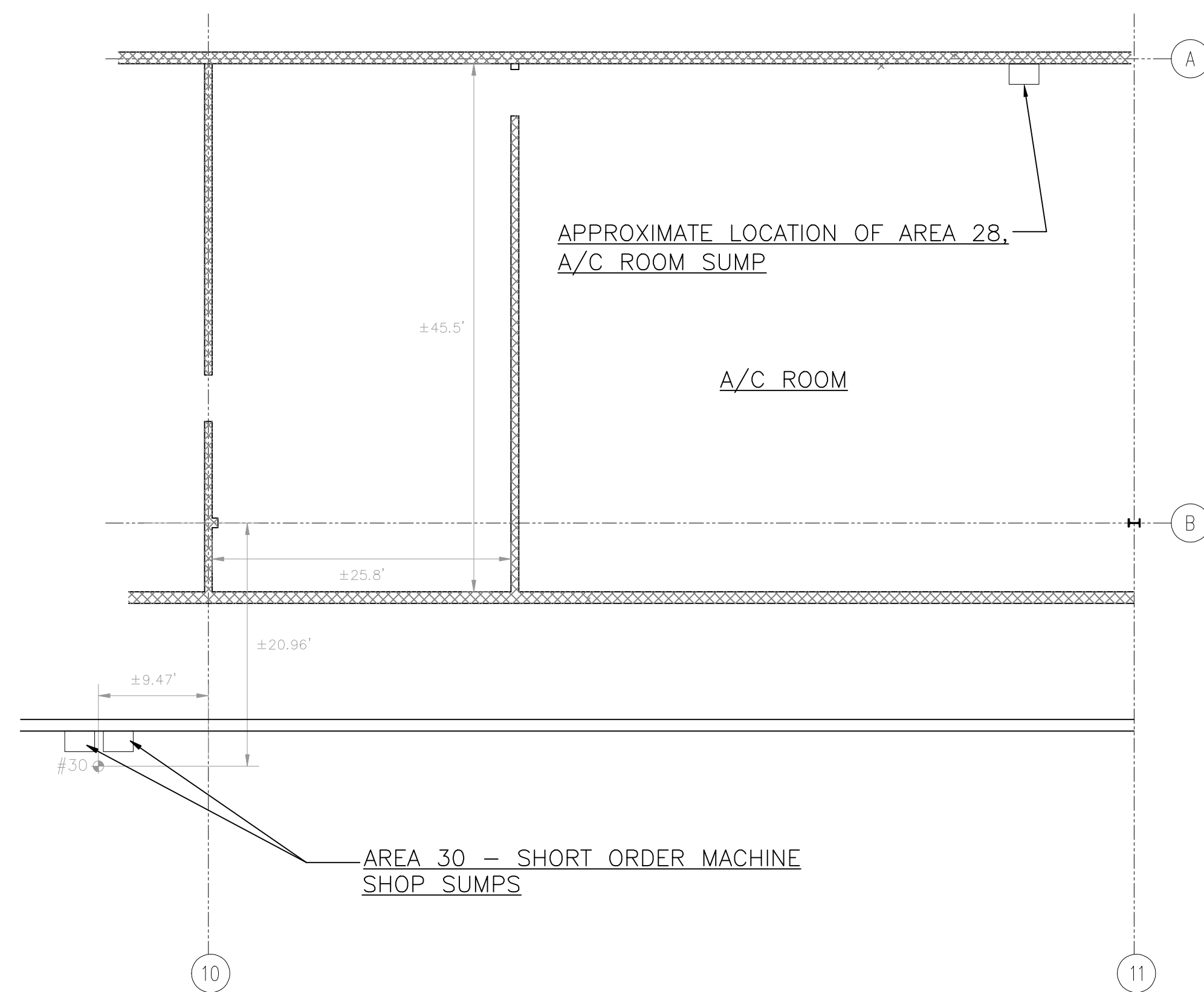


SERVICE BUILDING
AREA 11 - PROCESS PHOTO LAB

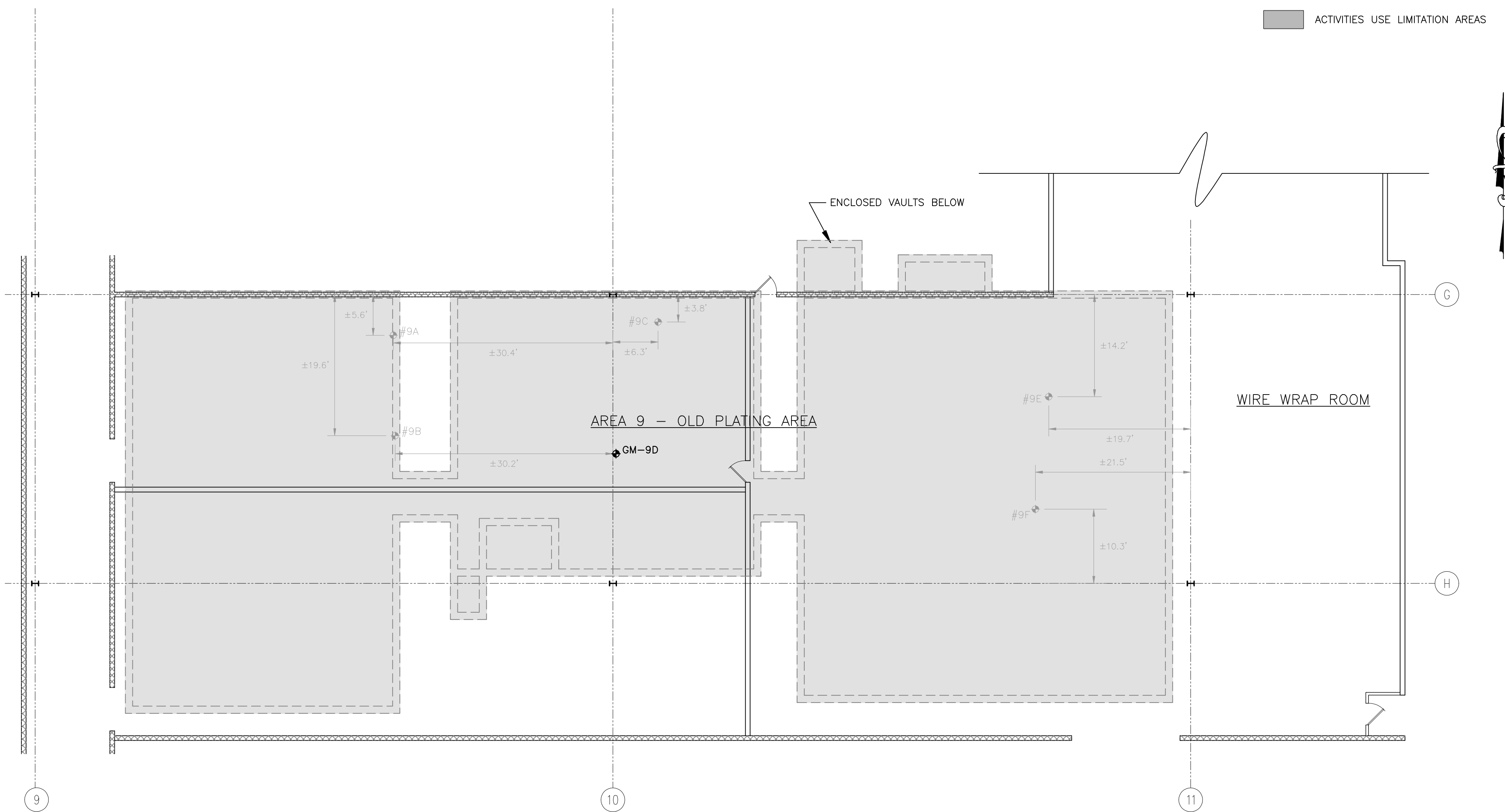
LEGEND

- POURED CONCRETE WALL
- MASONRY WALL
- METAL STUD PARTITIONS
- SOIL BORING (PREVIOUS INVESTIGATION)
- SOIL BORING
- ACTIVITIES USE LIMITATION AREAS

NOTES:
1. INFORMATION ON THIS FIGURE IS FROM DRAWING NO. 1, "LOCKHEED MARTIN CORP., PHASE 1 SITE SOIL INVESTIGATION, GREAT NECK, NEW YORK", PREPARED BY EMCOR, ISSUED APRIL, 1998.
2. SURVEY PERFORMED BY THE SEAR-BROWN GROUP, FEBRUARY 23, AND PROVIDED ON A MAP ENTITLED "BORINGS LOCATIONS MAP", DATED JUNE 14, 2000.



MANUFACTURING BUILDING
AREA 28 - A/C ROOM SUMP
AREA 30 - SHORT ORDER MACHINE SHOP SUMPS



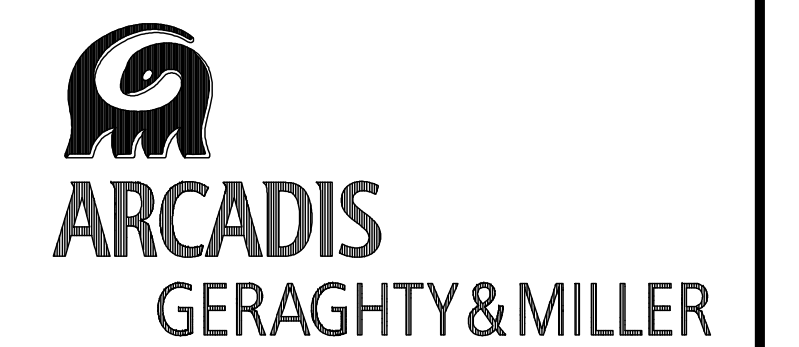
MANUFACTURING BUILDING
AREA 9 - OLD PLATING AREA



NO.	DATE	REVISION DESCRIPTION	BY
			CKD

FORMER UNISYS FACILITY
GREAT NECK, NEW YORK

LOCATION MAP OF
INTERIOR AOPCS



PROJECT MANAGER
C. SAN GIOVANNI

DEPARTMENT MANAGER
N. VALKENBURG

LEAD DESIGN PROF.
C. BERARDI TUOHY

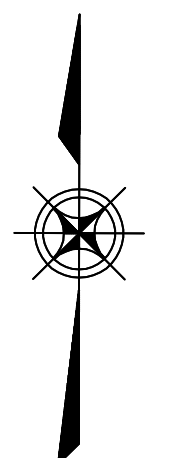
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DRAWN
A.C.

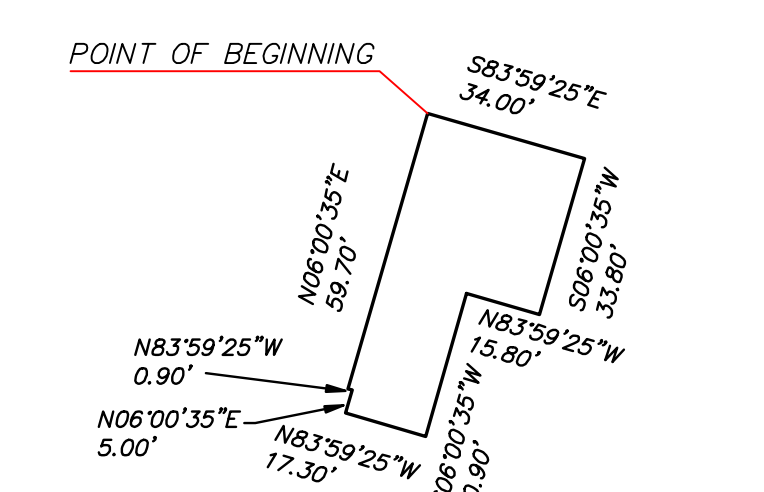
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8/10/00

PROJECT NUMBER
NY01227.017.01

FIGURE NUMBER
3



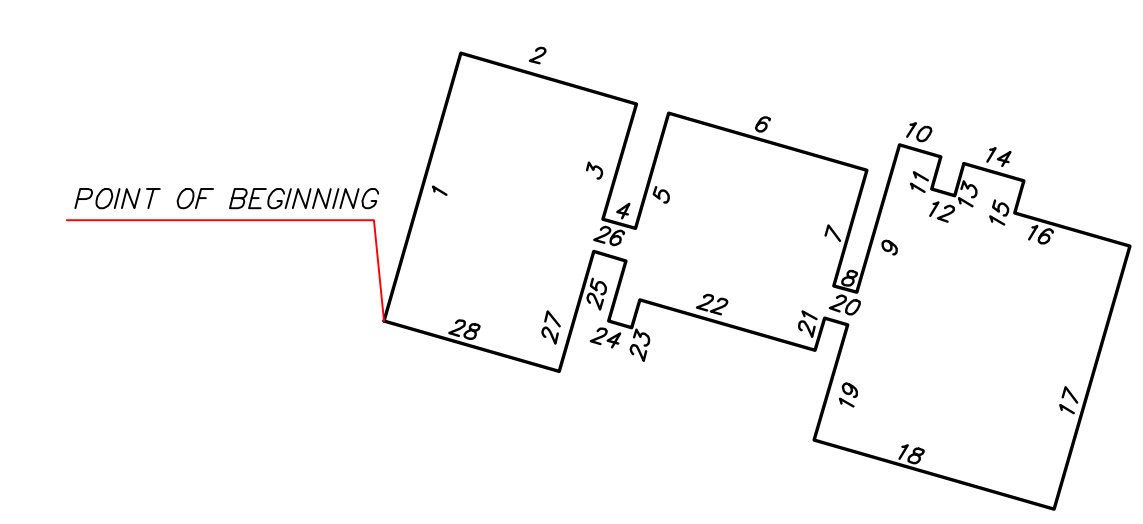
BEARINGS AND DISTANCES IN KEEPING WITH SURVEY PREPARED BY BARRET, BONACIO & VAN WEELE, P.C. DATED 6-4-98.



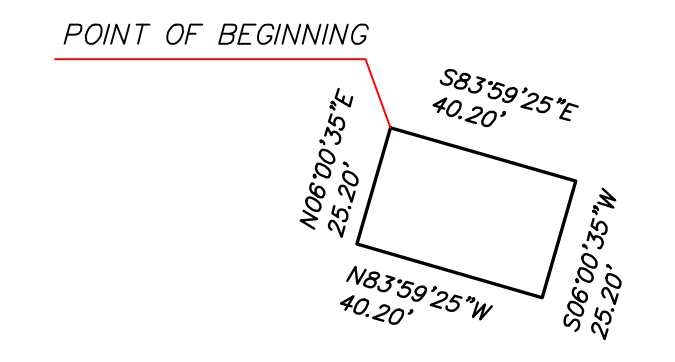
AREA 11
DETAIL: PHOTO PROCESS LAB
SCALE: 1"=40'

COURSES AND DISTANCES

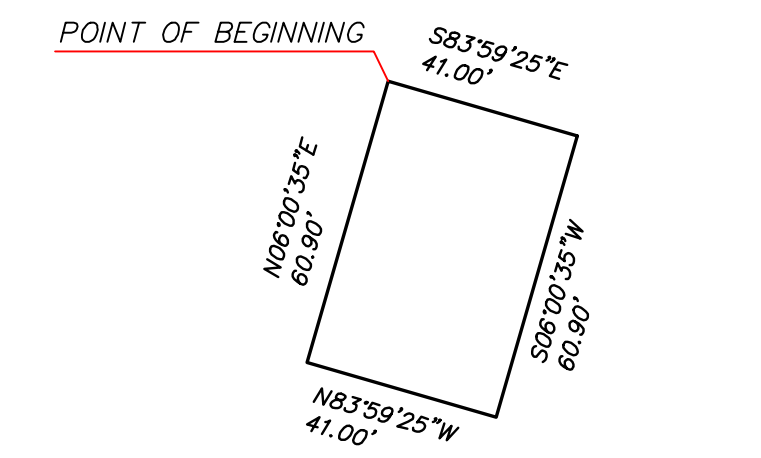
1	N06°00'35"E 58.00'	15	S06°00'35"W 7.00'
2	S83°59'25"E 38.00'	16	S83°59'25"E 25.00'
3	S06°00'35"W 25.00'	17	S06°00'35"W 57.00'
4	S83°59'25"E 7.00'	18	N83°59'25"W 52.00'
5	N06°00'35"E 25.00'	19	N06°00'35"E 25.00'
6	S83°59'25"E 43.00'	20	N83°59'25"W 5.00'
7	S06°00'35"W 25.00'	21	S06°00'35"W 7.00'
8	S83°59'25"E 5.00'	22	N83°59'25"W 38.00'
9	N06°00'35"E 32.00'	23	S06°00'35"W 6.00'
10	S83°59'25"E 8.00'	24	N83°59'25"W 5.00'
11	S06°00'35"W 7.00'	25	N06°00'35"E 13.00'
12	S83°59'25"E 5.00'	26	N83°59'25"W 7.00'
13	N06°00'35"E 7.00'	27	S06°00'35"W 26.00'
14	S83°59'25"E 13.00'	28	N83°59'25"W 38.00'



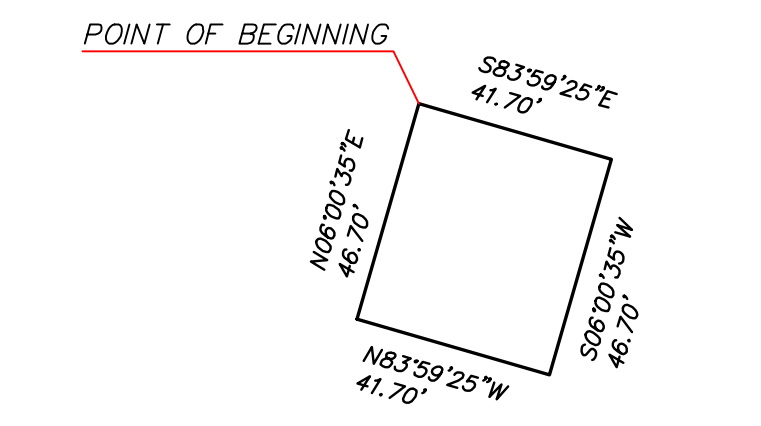
AREA 9
DETAIL: OLD PLATING AREA
SCALE: 1"=40'



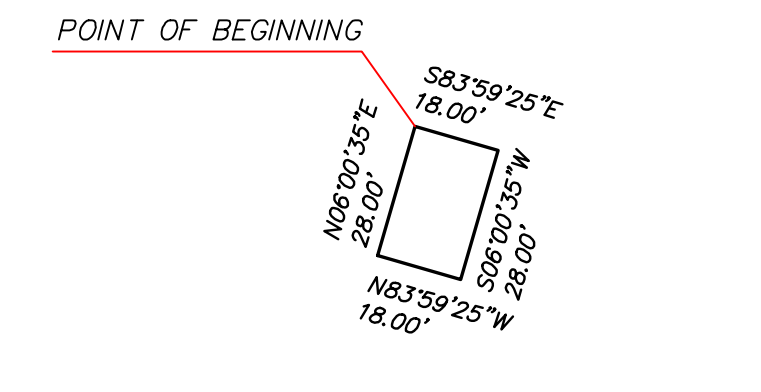
AREA 13
DETAIL: HAZARDOUS MATERIALS ROOM
SCALE: 1"=40'



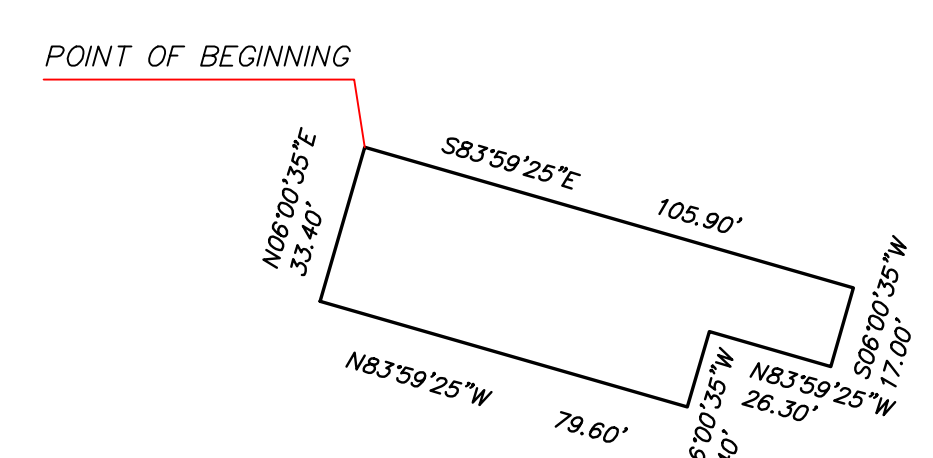
AREA 8
DETAIL: OIL STORAGE ROOM/PUMP ROOM
SCALE: 1"=40'



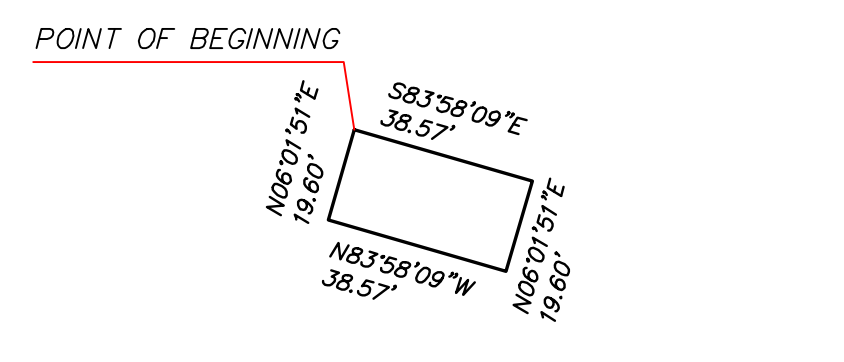
AREA 17
DETAIL: RECLAMATION ROOM
SCALE: 1"=40'



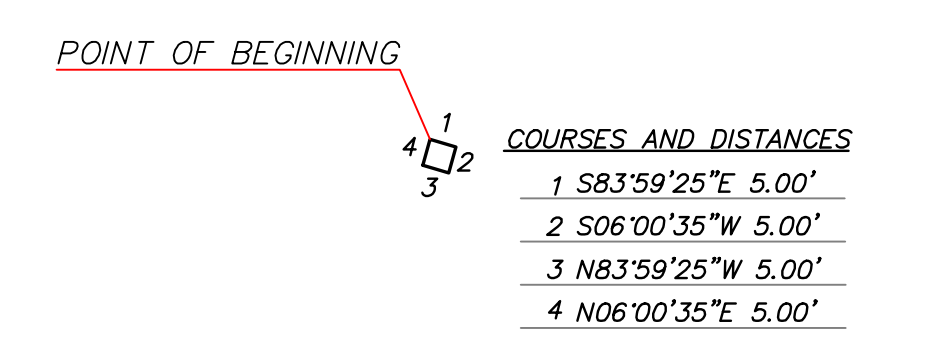
AREA 7
DETAIL: PAINT STORAGE ROOM
SCALE: 1"=40'



AREA 1
DETAIL: PRINT CIRCUIT LABS
SCALE: 1"=40'



AREA 21
DETAIL: FOUNDRY BUILDING UNDERGROUND STORAGE TANKS
SCALE: 1"=40'



AREA 31
DETAIL: BASEMENT SUMP
SCALE: 1"=40'

NOTES:

- BECAUSE THERE IS A POTENTIAL FOR CONSTRUCTION WORKERS TO BREACH THE FLOOR DURING FUTURE SITE UPGRADES, A TEMPORARY ACTIVITY AND USE LIMITATION (AUL) WILL BE IMPOSED ON SOME AREAS TO ASSURE THAT FUTURE WORK DONE BENEATH THE SLAB WILL BE CONDUCTED IN ACCORDANCE WITH THE CORRECT HEALTH AND SAFETY PRECAUTIONS. ANY WASTE GENERATED DURING FUTURE WORK IN THESE AREAS WILL BE MANAGED IN ACCORDANCE WITH APPLICABLE REGULATIONS AND THE SLAB WILL BE REESTABLISHED AFTER THE WORK IS FINISHED. UNDER THIS SCENARIO, THE USE OF THE INTERIOR AREAS OF THE SITE WILL NOT BE PROHIBITED OR RESTRICTED IN ANY WAY.
- FURTHER INVESTIGATION AND/OR REMEDIATION OF CONTAMINATED SOILS IN AREAS WITH AN AUL WILL BE RESERVED UNTIL SUCH TIME THAT THE SLAB IS REMOVED. THE SOIL INVESTIGATION PLANNED IN AREAS RESTRICTED BY AN AUL WILL TAKE PLACE WITHIN APPROXIMATELY THREE MONTHS OF THE DEMOLITION OF THE SLAB IN ACCORDANCE WITH A PLAN APPROVED BY NYSDEC. IN THE EVENT THE CONCRETE SLAB IS BREACHED IN AN AREA RESTRICTED BY AN AUL, CONSIDERATION WILL BE GIVEN TO PERFORMING SAMPLING ACTIVITIES AS DESCRIBED IN THE DETAILED CLOSURE WORK PLAN INCLUDED UNDER SEPARATE COVER.

SITE PLAN
SCALE: 1"=100'

SOURCE: SEAR-BROWN, "ACTIVITIES USE LIMITATION AREAS", DATED 5-15-01, PROJECT NO. 1631843.

DRAWING CONFIDENTIAL: THIS DRAWING AND ALL INFORMATION CONTAINED THEREON IS AND SHALL REMAIN THE PROPERTY OF ARCADIS G&M, INC. AS AN INSTRUMENT OF PROFESSIONAL SERVICE. THIS INFORMATION SHALL NOT BE USED IN WHOLE OR IN PART WITHOUT THE FULL KNOWLEDGE AND PRIOR WRITTEN CONSENT OF ARCADIS G&M, INC.

ENGINEERING DESIGN: ALL PROFESSIONAL ENGINEERING SERVICES DEPICTED ON THIS DRAWING HAVE BEEN PERFORMED FOR ARCADIS G&M, INC. BY GM CONSULTING ENGINEERS, P.C. A PROFESSIONAL CORPORATION QUALIFIED TO PERFORM SUCH SERVICES IN THE STATE OF NEW YORK.

NO.	DATE	REVISION DESCRIPTION	BY	CHKD

ARCADIS G&M

FORMER UNISYS FACILITY
GREAT NECK, NEW YORK

LOCATION MAP OF AULs

PROJECT NUMBER: NY01227.17.01

DRAWN: A.G.	DATE: 11/2/01	PROJECT MANAGER: C. SAN GIOVANNI	DEPARTMENT MANAGER: N. VALKENBURG
LOCATION MAP OF AULs		LEAD DESIGN PROF.: F. LENZO	CHECKED: C. TUOHY
PROJECT NUMBER: NY01227.17.01		DRAWING NUMBER: 4	

FILE: G:\PROJECTS\LOCKHEED MARTIN\GREAT NECK\NY01227.0010-01-MOD. RM\CADD\RCFA WORKPLAN\RCFA_AULS_FLDWG. DATE: 12/28/2007 02:56:32PM

Volume II

**Closure Report Former
Unisys Facility,
Great Neck, New York**

Appendix A

**Waste Characterization Analysis for
Excavated Soil**

WASTE CHARACTERIZATION ANALYTICAL DATA

Exterior RCRA Excavations
Former Unisys Facility
Lake Success, New York

15

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777 • FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com
LAB NO. 220869.01 03/01/02

Blue Water Environmental
1610 New Highway
Farmingdale, NY 11735

ATTN: Mark Soliman

PO#:

SOURCE OF SAMPLE: Former Unisys-Lake Success, #ARCADIS-LMC RCRA Exc.

SOURCE OF SAMPLE:

COLLECTED BY: Client DATE COL'D: 02/25/02 RECEIVED: 02/25/02

TIME COL'D: 1330

MATRIX: Soil SAMPLE: RCRA-C

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Bis(2-chloroethyl)ether	ug/Kg	< 310		02/27/02	312.5	EPA8270
1,3 Dichlorobenzene(sv)	ug/Kg	< 310		02/27/02	312.5	EPA8270
1,4 Dichlorobenzene(sv)	ug/Kg	< 310		02/27/02	312.5	EPA8270
Carbazole	ug/Kg	800		02/27/02	312.5	EPA8270
1,2 Dichlorobenzene(sv)	ug/Kg	< 310		02/27/02	312.5	EPA8270
Bis(2-chloroisopropyl)ether	ug/Kg	< 310		02/27/02	312.5	EPA8270
N-Nitrosodi-n-propylamine	ug/Kg	< 310		02/27/02	312.5	EPA8270
Hexachloroethane	ug/Kg	< 310		02/27/02	312.5	EPA8270
robenzene	ug/Kg	< 310		02/27/02	312.5	EPA8270
sophorone	ug/Kg	< 310		02/27/02	312.5	EPA8270
Bis(2-chloroethoxy)methane	ug/Kg	< 310		02/27/02	312.5	EPA8270
124-Trichlorobenzene (sv)	ug/Kg	< 310		02/27/02	312.5	EPA8270
Naphthalene(sv)	ug/Kg	310		02/27/02	312.5	EPA8270
4-Chloroaniline	ug/Kg	< 310		02/27/02	312.5	EPA8270
Hexachlorobutadiene	ug/Kg	< 310		02/27/02	312.5	EPA8270
2-Methylnaphthalene	ug/Kg	< 310		02/27/02	312.5	EPA8270
Hexachlorocyclopentadiene	ug/Kg	< 3100		02/27/02	3125	EPA8270
2-Chloronaphthalene	ug/Kg	< 310		02/27/02	312.5	EPA8270
2-Nitroaniline	ug/Kg	< 310		02/27/02	312.5	EPA8270
Dimethyl Phthalate	ug/Kg	< 310		02/27/02	312.5	EPA8270
Acenaphthylene	ug/Kg	< 310		02/27/02	312.5	EPA8270
2,6-Dinitrotoluene	ug/Kg	< 310		02/27/02	312.5	EPA8270
3-Nitroaniline	ug/Kg	< 310		02/27/02	312.5	EPA8270
Acenaphthene	ug/Kg	800		02/27/02	312.5	EPA8270
Dibenzofuran	ug/Kg	380		02/27/02	312.5	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR 

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ENVIRONMENTAL TESTING

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.220869.01

03/01/02

Blue Water Environmental
1610 New Highway
Farmingdale, NY 11735

ATTN: Mark Soliman

PO#:

SOURCE OF SAMPLE: Former Unisys-Lake Success, #ARCADIS-LMC RCRA Exc.

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:02/25/02 RECEIVED:02/25/02

TIME COL'D:1330

MATRIX:Soil

SAMPLE: RCRA-C

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF		ANALYTICAL
				ANALYSIS	LRL	
Bis(2-chloroethyl)ether	ug/Kg	< 310		02/27/02	312.5	EPA8270
1,3 Dichlorobenzene(sv)	ug/Kg	< 310		02/27/02	312.5	EPA8270
1,4 Dichlorobenzene(sv)	ug/Kg	< 310		02/27/02	312.5	EPA8270
Carbazole	ug/Kg	800		02/27/02	312.5	EPA8270
1,2 Dichlorobenzene(sv)	ug/Kg	< 310		02/27/02	312.5	EPA8270
Bis(2-chloroisopropyl)ether	ug/Kg	< 310		02/27/02	312.5	EPA8270
N-Nitrosodi-n-propylamine	ug/Kg	< 310		02/27/02	312.5	EPA8270
Hexachloroethane	ug/Kg	< 310		02/27/02	312.5	EPA8270
robenzene	ug/Kg	< 310		02/27/02	312.5	EPA8270
ophorone	ug/Kg	< 310		02/27/02	312.5	EPA8270
Bis(2-chloroethoxy)methane	ug/Kg	< 310		02/27/02	312.5	EPA8270
124-Trichlorobenzene (sv)	ug/Kg	< 310		02/27/02	312.5	EPA8270
Naphthalene(sv)	ug/Kg	310		02/27/02	312.5	EPA8270
4-Chloroaniline	ug/Kg	< 310		02/27/02	312.5	EPA8270
Hexachlorobutadiene	ug/Kg	< 310		02/27/02	312.5	EPA8270
2-Methylnaphthalene	ug/Kg	< 310		02/27/02	312.5	EPA8270
Hexachlorocyclopentadiene	ug/Kg	< 3100		02/27/02	3125	EPA8270
2-Chloronaphthalene	ug/Kg	< 310		02/27/02	312.5	EPA8270
2-Nitroaniline	ug/Kg	< 310		02/27/02	312.5	EPA8270
Dimethyl Phthalate	ug/Kg	< 310		02/27/02	312.5	EPA8270
Acenaphthylene	ug/Kg	< 310		02/27/02	312.5	EPA8270
2,6-Dinitrotoluene	ug/Kg	< 310		02/27/02	312.5	EPA8270
3-Nitroaniline	ug/Kg	< 310		02/27/02	312.5	EPA8270
Acenaphthene	ug/Kg	800		02/27/02	312.5	EPA8270
Dibenzofuran	ug/Kg	380		02/27/02	312.5	EPA8270

cc:

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO. 220869.01

03/01/02

Blue Water Environmental
1610 New Highway
Farmingdale, NY 11735

ATTN: Mark Soliman

P0#:

SOURCE OF SAMPLE: Former Unisys-Lake Success, #ARCADIS-LMC RCRA Exc.

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D: 02/25/02 RECEIVED: 02/25/02

TIME COL'D: 1330

MATRIX: Soil

SAMPLE: RCRA-C

Results reported on a dry weight basis


ANALYTICAL PARAMETERS	UNITS	RESULT	DATE OF		ANALYTICAL
			FLAG	ANALYSIS LRL	
2,4-Dinitrotoluene	ug/Kg	< 310		02/27/02 312.5	EPA8270
Diethyl Phthalate	ug/Kg	< 310		02/27/02 312.5	EPA8270
4-Chlorophenyl phenyl ether	ug/Kg	< 310		02/27/02 312.5	EPA8270
Fluorene	ug/Kg	600		02/27/02 312.5	EPA8270
4-Nitroaniline	ug/Kg	< 310		02/27/02 312.5	EPA8270
N-Nitrosodiphenylamine	ug/Kg	< 310		02/27/02 312.5	EPA8270
4-Bromophenyl phenyl ether	ug/Kg	< 310		02/27/02 312.5	EPA8270
Hexachlorobenzene	ug/Kg	< 310		02/27/02 312.5	EPA8270
anthrene	ug/Kg	6100		02/27/02 312.5	EPA8270
Anthracene	ug/Kg	1400		02/27/02 312.5	EPA8270
Di-n-Butyl Phthalate	ug/Kg	< 310		02/27/02 312.5	EPA8270
Fluoranthene	ug/Kg	7900		02/27/02 312.5	EPA8270
Pyrene	ug/Kg	6600		02/27/02 312.5	EPA8270
BenzylButylPhthalate	ug/Kg	< 310		02/27/02 312.5	EPA8270
3,3'-Dichlorobenzidine	ug/Kg	< 3100		02/27/02 3125	EPA8270
Benzo(a)anthracene	ug/Kg	4000		02/27/02 312.5	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

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SOURCE OF SAMPLE:

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TIME COL'D: 1330

MATRIX: Soil SAMPLE: RCRA-C

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	DATE OF		ANALYTICAL
			FLAG	ANALYSIS LRL	
2,4-Dinitrotoluene	ug/Kg	< 310		02/27/02 312.5	EPA8270
Diethyl Phthalate	ug/Kg	< 310		02/27/02 312.5	EPA8270
4-Chlorophenyl phenyl ether	ug/Kg	< 310		02/27/02 312.5	EPA8270
Fluorene	ug/Kg	600		02/27/02 312.5	EPA8270
4-Nitroaniline	ug/Kg	< 310		02/27/02 312.5	EPA8270
N-Nitrosodiphenylamine	ug/Kg	< 310		02/27/02 312.5	EPA8270
4-Bromophenyl phenyl ether	ug/Kg	< 310		02/27/02 312.5	EPA8270
Hexachlorobenzene	ug/Kg	< 310		02/27/02 312.5	EPA8270
Fluoranthrene	ug/Kg	6100		02/27/02 312.5	EPA8270
Anthracene	ug/Kg	1400		02/27/02 312.5	EPA8270
Di-n-Butyl Phthalate	ug/Kg	< 310		02/27/02 312.5	EPA8270
Fluoranthene	ug/Kg	7900		02/27/02 312.5	EPA8270
Pyrene	ug/Kg	6600		02/27/02 312.5	EPA8270
BenzylButylPhthalate	ug/Kg	< 310		02/27/02 312.5	EPA8270
3,3'-Dichlorobenzidine	ug/Kg	< 3100		02/27/02 3125	EPA8270
Benzo(a)anthracene	ug/Kg	4000		02/27/02 312.5	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR



rn = 6081

NYSDOH ID # 10320

Page 2 of 8

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

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DATE COL'D: 02/25/02 RECEIVED: 02/25/02

TIME COL'D: 1330

MATRIX: Soil

SAMPLE: RCRA-C

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Chrysene	ug/Kg	4000		02/27/02	312.5	EPA8270
Bis(2-ethylhexyl)phthalate	ug/Kg	< 310		02/27/02	312.5	EPA8270
Di-n-octyl Phthalate	ug/Kg	< 310		02/27/02	312.5	EPA8270
Benzo(b)fluoranthene	ug/Kg	3600	#	02/27/02	312.5	EPA8270
Benzo(k)fluoranthene	ug/Kg	3600	#	02/27/02	312.5	EPA8270
Benzo(a)pyrene	ug/Kg	3600		02/27/02	312.5	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	1700		02/27/02	312.5	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	810		02/27/02	312.5	EPA8270
zo(ghi)perylene	ug/Kg	1600		02/27/02	312.5	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total = 7000 ug/Kg, unable to separate isomers.

DIRECTOR 

ECOTEST LABORATORIES, INC.

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DATE COL'D: 02/25/02 RECEIVED: 02/25/02

TIME COL'D: 1330

MATRIX: Soil

SAMPLE: RCRA-C

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Chrysene	ug/Kg	4000		02/27/02	312.5	EPA8270
Bis(2-ethylhexyl)phthalate	ug/Kg	< 310		02/27/02	312.5	EPA8270
Di-n-octyl Phthalate	ug/Kg	< 310		02/27/02	312.5	EPA8270
Benzo(b)fluoranthene	ug/Kg	3600	#	02/27/02	312.5	EPA8270
Benzo(k)fluoranthene	ug/Kg	3600	#	02/27/02	312.5	EPA8270
Benzo(a)pyrene	ug/Kg	3600		02/27/02	312.5	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	1700		02/27/02	312.5	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	810		02/27/02	312.5	EPA8270
Fluoranthene	ug/Kg	1600		02/27/02	312.5	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total = 7000 ug/Kg, unable to separate isomers.

DIRECTOR 

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SAMPLE: RCRA-C

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF		ANALYTICAL
				ANALYSIS	LRL	
Phenol	ug/Kg	< 310		02/27/02	312.5	EPA8270
2-Chlorophenol	ug/Kg	< 310		02/27/02	312.5	EPA8270
2-Methylphenol (o-cresol)	ug/Kg	< 310		02/27/02	312.5	EPA8270
4-Methylphenol (p-cresol)	ug/Kg	< 310		02/27/02	312.5	EPA8270
2-Nitrophenol	ug/Kg	< 310		02/27/02	312.5	EPA8270
2,4-Dimethylphenol	ug/Kg	< 310		02/27/02	312.5	EPA8270
2,4-Dichlorophenol	ug/Kg	< 310		02/27/02	312.5	EPA8270
4-Chloro-3-methylphenol	ug/Kg	< 310		02/27/02	312.5	EPA8270
2,4,6-Trichlorophenol	ug/Kg	< 310		02/27/02	312.5	EPA8270
2,4,5-Trichlorophenol	ug/Kg	< 310		02/27/02	312.5	EPA8270
2,4-Dinitrophenol	ug/Kg	< 3100		02/27/02	3125	EPA8270
4-Nitrophenol	ug/Kg	< 3100		02/27/02	3125	EPA8270
2-Methyl-4,6-dinitrophenol	ug/Kg	< 3100		02/27/02	3125	EPA8270
Pentachlorophenol (ms)	ug/Kg	< 3100		02/27/02	3125	EPA8270
% Solids		96		02/26/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR



ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777 • FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO. 220869.01

03/01/02

Blue Water Environmental
1610 New Highway
Farmingdale, NY 11735

ATTN: Mark Soliman

PO#:

SOURCE OF SAMPLE: Former Unisys-Lake Success, #ARCADIS-LMC RCRA Exc.

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D: 02/25/02 RECEIVED: 02/25/02

TIME COL'D: 1330

MATRIX: Soil

SAMPLE: RCRA-C

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF		ANALYTICAL
				ANALYSIS	LRL	
Phenol	ug/Kg	< 310		02/27/02	312.5	EPA8270
2-Chlorophenol	ug/Kg	< 310		02/27/02	312.5	EPA8270
2-Methylphenol (o-cresol)	ug/Kg	< 310		02/27/02	312.5	EPA8270
4-Methylphenol (p-cresol)	ug/Kg	< 310		02/27/02	312.5	EPA8270
2-Nitrophenol	ug/Kg	< 310		02/27/02	312.5	EPA8270
2,4-Dimethylphenol	ug/Kg	< 310		02/27/02	312.5	EPA8270
2,4-Dichlorophenol	ug/Kg	< 310		02/27/02	312.5	EPA8270
4-Chloro-3-methylphenol	ug/Kg	< 310		02/27/02	312.5	EPA8270
2,4,6-Trichlorophenol	ug/Kg	< 310		02/27/02	312.5	EPA8270
2,4,5-Trichlorophenol	ug/Kg	< 310		02/27/02	312.5	EPA8270
2,4-Dinitrophenol	ug/Kg	< 3100		02/27/02	3125	EPA8270
4-Nitrophenol	ug/Kg	< 3100		02/27/02	3125	EPA8270
2-Methyl-4,6-dinitrophenol	ug/Kg	< 3100		02/27/02	3125	EPA8270
Pentachlorophenol (ms)	ug/Kg	< 3100		02/27/02	3125	EPA8270
% Solids		96		02/26/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

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ENVIRONMENTAL TESTING

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LAB NO.220869.01

03/01/02

Blue Water Environmental
1610 New Highway
Farmingdale, NY 11735

ATTN: Mark Soliman

PO#:

SOURCE OF SAMPLE: Former Unisys-Lake Success, #ARCADIS-LMC RCRA Exc.

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:02/25/02 RECEIVED:02/25/02

TIME COL'D:1330

MATRIX:Extract SAMPLE: RCRA-C
Soil
TCLP

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
2-Methylphenol (o-cresol)	ug/L	< 10		02/27/02	10	EPA8270
3-Methylphenol (m-cresol)	ug/L	< 10		02/27/02	10	EPA8270
4-Methylphenol (p-cresol)	ug/L	< 10		02/27/02	10	EPA8270
Pentachlorophenol (ms)	ug/L	< 100		02/27/02	100	EPA8270
2,4,5-Trichlorophenol	ug/L	< 10		02/27/02	10	EPA8270
2,4,6-Trichlorophenol	ug/L	< 10		02/27/02	10	EPA8270
2,4-Dinitrotoluene	ug/L	< 10		02/27/02	10	EPA8270
Hexachlorobenzene	ug/L	< 10		02/27/02	10	EPA8270
1,2-Dichlorobutadiene	ug/L	< 10		02/27/02	10	EPA8270
1,1-Dichloroethane	ug/L	< 10		02/27/02	10	EPA8270
Nitrobenzene	ug/L	< 10		02/27/02	10	EPA8270
Pyridine	ug/L	< 10		02/27/02	10	EPA8270

TCLP Extraction

02/25/02

EPA1311

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR 

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ENVIRONMENTAL TESTING

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LAB NO. 220869.01

03/01/02

Blue Water Environmental
1610 New Highway
Farmingdale, NY 11735

ATTN: Mark Soliman

PO#:

SOURCE OF SAMPLE: Former Unisys-Lake Success, #ARCADIS-LMC RCRA Exc.

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D: 02/25/02 RECEIVED: 02/25/02

TIME COL'D: 1330

MATRIX: Extract SAMPLE: RCRA-G

Soil

TCLP

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
2-Methylphenol (o-cresol)	ug/L	< 10		02/27/02	10	EPA8270
3-Methylphenol (m-cresol)	ug/L	< 10		02/27/02	10	EPA8270
4-Methylphenol (p-cresol)	ug/L	< 10		02/27/02	10	EPA8270
Pentachlorophenol (ms)	ug/L	< 100		02/27/02	100	EPA8270
2,4,5-Trichlorophenol	ug/L	< 10		02/27/02	10	EPA8270
2,4,6-Trichlorophenol	ug/L	< 10		02/27/02	10	EPA8270
2,4-Dinitrotoluene	ug/L	< 10		02/27/02	10	EPA8270
Hexachlorobenzene	ug/L	< 10		02/27/02	10	EPA8270
achlorobutadiene	ug/L	< 10		02/27/02	10	EPA8270
hexachloroethane	ug/L	< 10		02/27/02	10	EPA8270
Nitrobenzene	ug/L	< 10		02/27/02	10	EPA8270
Pyridine	ug/L	< 10		02/27/02	10	EPA8270

TCLP Extraction

02/25/02

EPA1311

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR 

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LAB NO. 220869.01

03/01/02

Blue Water Environmental
1610 New Highway
Farmingdale, NY 11735

ATTN: Mark Soliman

PO#:

SOURCE OF SAMPLE: Former Unisys-Lake Success, #ARCADIS-LMC RCRA Exc.

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D: 02/25/02 RECEIVED: 02/25/02

TIME COL'D: 1330

MATRIX: Extract SAMPLE: RCRA-C
Soil
TCLP

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Arsenic as As	mg/L	< 0.05		02/26/02	0.05	EPA6010
Barium as Ba	mg/L	0.39		02/26/02	0.05	EPA6010
Cadmium as Cd	mg/L	< 0.05		02/26/02	0.05	EPA6010
Chromium as Cr	mg/L	< 0.05		02/26/02	0.05	EPA6010
Lead as Pb	mg/L	< 0.05		02/26/02	0.05	EPA6010
Mercury as Hg	mg/L	< 0.001		02/27/02	0.001	EPA7470A
Selenium as Se	mg/L	< 0.1		02/26/02	0.1	EPA7740
Silver as Ag	mg/L	< 0.05		02/26/02	0.05	EPA6010
Copper as Cu	mg/L	0.11		02/26/02	0.1	EPA6010
Manganese as Mn	mg/L	0.67		02/26/02	0.1	EPA6010
Nickel as Ni	mg/L	< 0.1		02/26/02	0.1	EPA6010
TCLP Extraction				02/25/02		EPA1311

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR



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LAB NO.220869.01

03/01/02

Blue Water Environmental
1610 New Highway
Farmingdale, NY 11735

ATTN: Mark Soliman

PO#:

SOURCE OF SAMPLE: Former Unisys-Lake Success, #ARCADIS-LMC RCRA Exc.

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:02/25/02 RECEIVED:02/25/02

TIME COL'D:1330

MATRIX:Extract SAMPLE: RCRA-C

Soil

TCLP

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Arsenic as As	mg/L	< 0.05		02/26/02	0.05	EPA6010
Barium as Ba	mg/L	0.39		02/26/02	0.05	EPA6010
Cadmium as Cd	mg/L	< 0.05		02/26/02	0.05	EPA6010
Chromium as Cr	mg/L	< 0.05		02/26/02	0.05	EPA6010
Lead as Pb	mg/L	< 0.05		02/26/02	0.05	EPA6010
Mercury as Hg	mg/L	< 0.001		02/27/02	0.001	EPA7470A
Selenium as Se	mg/L	< 0.1		02/26/02	0.1	EPA7740
Silver as Ag	mg/L	< 0.05		02/26/02	0.05	EPA6010
per as Cu	mg/L	0.11		02/26/02	0.1	EPA6010
anc as Zn	mg/L	0.67		02/26/02	0.1	EPA6010
Nickel as Ni	mg/L	< 0.1		02/26/02	0.1	EPA6010
TCLP Extraction				02/25/02		EPA1311

cc:

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REMARKS:

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.220869.01

03/01/02

Blue Water Environmental
1610 New Highway
Farmingdale, NY 11735

ATTN: Mark Soliman

PO#:

SOURCE OF SAMPLE: Former Unisys-Lake Success, #ARCADIS-LMC RCRA Exc.

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:02/25/02 RECEIVED:02/25/02

TIME COL'D:1330

MATRIX:Extract SAMPLE: RCRA-C
Soil
TCLP

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Carbon Tetrachloride	ug/L	< 1		02/27/02	1	EPA8260
Chlorobenzene	ug/L	< 1		02/27/02	1	EPA8260
Chloroform	ug/L	< 1		02/27/02	1	EPA8260
1,4 Dichlorobenzene (v)	ug/L	< 1		02/27/02	1	EPA8260
1,2 Dichloroethane	ug/L	< 1		02/27/02	1	EPA8260
1,1 Dichloroethene	ug/L	< 1		02/27/02	1	EPA8260
Methyl Ethyl Ketone	ug/L	< 10		02/27/02	10	EPA8260
Tetrachloroethene	ug/L	< 1		02/27/02	1	EPA8260
chloroethylene	ug/L	< 1		02/27/02	1	EPA8260
Vinyl Chloride	ug/L	< 1		02/27/02	1	EPA8260
Benzene	ug/L	< 1		02/27/02	1	EPA8260
TCLP Zero Headspace Extract				02/25/02		EPA1311

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR 

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ENVIRONMENTAL TESTING

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO. 220869.01

03/01/02

Blue Water Environmental
1610 New Highway
Farmingdale, NY 11735

ATTN: Mark Soliman

P0#:

SOURCE OF SAMPLE: Former Unisys-Lake Success, #ARCADIS-LMC RCRA Exc.

SOURCE OF SAMPLE:

COLLECTED BY: Client DATE COL'D: 02/25/02 RECEIVED: 02/25/02

TIME COL'D: 1330

MATRIX: Soil SAMPLE: RCRA-C

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Aroclor 1016	ug/Kg	< 42		02/27/02	41.666	EPA8082
Aroclor 1221	ug/Kg	< 42		02/27/02	41.666	EPA8082
Aroclor 1232	ug/Kg	< 42		02/27/02	41.666	EPA8082
Aroclor 1242	ug/Kg	< 42		02/27/02	41.666	EPA8082
Aroclor 1248	ug/Kg	< 42		02/27/02	41.666	EPA8082
Aroclor 1254	ug/Kg	< 42		02/27/02	41.666	EPA8082
Aroclor 1260	ug/Kg	130		02/27/02	41.666	EPA8082
solids		96		02/26/02	0.1	SM182540G
Tot.Organic Halogens	mg/Kg	< 10	*	02/26/02	10.416	EPA9020
TotalPet.Hydro.(GC)	mg/Kg	410		02/26/02	20.833	EPA8015
Flash Point deg C		> 100		02/25/02	25	EPA SW1010
Sulfur, % by Weight		0.05	**	02/27/02		ASTM D4239

cc:

LRL=Laboratory Reporting Limit

REMARKS: * TOX analysis was performed by ELAP Lab #11693.
** Sulfur analysis was performed by Standard Labs, PA.

DIRECTOR



ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

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LAB NO.220869.01

03/01/02

Blue Water Environmental
1610 New Highway
Farmingdale, NY 11735

ATTN: Mark Soliman

PO#:

SOURCE OF SAMPLE: Former Unisys-Lake Success, #ARCADIS-LMC RCRA Exc.

SOURCE OF SAMPLE:

COLLECTED BY: Client DATE COL'D:02/25/02 RECEIVED:02/25/02

TIME COL'D:1330

MATRIX:Soil

SAMPLE: RCRA-C

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF		ANALYTICAL METHOD
				ANALYSIS	LRL	
Aroclor 1016	ug/Kg	< 42		02/27/02	41.666	EPA8082
Aroclor 1221	ug/Kg	< 42		02/27/02	41.666	EPA8082
Aroclor 1232	ug/Kg	< 42		02/27/02	41.666	EPA8082
Aroclor 1242	ug/Kg	< 42		02/27/02	41.666	EPA8082
Aroclor 1248	ug/Kg	< 42		02/27/02	41.666	EPA8082
Aroclor 1254	ug/Kg	< 42		02/27/02	41.666	EPA8082
Aroclor 1260	ug/Kg	130		02/27/02	41.666	EPA8082
solids		96		02/26/02	0.1	SM182540G
Tot.Organic Halogens	mg/Kg	< 10	*	02/26/02	10.416	EPA9020
TotalPet.Hydro.(GC)	mg/Kg	410		02/26/02	20.833	EPA8015
Flash Point deg C		> 100		02/25/02	25	EPA SW1010
Sulfur, % by Weight		0.05	**	02/27/02		ASTM D4239

cc:

LRL=Laboratory Reporting Limit

REMARKS: * TOX analysis was performed by ELAP Lab #11693.
** Sulfur analysis was performed by Standard Labs, PA.

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com
LAB NO.220869.01 03/01/02

Blue Water Environmental
1610 New Highway
Farmingdale, NY 11735

ATTN: Mark Soliman

PO#:

SOURCE OF SAMPLE: Former Unisys-Lake Success, #ARCADIS-LMC RCRA Exc.

SOURCE OF SAMPLE:

COLLECTED BY: Client DATE COL'D:02/25/02 RECEIVED:02/25/02

TIME COL'D:1330

MATRIX:Extract SAMPLE: RCRA-C

Soil

TCLP

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Carbon Tetrachloride	ug/L	< 1		02/27/02	1	EPA8260
Chlorobenzene	ug/L	< 1		02/27/02	1	EPA8260
Chloroform	ug/L	< 1		02/27/02	1	EPA8260
1,4 Dichlorobenzene (v)	ug/L	< 1		02/27/02	1	EPA8260
1,2 Dichloroethane	ug/L	< 1		02/27/02	1	EPA8260
1,1 Dichloroethene	ug/L	< 1		02/27/02	1	EPA8260
Methyl Ethyl Ketone	ug/L	< 10		02/27/02	10	EPA8260
Tetrachloroethene	ug/L	< 1		02/27/02	1	EPA8260
chloroethylene	ug/L	< 1		02/27/02	1	EPA8260
Vinyl Chloride	ug/L	< 1		02/27/02	1	EPA8260
Benzene	ug/L	< 1		02/27/02	1	EPA8260
TCLP Zero Headspace Extract				02/25/02		EPA1311

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR 

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LAB NO. 220869.02

03/01/02

Blue Water Environmental
1610 New Highway
Farmingdale, NY 11735

ATTN: Mark Soliman

P0#:

SOURCE OF SAMPLE: Former Unisys-Lake Success, #ARCADIS-LMC RCRA Exc.

SOURCE OF SAMPLE:

COLLECTED BY: Client DATE COL'D: 02/25/02 RECEIVED: 02/25/02

TIME COL'D: 1330

MATRIX: Soil SAMPLE: RCRA-C1

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
TotalPet.Hydro.(GC)	mg/Kg	220		02/26/02	4.2105	EPA8015
% Solids		95		02/26/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR 

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LAB NO. 220869.02

03/01/02

Blue Water Environmental
1610 New Highway
Farmingdale, NY 11735

ATTN: Mark Soliman

PO#:

SOURCE OF SAMPLE: Former Unisys-Lake Success, #ARCADIS-LMC RCRA Exc.

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D: 02/25/02 RECEIVED: 02/25/02

TIME COL'D: 1330

MATRIX: Soil

SAMPLE: RCRA-C1

Results reported on a dry weight basis

ANALYTICAL PARAMETERS

UNITS RESULT

DATE OF ANALYSIS LRL ANALYTICAL METHOD

TotalPet.Hydro.(GC)

mg/Kg 220

02/26/02 4.2105

EPA8015

% Solids

95

02/26/02 0.1

SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR 

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.220869.03

03/01/02

Blue Water Environmental
1610 New Highway
Farmingdale, NY 11735

ATTN: Mark Soliman

PO#:

SOURCE OF SAMPLE: Former Unisys-Lake Success, #ARCADIS-LMC RCRA Exc.

SOURCE OF SAMPLE:

COLLECTED BY: Client DATE COL'D:02/25/02 RECEIVED:02/25/02

TIME COL'D:1330

MATRIX:Soil

SAMPLE: RCRA-C2

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
TotalPet.Hydro.(GC)	mg/Kg 190		02/26/02	4.1666	EPA8015
% Solids	96		02/26/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR



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Email: ecotestlab@aol.com Website: www.ecotestlabs.com
LAB NO.220869.04 03/01/02

Blue Water Environmental
1610 New Highway
Farmingdale, NY 11735

ATTN: Mark Soliman

PO#:

SOURCE OF SAMPLE: Former Unisys-Lake Success, #ARCADIS-LMC RCRA Exc.

SOURCE OF SAMPLE:

COLLECTED BY: Client DATE COL'D:02/25/02 RECEIVED:02/25/02

TIME COL'D:1330

MATRIX:Soil SAMPLE: RCRA-C3

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
TotalPet.Hydro.(GC)	mg/Kg	390		02/26/02	4.2105	EPA8015
% Solids		95		02/26/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR 

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LAB NO. 220869.03

03/01/02

Blue Water Environmental
1610 New Highway
Farmingdale, NY 11735

ATTN: Mark Soliman

PO#:

SOURCE OF SAMPLE: Former Unisys-Lake Success, #ARCADIS-LMC RCRA Exc.

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D: 02/25/02 RECEIVED: 02/25/02

TIME COL'D: 1330

MATRIX: Soil

SAMPLE: RCRA-C2

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
TotalPet.Hydro. (GC)	mg/Kg	190		02/26/02	4.1666	EPA8015
% Solids		96		02/26/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

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ATTN: Mark Soliman

PO#:

SOURCE OF SAMPLE: Former Unisys-Lake Success, #ARCADIS-LMC RCRA/Exc

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D: 02/25/02 RECEIVED: 02/25/02

TIME COL'D: 1330

MATRIX: Soil

SAMPLE: RCRA-C3

Results reported on a dry weight basis

ANALYTICAL PARAMETERS

TotalPet.Hydro. (GC)

% Solids

UNITS RESULT

mg/Kg 390

95

FLAG ANALYSIS LRL

DATE OF ANALYTICAL

02/26/02 4.2105 EPA8015

02/26/02 0.1 SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR 

ECO TEST LABORATORIES, INC. • ENVIRONMENTAL TESTING

77 Sheffield Avenue, North Babylon, New York 11703

(631) 422-5777 • FAX (631) 422-5770

CHAIN OF CUSTODY RECORD

Client: BLUE WATER ENV. (BWE)
 Address: 1610 NEW HIGHWAY
FARMINGDALE, NY 11735
 Phone: 631-249-1872 - 2x FAX: 631-752-3008
 Person receiving report: MARK SELIMAN
 Sampled by: MARK SELIMAN
 Source: FORMER UNISYS - LAKE JUCOSKY
 Job No.: ALCA 015 - LMC RCRA Exc.

TOTAL NUMBER OF CONTAINERS		TYPE & NUMBER OF CONTAINERS	
5	X	SVMS	8270B
1	X	TOX	8023
1	X	PCBs	8081
1	X	Ignitibility	-1030
1	X	Total Solids	-D4239
1	X	ICLP Metals	1311/8010
1	X	ICLPCMA + Cyanide	874
1	X	ICLPCMA + Cyanide (SVO EX DYC)	8015

MATRIX (Soil, Water, etc.)	COLLECTED		SAMPLE IDENTIFICATION	TOTAL NUMBER OF CONTAINERS													REMARKS - TESTS REQUIRED, SPECIAL TURNAROUND, SPECIAL Q.C. etc				
	DATE	TIME		SVMS	TOX	PCBs	Ignitibility	Total Solids	ICLP Metals	ICLPCMA + Cyanide	ICLPCMA + Cyanide (SVO EX DYC)	Other	Other	Other	Other	Other		Other	Other	Other	
S	2/25/02	1:30	RCRA-C	5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	} ASAP TURNAROUND (BY THURSDAY MORNING) - 2.28.02 -	
↓	↓	↓	RCRA-C1	1																	
↓	↓	↓	RCRA-C2	1																	
↓	↓	↓	RCRA-C3	1																	

Relinquished by: (Signature) <i>Mark Seliman</i>	DATE/TIME 2/25/02	SEAL INTACT? YES NO NA	Received by: (Signature) <i>Mark Seliman</i>	Relinquished by: (Signature)	DATE/TIME	SEAL INTACT? YES NO NA	Received by: (Signature)
Representing: B.W.E.			Representing:	Representing:			Representing:
Relinquished by: (Signature)	DATE/TIME	SEAL INTACT? YES NO NA	Received by: (Signature)	Relinquished by: (Signature)	DATE/TIME	SEAL INTACT? YES NO NA	Received by: (Signature)
Representing:			Representing:	Representing:			Representing:

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

Phone - 631-249-1456 Fax - 631-249-8344

02/20/2002

Custody Document: N9157

Received: 02/15/2002 16:41

Sampled by: Mark Soliman

Client: Blue Waters (11260)

1610 New Highway
Farmingdale,
NY 11735

Project: LMC RCRA Exe.

365 Lakeville Road
Lake Success,
NY

Manager: M. Soliman

Respectfully submitted,

Patricia Werner-Els

Quality Assurance Officer

NYS Lab ID # 10969
NJ Cert. # 73812
CT Cert. # PH0645
MA Cert. # NY061
PA Cert. # 68-535
VA Cert. # 108
NH Cert. # 252592-BA
RI Cert. # 161



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/20/2002

Volatiles - EPA 8260B

Sample: N9157-1

Client Sample ID: LMCRCRA 1

Matrix: Soil

Type: Composite

Collected: 02/15/2002 14:00

% Solid: 90.8%

Remarks: See Case Narrative

Analyzed Date: 02/19/2002

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	D 11 -1026	0.14	0.14	ppb	U
75-45-6	Chlorodifluoromethane	D 11 -1026	0.25	0.25	ppb	U
74-87-3	Chloromethane	D 11 -1026	0.33	0.33	ppb	U
75-01-4	Vinyl Chloride	D 11 -1026	0.33	0.33	ppb	U
74-83-9	Bromomethane	D 11 -1026	0.29	0.29	ppb	U
75-00-3	Chloroethane	D 11 -1026	0.33	0.33	ppb	U
75-69-4	Trichlorofluoromethane	D 11 -1026	0.21	0.21	ppb	U
76-13-1	1,1,2-Trichlorotrifluoroethane	D 11 -1026	0.69	4.40	ppb	
75-35-4	1,1-Dichloroethene	D 11 -1026	0.91	0.91	ppb	U
67-64-1	Acetone	D 11 -1026	7.39	1.40	ppb	J
75-15-0	Carbon disulfide	D 11 -1026	0.21	0.21	ppb	U
75-09-2	Methylene Chloride	D 11 -1026	0.35	0.35	ppb	U
156-60-5	t-1,2-Dichloroethene	D 11 -1026	0.31	0.31	ppb	U
1634-04-4	Methyl t-butyl ether	D 11 -1026	0.36	1.40	ppb	
75-34-3	1,1-Dichloroethane	D 11 -1026	0.26	0.26	ppb	U
590-20-7	2,2-Dichloropropane	D 11 -1026	0.33	0.33	ppb	U
156-59-2	c-1,2-Dichloroethene	D 11 -1026	0.22	0.22	ppb	U
78-93-3	2-Butanone	D 11 -1026	5.50	5.50	ppb	U
74-97-5	Bromochloromethane	D 11 -1026	0.50	0.50	ppb	U
67-66-3	Chloroform	D 11 -1026	0.19	0.19	ppb	U
71-55-6	1,1,1-Trichloroethane	D 11 -1026	0.66	0.66	ppb	U
56-23-5	Carbon Tetrachloride	D 11 -1026	0.26	0.26	ppb	U
563-58-6	1,1-Dichloropropene	D 11 -1026	0.58	0.58	ppb	U
71-43-2	Benzene	D 11 -1026	0.18	0.18	ppb	U
107-06-2	1,2-Dichloroethane	D 11 -1026	0.13	0.13	ppb	U
79-01-6	Trichloroethene	D 11 -1026	0.23	0.23	ppb	U
78-87-5	1,2-Dichloropropane	D 11 -1026	0.29	0.29	ppb	U
74-95-3	Dibromomethane	D 11 -1026	0.33	0.33	ppb	U
75-27-4	Bromodichloromethane	D 11 -1026	0.15	0.15	ppb	U
110-75-8	2-Chloroethylvinylether	D 11 -1026	0.62	0.62	ppb	U
10061-01-5	c-1,3-Dichloropropene	D 11 -1026	0.30	0.30	ppb	U
108-10-1	4-Methyl-2-pentanone	D 11 -1026	5.50	5.50	ppb	U
108-88-3	Toluene	D 11 -1026	0.17	0.17	ppb	U
10061-02-6	t-1,3-Dichloropropene	D 11 -1026	0.30	0.30	ppb	U
79-00-5	1,1,2-Trichloroethane	D 11 -1026	0.33	0.33	ppb	U
127-18-4	Tetrachloroethene	D 11 -1026	0.11	2.90	ppb	



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/20/2002

Volatiles - EPA 8260B

Sample: N9157-1...continue

Client Sample ID: LMCRCRA 1

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 02/19/2002

Type: Composite

Collected: 02/15/2002 14:00

% Solid: 90.8%

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
142-28-9	1,3-Dichloropropane	D 11 -1026	0.19	0.19	ppb	U
591-78-6	2-Hexanone	D 11 -1026	5.50	5.50	ppb	U
124-48-1	Dibromochloromethane	D 11 -1026	0.97	0.97	ppb	U
106-93-4	1,2-Dibromoethane	D 11 -1026	0.34	0.34	ppb	U
108-90-7	Chlorobenzene	D 11 -1026	0.20	0.20	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	D 11 -1026	0.20	0.20	ppb	U
100-41-4	Ethylbenzene	D 11 -1026	0.19	0.19	ppb	U
108-38-3	m,p-xylene	D 11 -1026	0.23	0.23	ppb	U
95-47-6	o-xylene	D 11 -1026	0.17	0.17	ppb	U
100-42-5	Styrene	D 11 -1026	0.11	0.11	ppb	U
75-25-2	Bromoform	D 11 -1026	0.32	0.32	ppb	U
98-82-8	Isopropylbenzene	D 11 -1026	0.14	0.14	ppb	U
108-86-1	Bromobenzene	D 11 -1026	0.23	0.23	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	D 11 -1026	0.44	0.44	ppb	U
103-65-1	n-Propylbenzene	D 11 -1026	0.21	0.21	ppb	U
96-18-4	1,2,3-Trichloropropane	D 11 -1026	0.44	0.44	ppb	U
622-96-8	p-Ethyltoluene	D 11 -1026	0.13	0.13	ppb	U
108-67-8	1,3,5-Trimethylbenzene	D 11 -1026	0.37	0.37	ppb	U
95-49-8	2-Chlorotoluene	D 11 -1026	0.32	0.32	ppb	U
106-43-4	4-Chlorotoluene	D 11 -1026	0.41	0.41	ppb	U
98-06-6	tert-Butylbenzene	D 11 -1026	0.18	0.18	ppb	U
95-63-6	1,2,4-Trimethylbenzene	D 11 -1026	17.6	17.6	ppb	U
135-98-8	sec-Butylbenzene	D 11 -1026	0.18	0.18	ppb	U
99-87-6	4-Isopropyltoluene	D 11 -1026	0.11	0.11	ppb	U
541-73-1	1,3-Dichlorobenzene	D 11 -1026	0.18	0.18	ppb	U
106-46-7	1,4-Dichlorobenzene	D 11 -1026	0.15	0.15	ppb	U
95-50-1	1,2-Dichlorobenzene	D 11 -1026	0.22	0.22	ppb	U
105-05-5	p-Diethylbenzene	D 11 -1026	0.088	0.088	ppb	U
104-51-8	n-Butylbenzene	D 11 -1026	0.099	0.099	ppb	U
95-93-2	1,2,4,5-Tetramethylbenzene	D 11 -1026	0.088	0.088	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	D 11 -1026	0.80	0.80	ppb	U
120-82-1	1,2,4-Trichlorobenzene	D 11 -1026	0.12	0.12	ppb	U
87-68-3	Hexachlorobutadiene	D 11 -1026	0.33	0.33	ppb	U
91-20-3	Naphthalene	D 11 -1026	0.33	0.33	ppb	U
87-61-6	1,2,3-Trichlorobenzene	D 11 -1026	0.18	0.18	ppb	U



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

Phone - 631-249-1456 Fax - 631-249-8344

02/20/2002

Volatiles - EPA 8260B

Sample: N9157-1...continue

Client Sample ID: LMCRCRA 1

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 02/19/2002

Type: Composite

Collected: 02/15/2002 14:00

% Solid: 90.8%

Cas No	Surrogate	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	D1119-1026	110.0 %	(77 - 123)	
2037-26-5	TOLUENE-D8	D1119-1026	93.7 %	(73 - 127)	
4774-33-8	DIBROMOFLUOROMETHANE	D1119-1026	106.0 %	(62 - 138)	



Environmental Testing Laboratories, Inc.

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02/20/2002

Volatiles - EPA 8260B

Sample: N9157-2

Client Sample ID: LMCRCRA 2

Matrix: Soil

Type: Composite

Collected: 02/15/2002 14:00

% Solid: 89%

Remarks: See Case Narrative

Analyzed Date: 02/19/2002

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	D 11 -1027	0.15	0.15	ppb	U
75-45-6	Chlorodifluoromethane	D 11 -1027	0.26	0.26	ppb	U
74-87-3	Chloromethane	D 11 -1027	0.34	0.34	ppb	U
75-01-4	Vinyl Chloride	D 11 -1027	0.34	0.34	ppb	U
74-83-9	Bromomethane	D 11 -1027	0.29	0.29	ppb	U
75-00-3	Chloroethane	D 11 -1027	0.34	0.34	ppb	U
75-69-4	Trichlorofluoromethane	D 11 -1027	0.21	0.21	ppb	U
76-13-1	1,1,2-Trichlorotrifluoroethane	D 11 -1027	0.71	4.30	ppb	
75-35-4	1,1-Dichloroethene	D 11 -1027	0.93	0.93	ppb	U
67-64-1	Acetone	D 11 -1027	7.53	7.53	ppb	U
75-15-0	Carbon disulfide	D 11 -1027	0.21	0.21	ppb	U
75-09-2	Methylene Chloride	D 11 -1027	0.36	13.0	ppb	B
156-60-5	t-1,2-Dichloroethene	D 11 -1027	0.31	0.31	ppb	U
1634-04-4	Methyl t-butyl ether	D 11 -1027	0.37	1.80	ppb	
75-34-3	1,1-Dichloroethane	D 11 -1027	0.27	0.27	ppb	U
590-20-7	2,2-Dichloropropane	D 11 -1027	0.34	0.34	ppb	U
156-59-2	c-1,2-Dichloroethene	D 11 -1027	0.22	0.22	ppb	U
78-93-3	2-Butanone	D 11 -1027	5.60	5.60	ppb	U
74-97-5	Bromochloromethane	D 11 -1027	0.50	0.50	ppb	U
67-66-3	Chloroform	D 11 -1027	0.19	0.19	ppb	U
71-55-6	1,1,1-Trichloroethane	D 11 -1027	0.67	0.67	ppb	U
56-23-5	Carbon Tetrachloride	D 11 -1027	0.27	0.27	ppb	U
563-58-6	1,1-Dichloropropene	D 11 -1027	0.59	0.59	ppb	U
71-43-2	Benzene	D 11 -1027	0.18	0.18	ppb	U
107-06-2	1,2-Dichloroethane	D 11 -1027	0.13	0.13	ppb	U
79-01-6	Trichloroethene	D 11 -1027	0.24	0.24	ppb	U
78-87-5	1,2-Dichloropropane	D 11 -1027	0.29	0.29	ppb	U
74-95-3	Dibromomethane	D 11 -1027	0.34	0.34	ppb	U
75-27-4	Bromodichloromethane	D 11 -1027	0.16	0.16	ppb	U
110-75-8	2-Chloroethylvinylether	D 11 -1027	0.63	0.63	ppb	U
10061-01-5	c-1,3-Dichloropropene	D 11 -1027	0.30	0.30	ppb	U
108-10-1	4-Methyl-2-pentanone	D 11 -1027	5.60	5.60	ppb	U
108-88-3	Toluene	D 11 -1027	0.17	0.17	ppb	U
10061-02-6	t-1,3-Dichloropropene	D 11 -1027	0.30	0.30	ppb	U
79-00-5	1,1,2-Trichloroethane	D 11 -1027	0.34	0.34	ppb	U
127-18-4	Tetrachloroethene	D 11 -1027	0.11	2.80	ppb	



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

Phone - 631-249-1456 Fax - 631-249-8344

02/20/2002

Volatiles - EPA 8260B

Sample: N9157-2...continue

Client Sample ID: LMCRCRA 2

Matrix: Soil

Type: Composite

Collected: 02/15/2002 14:00

% Solid: 89%

Remarks: See Case Narrative

Analyzed Date: 02/19/2002

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
142-28-9	1,3-Dichloropropane	D 11 -1027	0.19	0.19	ppb	U
591-78-6	2-Hexanone	D 11 -1027	5.60	5.60	ppb	U
124-48-1	Dibromochloromethane	D 11 -1027	0.99	0.99	ppb	U
106-93-4	1,2-Dibromoethane	D 11 -1027	0.35	0.35	ppb	U
108-90-7	Chlorobenzene	D 11 -1027	0.20	0.20	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	D 11 -1027	0.20	0.20	ppb	U
100-41-4	Ethylbenzene	D 11 -1027	0.19	0.19	ppb	U
108-38-3	m,p-xylene	D 11 -1027	0.24	0.24	ppb	U
95-47-6	o-xylene	D 11 -1027	0.17	0.17	ppb	U
100-42-5	Styrene	D 11 -1027	0.11	0.11	ppb	U
75-25-2	Bromoform	D 11 -1027	0.32	0.32	ppb	U
98-82-8	Isopropylbenzene	D 11 -1027	0.15	0.15	ppb	U
108-86-1	Bromobenzene	D 11 -1027	0.24	0.24	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	D 11 -1027	0.45	0.45	ppb	U
103-65-1	n-Propylbenzene	D 11 -1027	0.21	0.21	ppb	U
96-18-4	1,2,3-Trichloropropane	D 11 -1027	0.45	0.45	ppb	U
622-96-8	p-Ethyltoluene	D 11 -1027	0.13	0.13	ppb	U
108-67-8	1,3,5-Trimethylbenzene	D 11 -1027	0.38	0.38	ppb	U
95-49-8	2-Chlorotoluene	D 11 -1027	0.32	0.32	ppb	U
106-43-4	4-Chlorotoluene	D 11 -1027	0.41	0.41	ppb	U
98-06-6	tert-Butylbenzene	D 11 -1027	0.18	0.18	ppb	U
95-63-6	1,2,4-Trimethylbenzene	D 11 -1027	17.9	17.9	ppb	U
135-98-8	sec-Butylbenzene	D 11 -1027	0.18	0.18	ppb	U
99-87-6	4-Isopropyltoluene	D 11 -1027	0.11	0.11	ppb	U
541-73-1	1,3-Dichlorobenzene	D 11 -1027	0.18	0.18	ppb	U
106-46-7	1,4-Dichlorobenzene	D 11 -1027	0.16	0.16	ppb	U
95-50-1	1,2-Dichlorobenzene	D 11 -1027	0.22	0.22	ppb	U
105-05-5	p-Diethylbenzene	D 11 -1027	0.090	0.090	ppb	U
104-51-8	n-Butylbenzene	D 11 -1027	0.10	0.10	ppb	U
95-93-2	1,2,4,5-Tetramethylbenzene	D 11 -1027	0.090	0.090	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	D 11 -1027	0.82	0.82	ppb	U
120-82-1	1,2,4-Trichlorobenzene	D 11 -1027	0.12	0.12	ppb	U
87-68-3	Hexachlorobutadiene	D 11 -1027	0.34	0.34	ppb	U
91-20-3	Naphthalene	D 11 -1027	0.34	0.34	ppb	U
87-61-6	1,2,3-Trichlorobenzene	D 11 -1027	0.18	0.18	ppb	U



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

Phone - 631-249-1456 Fax - 631-249-8344

02/20/2002

Volatiles - EPA 8260B

Sample: N9157-2...continue

Client Sample ID: LMCR CRA 2

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 02/19/2002

Type: Composite

Collected: 02/15/2002 14:00

% Solid: 89%

Cas No	Surrogate	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	D1119-1027	106.0 %	(77 - 123)	
2037-26-5	TOLUENE-D8	D1119-1027	93.8 %	(73 - 127)	
4774-33-8	DIBROMOFLUOROMETHANE	D1119-1027	105.0 %	(62 - 138)	



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

Phone - 631-249-1456 Fax - 631-249-8344

02/20/2002

Volatiles - EPA 8260B

Sample: N9157-3

Client Sample ID: LMCRCRA 3

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 02/19/2002

Type: Composite

Collected: 02/15/2002 14:00

% Solid: 89.2%

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	D 11 -1028	0.15	0.15	ppb	U
75-45-6	Chlorodifluoromethane	D 11 -1028	0.26	0.26	ppb	U
74-87-3	Chloromethane	D 11 -1028	0.34	0.34	ppb	U
75-01-4	Vinyl Chloride	D 11 -1028	0.34	0.34	ppb	U
74-83-9	Bromomethane	D 11 -1028	0.29	0.29	ppb	U
75-00-3	Chloroethane	D 11 -1028	0.34	0.34	ppb	U
75-69-4	Trichlorofluoromethane	D 11 -1028	0.21	0.21	ppb	U
76-13-1	1,1,2-Trichlorotrifluoroethane	D 11 -1028	0.71	4.40	ppb	
75-35-4	1,1-Dichloroethene	D 11 -1028	0.93	0.93	ppb	U
67-64-1	Acetone	D 11 -1028	7.53	7.53	ppb	U
75-15-0	Carbon disulfide	D 11 -1028	0.21	0.21	ppb	U
75-09-2	Methylene Chloride	D 11 -1028	0.36	0.36	ppb	U
156-60-5	t-1,2-Dichloroethene	D 11 -1028	0.31	0.31	ppb	U
1634-04-4	Methyl t-butyl ether	D 11 -1028	0.37	1.60	ppb	
75-34-3	1,1-Dichloroethane	D 11 -1028	0.27	0.27	ppb	U
590-20-7	2,2-Dichloropropane	D 11 -1028	0.34	0.34	ppb	U
156-59-2	c-1,2-Dichloroethene	D 11 -1028	0.22	0.22	ppb	U
78-93-3	2-Butanone	D 11 -1028	5.60	5.60	ppb	U
74-97-5	Bromochloromethane	D 11 -1028	0.50	0.50	ppb	U
67-66-3	Chloroform	D 11 -1028	0.19	0.19	ppb	U
71-55-6	1,1,1-Trichloroethane	D 11 -1028	0.67	0.67	ppb	U
56-23-5	Carbon Tetrachloride	D 11 -1028	0.27	0.27	ppb	U
563-58-6	1,1-Dichloropropene	D 11 -1028	0.59	0.59	ppb	U
71-43-2	Benzene	D 11 -1028	0.18	0.18	ppb	U
107-06-2	1,2-Dichloroethane	D 11 -1028	0.13	0.13	ppb	U
79-01-6	Trichloroethene	D 11 -1028	0.24	0.24	ppb	U
78-87-5	1,2-Dichloropropane	D 11 -1028	0.29	0.29	ppb	U
74-95-3	Dibromomethane	D 11 -1028	0.34	0.34	ppb	U
75-27-4	Bromodichloromethane	D 11 -1028	0.16	0.16	ppb	U
110-75-8	2-Chloroethylvinylether	D 11 -1028	0.63	0.63	ppb	U
10061-01-5	c-1,3-Dichloropropene	D 11 -1028	0.30	0.30	ppb	U
108-10-1	4-Methyl-2-pentanone	D 11 -1028	5.60	5.60	ppb	U
108-88-3	Toluene	D 11 -1028	0.17	0.17	ppb	U
10061-02-6	t-1,3-Dichloropropene	D 11 -1028	0.30	0.30	ppb	U
79-00-5	1,1,2-Trichloroethane	D 11 -1028	0.34	0.34	ppb	U
127-18-4	Tetrachloroethene	D 11 -1028	0.11	2.60	ppb	



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02/20/2002

Volatiles - EPA 8260B

Sample: N9157-3...continue

Client Sample ID: LMCRCRA 3

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 02/19/2002

Type: Composite

Collected: 02/15/2002 14:00

% Solid: 89.2%

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
142-28-9	1,3-Dichloropropane	D 11 -1028	0.19	0.19	ppb	U
591-78-6	2-Hexanone	D 11 -1028	5.60	5.60	ppb	U
124-48-1	Dibromochloromethane	D 11 -1028	0.99	0.99	ppb	U
106-93-4	1,2-Dibromoethane	D 11 -1028	0.35	0.35	ppb	U
108-90-7	Chlorobenzene	D 11 -1028	0.20	0.20	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	D 11 -1028	0.20	0.20	ppb	U
100-41-4	Ethylbenzene	D 11 -1028	0.19	0.19	ppb	U
108-38-3	m,p-xylene	D 11 -1028	0.24	0.24	ppb	U
95-47-6	o-xylene	D 11 -1028	0.17	0.17	ppb	U
100-42-5	Styrene	D 11 -1028	0.11	0.11	ppb	U
75-25-2	Bromoform	D 11 -1028	0.32	0.32	ppb	U
98-82-8	Isopropylbenzene	D 11 -1028	0.15	0.15	ppb	U
108-86-1	Bromobenzene	D 11 -1028	0.24	0.24	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	D 11 -1028	0.45	0.45	ppb	U
103-65-1	n-Propylbenzene	D 11 -1028	0.21	0.21	ppb	U
96-18-4	1,2,3-Trichloropropane	D 11 -1028	0.45	0.45	ppb	U
622-96-8	p-Ethyltoluene	D 11 -1028	0.13	0.13	ppb	U
108-67-8	1,3,5-Trimethylbenzene	D 11 -1028	0.38	0.38	ppb	U
95-49-8	2-Chlorotoluene	D 11 -1028	0.32	0.32	ppb	U
106-43-4	4-Chlorotoluene	D 11 -1028	0.41	0.41	ppb	U
98-06-6	tert-Butylbenzene	D 11 -1028	0.18	0.18	ppb	U
95-63-6	1,2,4-Trimethylbenzene	D 11 -1028	17.9	17.9	ppb	U
135-98-8	sec-Butylbenzene	D 11 -1028	0.18	0.18	ppb	U
99-87-6	4-Isopropyltoluene	D 11 -1028	0.11	0.11	ppb	U
541-73-1	1,3-Dichlorobenzene	D 11 -1028	0.18	0.18	ppb	U
106-46-7	1,4-Dichlorobenzene	D 11 -1028	0.16	0.16	ppb	U
95-50-1	1,2-Dichlorobenzene	D 11 -1028	0.22	0.22	ppb	U
105-05-5	p-Diethylbenzene	D 11 -1028	0.090	0.090	ppb	U
104-51-8	n-Butylbenzene	D 11 -1028	0.10	0.10	ppb	U
95-93-2	1,2,4,5-Tetramethylbenzene	D 11 -1028	0.090	0.090	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	D 11 -1028	0.82	0.82	ppb	U
120-82-1	1,2,4-Trichlorobenzene	D 11 -1028	0.12	0.12	ppb	U
87-68-3	Hexachlorobutadiene	D 11 -1028	0.34	0.34	ppb	U
91-20-3	Naphthalene	D 11 -1028	0.34	0.34	ppb	U
87-61-6	1,2,3-Trichlorobenzene	D 11 -1028	0.18	0.18	ppb	U



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02/20/2002

Volatiles - EPA 8260B

Sample: N9157-3...continue

Client Sample ID: LMCRCRA 3

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 02/19/2002

Type: Composite

Collected: 02/15/2002 14:00

% Solid: 89.2%

Cas No	Surrogate	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	D1119-1028	102.0 %	(77 - 123)	
2037-26-5	TOLUENE-D8	D1119-1028	95.5 %	(73 - 127)	
4774-33-8	DIBROMOFLUOROMETHANE	D1119-1028	105.0 %	(62 - 138)	



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02/20/2002

Volatiles - EPA 8260B

Sample: N9157-4

Client Sample ID: LMCRCRA 4

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 02/19/2002

Type: Composite

Collected: 02/15/2002 14:00

% Solid: 88.3%

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	D 11 -1029	0.15	0.15	ppb	U
75-45-6	Chlorodifluoromethane	D 11 -1029	0.26	0.26	ppb	U
74-87-3	Chloromethane	D 11 -1029	0.34	0.34	ppb	U
75-01-4	Vinyl Chloride	D 11 -1029	0.34	0.34	ppb	U
74-83-9	Bromomethane	D 11 -1029	0.29	0.29	ppb	U
75-00-3	Chloroethane	D 11 -1029	0.34	0.34	ppb	U
75-69-4	Trichlorofluoromethane	D 11 -1029	0.21	0.21	ppb	U
76-13-1	1,1,2-Trichlorotrifluoroethane	D 11 -1029	0.71	7.50	ppb	
75-35-4	1,1-Dichloroethene	D 11 -1029	0.94	0.94	ppb	U
67-64-1	Acetone	D 11 -1029	7.59	7.59	ppb	U
75-15-0	Carbon disulfide	D 11 -1029	0.21	0.21	ppb	U
75-09-2	Methylene Chloride	D 11 -1029	0.36	0.36	ppb	U
156-60-5	t-1,2-Dichloroethene	D 11 -1029	0.32	0.32	ppb	U
1634-04-4	Methyl t-butyl ether	D 11 -1029	0.37	2.40	ppb	
75-34-3	1,1-Dichloroethane	D 11 -1029	0.27	0.27	ppb	U
590-20-7	2,2-Dichloropropane	D 11 -1029	0.34	0.34	ppb	U
156-59-2	c-1,2-Dichloroethene	D 11 -1029	0.23	0.23	ppb	U
78-93-3	2-Butanone	D 11 -1029	5.65	5.65	ppb	U
74-97-5	Bromochloromethane	D 11 -1029	0.51	0.51	ppb	U
67-66-3	Chloroform	D 11 -1029	0.19	0.19	ppb	U
71-55-6	1,1,1-Trichloroethane	D 11 -1029	0.68	0.68	ppb	U
56-23-5	Carbon Tetrachloride	D 11 -1029	0.27	0.27	ppb	U
563-58-6	1,1-Dichloropropene	D 11 -1029	0.60	0.60	ppb	U
71-43-2	Benzene	D 11 -1029	0.18	0.18	ppb	U
107-06-2	1,2-Dichloroethane	D 11 -1029	0.14	0.14	ppb	U
79-01-6	Trichloroethene	D 11 -1029	0.24	0.24	ppb	U
78-87-5	1,2-Dichloropropane	D 11 -1029	0.29	0.29	ppb	U
74-95-3	Dibromomethane	D 11 -1029	0.34	0.34	ppb	U
75-27-4	Bromodichloromethane	D 11 -1029	0.16	0.16	ppb	U
110-75-8	2-Chloroethylvinylether	D 11 -1029	0.63	0.63	ppb	U
10061-01-5	c-1,3-Dichloropropene	D 11 -1029	0.31	0.31	ppb	U
108-10-1	4-Methyl-2-pentanone	D 11 -1029	5.65	5.65	ppb	U
108-88-3	Toluene	D 11 -1029	0.17	0.17	ppb	U
10061-02-6	t-1,3-Dichloropropene	D 11 -1029	0.31	0.31	ppb	U
79-00-5	1,1,2-Trichloroethane	D 11 -1029	0.34	0.34	ppb	U
127-18-4	Tetrachloroethene	D 11 -1029	0.11	3.50	ppb	



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02/20/2002

Volatiles - EPA 8260B

Sample: N9157-4...continue

Client Sample ID: LMCRCRA 4

Matrix: Soil

Type: Composite

Collected: 02/15/2002 14:00

% Solid: 88.3%

Remarks: See Case Narrative

Analyzed Date: 02/19/2002

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
142-28-9	1,3-Dichloropropane	D 11 -1029	0.19	0.19	ppb	U
591-78-6	2-Hexanone	D 11 -1029	5.65	5.65	ppb	U
124-48-1	Dibromochloromethane	D 11 -1029	0.99	0.99	ppb	U
106-93-4	1,2-Dibromoethane	D 11 -1029	0.35	0.35	ppb	U
108-90-7	Chlorobenzene	D 11 -1029	0.20	0.20	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	D 11 -1029	0.20	0.20	ppb	U
100-41-4	Ethylbenzene	D 11 -1029	0.19	0.19	ppb	U
108-38-3	m,p-xylene	D 11 -1029	0.24	0.24	ppb	U
95-47-6	o-xylene	D 11 -1029	0.17	0.17	ppb	U
100-42-5	Styrene	D 11 -1029	0.11	0.11	ppb	U
75-25-2	Bromoform	D 11 -1029	0.33	0.33	ppb	U
98-82-8	Isopropylbenzene	D 11 -1029	0.15	0.15	ppb	U
108-86-1	Bromobenzene	D 11 -1029	0.24	0.24	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	D 11 -1029	0.45	0.45	ppb	U
103-65-1	n-Propylbenzene	D 11 -1029	0.21	0.21	ppb	U
96-18-4	1,2,3-Trichloropropane	D 11 -1029	0.45	0.45	ppb	U
622-96-8	p-Ethyltoluene	D 11 -1029	0.14	0.14	ppb	U
108-67-8	1,3,5-Trimethylbenzene	D 11 -1029	0.38	0.38	ppb	U
95-49-8	2-Chlorotoluene	D 11 -1029	0.33	0.33	ppb	U
106-43-4	4-Chlorotoluene	D 11 -1029	0.42	0.42	ppb	U
98-06-6	tert-Butylbenzene	D 11 -1029	0.18	0.18	ppb	U
95-63-6	1,2,4-Trimethylbenzene	D 11 -1029	18.1	18.1	ppb	U
135-98-8	sec-Butylbenzene	D 11 -1029	0.18	0.18	ppb	U
99-87-6	4-Isopropyltoluene	D 11 -1029	0.11	0.11	ppb	U
541-73-1	1,3-Dichlorobenzene	D 11 -1029	0.18	0.18	ppb	U
106-46-7	1,4-Dichlorobenzene	D 11 -1029	0.16	0.16	ppb	U
95-50-1	1,2-Dichlorobenzene	D 11 -1029	0.23	0.23	ppb	U
105-05-5	p-Diethylbenzene	D 11 -1029	0.090	0.090	ppb	U
104-51-8	n-Butylbenzene	D 11 -1029	0.10	0.10	ppb	U
95-93-2	1,2,4,5-Tetramethylbenzene	D 11 -1029	0.090	0.090	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	D 11 -1029	0.82	0.82	ppb	U
120-82-1	1,2,4-Trichlorobenzene	D 11 -1029	0.12	0.12	ppb	U
87-68-3	Hexachlorobutadiene	D 11 -1029	0.34	0.34	ppb	U
91-20-3	Naphthalene	D 11 -1029	0.34	0.34	ppb	U
87-61-6	1,2,3-Trichlorobenzene	D 11 -1029	0.18	0.18	ppb	U



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02/20/2002

Volatiles - EPA 8260B

Sample: N9157-4...continue

Client Sample ID: LMCRCA 4

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 02/19/2002

Type: Composite

Collected: 02/15/2002 14:00

% Solid: 88.3%

Gas No	Surrogate	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	D1119-1029	102.0 %	(77 - 128)	
2037-26-5	TOLUENE-D8	D1119-1029	92.6 %	(73 - 127)	
4774-33-8	DIBROMOFLUOROMETHANE	D1119-1029	111.0 %	(62 - 138)	



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02/20/2002

TCLP Volatile Compounds - EPA 8260B

Sample: N9157-1

Client Sample ID: LMCRCRA 1

Matrix: Soil

Type: Composite

Collected: 02/15/2002 14:00

% Solid: 90.8%

Remarks: See Case Narrative

Analyzed Date: 02/20/2002

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	A 466-6917	0.0026	0.0026	ppm	U
74-87-3	Chloromethane	A 466-6917	0.0037	0.0037	ppm	U
75-01-4	Vinyl Chloride	A 466-6917	0.00070	0.00070	ppm	U
74-83-9	Bromomethane	A 466-6917	0.0045	0.0045	ppm	U
75-00-3	Chloroethane	A 466-6917	0.0018	0.0018	ppm	U
75-69-4	Trichlorofluoromethane	A 466-6917	0.0023	0.0023	ppm	U
75-35-4	1,1-Dichloroethene	A 466-6917	0.0014	0.0014	ppm	U
75-09-2	Methylene Chloride	A 466-6917	0.0015	0.0015	ppm	U
156-60-5	t-1,2-Dichloroethene	A 466-6917	0.0014	0.0014	ppm	U
75-34-3	1,1-Dichloroethane	A 466-6917	0.0012	0.0012	ppm	U
590-20-7	2,2-Dichloropropane	A 466-6917	0.0030	0.0030	ppm	U
156-59-2	c-1,2-Dichloroethene	A 466-6917	0.0014	0.0014	ppm	U
67-66-3	Chloroform	A 466-6917	0.0015	0.0015	ppm	U
74-97-5	Bromochloromethane	A 466-6917	0.0021	0.0021	ppm	U
71-55-6	1,1,1-Trichloroethane	A 466-6917	0.0016	0.0016	ppm	U
563-58-6	1,1-Dichloropropene	A 466-6917	0.0067	0.0067	ppm	U
56-23-5	Carbon Tetrachloride	A 466-6917	0.0013	0.0013	ppm	U
107-06-2	1,2-Dichloroethane	A 466-6917	0.0013	0.0013	ppm	U
71-43-2	Benzene	A 466-6917	0.0013	0.0013	ppm	U
79-01-6	Trichloroethene	A 466-6917	0.0017	0.0017	ppm	U
78-87-5	1,2-Dichloropropane	A 466-6917	0.0015	0.0015	ppm	U
75-27-4	Bromodichloromethane	A 466-6917	0.00070	0.00070	ppm	U
74-95-3	Dibromomethane	A 466-6917	0.00060	0.00060	ppm	U
10061-01-5	c-1,3-Dichloropropene	A 466-6917	0.00070	0.00070	ppm	U
108-88-3	Toluene	A 466-6917	0.0014	0.0014	ppm	U
10061-02-6	t-1,3-Dichloropropene	A 466-6917	0.00060	0.00060	ppm	U
79-00-5	1,1,2-Trichloroethane	A 466-6917	0.0020	0.0020	ppm	U
142-28-9	1,3-Dichloropropane	A 466-6917	0.00070	0.00070	ppm	U
127-18-4	Tetrachloroethene	A 466-6917	0.0020	0.0020	ppm	U
124-48-1	Dibromochloromethane	A 466-6917	0.0012	0.0012	ppm	U
106-93-4	1,2-Dibromoethane	A 466-6917	0.00090	0.00090	ppm	U
108-90-7	Chlorobenzene	A 466-6917	0.0012	0.0012	ppm	U
630-20-6	1,1,1,2-Tetrachloroethane	A 466-6917	0.0013	0.0013	ppm	U
100-41-4	Ethylbenzene	A 466-6917	0.0018	0.0018	ppm	U
108-38-3	m,p-xylene	A 466-6917	0.0031	0.0031	ppm	U
95-47-6	o-xylene	A 466-6917	0.0016	0.0016	ppm	U



Environmental Testing Laboratories, Inc.

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02/20/2002

TCLP Volatile Compounds - EPA 8260B

Sample: N9157-1...continue

Client Sample ID: LMCRCRA 1

Matrix: Soil

Type: Composite

Collected: 02/15/2002 14:00

% Solid: 90.8%

Remarks: See Case Narrative

Analyzed Date: 02/20/2002

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
100-42-5	Styrene	A 466-6917	0.0014	0.0014	ppm	U
98-82-8	Isopropylbenzene	A 466-6917	0.0019	0.0019	ppm	U
75-25-2	Bromoform	A 466-6917	0.00090	0.00090	ppm	U
79-34-5	1,1,2,2-Tetrachloroethane	A 466-6917	0.00090	0.00090	ppm	U
96-18-4	1,2,3-Trichloropropane	A 466-6917	0.0013	0.0013	ppm	U
103-65-1	n-Propylbenzene	A 466-6917	0.0031	0.0031	ppm	U
108-86-1	Bromobenzene	A 466-6917	0.0016	0.0016	ppm	U
108-67-8	1,3,5-Trimethylbenzene	A 466-6917	0.0011	0.0011	ppm	U
95-49-8	2-Chlorotoluene	A 466-6917	0.0016	0.0016	ppm	U
106-43-4	4-Chlorotoluene	A 466-6917	0.0017	0.0017	ppm	U
99-87-6	4-Isopropyltoluene	A 466-6917	0.0021	0.0021	ppm	U
95-63-6	1,2,4-Trimethylbenzene	A 466-6917	0.0022	0.0022	ppm	U
135-98-8	sec-Butylbenzene	A 466-6917	0.0020	0.0020	ppm	U
98-06-6	tert-Butylbenzene	A 466-6917	0.0018	0.0018	ppm	U
541-73-1	1,3-Dichlorobenzene	A 466-6917	0.0015	0.0015	ppm	U
106-46-7	1,4-Dichlorobenzene	A 466-6917	0.0016	0.0016	ppm	U
104-51-8	n-Butylbenzene	A 466-6917	0.0019	0.0019	ppm	U
95-50-1	1,2-Dichlorobenzene	A 466-6917	0.00070	0.00070	ppm	U
96-12-8	1,2-Dibromo-3-chloropropane	A 466-6917	0.0015	0.0015	ppm	U
120-82-1	1,2,4-Trichlorobenzene	A 466-6917	0.0018	0.0018	ppm	U
87-68-3	Hexachlorobutadiene	A 466-6917	0.0032	0.0032	ppm	U
91-20-3	Naphthalene	A 466-6917	0.0041	0.0041	ppm	U
87-61-6	1,2,3-Trichlorobenzene	A 466-6917	0.0012	0.0012	ppm	U

Cas No	Surrogate	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	A466-6917	101.0 %	(76 - 118)	
2037-26-5	TOLUENE D8	A466-6917	98.4 %	(90 - 111)	
4774-33-8	DIBROMOFLUOROMETHANE	A466-6917	104.0 %	(83 - 113)	



Environmental Testing Laboratories, Inc.

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02/20/2002

TCLP Volatile Compounds - EPA 8260B

Sample: N9157-2

Client Sample ID: LMCRCA 2

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 02/20/2002

Type: Composite

Collected: 02/15/2002 14:00

% Solid: 89%

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	A 466-6918	0.0026	0.0026	ppm	U
74-87-3	Chloromethane	A 466-6918	0.0037	0.0037	ppm	U
75-01-4	Vinyl Chloride	A 466-6918	0.00070	0.00070	ppm	U
74-83-9	Bromomethane	A 466-6918	0.0045	0.0045	ppm	U
75-00-3	Chloroethane	A 466-6918	0.0018	0.0018	ppm	U
75-69-4	Trichlorofluoromethane	A 466-6918	0.0023	0.0023	ppm	U
75-35-4	1,1-Dichloroethene	A 466-6918	0.0014	0.0014	ppm	U
75-09-2	Methylene Chloride	A 466-6918	0.0015	0.0015	ppm	U
156-60-5	t-1,2-Dichloroethene	A 466-6918	0.0014	0.0014	ppm	U
75-34-3	1,1-Dichloroethane	A 466-6918	0.0012	0.0012	ppm	U
590-20-7	2,2-Dichloropropane	A 466-6918	0.0030	0.0030	ppm	U
156-59-2	c-1,2-Dichloroethene	A 466-6918	0.0014	0.0014	ppm	U
67-66-3	Chloroform	A 466-6918	0.0015	0.0015	ppm	U
74-97-5	Bromochloromethane	A 466-6918	0.0021	0.0021	ppm	U
71-55-6	1,1,1-Trichloroethane	A 466-6918	0.0016	0.0016	ppm	U
563-58-6	1,1-Dichloropropene	A 466-6918	0.0067	0.0067	ppm	U
56-23-5	Carbon Tetrachloride	A 466-6918	0.0013	0.0013	ppm	U
107-06-2	1,2-Dichloroethane	A 466-6918	0.0013	0.0013	ppm	U
71-43-2	Benzene	A 466-6918	0.0013	0.0013	ppm	U
79-01-6	Trichloroethene	A 466-6918	0.0017	0.0017	ppm	U
78-87-5	1,2-Dichloropropane	A 466-6918	0.0015	0.0015	ppm	U
75-27-4	Bromodichloromethane	A 466-6918	0.00070	0.00070	ppm	U
74-95-3	Dibromomethane	A 466-6918	0.00060	0.00060	ppm	U
10061-01-5	c-1,3-Dichloropropene	A 466-6918	0.00070	0.00070	ppm	U
108-88-3	Toluene	A 466-6918	0.0014	0.0014	ppm	U
10061-02-6	t-1,3-Dichloropropene	A 466-6918	0.00060	0.00060	ppm	U
79-00-5	1,1,2-Trichloroethane	A 466-6918	0.0020	0.0020	ppm	U
142-28-9	1,3-Dichloropropane	A 466-6918	0.00070	0.00070	ppm	U
127-18-4	Tetrachloroethene	A 466-6918	0.0020	0.0020	ppm	U
124-48-1	Dibromochloromethane	A 466-6918	0.0012	0.0012	ppm	U
106-93-4	1,2-Dibromoethane	A 466-6918	0.00090	0.00090	ppm	U
108-90-7	Chlorobenzene	A 466-6918	0.0012	0.0012	ppm	U
630-20-6	1,1,1,2-Tetrachloroethane	A 466-6918	0.0013	0.0013	ppm	U
100-41-4	Ethylbenzene	A 466-6918	0.0018	0.0018	ppm	U
108-38-3	m,p-xylene	A 466-6918	0.0031	0.0031	ppm	U
95-47-6	o-xylene	A 466-6918	0.0016	0.0016	ppm	U



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/20/2002

TCLP Volatile Compounds - EPA 8260B

Sample: N9157-2...continue

Client Sample ID: LMCRCRA 2

Matrix: Soil

Type: Composite

Collected: 02/15/2002 14:00

% Solid: 89%

Remarks: See Case Narrative

Analyzed Date: 02/20/2002

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
100-42-5	Styrene	A 466-6918	0.0014	0.0014	ppm	U
98-82-8	Isopropylbenzene	A 466-6918	0.0019	0.0019	ppm	U
75-25-2	Bromoform	A 466-6918	0.00090	0.00090	ppm	U
79-34-5	1,1,2,2-Tetrachloroethane	A 466-6918	0.00090	0.00090	ppm	U
96-18-4	1,2,3-Trichloropropane	A 466-6918	0.0013	0.0013	ppm	U
103-65-1	n-Propylbenzene	A 466-6918	0.0031	0.0031	ppm	U
108-86-1	Bromobenzene	A 466-6918	0.0016	0.0016	ppm	U
108-67-8	1,3,5-Trimethylbenzene	A 466-6918	0.0011	0.0011	ppm	U
95-49-8	2-Chlorotoluene	A 466-6918	0.0016	0.0016	ppm	U
106-43-4	4-Chlorotoluene	A 466-6918	0.0017	0.0017	ppm	U
99-87-6	4-Isopropyltoluene	A 466-6918	0.0021	0.0021	ppm	U
95-63-6	1,2,4-Trimethylbenzene	A 466-6918	0.0022	0.0022	ppm	U
135-98-8	sec-Butylbenzene	A 466-6918	0.0020	0.0020	ppm	U
98-06-6	tert-Butylbenzene	A 466-6918	0.0018	0.0018	ppm	U
541-73-1	1,3-Dichlorobenzene	A 466-6918	0.0015	0.0015	ppm	U
106-46-7	1,4-Dichlorobenzene	A 466-6918	0.0016	0.0016	ppm	U
104-51-8	n-Butylbenzene	A 466-6918	0.0019	0.0019	ppm	U
95-50-1	1,2-Dichlorobenzene	A 466-6918	0.00070	0.00070	ppm	U
96-12-8	1,2-Dibromo-3-chloropropane	A 466-6918	0.0015	0.0015	ppm	U
120-82-1	1,2,4-Trichlorobenzene	A 466-6918	0.0018	0.0018	ppm	U
87-68-3	Hexachlorobutadiene	A 466-6918	0.0032	0.0032	ppm	U
91-20-3	Naphthalene	A 466-6918	0.0041	0.0041	ppm	U
87-61-6	1,2,3-Trichlorobenzene	A 466-6918	0.0012	0.0012	ppm	U

Cas No	Surrogate	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	A466-6918	101.0 %	(76 - 118)	
2037-26-5	TOLUENE-D8	A466-6918	99.8 %	(90 - 111)	
4774-33-8	DIBROMOFLUOROMETHANE	A466-6918	102.0 %	(83 - 113)	



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

Phone - 631-249-1456 Fax - 631-249-8344

02/20/2002

TCLP Volatile Compounds - EPA 8260B

Sample: N9157-3

Client Sample ID: LMCRCRA 3

Matrix: Soil

Type: Composite

Collected: 02/15/2002 14:00

% Solid: 89.2%

Remarks: See Case Narrative

Analyzed Date: 02/20/2002

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	A 466-6919	0.0026	0.0026	ppm	U
74-87-3	Chloromethane	A 466-6919	0.0037	0.0037	ppm	U
75-01-4	Vinyl Chloride	A 466-6919	0.00070	0.00070	ppm	U
74-83-9	Bromomethane	A 466-6919	0.0045	0.0045	ppm	U
75-00-3	Chloroethane	A 466-6919	0.0018	0.0018	ppm	U
75-69-4	Trichlorofluoromethane	A 466-6919	0.0023	0.0023	ppm	U
75-35-4	1,1-Dichloroethene	A 466-6919	0.0014	0.0014	ppm	U
75-09-2	Methylene Chloride	A 466-6919	0.0015	0.0015	ppm	U
156-60-5	t-1,2-Dichloroethene	A 466-6919	0.0014	0.0014	ppm	U
75-34-3	1,1-Dichloroethane	A 466-6919	0.0012	0.0012	ppm	U
590-20-7	2,2-Dichloropropane	A 466-6919	0.0030	0.0030	ppm	U
156-59-2	c-1,2-Dichloroethene	A 466-6919	0.0014	0.0014	ppm	U
67-66-3	Chloroform	A 466-6919	0.0015	0.0015	ppm	U
74-97-5	Bromochloromethane	A 466-6919	0.0021	0.0021	ppm	U
71-55-6	1,1,1-Trichloroethane	A 466-6919	0.0016	0.0016	ppm	U
563-58-6	1,1-Dichloropropene	A 466-6919	0.0067	0.0067	ppm	U
56-23-5	Carbon Tetrachloride	A 466-6919	0.0013	0.0013	ppm	U
107-06-2	1,2-Dichloroethane	A 466-6919	0.0013	0.0013	ppm	U
71-43-2	Benzene	A 466-6919	0.0013	0.0013	ppm	U
79-01-6	Trichloroethene	A 466-6919	0.0017	0.0017	ppm	U
78-87-5	1,2-Dichloropropane	A 466-6919	0.0015	0.0015	ppm	U
75-27-4	Bromodichloromethane	A 466-6919	0.00070	0.00070	ppm	U
74-95-3	Dibromomethane	A 466-6919	0.00060	0.00060	ppm	U
10061-01-5	c-1,3-Dichloropropene	A 466-6919	0.00070	0.00070	ppm	U
108-88-3	Toluene	A 466-6919	0.0014	0.0014	ppm	U
10061-02-6	t-1,3-Dichloropropene	A 466-6919	0.00060	0.00060	ppm	U
79-00-5	1,1,2-Trichloroethane	A 466-6919	0.0020	0.0020	ppm	U
142-28-9	1,3-Dichloropropane	A 466-6919	0.00070	0.00070	ppm	U
127-18-4	Tetrachloroethene	A 466-6919	0.0020	0.0020	ppm	U
124-48-1	Dibromochloromethane	A 466-6919	0.0012	0.0012	ppm	U
106-93-4	1,2-Dibromoethane	A 466-6919	0.00090	0.00090	ppm	U
108-90-7	Chlorobenzene	A 466-6919	0.0012	0.0012	ppm	U
630-20-6	1,1,1,2-Tetrachloroethane	A 466-6919	0.0013	0.0013	ppm	U
100-41-4	Ethylbenzene	A 466-6919	0.0018	0.0018	ppm	U
108-38-3	m,p-xylene	A 466-6919	0.0031	0.0031	ppm	U
95-47-6	o-xylene	A 466-6919	0.0016	0.0016	ppm	U



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
 Phone - 631-249-1456 Fax - 631-249-8344

02/20/2002

TCLP Volatile Compounds - EPA 8260B

Sample: N9157-3...continue

Client Sample ID: LMCRCA 3

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 02/20/2002

Type: Composite

Collected: 02/15/2002 14:00

% Solid: 89.2%

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
100-42-5	Styrene	A 466-6919	0.0014	0.0014	ppm	U
98-82-8	Isopropylbenzene	A 466-6919	0.0019	0.0019	ppm	U
75-25-2	Bromoform	A 466-6919	0.00090	0.00090	ppm	U
79-34-5	1,1,2,2-Tetrachloroethane	A 466-6919	0.00090	0.00090	ppm	U
96-18-4	1,2,3-Trichloropropane	A 466-6919	0.0013	0.0013	ppm	U
103-65-1	n-Propylbenzene	A 466-6919	0.0031	0.0031	ppm	U
108-86-1	Bromobenzene	A 466-6919	0.0016	0.0016	ppm	U
108-67-8	1,3,5-Trimethylbenzene	A 466-6919	0.0011	0.0011	ppm	U
95-49-8	2-Chlorotoluene	A 466-6919	0.0016	0.0016	ppm	U
106-43-4	4-Chlorotoluene	A 466-6919	0.0017	0.0017	ppm	U
99-87-6	4-Isopropyltoluene	A 466-6919	0.0021	0.0021	ppm	U
95-63-6	1,2,4-Trimethylbenzene	A 466-6919	0.0022	0.0022	ppm	U
135-98-8	sec-Butylbenzene	A 466-6919	0.0020	0.0020	ppm	U
98-06-6	tert-Butylbenzene	A 466-6919	0.0018	0.0018	ppm	U
541-73-1	1,3-Dichlorobenzene	A 466-6919	0.0015	0.0015	ppm	U
106-46-7	1,4-Dichlorobenzene	A 466-6919	0.0016	0.0016	ppm	U
104-51-8	n-Butylbenzene	A 466-6919	0.0019	0.0019	ppm	U
95-50-1	1,2-Dichlorobenzene	A 466-6919	0.00070	0.00070	ppm	U
96-12-8	1,2-Dibromo-3-chloropropane	A 466-6919	0.0015	0.0015	ppm	U
120-82-1	1,2,4-Trichlorobenzene	A 466-6919	0.0018	0.0018	ppm	U
87-68-3	Hexachlorobutadiene	A 466-6919	0.0032	0.0032	ppm	U
91-20-3	Naphthalene	A 466-6919	0.0041	0.0041	ppm	U
87-61-6	1,2,3-Trichlorobenzene	A 466-6919	0.0012	0.0012	ppm	U

Cas No	Surrogate	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	A466-6919	101.0 %	(76 - 118)	
2037-26-5	TOLUENE-D8	A466-6919	99.5 %	(90 - 111)	
4774-33-8	DIBROMOFLUOROMETHANE	A466-6919	103.0 %	(83 - 113)	



Environmental Testing Laboratories, Inc.

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02/20/2002

TCLP Volatile Compounds - EPA 8260B

Sample: N9157-4

Client Sample ID: LMCRCRA 4

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 02/20/2002

Type: Composite

Collected: 02/15/2002 14:00

% Solid: 88.3%

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	A 466-6920	0.0026	0.0026	ppm	U
74-87-3	Chloromethane	A 466-6920	0.0037	0.0037	ppm	U
75-01-4	Vinyl Chloride	A 466-6920	0.00070	0.00070	ppm	U
74-83-9	Bromomethane	A 466-6920	0.0045	0.0045	ppm	U
75-00-3	Chloroethane	A 466-6920	0.0018	0.0018	ppm	U
75-69-4	Trichlorofluoromethane	A 466-6920	0.0023	0.0023	ppm	U
75-35-4	1,1-Dichloroethene	A 466-6920	0.0014	0.0014	ppm	U
75-09-2	Methylene Chloride	A 466-6920	0.0015	0.0015	ppm	U
156-60-5	t-1,2-Dichloroethene	A 466-6920	0.0014	0.0014	ppm	U
75-34-3	1,1-Dichloroethane	A 466-6920	0.0012	0.0012	ppm	U
590-20-7	2,2-Dichloropropane	A 466-6920	0.0030	0.0030	ppm	U
156-59-2	c-1,2-Dichloroethene	A 466-6920	0.0014	0.0014	ppm	U
67-66-3	Chloroform	A 466-6920	0.0015	0.0015	ppm	U
74-97-5	Bromochloromethane	A 466-6920	0.0021	0.0021	ppm	U
71-55-6	1,1,1-Trichloroethane	A 466-6920	0.0016	0.0016	ppm	U
563-58-6	1,1-Dichloropropene	A 466-6920	0.0067	0.0067	ppm	U
56-23-5	Carbon Tetrachloride	A 466-6920	0.0013	0.0013	ppm	U
107-06-2	1,2-Dichloroethane	A 466-6920	0.0013	0.0013	ppm	U
71-43-2	Benzene	A 466-6920	0.0013	0.0013	ppm	U
79-01-6	Trichloroethene	A 466-6920	0.0017	0.0017	ppm	U
78-87-5	1,2-Dichloropropane	A 466-6920	0.0015	0.0015	ppm	U
75-27-4	Bromodichloromethane	A 466-6920	0.00070	0.00070	ppm	U
74-95-3	Dibromomethane	A 466-6920	0.00060	0.00060	ppm	U
10061-01-5	c-1,3-Dichloropropene	A 466-6920	0.00070	0.00070	ppm	U
108-88-3	Toluene	A 466-6920	0.0014	0.0014	ppm	U
10061-02-6	t-1,3-Dichloropropene	A 466-6920	0.00060	0.00060	ppm	U
79-00-5	1,1,2-Trichloroethane	A 466-6920	0.0020	0.0020	ppm	U
142-28-9	1,3-Dichloropropane	A 466-6920	0.00070	0.00070	ppm	U
127-18-4	Tetrachloroethene	A 466-6920	0.0020	0.0020	ppm	U
124-48-1	Dibromochloromethane	A 466-6920	0.0012	0.0012	ppm	U
106-93-4	1,2-Dibromoethane	A 466-6920	0.00090	0.00090	ppm	U
108-90-7	Chlorobenzene	A 466-6920	0.0012	0.0012	ppm	U
630-20-6	1,1,1,2-Tetrachloroethane	A 466-6920	0.0013	0.0013	ppm	U
100-41-4	Ethylbenzene	A 466-6920	0.0018	0.0018	ppm	U
108-38-3	m,p-xylene	A 466-6920	0.0031	0.0031	ppm	U
95-47-6	o-xylene	A 466-6920	0.0016	0.0016	ppm	U



Environmental Testing Laboratories, Inc.

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02/20/2002

TCLP Volatile Compounds - EPA 8260B

Sample: N9157-4...continue

Client Sample ID: LMCRCRA 4

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 02/20/2002

Type: Composite

Collected: 02/15/2002 14:00

% Solid: 88.3%

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
100-42-5	Styrene	A 466-6920	0.0014	0.0014	ppm	U
98-82-8	Isopropylbenzene	A 466-6920	0.0019	0.0019	ppm	U
75-25-2	Bromoform	A 466-6920	0.00090	0.00090	ppm	U
79-34-5	1,1,2,2-Tetrachloroethane	A 466-6920	0.00090	0.00090	ppm	U
96-18-4	1,2,3-Trichloropropane	A 466-6920	0.0013	0.0013	ppm	U
103-65-1	n-Propylbenzene	A 466-6920	0.0031	0.0031	ppm	U
108-86-1	Bromobenzene	A 466-6920	0.0016	0.0016	ppm	U
108-67-8	1,3,5-Trimethylbenzene	A 466-6920	0.0011	0.0011	ppm	U
95-49-8	2-Chlorotoluene	A 466-6920	0.0016	0.0016	ppm	U
106-43-4	4-Chlorotoluene	A 466-6920	0.0017	0.0017	ppm	U
99-87-6	4-Isopropyltoluene	A 466-6920	0.0021	0.0021	ppm	U
95-63-6	1,2,4-Trimethylbenzene	A 466-6920	0.0022	0.0022	ppm	U
135-98-8	sec-Butylbenzene	A 466-6920	0.0020	0.0020	ppm	U
98-06-6	tert-Butylbenzene	A 466-6920	0.0018	0.0018	ppm	U
541-73-1	1,3-Dichlorobenzene	A 466-6920	0.0015	0.0015	ppm	U
106-46-7	1,4-Dichlorobenzene	A 466-6920	0.0016	0.0016	ppm	U
104-51-8	n-Butylbenzene	A 466-6920	0.0019	0.0019	ppm	U
95-50-1	1,2-Dichlorobenzene	A 466-6920	0.00070	0.00070	ppm	U
96-12-8	1,2-Dibromo-3-chloropropane	A 466-6920	0.0015	0.0015	ppm	U
120-82-1	1,2,4-Trichlorobenzene	A 466-6920	0.0018	0.0018	ppm	U
87-68-3	Hexachlorobutadiene	A 466-6920	0.0032	0.0032	ppm	U
91-20-3	Naphthalene	A 466-6920	0.0041	0.0041	ppm	U
87-61-6	1,2,3-Trichlorobenzene	A 466-6920	0.0012	0.0012	ppm	U

Cas No	Surrogate	File ID	% Recovery	QC Limits	Q
460-00-4	4-BROMOFLUOROBENZENE	A466-6920	101.0 %	(76 - 148)	
2037-26-5	TOLUENE D8	A466-6920	99.0 %	(90 - 111)	
4774-33-8	DIBROMOFLUOROMETHANE	A466-6920	102.0 %	(83 - 113)	



Environmental Testing Laboratories, Inc.

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02/20/2002

Case Narrative

VOLATILES:

The following compounds were calibrated at 25, 50, 100, 150 and 200 ppb levels in the initial calibration curve:

Acetone
2-Butanone
4-Methyl,2-pentanone
2-Hexanone

M&P-Xylenes were calibrated at 10, 40, 100, 200 and 300 ppb levels.

All other compounds were calibrated at 5, 20, 50, 100 and 150 ppb levels.

Blank associated with the sample N9157-2 contained 7.24 ppb of Methylene Chloride, a common laboratory contaminant.

Reviewed by: Patricia Werner-Elser



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

Phone - 631-249-1456 Fax - 631-249-8344

02/20/2002

ORGANIC METHOD QUALIFIERS

Q - Qualifier - specified entries and their meanings are as follows:

- U - The analytical result is a non-detect.
- J - Indicates an estimated value. The concentration reported was detected below the Method Detection Limit.
- B - The analyte was found in the associated method blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- E - The concentration of the analyte exceeded the calibration range of the instrument.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution. In the case of a surrogate this flag indicates a system monitoring compound diluted out.

INORGANIC METHOD QUALIFIERS

C - (Concentration) qualifiers are as follows:

B - Entered if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).

U - Entered when the analyte was analyzed for, but not detected.

Q - Qualifier specific entries and their meanings are as follows:

E - Reported value is estimated because of the presence of interferences.

M - (Method) qualifiers are as follows:

A - Flame AA

AS - Semi-automated Spectrophotometric

AV - Automated Cold Vapor AA

C - Manual Spectrophotometric

F - Furnace AA

NR - when the analyte is not required to be analyzed.

P - ICP

T - Titrimetric

OTHER QUALIFIERS

ND - Not Detected

NA - Not Applicable

* - Outside Expected Range (NYCDEP Table I/II or Surrogate Limits)

OTHER

- All soil and sediment samples are reported on a dry weight basis.



ETL

Environmental Testing Laboratories, Inc.
 208 Route 109 • Farmingdale • New York 11735
 631-249-1456 • Fax: 631-249-8344

CHAIN OF CUSTODY DOCUMENT

N 09157

Project Name: LMC RCRA Exc. Project Manager: M. Soliman Sampler (Signature): *Mark P. Soliman* (Print): Mark P. Soliman

Project Address: 365 Lakeville Rd., Lake Success, NY

Client: AET Labs JIN: 02810 Rush by 2/20/02

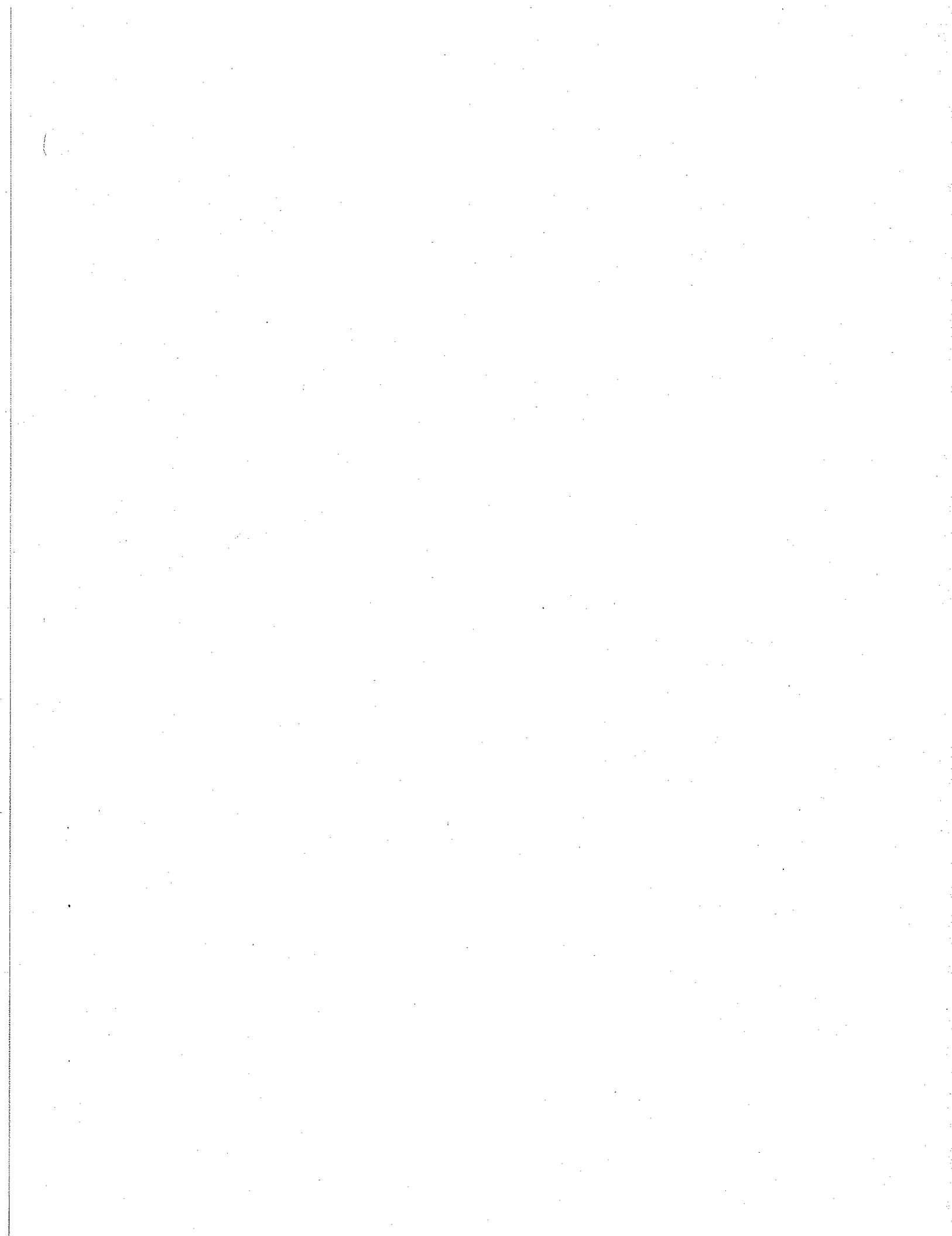
601/602
 BTX/BTEX
 MTBE
 624/8260/8021
 625/8270/BN
 PCB/Pesticides
 Pet. Prods./8100M
 RCRA Metals
 PH/Flash/React
 418.1-TRPH
 Vials: 52608
 Temp. Vials: 1301
 2608

SAMPLE INFO

Type: SS = Split Spoon; G = Grab; C = Composite; B = Blank
 Matrix: L = Liquid; S = Soil; SL = Sludge; A* = Air; W = Wipe
 *Air - Vol. (Liters) include: Flow (CFM)

ID	Date	Time	Type	Matrix	Sample Location	Total # Cont.	601/602	BTX/BTEX	MTBE	624/8260/8021	625/8270/BN	PCB/Pesticides	Pet. Prods./8100M	RCRA Metals	PH/Flash/React	418.1-TRPH	Vials: 52608	Temp. Vials: 1301	2608	
1	2/15	2am	C	S	LMC RCRA 1	2														
2	2/15	2am	C	S	LMC RCRA 2	2														
3	2/15	2am	C	S	LMC RCRA 3	2														
4	2/15	2am	C	S	LMC RCRA 4	2														
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by (Signature): <i>Mark P. Soliman</i>	Date: 2/15/02 Time: 4:15am	Printed Name & Agent: MARK SOLIMAN BLUE WATER	Received by (Signature):	Date:	Printed Name & Agent:
Relinquished by (Signature):	Date:	Printed Name & Agent:	Received for Lab by (Signature): <i>6/2/02</i>	Date: 2-15-02 Time: 16:41	Printed Name: GIONNY WEIXLER
Comments & Special Instructions:	QA/QC Type:	Number & Type of Containers: 4-802, 4-402	Preservatives:	Temp: 4°C	<i>pinfg 2/15/02</i>



Appendix B

Non-Hazardous Waste Manifests

ALLIED WASTE SERVICES, INC.

2163 MERRICK AVE., MERRICK, NY 11566 • TEL: 1-800-969-DIRT • FAX: 516-867-6480

Log Number

NON-HAZARDOUS MATERIAL MANIFEST

GENERATOR

LOCKHEED MARTIN CORP.

Generator Name FORMER UNISYS SITE Shipping Location SAME
Address 365 LAKE SUCCESS ROAD Address _____
LAKE SUCCESS, NY
Phone No. _____ Phone No. _____

Approval Number	Description of Material	Codes	Gross Weight	Net Weight (Tons)
			Tare Weight	
			Net Weight	

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to applicable regulations.

DEUNIS J. McLAFFERTY [Signature] 3-1-02
Generator Authorized Agent Name Signature Shipment Date

TRANSPORTER

Transporter Name AB RECYCLING, LLC Driver Name (Print) _____
Address 190 POMPTON PLAINS CROSSROADS Vehicle License No./State _____
WAYNE, NJ 07470 (973) 835-9434 Truck Number _____
State Permit # NJ-561

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature _____ Shipment Date _____ Driver Signature _____ Delivery Date _____

DESTINATION

Site Name CLEAN EARTH OF PHILADELPHIA, PA Phone No. _____
Address 61st STREET State Permit # 301220
PHILADELPHIA, PA

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent _____ Signature _____ Receipt Date _____
GENERATOR

ALLIED WASTE SERVICES, INC.

2163 MERRICK AVE., MERRICK, NY 11566 • TEL: 1-800-969-DIRT • FAX: 516-867-6480

Log Number

NON-HAZARDOUS MATERIAL MANIFEST

GENERATOR

LOCKHEED MARTIN CORP.

Generator Name FORMER UNISYS SITE Shipping Location SAME

Address 365 LAKE SUCCESS ROAD Address _____

LAKE SUCCESS, NY

Phone No. _____ Phone No. _____

Approval Number	Description of Material NON HAZ PETROLEUM CONTAMINATED SOIL DESTINED FOR RECYCLING	Codes	Gross Weight	Net Weight (Tons)
			Tare Weight	
			Net Weight	

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to applicable regulations.

DEWIS MCLAFFERTY Dennis McLaugherty 3-1-02
Generator Authorized Agent Name Signature Shipment Date

TRANSPORTER

Transporter Name AB RECYCLING, LLC Driver Name (Print) BUSETAS TRUCKING, INC

Address 190 POMPTON PLAINS CROSSROADS Vehicle License No./State W 991 - 48X

WAYNE, NJ 07470 (973) 835-9434 Truck Number 221

State Permit # NJ-561

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

[Signature] 3-01-02 [Signature] 3-01-02
Driver Signature Shipment Date Driver Signature Delivery Date

DESTINATION

Site Name _____ Phone No. _____

CLEAN EARTH OF PHILADELPHIA, PA

Address 61st STREET State Permit # _____

PHILADELPHIA, PA 301220

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent _____ Signature _____ Receipt Date _____
GENERATOR

ALLIED WASTE SERVICES, INC.

2163 MERRICK AVE., MERRICK, NY 11566 • TEL: 1-800-969-DIRT • FAX: 516-867-6480

Log Number

NON-HAZARDOUS MATERIAL MANIFEST

GENERATOR

LOCKHEED MARTIN CORP.

Generator Name FORMER UNISYS SITE Shipping Location SAME

Address 365 LAKE SUCCESS ROAD Address _____

LAKE SUCCESS, NY

Phone No. _____ Phone No. _____

Approval Number	Description of Material	Codes	Gross Weight	Net Weight (Tons)
	NON HAZ PETROLEUM CONTAMINATED SOIL DESTINED FOR RECYCLING			
			Tare Weight	
			Net Weight	

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name *[Signature]* Signature _____ Shipment Date 3-1-02

TRANSPORTER

Transporter Name AB RECYCLING, LLC Driver Name (Print) HOWARD DA COSTA

Address 190 POMPTON PLAINS CROSSROADS Vehicle License No./State 8300 PB NJ

WAYNE, NJ 07470 (973) 835-9434 Truck Number JENCOIS # 211

State Permit # NJ-561

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature *[Signature]* Shipment Date 3/1/02 Driver Signature _____ Delivery Date _____

DESTINATION

Site Name CLEAN EARTH OF PHILADELPHIA, PA Phone No. _____

Address 61st STREET State Permit # 301220
PHILADELPHIA PA

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent _____ Signature _____ Receipt Date _____
GENERATOR

ALLIED WASTE SERVICES, INC.

2163 MERRICK AVE., MERRICK, NY 11566 • TEL: 1-800-969-DIRT • FAX: 516-867-6480

Log Number

NON-HAZARDOUS MATERIAL MANIFEST

GENERATOR

LOCKHEED MARTIN CORP.

Generator Name FORMER UNISYS SITE Shipping Location SAME

Address 365 LAKE SUCCESS ROAD Address _____

LAKE SUCCESS, NY

Phone No. _____ Phone No. _____

Approval Number	Description of Material	Codes	Gross Weight	Net Weight (Tons)
	NON HAZ PETROLEUM CONTAMINATED SOIL DESTINED FOR RECYCLING			
			Tare Weight	
			Net Weight	

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to applicable regulations.

Dennis J. McElroy
Generator Authorized Agent Name

[Signature]
Signature

3-1-02
Shipment Date

TRANSPORTER

Transporter Name AB RECYCLING, LLC

Driver Name (Print) Jenmar Trucking

Address 190 POMPTON PLAINS CROSSROADS

Vehicle License No./State AF QUUK NJ

WAYNE, NJ 07470 (973) 835-9434

Truck Number 72

State Permit # NJ-561

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Carlos Echvuri
Driver Signature

03/01/02
Shipment Date

Carlos Echvuri
Driver Signature

03/01/02
Delivery Date

DESTINATION

Site Name _____ Phone No. _____

CLEAN EARTH OF PHILADELPHIA, PA

Address 61st STREET State Permit # _____

PHILADELPHIA, PA

301220

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent _____ Signature _____ Receipt Date _____

GENERATOR

Log Number

ALLIED WASTE SERVICES, INC.

2163 MERRICK AVE., MERRICK, NY 11566 • TEL: 1-800-969-DIRT • FAX: 516-867-6480

NON-HAZARDOUS MATERIAL MANIFEST

GENERATOR

Generator Name LOCKHEED MARTIN CORP.
FORMER UNISYS SITE Shipping Location SAME

Address 365 LAKE SUCCESS ROAD Address _____
LAKE SUCCESS, NY

Phone No. _____ Phone No. _____

Approval Number	Description of Material	Codes	Gross Weight	Net Weight (Tons)
			Tare Weight	
			Net Weight	

NON HAZ PETROLEUM
CONTAMINATED SOIL
DESTINED FOR RECYCLING

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to applicable regulations.

[Signature] Generator Authorized Agent Name [Signature] Signature 3/1/02 Shipment Date

TRANSPORTER

Transporter Name AB RECYCLING, LLC Driver Name (Print) RAUL LOPEZ

Address 190 POMPTON PLAINS CROSSROADS Vehicle License No./State AE 652 U
WAYNE, NJ 07470 (973) 835-9434 Truck Number 01 SCAR-AB/051

State Permit # NJ-561

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature _____ Shipment Date _____ Driver Signature _____ Delivery Date _____

DESTINATION

Site Name CLEAN EARTH OF PHILADELPHIA, PA Phone No. _____

Address 61st STREET State Permit # 301220
PHILADELPHIA, PA

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent _____ Signature _____ Receipt Date _____
GENERATOR

ALLIED WASTE SERVICES, INC.

2163 MERRICK AVE., MERRICK, NY 11566 • TEL: 1-800-969-DIRT • FAX: 516-867-6480

Log Number

NON-HAZARDOUS MATERIAL MANIFEST

GENERATOR

LOCKHEED MARTIN CORP.

Generator Name FORMER UNISYS SITE Shipping Location SAME
Address 365 LAKE SUCCESS ROAD Address _____
LAKE SUCCESS, NY
Phone No. _____ Phone No. _____

Approval Number	Description of Material	Codes	Gross Weight	Net Weight (Tons)
	NON HAZ PETROLEUM CONTAMINATED SOIL DESTINED FOR RECYCLING		Tare Weight	
			Net Weight	

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name [Signature] Signature [Signature] Shipment Date 3/1/02

TRANSPORTER

Transporter Name AB RECYCLING, LLC Driver Name (Print) Jose Bues
Address 190 POMPTON PLAINS CROSSROADS Vehicle License No./State AT4921P
WAYNE, NJ 07470 (973) 835-9434 Truck Number 3

State Permit # NJ-561

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature [Signature] Shipment Date 2-29-02 Driver Signature [Signature] Delivery Date 2-29-02

DESTINATION

Site Name CLEAN EARTH OF PHILADELPHIA, PA Phone No. _____
Address 61ST STREET State Permit # 301220
PHILADELPHIA, PA

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent _____ Signature _____ Receipt Date _____
GENERATOR

ALLIED WASTE SERVICES, INC.

2163 MERRICK AVE., MERRICK, NY 11566 • TEL: 1-800-969-DIRT • FAX: 516-867-6480

Log Number

NON-HAZARDOUS MATERIAL MANIFEST

GENERATOR

LOCKHEED MARTIN CORP.

Generator Name FORMER UNISYS SITE Shipping Location SAME

Address 365 LAKE SUCCESS ROAD Address _____

LAKE SUCCESS, NY

Phone No. _____ Phone No. _____

Approval Number	Description of Material	Codes	Gross Weight	Net Weight (Tons)
	NON HAZ PETROLEUM CONTAMINATED SOIL DESTINED FOR RECYCLING		Tare Weight	
			Net Weight	

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to applicable regulations.

ARNOLD J. McLAFFERTY Reid McCafferty 3-1-02
Generator Authorized Agent Name Signature Shipment Date

TRANSPORTER

Transporter Name AB RECYCLING, LLC Driver Name (Print) JULIO GONZALEZ

Address 190 POMPTON PLAINS CROSSROADS Vehicle License No./State AF 571N

WAYNE, NJ 07470 (973) 835-9434 Truck Number 811

State Permit # NJ-561

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

[Signature] 3-1/02 [Signature] 3-1/02
Driver Signature Shipment Date Driver Signature Delivery Date

DESTINATION

Site Name CLEAN EARTH OF PHILADELPHIA, PA Phone No. _____

Address 61st STREET State Permit # 301220
PHILADELPHIA, PA

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent _____ Signature _____ Receipt Date _____
GENERATOR

ALLIED WASTE SERVICES, INC.

2163 MERRICK AVE., MERRICK, NY 11566 • TEL: 1-800-969-DIRT • FAX: 516-867-6480

Log Number

NON-HAZARDOUS MATERIAL MANIFEST

GENERATOR

LOCKHEED MARTIN CORP.

Generator Name FORMER UNISYS SITE Shipping Location SAME

Address 365 LAKE SUCCESS ROAD Address _____

LAKE SUCCESS, NY

Phone No. _____ Phone No. _____

Approval Number	Description of Material	Codes	Gross Weight	Net Weight (Tons)
	NON HAZ PETROLEUM CONTAMINATED SOIL DESTINED FOR RECYCLING			
			Tare Weight	
			Net Weight	

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to applicable regulations.

Dennis J. McWright
Generator Authorized Agent Name

[Signature]
Signature

3-1-02
Shipment Date

TRANSPORTER

Transporter Name AB RECYCLING, LLC Driver Name (Print) Roger

Address 190 POMPTON PLAINS CROSSROADS Vehicle License No./State AE 707X

WAYNE, NJ 07470 (973) 835-9434 Truck Number 007

State Permit # NJ-561

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature _____ Shipment Date _____ Driver Signature _____ Delivery Date _____

DESTINATION

Site Name _____ Phone No. _____

Address CLEAN EARTH OF PHILADELPHIA, PA

61st STREET State Permit # _____

PHILADELPHIA, PA 301220

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent _____ Signature _____ Receipt Date _____
GENERATOR

ALLIED WASTE SERVICES, INC.

2163 MERRICK AVE., MERRICK, NY 11566 • TEL: 1-800-969-DIRT • FAX: 516-867-6480

Log Number

NON-HAZARDOUS MATERIAL MANIFEST

GENERATOR

LOCKHEED MARTIN CORP.

Generator Name FORMER UNISYS SITE Shipping Location SAME
Address 365 LAKE SUCCESS ROAD Address _____
LAKE SUCCESS, NY
Phone No. _____ Phone No. _____

Approval Number	Description of Material	Codes	Gross Weight	Net Weight (Tons)
	NON HAZ PETROLEUM CONTAMINATED SOIL DESTINED FOR RECYCLING			
			Tare Weight	
			Net Weight	

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to applicable regulations.

DENNIS J. McCLAFFERTY Dennis J. McClafferty 3-1-02
Generator Authorized Agent Name Signature Shipment Date

TRANSPORTER

Transporter Name AB RECYCLING, LLC Driver Name (Print) Eduardo
Address 190 POMPTON PLAINS CROSSROADS Vehicle License No./State AC 400 B
WAYNE, NJ 07470 (973) 835-9434 Truck Number 501
State Permit # NJ-561

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Eduardo 3/1/02 Eduardo 3/1/02
Driver Signature Shipment Date Driver Signature Delivery Date

DESTINATION

Site Name _____ Phone No. _____
CLEAN EARTH OF PHILADELPHIA, PA
Address 61st STREET State Permit # _____
PHILADELPHIA, PA 301220

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent _____ Signature _____ Receipt Date _____
GENERATOR

ALLIED WASTE SERVICES, INC.

2163 MERRICK AVE., MERRICK, NY 11566 • TEL: 1-800-969-DIRT • FAX: 516-867-6480

Log Number

NON-HAZARDOUS MATERIAL MANIFEST

GENERATOR

LOCKHEED MARTIN CORP.

Generator Name FORMER UNISYS SITE Shipping Location SAME

Address 365 LAKE SUCCESS ROAD Address _____

LAKE SUCCESS, NY

Phone No. _____ Phone No. _____

Approval Number	Description of Material NON HAZ PETROLEUM CONTAMINATED SOIL DESTINED FOR RECYCLING	Codes	Gross Weight	Net Weight (Tons)
			Tare Weight	
			Net Weight	

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to applicable regulations.

DEANUS J. McCLAFFERTY
Generator Authorized Agent Name

Deanus J. McClafferty
Signature

3-1-02
Shipment Date

TRANSPORTER

Transporter Name AB RECYCLING, LLC Driver Name (Print) Jose Cruz

Address 190 POMPTON PLAINS CROSSROADS Vehicle License No./State A6836A

WAYNE, NJ 07470 (973) 835-9434 Truck Number LOYALTY-ENT-

State Permit # NJ-561

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Jose Cruz 3/1/02
Driver Signature Shipment Date

Jose Cruz 3/1/02
Driver Signature Delivery Date

DESTINATION

Site Name _____ Phone No. _____

CLEAN EARTH OF PHILADELPHIA, PA

Address 61st STREET State Permit # _____

PHILADELPHIA, PA 301220

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent _____ Signature _____ Receipt Date _____

GENERATOR

ALLIED WASTE SERVICES, INC.

2163 MERRICK AVE., MERRICK, NY 11566 • TEL: 1-800-969-DIRT • FAX: 516-867-6480

Log Number

NON-HAZARDOUS MATERIAL MANIFEST

GENERATOR

LOCKHEED MARTIN CORP.

Generator Name FORMER UNISYS SITE Shipping Location SAME
Address 365 LAKE SUCCESS ROAD Address _____
LAKE SUCCESS, NY

Phone No. _____ Phone No. _____

Approval Number	Description of Material	Codes	Gross Weight	Net Weight (Tons)
			Tare Weight	
			Net Weight	

NON HAZ PETROLEUM
CONTAMINATED SOIL
DESTINED FOR RECYCLING

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to applicable regulations.

Dennis J. McClafferty Generator Authorized Agent Name
Dennis J. McClafferty Signature
3-1-02 Shipment Date

TRANSPORTER

Transporter Name AB RECYCLING, LLC Driver Name (Print) _____
Address 190 POMPTON PLAINS CROSSROADS Vehicle License No./State _____
WAYNE, NJ 07470 (973) 835-9434 Truck Number _____

State Permit # NJ-561

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature _____ Shipment Date _____ Driver Signature _____ Delivery Date _____

DESTINATION

Site Name CLEAN EARTH OF PHILADELPHIA, PA Phone No. _____
Address 61st STREET State Permit # 301220
PHILADELPHIA, PA

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent _____ Signature _____ Receipt Date _____
GENERATOR

ALLIED WASTE SERVICES, INC.

2163 MERRICK AVE., MERRICK, NY 11566 • TEL: 1-800-969-DIRT • FAX: 516-867-6480

Log Number

NON-HAZARDOUS MATERIAL MANIFEST

GENERATOR

LOCKHEED MARTIN CORP.

FORMER UNISYS SITE

Generator Name _____ Shipping Location SAME

Address 365 LAKE SUCCESS ROAD Address _____

LAKE SUCCESS, NY

Phone No. _____ Phone No. _____

Approval Number	Description of Material NON HAZ PETROLEUM CONTAMINATED SOIL DESTINED FOR RECYCLING	Codes	Gross Weight	Net Weight (Tons)
			Tare Weight	
			Net Weight	

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to applicable regulations.

DENNIS J. McCLAFFERTY Dennis J. McClafferty 3-1-02
Generator Authorized Agent Name Signature Shipment Date

TRANSPORTER

Transporter Name AB RECYCLING, LLC Driver Name (Print) _____

Address 190 POMPTON PLAINS CROSSROADS Vehicle License No./State _____

WAYNE, NJ 07470 (973) 835-9434 Truck Number _____

State Permit # NJ-561

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature _____ Shipment Date _____ Driver Signature _____ Delivery Date _____

DESTINATION

Site Name CLEAN EARTH OF PHILADELPHIA, PA Phone No. _____

Address 61ST. STREET State Permit # 301220
PHILADELPHIA, PA

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent _____ Signature _____ Receipt Date _____
GENERATOR

Log Number

ALLIED WASTE SERVICES, INC.

2163 MERRICK AVE., MERRICK, NY 11566 • TEL: 1-800-969-DIRT • FAX: 516-867-6480

NON-HAZARDOUS MATERIAL MANIFEST

GENERATOR

LOCKHEED MARTIN CORP.

Generator Name FORMER UNISYS SITE Shipping Location SAME

Address 365 LAKE SUCCESS ROAD Address _____

LAKE SUCCESS, NY

Phone No. _____ Phone No. _____

Approval Number	Description of Material	Codes	Gross Weight	Net Weight (Tons)
	NON HAZ PETROLEUM CONTAMINATED SOIL DESTINED FOR RECYCLING			
			Tare Weight	
			Net Weight	

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to applicable regulations.

DENNIS J. McLAFFERTY
Generator Authorized Agent Name

Dennis J. McLaflerty
Signature

3-1-02
Shipment Date

TRANSPORTER

Transporter Name AB RECYCLING, LLC Driver Name (Print) HOWARD DA COSTA

Address 190 POMPTON PLAINS CROSSROADS Vehicle License No./State 8300 PB NJ

WAYNE, NJ 07470 (973) 835-9434 Truck Number TSD # 211

State Permit # NJ-561

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Howard Da Costa
Driver Signature

2:35 PM
3/1/02
Shipment Date

Driver Signature Delivery Date

DESTINATION

Site Name _____ Phone No. _____

Address CLEAN EARTH OF PHILADELPHIA, PA

61st STREET State Permit # _____

PHILADELPHIA, PA 301220

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent

Signature

Receipt Date

GENERATOR

13

ALLIED WASTE SERVICES, INC.

2163 MERRICK AVE., MERRICK, NY 11566 • TEL: 1-800-969-DIRT • FAX: 516-867-6480

Log Number

NON-HAZARDOUS MATERIAL MANIFEST

GENERATOR

LOCKHEED MARTIN CORP.
FORMER UNISYS SITE

Generator Name _____ Shipping Location SAME

Address 365 LAKE SUCCESS ROAD Address _____

LAKE SUCCESS, NY

Phone No. _____ Phone No. _____

Approval Number	Description of Material	Codes	Gross Weight	Net Weight (Tons)
	NON HAZ PETROLEUM CONTAMINATED SOIL DESTINED FOR RECYCLING		Tare Weight	
			Net Weight	

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to applicable regulations.

DENNIS J. McCLAFFERTY Dennis J. McClafferty 3-1-02

Generator Authorized Agent Name Signature Shipment Date

TRANSPORTER

Transporter Name AB RECYCLING, LLC Driver Name (Print) BUSETAS TRUCKING

Address 190 POMPTON PLAINS CROSSROADS Vehicle License No./State W 991-48X

WAYNE, NJ 07470 (973) 835-9434 Truck Number 221

State Permit # NJ-561

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

[Signature] 03-01-02 [Signature] 03-01-02

Driver Signature Shipment Date Driver Signature Delivery Date

DESTINATION

Site Name CLEAN EARTH OF PHILADELPHIA, PA Phone No. _____

Address 61st STREET State Permit # 301220

PHILADELPHIA, PA

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent _____ Signature _____ Receipt Date _____

GENERATOR

ALLIED WASTE SERVICES, INC.

2163 MERRICK AVE., MERRICK, NY 11566 • TEL: 1-800-969-DIRT • FAX: 516-867-6480

Log Number

NON-HAZARDOUS MATERIAL MANIFEST

GENERATOR

LOCKHEED MARTIN CORP.

Generator Name FORMER UNISYS SITE Shipping Location SAME

Address 365 LAKE SUCCESS ROAD Address _____

LAKE SUCCESS, NY _____

Phone No. _____ Phone No. _____

Approval Number	Description of Material	Codes	Gross Weight	Net Weight (Tons)
			Tare Weight	
			Net Weight	

NON HAZ PETROLEUM
CONTAMINATED SOIL
DESTINED FOR RECYCLING

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to applicable regulations.

DENNIS J. McCLAFFERTY
Generator Authorized Agent Name

Dennis J. McClafferty
Signature

3-1-02
Shipment Date

TRANSPORTER

Transporter Name AB RECYCLING, LLC Driver Name (Print) JEN CAR TRUCKING CO

Address 190 POMPTON PLAINS CROSSROADS Vehicle License No./State AF 944 K NJ

WAYNE, NJ 07470 (973) 835-9434 Truck Number 72

State Permit # NJ-561

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Carlos Echaverri
Driver Signature

03/01/02
Shipment Date

Carlos Echaverri
Driver Signature

03/01/02
Delivery Date

DESTINATION

Site Name _____ Phone No. _____

Address CLEAN EARTH OF PHILADELPHIA, PA

61ST STREET State Permit # _____

PHILADELPHIA, PA 301220

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent _____ Signature _____ Receipt Date 3/1/02

GENERATOR

ALLIED WASTE SERVICES, INC.

2163 MERRICK AVE., MERRICK, NY 11566 • TEL: 1-800-969-DIRT • FAX: 516-867-6480

Log Number

NON-HAZARDOUS MATERIAL MANIFEST

GENERATOR

LOCKHEED MARTIN CORP.

Generator Name FORMER UNISYS SITE Shipping Location SAME
Address 365 LAKE SUCCESS ROAD Address _____
LAKE SUCCESS, NY
Phone No. _____ Phone No. _____

Approval Number	Description of Material	Codes	Gross Weight	Net Weight (Tons)
	NON HAZ PETROLEUM CONTAMINATED SOIL DESTINED FOR RECYCLING		Tare Weight	
			Net Weight	

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to applicable regulations.

DENNIS J. McCLAFFERTY Generator Authorized Agent Name
Dennis J. McClafferty Signature
3-7-02 Shipment Date

TRANSPORTER

Transporter Name AB RECYCLING, LLC Driver Name (Print) _____
Address 190 POMPTON PLAINS CROSSROADS Vehicle License No./State _____
WAYNE, NJ 07470 (973) 835-9434 Truck Number _____
State Permit # NJ-561

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature _____ Shipment Date _____ Driver Signature _____ Delivery Date _____

DESTINATION

Site Name CLEAN EARTH OF PHILADELPHIA, PA Phone No. _____
Address 61st STREET State Permit # _____
PHILADELPHIA, PA 301220

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent _____ Signature _____ Receipt Date _____
GENERATOR

()

()

()

Appendix C

Area 21 Photographs



Excavation Activities





Inside View Of Drain Pipe





Repair To Drain Pipe



Repair To Drain Pipe



Repair To Drain Pipe



Repair To Drain Pipe



Repair To Drain Pipe



Repair To Drain Pipe



Repair To Drain Pipe



Repair To Drain Pipe



Compacting of Soil Prior to Pouring of Concrete



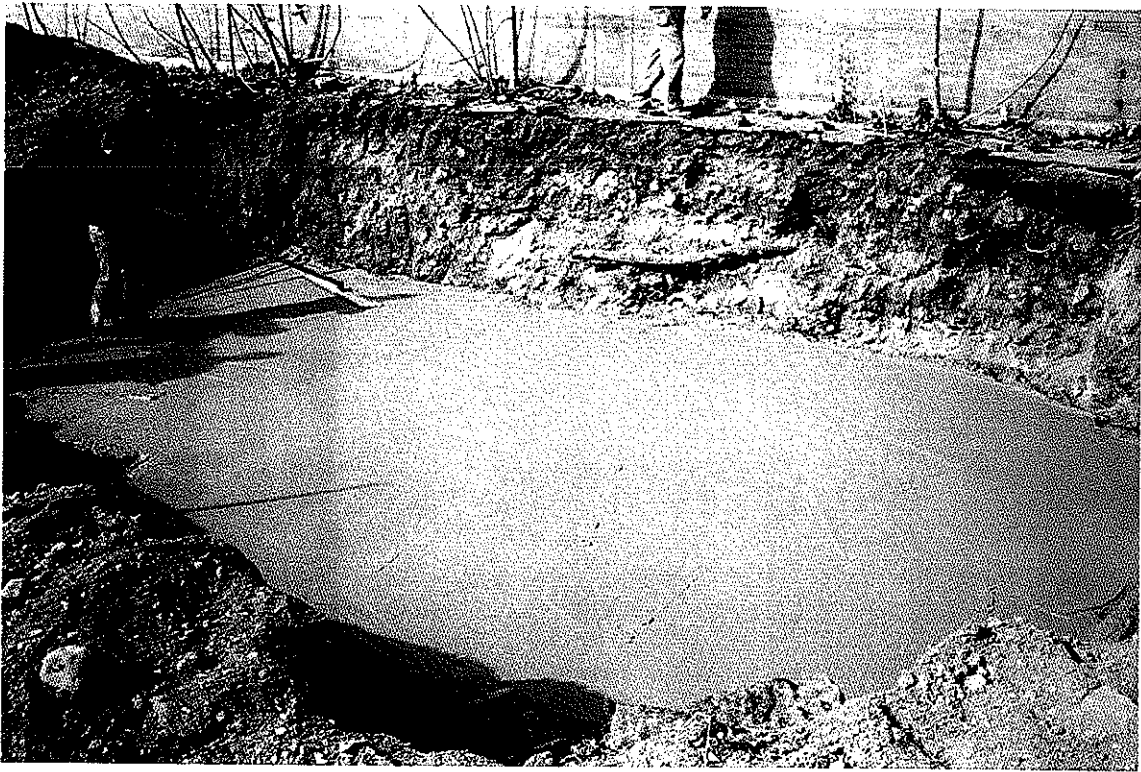
Installation of Wire Mesh



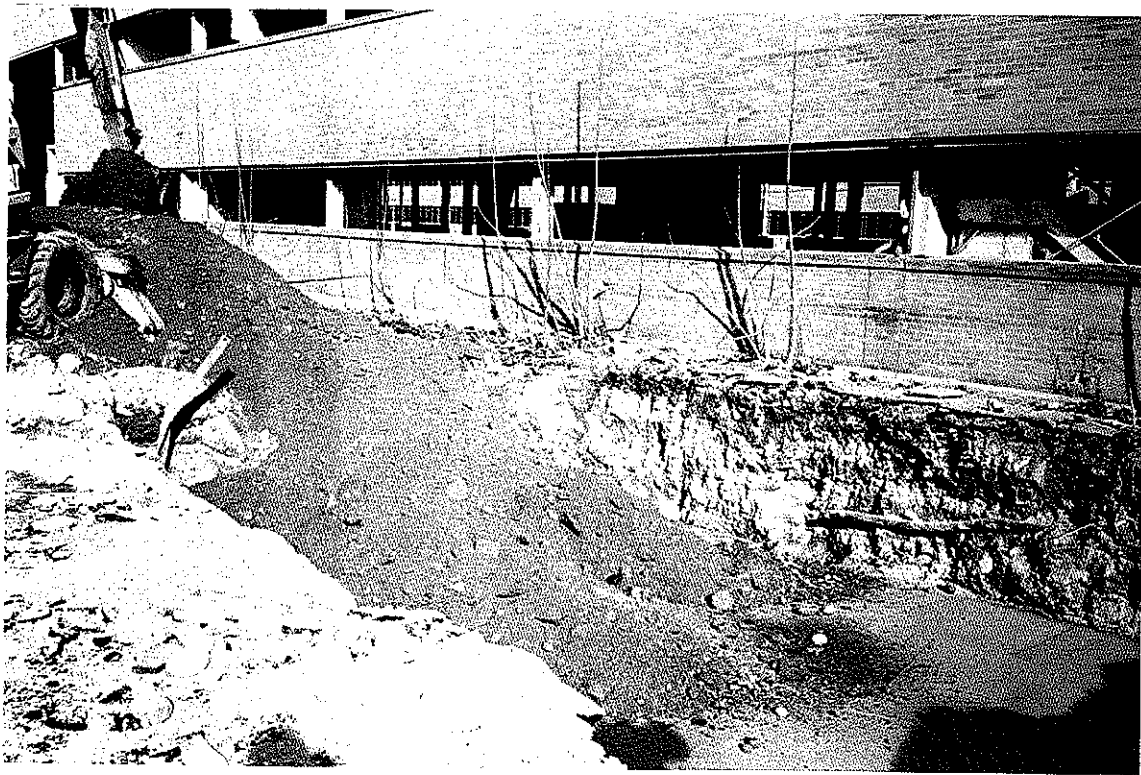
Poring of Concrete Pad



Working of Concrete Pad



Leveling of Concrete Pad



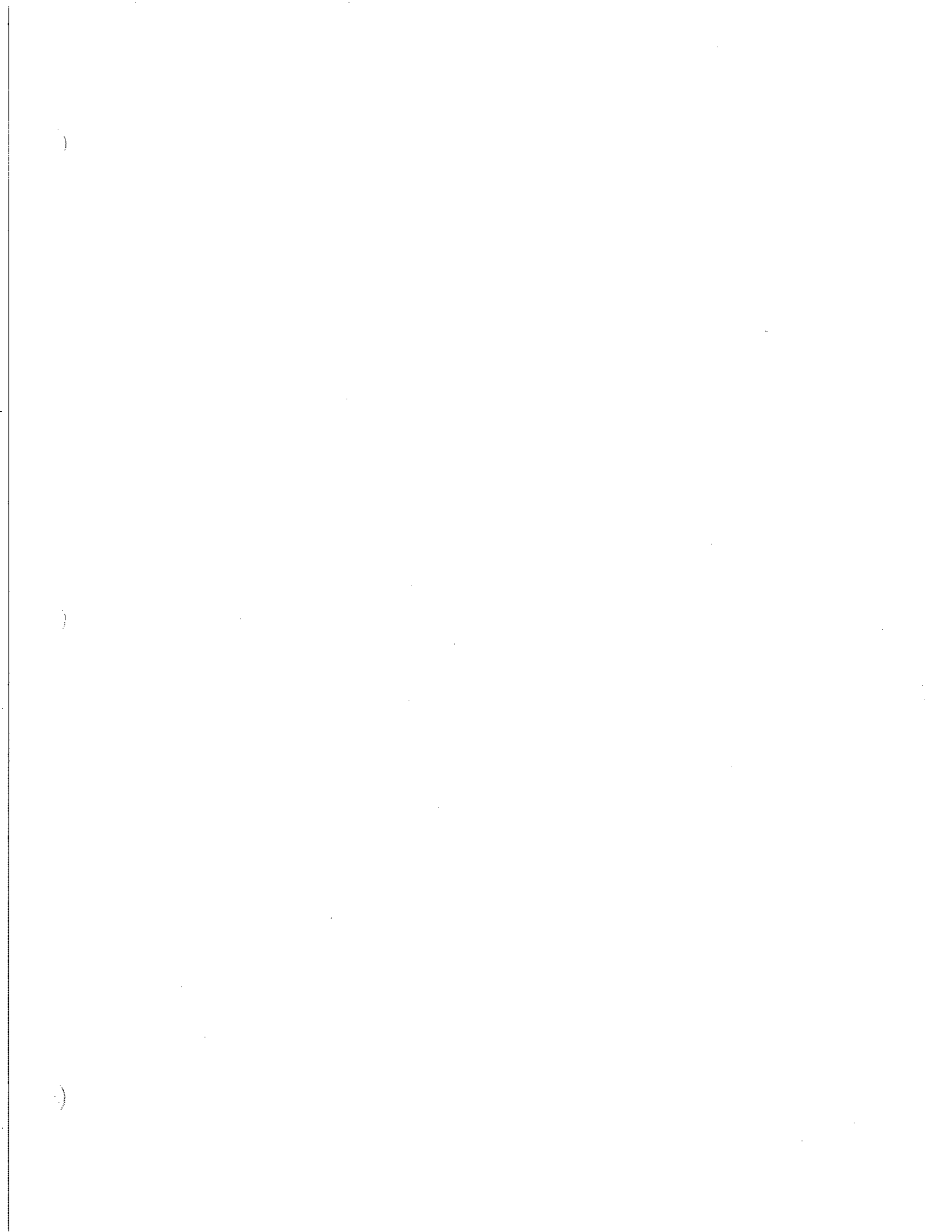
Backfilling



Restoration



Restoration



Appendix D

Clean Fill Certification Letter



February 26, 2002

Mr. William Holubowich
ARCADIS G&M, Inc.
88 Duryea Road
Melville, New York 11747

Subject:

Clean Fill Certification for RCRA Closure Excavations, Former Unisys Facility, Great Neck, New York

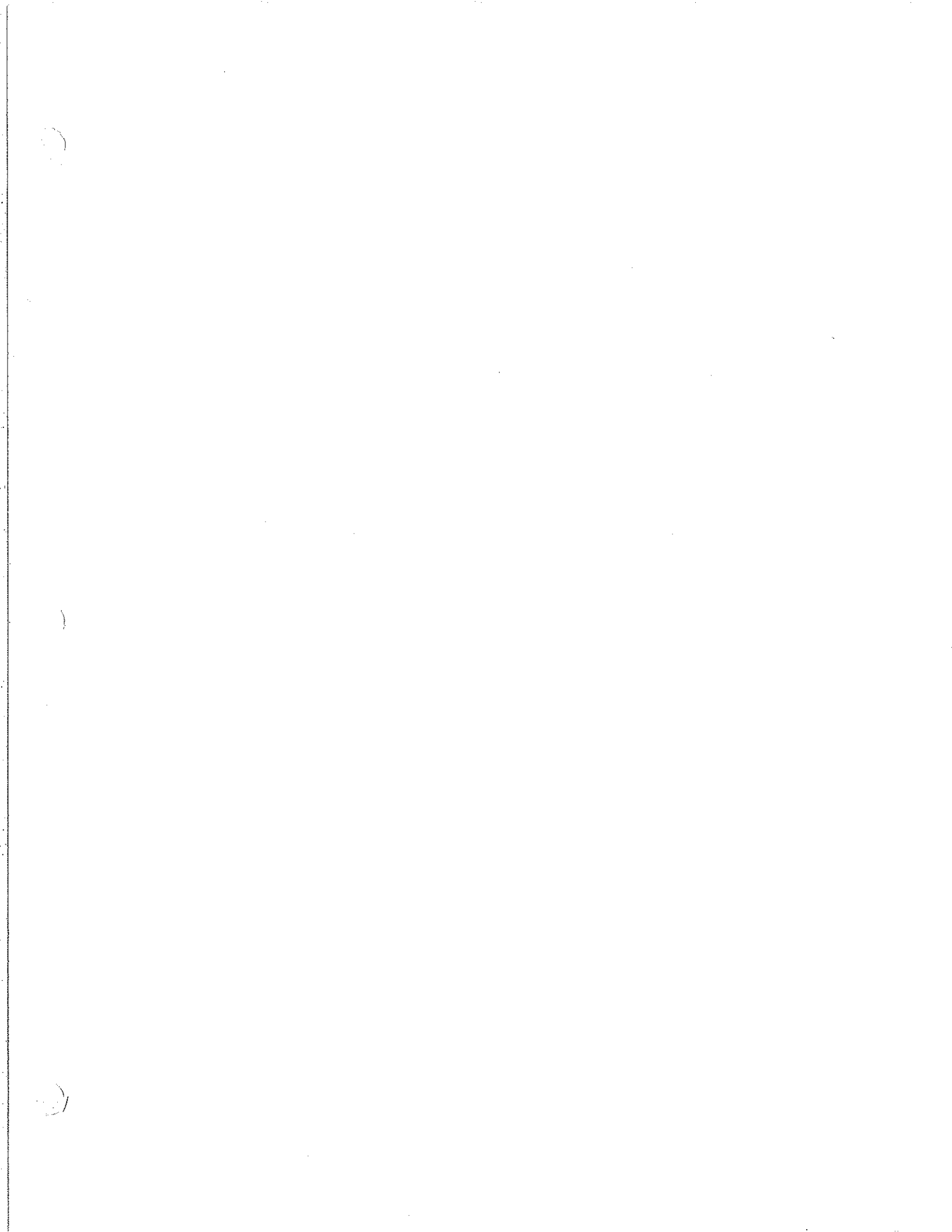
Dear Mr. Holubowich:

Blue Water Environmental, Inc. (BWE) is providing this letter to certify that all fill utilized for restoration of areas 15, 24, 26, FPM-1, FPM-8, FPM-19 is from a virgin source and contains no contaminants. If you have any questions or comments, please do not hesitate to call me at 631-249-1872 ext. 249.

Sincerely,
Blue Water Environmental, Inc.

A handwritten signature in cursive script that reads "Joe Posillico III".

Joe Posillico III
Treasurer



Appendix E

Chain of Custody and Laboratory
Data Package for April 2001 Soil
Sampling Round

Project Number/Name N-0-1227-0017-0001

Project Location Point of View Hwy

Laboratory STL

Project Manager Christina Records, Tucky

Sampler(s)/Affiliation SH

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Remarks	Total
15A/1-1	S	4/26/01			
15A/4-5					
15A/7-10					
15A/13-15					
15B/1-1					
15B/4-5					
15B/7-10					
15B/11-13					
15C/1-1					
15C/4-5					
15C/7-10					
15C/11-13					
21B-C/1-1					
21B-C/4-5					

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 16

Relinquished by: _____	Organization: <u>ARCADIS G & M</u>	Date: <u>7/26/01</u>	Time: <u>1100</u>	Seal Intact?
Received by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Yes No N/A
Relinquished by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Seal Intact?
Received by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Yes No N/A

Special Instructions/Remarks: Use Sample 15A/13-15 For a MS/MSD

Delivery Method: In Person Common Carrier FED EX Lab Courier Other _____

Project Number/Name NY-277-2017-1021

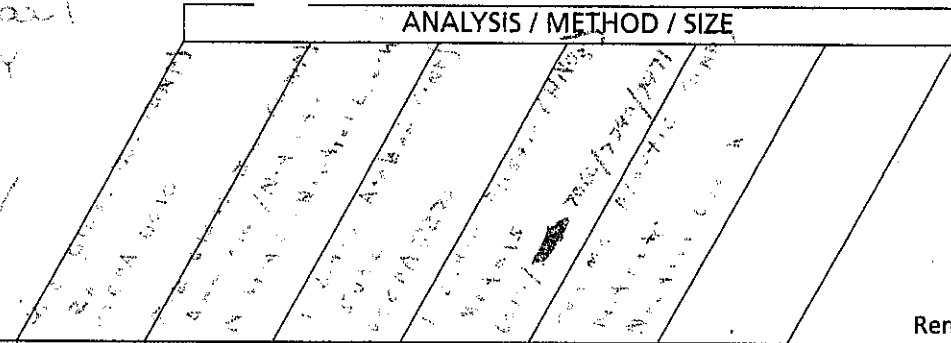
Project Location West NY

Laboratory L

Project Manager [Signature]

Sampler(s)/Affiliation SH

ANALYSIS / METHOD / SIZE



Sample ID/Location	Matrix	Date/Time Sampled	Lab ID								Remarks	Total
EDA-1/10-1	S	4/20/10		1								1
EDA-2/4-5				1								1
EDA-3/10-1				1								1
EDA-4/4-5				1								1
EDA-5/10-1				1								1
EDA-6/4-5				1								1
EDM-13/10-1				1								1
EDM-18/4-5				1								1
EDM-18/9-10				1								1
EDM-14/10-1				1								1
EDM-14/4-5				1								1
EDM-14/9-10	L			1								1
EDM-14/10-1	L			1								1
EDM-14/4-5	L			1								1
EDM-14/9-10	L			1								1
EDM-14/10-1	L			1								1
EDM-14/4-5	L			1								1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 16

Relinquished by: <u>[Signature]</u>	Organization: <u>ARCADIS G & M</u>	Date: <u>4/1/10</u>	Time: <u>1700</u>	Seal Intact?
Received by: <u>[Signature]</u>	Organization: _____	Date: <u>1/1</u>	Time: _____	Yes No N/A

Relinquished by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Seal Intact?
Received by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Yes No N/A

Special Instructions/Remarks: _____

Delivery Method: In Person Common Carrier Fed Ex Lab Courier Other _____

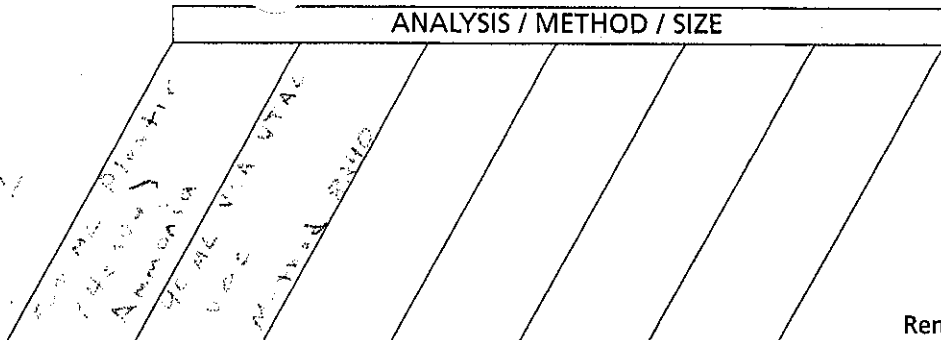
Project Number/Name NY001227.0017.00001

Project Location Crest Neck, NY

Laboratory STL

Project Manager Christina Barardi, T.M.

Sampler(s)/Affiliation SH



Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE				Remarks	Total
FB 4/26/01	L	4/26/01	1						
TB 4/26/01	L	4/26/01	2						

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 2

Relinquished by: <u>[Signature]</u>	Organization: <u>ARCADIS F + M</u>	Date: <u>4/26/01</u>	Time: <u>1700</u>	Seal Intact?
Received by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Yes No N/A
Relinquished by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Seal Intact?
Received by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Yes No N/A

Special Instructions/Remarks: _____

Delivery Method: In Person Common Carrier FED EX Lab Courier Other _____

Project Number/Name N3001227001700001

Project Location Great Neck NY

Laboratory STI

Project Manager Christina Board Toney

Sampler(s)/Affiliation SH

ANALYSIS / METHOD / SIZE
 2oz Glass Jar (L1118)
 VOC: PPM
 SVOC: PPM
 PCB: PPM
 2oz Glass Jar (L1118)
 VOC: PPM
 SVOC: PPM
 PCB: PPM

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Remarks	Total
FPM-8A/0-1	S	4/27/01			22
FPM-8A/4-5					
FPM-8A/9-10					
FPM-8A/14-15					
FPM-8B/0-1					
FPM-8B/4-5					
FPM-8B/9-10					
FPM-8B/14-15					
FPM-8C/0-1					
FPM-8C/4-5					
FPM-8C/9-10					
FPM-8C/14-15					
FPM-8D/0-1					
FPM-8D/4-5					
FPM-8D/9-10					

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 30

Relinquished by: Sharon Healy Organization: Arcadis G+M Date: 4/27/01 Time: 1700 Seal Intact? Yes No N/A
 Received by: _____ Organization: _____ Date: 1/1 Time: _____ Seal Intact? Yes No N/A
 Relinquished by: _____ Organization: _____ Date: 1/1 Time: _____ Seal Intact? Yes No N/A
 Received by: _____ Organization: _____ Date: 1/1 Time: _____ Seal Intact? Yes No N/A

Special Instructions/Remarks: _____

Delivery Method: In Person Common Carrier Fed Ex Lab Courier Other _____ SPECIFY AG 05-0597

Project Number/Name NY001227.0017.00001

Project Location Great Neck NY

Laboratory STL

Project Manager Christine Borrardi Tuohy

Sampler(s)/Affiliation SH

ANALYSIS / METHOD / SIZE
 Date Glass Ver (WNA)
 Date Glass Ver (TAT)
 Use Method 8240

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Remarks	Total
FPM-8D/13-15	S	4/27/01	W		6
FPM-8E/14-15					2
FPM-8F/14-15					2
FPM-8G/14-15					2
FPM-8H/14-15					2
FPM-8I/14-15					2
FPM-8J/14-15					2
FPM-8K/14-15					2
FPM-8L/14-15					2
FPM-8M/14-15					2
FPM-8N/14-15					2
FPM-8O/14-15					2
FPM-8P/14-15					2
FPM-8Q/14-15					2
FPM-8R/14-15					2

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 34

Relinquished by: <u>Sharon Orsady</u>	Organization: <u>ARCADIS G & M</u>	Date: <u>4/27/01</u>	Time: <u>1700</u>	Seal Intact? <u>Yes</u>
Received by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Seal Intact? <u>Yes</u>
Relinquished by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Seal Intact? <u>Yes</u>
Received by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Seal Intact? <u>Yes</u>

Special Instructions/Remarks: Please use Sample-s FPM-8D/13-15 (8oz & 2oz) for a MS/MSD

Delivery Method: In Person Common Carrier Fed Ex Lab Courier Other _____

Project Number/Name NH001227.0017.00001

Project Location Street North NY

Laboratory STL

Project Manager Christina Brandt Tech

Sampler(s)/Affiliation SH

ANALYSIS / METHOD / SIZE
 2oz Glass Jar (LUMP)
 SVOC / PPM / 8270
 1 Liter Amber (LUMP)
 VOC Lab's Jar (LUMP)
 Method: 8240
 1 Liter Amber (LUMP)
 SVOC Method: 8270
 1 Liter Amber (LUMP)
 Method: 8270
 40mg / 7740 / 7477
 VOC Method: 8240
 1 Liter Amber (LUMP)

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Remarks	Total
<u>11/11/01</u>	<u>S</u>	<u>4/27/01</u>	<u>1</u>		<u>1</u>
<u>11/11/01</u>	<u>S</u>	<u>1/1</u>	<u>W*</u>		<u>1</u>
<u>11/27/01</u>	<u>L</u>				<u>1</u>
<u>11/27/01</u>	<u>L</u>				<u>1</u>
<u>11/27/01</u>	<u>L</u>				<u>1</u>
<u>11/27/01</u>	<u>L</u>				<u>1</u>

Sample Matrix: L = Liquid; S = Solid; A = Air Total No. of Bottles/Containers 13(17)

Relinquished by: Susan DeLong Organization: Arcadis G+M Date: 4/27/01 Time: 1700 Seal Intact? Yes
 Received by: _____ Organization: _____ Date: 1/1 Time: _____ Seal Intact? Yes

Relinquished by: _____ Organization: _____ Date: 1/1 Time: _____ Seal Intact? Yes
 Received by: _____ Organization: _____ Date: 1/1 Time: _____ Seal Intact? Yes

Special Instructions/Remarks: USE Sample - S FPM-19H/13-15 (2oz + 2oz) for MS/MSD

Delivery Method: In Person Common Carrier Fed Ex Lab Courier Other _____

Project Number/Name NY001227 0017.00001

Project Location Great Neck, NY

Laboratory STL

Project Manager Christina Record, Tuckey

Sampler(s)/Affiliation SH

2oz Glass Jar (LID)
 VOC: 8240
 PPM: 6010/7060/7740/7740
 2oz Glass Jar (LID)
 VOC
 Method: 8240

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID							Remarks	Total
FPM-19A/0-1	S	4/30/01		1	1						N
FPM-19A/4-5				1	1						N
FPM-19A/9-10				1	1						N
FPM-19B/6-1				1	1						N
FPM-19B/4-5				1	1						N
FPM-19B/9-10				1	1						N
FPM-19B/14-15				1	1						N
FPM-19C/0-1				1	1						N
FPM-19C/4-5				1	1						N
FPM-19C/9-10				1	1						N
FPM-19C/14-15				1	1						N
FPM-19D/0-1				1	1						N
FPM-19D/4-5				1	1						N
FPM-19D/9-10				1	1						N
FPM-19D/14-15				1	1						N

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 30

Relinquished by: Sharon Wesley Organization: ARCADIS G & M Date: 4/30/01 Time: 1900 Seal Intact? Yes

Received by: _____ Organization: _____ Date: 1/1 Time: _____ Seal Intact? Yes

Relinquished by: _____ Organization: _____ Date: 1/1 Time: _____ Seal Intact? Yes

Received by: _____ Organization: _____ Date: 1/1 Time: _____ Seal Intact? Yes

Special Instructions/Remarks: _____

Delivery Method: In Person Common Carrier Fed Ex Lab Courier Other _____

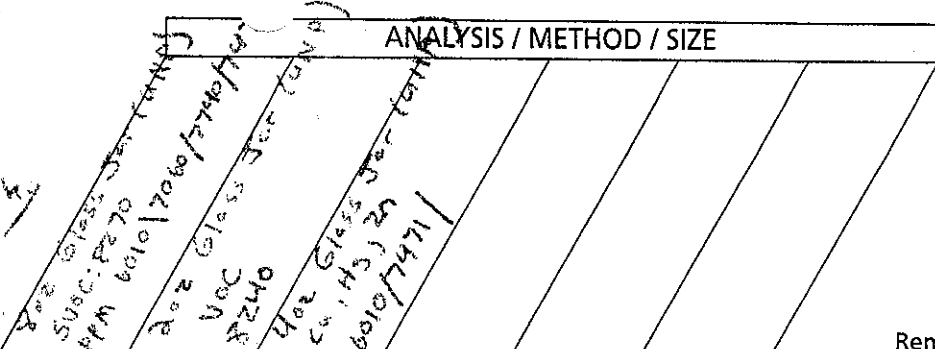
Project Number/Name NY 201227 0017 000 01

Project Location Great Neck, NY

Laboratory STL

Project Manager Christina Berardi Tucky

Sampler(s)/Affiliation SH



Sample ID/Location	Matrix	Date/Time Sampled	Lab ID							Remarks	Total
FPM-19E/0-1	S	4/30/01									N
FPM-19E/4-5											N
FPM-19E/9-10											N
FPM-19E/14-15											N
FPM-19F/0-1											N
FPM-19F/4-5											N
FPM-19F/9-10											N
FPM-19F/14-15											N
FPM-19G/0-1											N
FPM-19G/4-5											N
FPM-19G/9-10											N
FPM-19G/14-15											N
26D-C/0-1											N
26D-C/4-5											N
26D-B/0-1	V										N

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 27

Relinquished by: <u>Christina Berardi Tucky</u>	Organization: <u>ARCADIS G&M</u>	Date: <u>4/30/01</u>	Time: <u>1900</u>	Seal Intact?
Received by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Yes No N/A
Relinquished by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Seal Intact?
Received by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Yes No N/A

Special Instructions/Remarks: _____

Delivery Method: In Person Common Carrier FedEx Lab Courier Other _____

SPECIFY

SPECIFY

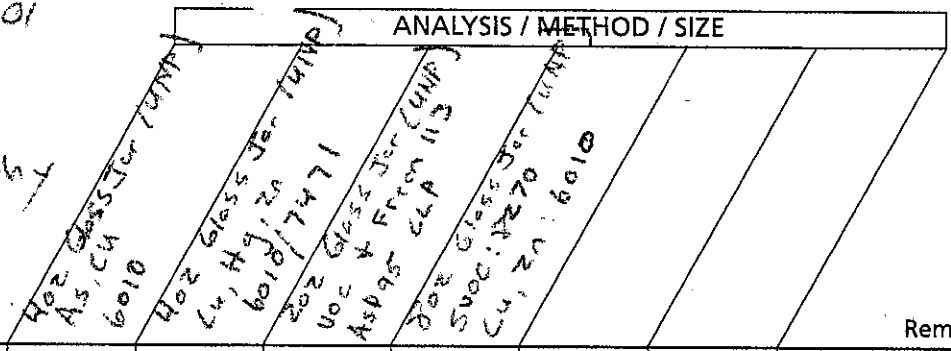
Project Number/Name NY001277-0017-00001

Project Location Green Neck, NY

Laboratory STL

Project Manager Christina Bernardi Tucky

Sampler(s)/Affiliation SH



Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE	Remarks	Total
26D-B/4-5	S	4/30/01				1
26D-D/0-1						1
26D-D/4-5						1
26B-B/0-1						1
26B-B/4-5						3
26B-D/0-1						1
26B-D/4-5						1
IRM-SB1/4-5						2
IRM-SB1/9-10						2
21D/0-1						1
21D/4-5						1
21D/9-10						1
21D/14-15						1
21E/0-1						1
21E/4-5						1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 19

Relinquished by: Sharon Maly Organization: Arcadis G&M Date: 4/30/01 Time: 1900 Seal Intact? Yes

Received by: _____ Organization: _____ Date: 1/1 Time: _____ Seal Intact? Yes

Relinquished by: _____ Organization: _____ Date: 1/1 Time: _____ Seal Intact? Yes

Received by: _____ Organization: _____ Date: 1/1 Time: _____ Seal Intact? Yes

Special Instructions/Remarks: Use Sample 26B-B/4-5 For MS/MSD

Delivery Method: In Person Common Carrier Fed Ex Lab Courier Other _____

Project Number/Name NY001227 0017.00001

Project Location Great Neck, NY

Laboratory STL

Project Manager Christina Bernardi Tucky

Sampler(s)/Affiliation SH

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Remarks	Total
21E/9-10	S	4/30/01	1		1
21E/14-15			1		1
21F/8-1			1		1
21F/4-5			1		1
21F/9-10			1		1
21F/14-15			1		1
FB 4/30/01	L		2		2
FB 4/30/01	L		1		1
FB 4/30/01				2	2
FB 4/30/01					2

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 13

Relinquished by: <u>Brown Healey</u>	Organization: <u>ARCADIS G & M</u>	Date: <u>4/15/01</u>	Time: <u>1900</u>	Seal Intact?
Received by: _____	Organization: _____	Date: <u>1 1</u>	Time: _____	Yes No N/A
Relinquished by: _____	Organization: _____	Date: <u>1 1</u>	Time: _____	Seal Intact?
Received by: _____	Organization: _____	Date: <u>1 1</u>	Time: _____	Yes No N/A

Special Instructions/Remarks: _____

Delivery Method: In Person Common Carrier Fed Ex Lab Courier Other _____

SPECIFY

SPECIFY

Project Number/Name NY 001227 0017 0001

Project Location Great Neck NY

Laboratory DTL

Project Manager Christina Brennan

Sampler(s)/Affiliation SH

PCB
 Method: P-10
 PCB
 Method: P-10
 PCB
 Method: P-10
 PCB
 Method: P-10
 PCB
 Method: P-10

ANALYSIS / METHOD / SIZE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE						Remarks	Total
24A	S	5/4/01									1
24B	S	↓									1
24C	S	↓									1
24D	S	↓									1
24E	S	↓									1
24F	S	↓									1
FB 5/4/01	L				2						2

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 8

Relinquished by: <u>Shawn Healy</u>	Organization: <u>Arcadis G+M</u>	Date: <u>5/4/01</u>	Time: <u>1600</u>	Seal Intact? Yes No N/A
Received by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	
Relinquished by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Seal Intact? Yes No N/A
Received by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	

Special Instructions/Remarks: _____

Delivery Method: In Person Common Carrier Fed Ex Lab Courier Other _____

Revised
Report
7001-1041A



May 21, 2001

Ms. Christina Berardi-Tuohy
ARCADIS/GERAGHTY & MILLER
88 Duryea Road
Melville, NY 11747

STL Connecticut
128 Long Hill Cross Road
Shelton, CT 06484

Tel: 203 929 8140
Fax: 203 929 8142
www.stl-inc.com

Dear Ms. Berardi-Tuohy :

Please find enclosed the analytical results of 25 sample(s) received at our laboratory on April 27, 2001. This report contains sections addressing the following information at a minimum:

- . sample summary
- . analytical methodology
- . state certifications
- . definition of data qualifiers and terminology
- . analytical results
- . chain-of-custody

STL Report #7001-1041A	Purchase Order #NY001227.0017.00001
Project ID: LOCKHEED MARTIN RCRA SOIL	

Copies of this analytical report and supporting data are maintained in our files for a minimum of five years unless special arrangements have been made. Unless specifically indicated, all analytical testing was performed at this laboratory location and no portion of the testing was subcontracted.

We appreciate your selection of our services and welcome any questions or suggestions you may have relative to this report. Please contact your customer service representative at (203) 929-8140 for any additional information. Thank you for utilizing our services; we hope you will consider us for your future analytical needs.

I have reviewed and approved the enclosed data for final release.

Very truly yours,

Jeffrey C. Curran
Laboratory Manager

JCC

This report contains 118 pages.

•
7001-1041A Revised
ARCADIS GERAGHTY & MILLER

Case Narrative

Sample Receipt –The samples were received at 9°C. The client was notified, and the laboratory was instructed to proceed with the analyses.

Metals – ICAP metals were determined using a JA61E trace ICAP; mercury was determined by cold vapor technique using a Leeman Labs mercury analyzer; following guidance provided in SW846 according to methods: ICAP – 3050B/6010B; mercury-7471A.

No problems occurred during analysis. All appropriate protocols were employed. All data appears to be consistent.

Semi-Volatile Organics - Semi-volatile organic samples were extracted and analyzed by capillary GC/MS according to NYSDEC '95 Protocols using guidance provided in Methods 3541/8270C. The instrumentation used was a Hewlett-Packard Gas Chromatograph interfaced with a Mass Selective Detector.

All samples were extracted, concentrated and analyzed without any apparent problems, except as noted below.

Sample 15B/0-1 would not concentrate to a final volume of 0.5 mls and so was brought to a final volume of 1 ml. The sample was analyzed at a 1:400 dilution due to the presence of high target compounds.

Sample 15C/0-1 exhibited internal standard area suppression and high levels of target compounds. The sample was re-analyzed at a 1:2 dilution exhibiting internal standard area suppression, confirming matrix interference. Both analyses are reported, with the reanalysis indicated by the suffix "DL".

Sample 15B/4-5 was analyzed at a 1:4 dilution and sample 15A/0-1 was analyzed at a 1:20 dilution due to the presence of high levels of target compounds.

TABLE SV-1.0
7001-1041A
ARCADIS/GERAGHTY & MILLER
TCL SEMI-VOLATILE ORGANICS

0002 Soil

page 1 of 2

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	15A/4-5	15A/9-10	Quant. Limits with no Dilution
Lab Sample I.D.	SBLKVQ	011041A-02	011041A-03	
Method Blank I.D.	SBLKVQ	SBLKVQ	SBLKVQ	
Quant. Factor	1.00	1.14	1.04	
Phenol	U	U	U	330
bis(2-Chloroethyl)ether	U	U	U	330
2-Chlorophenol	U	U	U	330
1,3-Dichlorobenzene	U	U	U	330
1,4-Dichlorobenzene	U	U	U	330
Benzyl alcohol	U	U	U	330
1,2-Dichlorobenzene	U	U	U	330
2-Methylphenol	U	U	U	330
2,2'-oxybis(1-Chloropropane)	U	U	U	330
4-Methylphenol	U	U	U	330
N-Nitroso-di-n-propylamine	U	U	U	330
Hexachloroethane	U	U	U	330
Nitrobenzene	U	U	U	330
Isophorone	U	U	U	330
2-Nitrophenol	U	U	U	330
2,4-Dimethylphenol	U	U	U	330
benzoic acid	U	U	U	1600
bis(2-Chloroethoxy)methane	U	U	U	330
2,4-Dichlorophenol	U	U	U	330
1,2,4-Trichlorobenzene	U	U	U	330
Naphthalene	U	U	U	330
4-Chloroaniline	U	U	U	330
Hexachlorobutadiene	U	U	U	330
4-Chloro-3-methylphenol	U	U	U	330
2-Methylnaphthalene	U	U	U	330
Hexachlorocyclopentadiene	U	U	U	330
2,4,6-Trichlorophenol	U	U	U	330
2,4,5-Trichlorophenol	U	U	U	1600
2-Chloronaphthalene	U	U	U	330
2-Nitroaniline	U	U	U	1600
Dimethylphthalate	U	U	U	330
Acenaphthylene	U	U	U	330
2,6-Dinitrotoluene	U	U	U	330
3-Nitroaniline	U	U	U	1600
Acenaphthene	U	U	U	330
Date Received		04/27/01	04/27/01	
Date Extracted	05/01/01	05/01/01	05/01/01	
Date Analyzed	05/02/01	05/03/01	05/03/01	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE SV-1.0
7001-1041A
ARCADIS/GERAGHTY & MILLER
TCL SEMI-VOLATILE ORGANICS

0003

Soil

page 2 of 2

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	15A/4-5	15A/9-10	Quant. Limits with no Dilution
Lab Sample I.D.	SBLKVQ	011041A-02	011041A-03	
Method Blank I.D.	SBLKVQ	SBLKVQ	SBLKVQ	
Quant. Factor	1.00	1.14	1.04	
2,4-Dinitrophenol	U	U	U	1600
4-Nitrophenol	U	U	U	1600
Dibenzofuran	U	U	U	330
2,4-Dinitrotoluene	U	U	U	330
Diethylphthalate	U	U	U	330
4-Chlorophenyl-phenylether	U	U	U	330
Fluorene	U	U	U	330
4-Nitroaniline	U	U	U	1600
4,6-Dinitro-2-methylphenol	U	U	U	1600
N-Nitrosodiphenylamine (1)	U	U	U	330
4-Bromophenyl-phenylether	U	U	U	330
Hexachlorobenzene	U	U	U	330
Pentachlorophenol	U	U	U	1600
Phenanthrene	U	21J	25J	330
Anthracene	U	12J	7J	330
Carbazole	U	12J	U	330
Di-n-butylphthalate	U	9J	U	330
Fluoranthene	U	29J	28J	330
Pyrene	U	26J	29J	330
Butylbenzylphthalate	U	U	U	330
3,3'-Dichlorobenzidine	U	U	U	660
Benzo(a)anthracene	U	28J	16J	330
Chrysene	U	33J	13J	330
bis(2-Ethylhexyl)phthalate	100J	44JB	35JB	330
Di-n-octylphthalate	U	U	U	330
Benzo(b)fluoranthene	U	54J	10J	330
Benzo(k)fluoranthene	U	76J	15J	330
Benzo(a)pyrene	U	67J	10J	330
Indeno(1,2,3-cd)pyrene	U	120J	U	330
Dibenzo(a,h)anthracene	U	46J	U	330
Benzo(g,h,i)perylene	U	150J	U	330
Date Received		04/27/01	04/27/01	
Date Extracted	05/01/01	05/01/01	05/01/01	
Date Analyzed	05/02/01	05/03/01	05/03/01	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE SV-1.1
7001-1041A
ARCADIS/GERAGHTY & MILLER
TCL SEMI-VOLATILE ORGANICS

0004

Soil

page 1 of 2

All values are ug/Kg dry weight basis.

Client Sample I.D.	15A/13-15	15A/13-15 MS	15A/13-15 MSD	Quant. Limits with no Dilution
Lab Sample I.D.	011041A-04	011041A-04MS	011041A-04	
Method Blank I.D.	SBLKVQ	SBLKVQ	SBLKVQ	
Quant. Factor	1.08	1.06	1.09	
Phenol	U	1900X	1900X	330
bis(2-Chloroethyl) ether	U	U	U	330
2-Chlorophenol	U	2300X	2300X	330
1,3-Dichlorobenzene	U	U	U	330
1,4-Dichlorobenzene	U	1100X	1100X	330
Benzyl alcohol	U	U	U	330
1,2-Dichlorobenzene	U	U	U	330
2-Methylphenol	U	U	U	330
2,2'-oxybis(1-Chloropropane)	U	U	U	330
4-Methylphenol	U	U	U	330
N-Nitroso-di-n-propylamine	U	1500X	1500X	330
Hexachloroethane	U	U	U	330
Nitrobenzene	U	U	U	330
Isophorone	U	U	U	330
2-Nitrophenol	U	U	U	330
2,4-Dimethylphenol	U	U	U	330
benzoic acid	U	U	U	1600
bis(2-Chloroethoxy)methane	U	U	U	330
2,4-Dichlorophenol	U	U	U	330
1,2,4-Trichlorobenzene	U	1500X	1500X	330
Naphthalene	U	U	U	330
4-Chloroaniline	U	U	U	330
Hexachlorobutadiene	U	U	U	330
4-Chloro-3-methylphenol	U	2000X	2000X	330
2-Methylnaphthalene	U	U	U	330
Hexachlorocyclopentadiene	U	U	U	330
2,4,6-Trichlorophenol	U	U	U	330
2,4,5-Trichlorophenol	U	U	U	1600
2-Chloronaphthalene	U	U	U	330
2-Nitroaniline	U	U	U	1600
Dimethylphthalate	U	U	U	330
Acenaphthylene	U	U	U	330
2,6-Dinitrotoluene	U	U	U	330
3-Nitroaniline	U	U	U	1600
Acenaphthene	U	1200X	1300X	330
Date Received	04/27/01	04/27/01	04/27/01	
Date Extracted	05/01/01	05/01/01	05/01/01	
Date Analyzed	05/03/01	05/03/01	05/03/01	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE SV-1.1
 7001-1041A
 ARCADIS/GERAGHTY & MILLER
 TCL SEMI-VOLATILE ORGANICS

0005

Soil

page 2 of 2

All values are ug/Kg dry weight basis.

Client Sample I.D.	15A/13-15	15A/13-15 MS	15A/13-15 MSD	Quant. Limits with no Dilution
Lab Sample I.D.	011041A-04	011041A-04MS	011041A-04	
Method Blank I.D.	SBLKVQ	SBLKVQ	SBLKVQ	
Quant. Factor	1.08	1.06	1.09	
2,4-Dinitrophenol	U	U	U	1600
4-Nitrophenol	U	1600JX	1700X	1600
Dibenzofuran	U	U	U	330
2,4-Dinitrotoluene	U	690X	740X	330
Diethylphthalate	U	U	U	330
4-Chlorophenyl-phenylether	U	U	U	330
Fluorene	U	U	U	330
4-Nitroaniline	U	U	U	1600
4,6-Dinitro-2-methylphenol	U	U	U	1600
N-Nitrosodiphenylamine (1)	U	U	U	330
4-Bromophenyl-phenylether	U	U	U	330
Hexachlorobenzene	U	U	U	330
Pentachlorophenol	U	1300JX	1400JX	1600
Phenanthrene	U	U	U	330
Anthracene	U	U	U	330
Carbazole	U	U	U	330
i-n-butylphthalate	11J	U	U	330
fluoranthene	U	U	U	330
Pyrene	U	1300X	1500X	330
Butylbenzylphthalate	U	U	U	330
3,3'-Dichlorobenzidine	U	U	U	660
Benzo(a)anthracene	U	U	U	330
Chrysene	U	U	U	330
bis(2-Ethylhexyl)phthalate	U	U	U	330
Di-n-octylphthalate	U	U	U	330
Benzo(b)fluoranthene	U	U	U	330
Benzo(k)fluoranthene	U	U	U	330
Benzo(a)pyrene	U	U	U	330
Indeno(1,2,3-cd)pyrene	U	U	U	330
Dibenzo(a,h)anthracene	U	U	U	330
Benzo(g,h,i)perylene	U	U	U	330
Date Received	04/27/01	04/27/01	04/27/01	
Date Extracted	05/01/01	05/01/01	05/01/01	
Date Analyzed	05/03/01	05/03/01	05/03/01	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
 Quant. Factor = a numerical value which takes into account any
 variation in sample weight/volume, % moisture and
 sample dilution.

TABLE SV-1.2
7001-1041A
ARCADIS/GERAGHTY & MILLER
TCL SEMI-VOLATILE ORGANICS

All values are ug/Kg dry weight basis.

Client Sample I.D.	15B/9-10	15B/14-15	15C/0-1	Quant. Limits with no Dilution
Lab Sample I.D.	011041A-07	011041A-08	011041A-09	
Method Blank I.D.	SBLKVQ	SBLKVQ	SBLKVQ	
Quant. Factor	1.06	1.19	1.13	
Phenol	U	U	U	330
bis(2-Chloroethyl) ether	U	U	U	330
2-Chlorophenol	U	U	U	330
1,3-Dichlorobenzene	U	U	U	330
1,4-Dichlorobenzene	U	U	U	330
Benzyl alcohol	U	U	U	330
1,2-Dichlorobenzene	U	U	U	330
2-Methylphenol	U	36J	44J	330
2,2'-oxybis(1-Chloropropane)	U	U	U	330
4-Methylphenol	U	82J	110J	330
N-Nitroso-di-n-propylamine	U	U	U	330
Hexachloroethane	U	U	U	330
Nitrobenzene	U	U	U	330
Isophorone	U	U	21J	330
2-Nitrophenol	U	U	U	330
2,4-Dimethylphenol	U	63J	70J	330
Benzoic acid	U	110J	160J	1600
bis(2-Chloroethoxy)methane	U	U	U	330
2,4-Dichlorophenol	U	U	U	330
1,2,4-Trichlorobenzene	U	U	U	330
Naphthalene	U	75J	580	330
4-Chloroaniline	U	U	U	330
Hexachlorobutadiene	U	U	U	330
4-Chloro-3-methylphenol	U	U	U	330
2-Methylnaphthalene	U	40J	300J	330
Hexachlorocyclopentadiene	U	U	U	330
2,4,6-Trichlorophenol	U	U	U	330
2,4,5-Trichlorophenol	U	U	U	1600
2-Chloronaphthalene	U	U	U	330
2-Nitroaniline	U	U	U	1600
Dimethylphthalate	U	U	U	330
Acenaphthylene	U	22J	91J	330
2,6-Dinitrotoluene	U	U	U	330
3-Nitroaniline	U	U	U	1600
Acenaphthene	U	150J	710	330
Date Received	04/27/01	04/27/01	04/27/01	
Date Extracted	05/01/01	05/01/01	05/01/01	
Date Analyzed	05/03/01	05/03/01	05/03/01	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE SV-1.2
7001-1041A
ARCADIS/GERAGHTY & MILLER
TCL SEMI-VOLATILE ORGANICS

0007 Soil

page 2 of 2

All values are ug/Kg dry weight basis.

Client Sample I.D.	15B/9-10	15B/14-15	15C/0-1	Quant. Limits with no Dilution
Lab Sample I.D.	011041A-07	011041A-08	011041A-09	
Method Blank I.D.	SBLKVQ	SBLKVQ	SBLKVQ	
Quant. Factor	1.06	1.19	1.13	
2,4-Dinitrophenol	U	U	U	1600
4-Nitrophenol	U	U	U	1600
Dibenzofuran	U	87J	380	330
2,4-Dinitrotoluene	U	U	U	330
Diethylphthalate	U	U	U	330
4-Chlorophenyl-phenylether	U	U	U	330
Fluorene	U	130J	520	330
4-Nitroaniline	U	U	U	1600
4,6-Dinitro-2-methylphenol	U	U	U	1600
N-Nitrosodiphenylamine (1)	U	U	U	330
4-Bromophenyl-phenylether	U	U	U	330
Hexachlorobenzene	U	U	U	330
Pentachlorophenol	U	U	U	1600
Phenanthrene	U	1300	4100E	330
Anthracene	U	400	1200	330
Carbazole	U	160J	570	330
Di-n-butylphthalate	22J	23J	32J	330
Fluoranthene	U	960	3000	330
Pyrene	U	1000	2800	330
Butylbenzylphthalate	U	180J	U	330
3,3'-Dichlorobenzidine	U	U	U	660
Benzo(a)anthracene	U	640	2000	330
Chrysene	U	710	2000	330
bis(2-Ethylhexyl)phthalate	46JB	930B	270JB	330
Di-n-octylphthalate	U	U	U	330
Benzo(b)fluoranthene	U	490	3200E	330
Benzo(k)fluoranthene	U	520	1800	330
Benzo(a)pyrene	U	490	1700	330
Indeno(1,2,3-cd)pyrene	U	340J	510	330
Dibenzo(a,h)anthracene	U	150J	170J	330
Benzo(g,h,i)perylene	U	290J	410	330
Date Received	04/27/01	04/27/01	04/27/01	
Date Extracted	05/01/01	05/01/01	05/01/01	
Date Analyzed	05/03/01	05/03/01	05/03/01	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE SV-1.3
7001-1041A
ARCADIS/GERAGHTY & MILLER
TCL SEMI-VOLATILE ORGANICS

0008

Soil

page 1 of 2

All values are ug/Kg dry weight basis.

Client Sample I.D.	15C/4-5	15C/9-10	15C/14-15	Quant. Limits with no Dilution
Lab Sample I.D.	011041A-10	011041A-11	011041A-12	
Method Blank I.D.	SBLKVQ	SBLKVQ	SBLKVQ	
Quant. Factor	1.03	1.07	1.10	
Phenol	U	U	U	330
bis(2-Chloroethyl) ether	U	U	U	330
2-Chlorophenol	U	U	U	330
1,3-Dichlorobenzene	U	U	U	330
1,4-Dichlorobenzene	U	U	U	330
Benzyl alcohol	U	U	U	330
1,2-Dichlorobenzene	U	U	U	330
2-Methylphenol	U	U	U	330
2,2'-oxybis(1-Chloropropane)	U	U	U	330
4-Methylphenol	U	23J	56J	330
N-Nitroso-di-n-propylamine	U	U	U	330
Hexachloroethane	U	U	U	330
Nitrobenzene	U	U	U	330
Isophorone	U	U	U	330
2-Nitrophenol	U	U	U	330
2,4-Dimethylphenol	U	20J	31J	330
benzoic acid	U	U	U	1600
bis(2-Chloroethoxy)methane	U	U	U	330
2,4-Dichlorophenol	U	U	U	330
1,2,4-Trichlorobenzene	U	U	U	330
Naphthalene	U	U	56J	330
4-Chloroaniline	U	U	U	330
Hexachlorobutadiene	U	U	U	330
4-Chloro-3-methylphenol	U	U	U	330
2-Methylnaphthalene	U	U	28J	330
Hexachlorocyclopentadiene	U	U	U	330
2,4,6-Trichlorophenol	U	U	U	330
2,4,5-Trichlorophenol	U	U	U	1600
2-Chloronaphthalene	U	U	U	330
2-Nitroaniline	U	U	U	1600
Dimethylphthalate	U	U	U	330
Acenaphthylene	U	U	15J	330
2,6-Dinitrotoluene	U	U	U	330
3-Nitroaniline	U	U	U	1600
Acenaphthene	U	U	150J	330
Date Received	04/27/01	04/27/01	04/27/01	
Date Extracted	05/01/01	05/01/01	05/01/01	
Date Analyzed	05/03/01	05/03/01	05/03/01	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE SV-1.3
7001-1041A
ARCADIS/GERAGHTY & MILLER
TCL SEMI-VOLATILE ORGANICS

0009

Soil

page 2 of 2

All values are ug/Kg dry weight basis.

Client Sample I.D.	15C/4-5	15C/9-10	15C/14-15	Quant. Limits with no Dilution
Lab Sample I.D.	011041A-10	011041A-11	011041A-12	
Method Blank I.D.	SBLKVQ	SBLKVQ	SBLKVQ	
Quant. Factor	1.03	1.07	1.10	
2,4-Dinitrophenol	U	U	U	1600
4-Nitrophenol	U	U	U	1600
Dibenzofuran	U	U	71J	330
2,4-Dinitrotoluene	U	U	U	330
Diethylphthalate	U	U	U	330
4-Chlorophenyl-phenylether	U	U	U	330
Fluorene	U	U	110J	330
4-Nitroaniline	U	U	U	1600
4,6-Dinitro-2-methylphenol	U	U	U	1600
N-Nitrosodiphenylamine (1)	U	U	U	330
4-Bromophenyl-phenylether	U	U	U	330
Hexachlorobenzene	U	U	U	330
Pentachlorophenol	U	U	U	1600
Phenanthrene	U	U	1000	330
Anthracene	U	U	260J	330
Carbazole	U	U	120J	330
i-n-butylphthalate	U	11J	U	330
fluoranthene	U	U	670	330
Pyrene	U	U	660	330
Butylbenzylphthalate	U	U	U	330
3,3'-Dichlorobenzidine	U	U	U	660
Benzo(a)anthracene	U	U	460	330
Chrysene	U	U	470	330
bis(2-Ethylhexyl)phthalate	U	110JB	130JB	330
Di-n-octylphthalate	U	U	U	330
Benzo(b)fluoranthene	U	U	310J	330
Benzo(k)fluoranthene	U	U	370	330
Benzo(a)pyrene	U	U	340J	330
Indeno(1,2,3-cd)pyrene	U	U	190J	330
Dibenzo(a,h)anthracene	U	U	72J	330
Benzo(g,h,i)perylene	U	U	160J	330
Date Received	04/27/01	04/27/01	04/27/01	
Date Extracted	05/01/01	05/01/01	05/01/01	
Date Analyzed	05/03/01	05/03/01	05/03/01	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE SV-1.4
7001-1041A
ARCADIS/GERAGHTY & MILLER
TCL SEMI-VOLATILE ORGANICS

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	15A/0-1	15B/0-1	Quant. Limits with no Dilution
Lab Sample I.D.	SBLKVS	011041A-01	011041A-05	
Method Blank I.D.	SBLKVS	SBLKVS	SBLKVS	
Quant. Factor	1.00	21.0	912.	
Phenol	U	U	U	330
bis(2-Chloroethyl) ether	U	U	U	330
2-Chlorophenol	U	U	U	330
1,3-Dichlorobenzene	U	U	U	330
1,4-Dichlorobenzene	U	U	U	330
Benzyl alcohol	U	U	U	330
1,2-Dichlorobenzene	U	U	U	330
2-Methylphenol	U	U	U	330
2,2'-oxybis(1-Chloropropane)	U	U	U	330
4-Methylphenol	U	U	U	330
N-Nitroso-di-n-propylamine	U	U	U	330
Hexachloroethane	U	U	U	330
Nitrobenzene	U	U	U	330
Isophorone	U	U	U	330
2-Nitrophenol	U	U	U	330
2,4-Dimethylphenol	U	U	U	330
benzoic acid	U	U	U	1600
bis(2-Chloroethoxy)methane	U	U	U	330
2,4-Dichlorophenol	U	U	U	330
1,2,4-Trichlorobenzene	U	U	U	330
Naphthalene	U	2100J	U	330
4-Chloroaniline	U	U	U	330
Hexachlorobutadiene	U	U	U	330
4-Chloro-3-methylphenol	U	U	U	330
2-Methylnaphthalene	U	1100J	U	330
Hexachlorocyclopentadiene	U	U	U	330
2,4,6-Trichlorophenol	U	U	U	330
2,4,5-Trichlorophenol	U	U	U	1600
2-Chloronaphthalene	U	U	U	330
2-Nitroaniline	U	U	U	1600
Dimethylphthalate	U	U	U	330
Acenaphthylene	U	150J	U	330
2,6-Dinitrotoluene	U	U	U	330
3-Nitroaniline	U	U	U	1600
Acenaphthene	U	4400J	U	330
Date Received		04/27/01	04/27/01	
Date Extracted	05/01/01	05/01/01	05/01/01	
Date Analyzed	05/08/01	05/15/01	05/16/01	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE SV-1.4
7001-1041A
ARCADIS/GERAGHTY & MILLER
TCL SEMI-VOLATILE ORGANICS

Soil

page 2 of 2

All values are ug/Kg dry weight basis.

Client Sample I.D.	Method Blank	15A/0-1	15B/0-1	Quant. Limits with no Dilution
Lab Sample I.D.	SBLKVS	011041A-01	011041A-05	
Method Blank I.D.	SBLKVS	SBLKVS	SBLKVS	
Quant. Factor	1.00	21.0	912.	
2,4-Dinitrophenol	U	U	U	1600
4-Nitrophenol	U	U	U	1600
Dibenzofuran	U	2800J	U	330
2,4-Dinitrotoluene	U	U	U	330
Diethylphthalate	U	U	U	330
4-Chlorophenyl-phenylether	U	U	U	330
Fluorene	U	4000J	U	330
4-Nitroaniline	U	U	U	1600
4,6-Dinitro-2-methylphenol	U	U	U	1600
N-Nitrosodiphenylamine (1)	U	U	U	330
4-Bromophenyl-phenylether	U	U	U	330
Hexachlorobenzene	U	U	U	330
Pentachlorophenol	U	U	U	1600
Phenanthrene	U	31000	27000J	330
Anthracene	U	9200	U	330
Carbazole	U	4600J	U	330
Di-n-butylphthalate	U	210J	U	330
Fluoranthene	U	32000	26000J	330
Pyrene	U	34000	26000J	330
Butylbenzylphthalate	U	1600J	U	330
3,3'-Dichlorobenzidine	U	U	U	660
Benzo (a) anthracene	U	19000	U	330
Chrysene	U	18000	U	330
bis(2-Ethylhexyl)phthalate	100J	2300JB	1800000B	330
Di-n-octylphthalate	U	U	U	330
Benzo (b) fluoranthene	U	13000	U	330
Benzo (k) fluoranthene	U	13000	U	330
Benzo (a) pyrene	U	14000	U	330
Indeno (1,2,3-cd) pyrene	U	9900	U	330
Dibenzo (a,h) anthracene	U	4500J	U	330
Benzo (g,h,i) perylene	U	10000	U	330
Date Received		04/27/01	04/27/01	
Date Extracted	05/01/01	05/01/01	05/01/01	
Date Analyzed	05/08/01	05/15/01	05/16/01	

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
 Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE SV-1.5
7001-1041A
ARCADIS/GERAGHTY & MILLER
TCL SEMI-VOLATILE ORGANICS

Soil

page 1 of 2

All values are ug/Kg dry weight basis.

Client Sample I.D.	15B/4-5	15C/0-1 DL		Quant. Limits with no Dilution
Lab Sample I.D.	011041A-06	011041A-09DL		
Method Blank I.D.	SBLKVS	SBLKVS		
Quant. Factor	4.14	2.26		
Phenol	U	U		330
bis(2-Chloroethyl) ether	U	U		330
2-Chlorophenol	U	U		330
1,3-Dichlorobenzene	U	U		330
1,4-Dichlorobenzene	U	U		330
Benzyl alcohol	U	U		330
1,2-Dichlorobenzene	U	U		330
2-Methylphenol	U	U		330
2,2'-oxybis(1-Chloropropane)	U	U		330
4-Methylphenol	U	U		330
N-Nitroso-di-n-propylamine	U	U		330
Hexachloroethane	U	U		330
Nitrobenzene	U	U		330
Isophorone	U	U		330
2-Nitrophenol	U	U		330
2,4-Dimethylphenol	U	U		330
benzoic acid	U	U		1600
bis(2-Chloroethoxy)methane	U	U		330
2,4-Dichlorophenol	U	U		330
1,2,4-Trichlorobenzene	U	U		330
Naphthalene	340J	590J		330
4-Chloroaniline	U	U		330
Hexachlorobutadiene	U	U		330
4-Chloro-3-methylphenol	U	U		330
2-Methylnaphthalene	180J	290J		330
Hexachlorocyclopentadiene	U	U		330
2,4,6-Trichlorophenol	U	U		330
2,4,5-Trichlorophenol	U	U		1600
2-Chloronaphthalene	U	U		330
2-Nitroaniline	U	U		1600
Dimethylphthalate	U	U		330
Acenaphthylene	37J	32J		330
2,6-Dinitrotoluene	U	U		330
3-Nitroaniline	U	U		1600
Acenaphthene	770J	620J		330
Date Received	04/27/01	04/27/01		
Date Extracted	05/01/01	05/01/01		
Date Analyzed	05/08/01	05/15/01		

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any
variation in sample weight/volume, % moisture and
sample dilution.

TABLE SV-1.5
7001-1041A
ARCADIS/GERAGHTY & MILLER
TCL SEMI-VOLATILE ORGANICS

Soil

page 2 of 2

All values are ug/Kg dry weight basis.

Client Sample I.D.	15B/4-5	15C/0-1 DL		Quant. Limits with no Dilution
Lab Sample I.D.	011041A-06	011041A-09DL		
Method Blank I.D.	SBLKVS	SBLKVS		
Quant. Factor	4.14	2.26		
2,4-Dinitrophenol	U	U		1600
4-Nitrophenol	U	U		1600
Dibenzofuran	520J	370J		330
2,4-Dinitrotoluene	U	U		330
Diethylphthalate	U	U		330
4-Chlorophenyl-phenylether	U	U		330
Fluorene	760J	470J		330
4-Nitroaniline	U	U		1600
4,6-Dinitro-2-methylphenol	U	U		1600
N-Nitrosodiphenylamine (1)	U	U		330
4-Bromophenyl-phenylether	U	U		330
Hexachlorobenzene	U	U		330
Pentachlorophenol	U	U		1600
Phenanthrene	6600	3700		330
Anthracene	1900	990		330
Carbazole	980J	520J		330
Di-n-butylphthalate	U	46J		330
Fluoranthene	6900	3100		330
Pyrene	7000	4100		330
Butylbenzylphthalate	210J	U		330
3,3'-Dichlorobenzidine	U	U		660
Benzo(a)anthracene	4100	2300		330
Chrysene	4100	2200		330
bis(2-Ethylhexyl)phthalate	550JB	360JB		330
Di-n-octylphthalate	U	U		330
Benzo(b)fluoranthene	2600	2000		330
Benzo(k)fluoranthene	2700	1400		330
Benzo(a)pyrene	3100	1800		330
Indeno(1,2,3-cd)pyrene	2300	360J		330
Dibenzo(a,h)anthracene	900J	U		330
Benzo(g,h,i)perylene	2300	230J		330
Date Received	04/27/01	04/27/01		
Date Extracted	05/01/01	05/01/01		
Date Analyzed	05/08/01	05/15/01		

See Appendix for qualifier definitions

Note: Compound detection limit = quantitation limit x quantitation factor
 Quant. Factor = a numerical value which takes into account any
 variation in sample weight/volume, % moisture and
 sample dilution.

TABLE AS-1.0
 7001-1041A
 ARCADIS/GERAGHTY & MILLER
 MISCELLANEOUS ATOMIC SPECTROSCOPY

0014

Soil

All values are mg/Kg dry weight basis.

Client Sample I.D.	15A/0-1	15A/4-5	15A/9-10	15A/13-15
Lab Sample I.D.	011041A-01	011041A-02	011041A-03	011041A-04
Arsenic	NR	NR	NR	NR
Chromium	24.1	16.4	14.9	5.1
Copper	NR	NR	NR	NR
Mercury	0.45	0.020	0.0079	0.0042U
Zinc	148.	29.9	25.8	13.7U

See Appendix for qualifier definitions

TABLE AS-1.1
7001-1041A
ARCADIS/GERAGHTY & MILLER
MISCELLANEOUS ATOMIC SPECTROSCOPY

All values are mg/Kg dry weight basis.

Client Sample I.D.	15A/13-15 D	15A/13-15 S	15B/0-1	15B/4-5
Lab Sample I.D.	011041A-04D	011041A-04S	011041A-05	011041A-06
Arsenic	NR	NR	NR	NR
Chromium	6.2	46.9	80.1	16.0
Copper	NR	NR	NR	NR
Mercury	0.0039U	0.037	0.91	0.052
Zinc	13.0U	110.	855.	34.3

See Appendix for qualifier definitions

TABLE AS-1.2
 7001-1041A
 ARCADIS/GERAGHTY & MILLER
 MISCELLANEOUS ATOMIC SPECTROSCOPY

All values are mg/Kg dry weight basis.

Client Sample I.D.	15B/9-10	15B/14-15	15C/0-1	15C/4-5
Lab Sample I.D.	011041A-07	011041A-08	011041A-09	011041A-10
Arsenic	NR	NR	NR	NR
Chromium	11.5	23.2	39.0	9.1
Copper	NR	NR	NR	NR
Mercury	0.0061	0.029	0.32	0.0033U
Zinc	23.6	42.6	258.	13.6U

See Appendix for qualifier definitions

TABLE AS-1.3
 7001-1041A
 ARCADIS/GERAGHTY & MILLER
 MISCELLANEOUS ATOMIC SPECTROSCOPY

All values are mg/Kg dry weight basis.

Client Sample I.D.	15C/9-10	15C/14-15	26B-C/0-1	26B-C/4-5
Lab Sample I.D.	011041A-11	011041A-12	011041A-13	011041A-14
Arsenic	NR	NR	5.3U	6.0U
Chromium	16.8	17.4	NR	NR
Copper	NR	NR	10.3	16.2
Mercury	0.016	0.036	NR	NR
Zinc	28.2	32.0	NR	NR

See Appendix for qualifier definitions

TABLE AS-1.4
7001-1041A
ARCADIS/GERAGHTY & MILLER
MISCELLANEOUS ATOMIC SPECTROSCOPY

All values are mg/Kg dry weight basis.

Client Sample I.D.	26A-C/0-1	26A-C/4-5	26A-B/0-1	26A-B/4-5
Lab Sample I.D.	011041A-15	011041A-16	011041A-17	011041A-18
Arsenic	NR	NR	NR	NR
Chromium	NR	NR	NR	NR
Copper	NR	NR	NR	NR
Mercury	NR	NR	NR	NR
Zinc	83.5	15.8U	188.	20.8

See Appendix for qualifier definitions

TABLE AS-1.5
 7001-1041A
 ARCADIS/GERAGHTY & MILLER
 MISCELLANEOUS ATOMIC SPECTROSCOPY

All values are mg/Kg dry weight basis.

Client Sample I.D.	26A-D/0-1	26A-D/4-5		
Lab Sample I.D.	011041A-19	011041A-20		
Arsenic	NR	NR		
Chromium	NR	NR		
Copper	NR	NR		
Mercury	NR	NR		
Zinc	127	21.8		

See Appendix for qualifier definitions

ORGANICS APPENDIX

U – Indicates that the compound was analyzed for but not detected.

J – Indicates that the compound was analyzed for and determined to be present in the sample. The mass spectrum of the compound meets the identification criteria of the method. The concentration listed is an estimated value, which is less than the specified minimum detection limit but is greater than zero.

B – This flag is used when the analyte is found in the blanks as well as the sample. It indicates possible sample contamination and warns the data user to use caution when applying the results of this analyte.

N – Indicates that the compound was analyzed for but not requested as an analyte. Value will not be listed on tabular result sheet.

S – Estimated due to surrogate outliers.

X – Matrix spike compound.

(1) - Cannot be separated

(2) – Decomposes to azobenzene. Measured and calibrated as azobenzene.

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

E – Indicates that it exceeds calibration curve range.

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

C – Confirmed by GC/MS.

T – Compound present in TCLP blank.

P – This flag is used for a pesticide/aroclor target analyte when there is a greater than 25 percent difference for detected concentrations between the two GC columns (see Form X).

SEVERN

TRENT

SERVICES

STL Connecticut

INORGANICS APPENDIX**C -- Concentration qualifiers**

U -- Indicates analyte was not detected at method reporting limit.

B- Indicates analyte result between IDL and contract required detection limit (CRDL)

Q -- QC qualifiers

E -- Reported value is estimated because of the presence of interference

M -- Duplicate injection precision not met

N -- Spiked sample recovery not within control limits

S -- The reported value was determined by the method of standard additions (MSA)

W -- Post-digest spike recovery furnace analysis was out of 85-115 percent control limit, while sample absorbance was less than 50 percent of spike absorbance

* - Duplicate analysis not within control limit

+ - Correlation coefficient for MSA is less than 0.995

M -- Method codes

P -- ICP

A -- Flame AA

F -- Furnace AA

CV -- Cold vapor AA (manual)

C -- Cyanide

NR -- Not required

NC -- Not calculated as per protocols

STATE CERTIFICATIONS

In some instances it may be necessary for environmental data to be reported to a regulatory authority with reference to a certified laboratory. For your convenience, the laboratory identification numbers for the STL-Connecticut laboratory are provided in the following table. Many states certify laboratories for specific parameters or tests within a category (i.e. method 325.2 for wastewater). The information in the following table indicates the lab is certified in a general category of testing such as drinking water or wastewater analysis. The laboratory should be contacted directly if parameter-specific certification information is required.

**STL-Connecticut
Certification Summary (as of February 2001)**

State	Responsible Agency	Certification	Lab Number
Connecticut	Department of Health Services	Drinking Water, Wastewater	PH-0497
Maine	Department of Health and Environmental Services	Drinking Water, Wastewater/Solid, Hazardous Waste	CT023
Massachusetts	Department of Environmental Protection	Potable/Non-Potable Water	CT023
New Hampshire	Department of Environmental Services	Drinking Water, Wastewater	2528
New Jersey	Department of Environmental Protection	Drinking Water, Wastewater	46410
New York	Department of Health	CLP, Drinking Water, Wastewater, Solid/ Hazardous Waste NELAC	10602
North Carolina	Division of Environmental Management	Wastewater	388
Rhode Island	Department of Health	Chemistry...Non- Potable Water and Wastewater	A43
Utah	Department of Health	RCRA	2032614458
Washington	Department of Ecology	Wastewater/Hazardous Waste	C231
Wisconsin	Department of Natural Resources	Wastewater	998355710

7001-1041A
ARCADIS/GERAGHTY & MILLER
SAMPLE SUMMARY

CLIENT ID	LAB ID	MATRIX	DATE COLLECTED	DATE RECEIVED
15A/0-1	011041A-01	SOIL	04/26/01	04/27/01
15A/4-5	011041A-02	SOIL	04/26/01	04/27/01
15A/9-10	011041A-03	SOIL	04/26/01	04/27/01
15A/13-15	011041A-04	SOIL	04/26/01	04/27/01
15A/13-15	011041A-04D	SOIL	04/26/01	04/27/01
15A/13-15	011041A-04MS	SOIL	04/26/01	04/27/01
15A/13-15	011041A-04MSB	SOIL	04/26/01	04/27/01
15A/13-15	011041A-04MSD	SOIL	04/26/01	04/27/01
15A/13-15	011041A-04S	SOIL	04/26/01	04/27/01
15B/0-1	011041A-05	SOIL	04/26/01	04/27/01
15B/4-5	011041A-06	SOIL	04/26/01	04/27/01
15B/9-10	011041A-07	SOIL	04/26/01	04/27/01
15C/14-15	011041A-08	SOIL	04/26/01	04/27/01
15C/0-1	011041A-09	SOIL	04/26/01	04/27/01
15C/4-5	011041A-10	SOIL	04/26/01	04/27/01
15C/9-10	011041A-11	SOIL	04/26/01	04/27/01
15C/14-15	011041A-12	SOIL	04/26/01	04/27/01
26B-C/0-1	011041A-13	SOIL	04/26/01	04/27/01
26B-C/4-5	011041A-14	SOIL	04/26/01	04/27/01
26A-C/0-1	011041A-15	SOIL	04/26/01	04/27/01
26A-C/4-5	011041A-16	SOIL	04/26/01	04/27/01
26A-B/0-1	011041A-17	SOIL	04/26/01	04/27/01
26A-B/4-5	011041A-18	SOIL	04/26/01	04/27/01
26A-D/0-1	011041A-19	SOIL	04/26/01	04/27/01
26A-D/4-5	011041A-20	SOIL	04/26/01	04/27/01

STL CT ANALYTICAL SUMMARY

Page:1

Client ID: 15A/0-1, 15A/13-15, 15A/4-5, 15A/9-10, 15B/0-1, 15B/14-15,
 15B/4-5, 15B/9-10, 15C/0-1, 15C/14-15, 15C/4-5, 15C/9-10, 26A-
 B/0-1, 26A-B/4-5, 26A-C/0-1, 26A-C/4-5, 26A-D/0-1, 26A-D/4-5,
 26B-C/0-1, 26B-C/4-5
 Job Number: 7001-1041A

Date: 5/22/101

Qty	Matrix	Analysis	Description
1	None	DISK	Diskette Prep.
1	None	DISK-2	Diskette Prep.
2	SOIL	AS-NSW846	Arsenic
3	SOIL	BNA-N8270C-TCL	TCL Semi-Volatile Or
12	SOIL	BNA-N8270C-TCL	TCL Semi-Volatile Or
2	SOIL	CR-NSW846	Chromium
12	SOIL	CR-NSW846	Chromium
2	SOIL	CU-NSW846	Copper
2	SOIL	HG-NSW846	Mercury
12	SOIL	HG-NSW846	Mercury
22	SOIL	MET-PREP-ICAP	Metals ICAP Prep
2	SOIL	ZN-NSW846	Zinc
12	SOIL	ZN-NSW846	Zinc
6	SOIL	ZN-NSW846	Zinc



Project Number/Name NY001227.0017.00001

Project Location Great Neck, NY

Laboratory STL

Project Manager Christina Berardi Tuohy

Sampler(s)/Affiliation SH

ANALYSIS / METHOD / SIZE
 1oz Glass Jar (LUNA)
 SUC, C, Hg, Zn
 C, Zn: P270, Zn
 Hg: 7471
 4oz Glass Jar (LUNA)
 A.S, C, H
 Method 6010 For Beta

New

7001-1041A

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID						Remarks	Total
15A/0-1	S	4/26/01	01	1						1
15A/4-5			02	1						1
15A/7-10			03	1						1
15A/13-15			04	3 *						3
15B/0-1			05	1						1
15B/4-5			06	1						1
15B/9-10			07	1						1
15B/14-15			08	1						1
15C/0-1			09	1						1
15C/4-5			10	1				PASSED RAD SCREEN		1
15C/9-10			11	1						1
15C/14-15			12	1						1
26B-C/0-1			13	1						1
26B-C/4-5			14	1						1

09°C

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 16

Relinquished by: <u>Shawn Realey</u>	Organization: <u>ARCADIS GJM</u>	Date: <u>4/26/01</u>	Time: <u>1700</u>	Seal Intact?
Received by: <u>Alex C. Yaworski</u>	Organization: <u>S-T-L CT</u>	Date: <u>04/27/01</u>	Time: <u>09:10</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Relinquished by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Seal Intact?
Received by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Special Instructions/Remarks:

Please Use Sample 15A/13-15 For a MS/MSD

Delivery Method: In Person Common Carrier FED-EX Lab Courier Other _____

0025



Project Number/Name NY 001227-0017-00001
 Project Location Great Neck, NY
 Laboratory STL
 Project Manager Christina Berardi Tushy
 Sampler(s)/Affiliation SH

2001-1041A

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE							Remarks	Total									
				402 Glass Jar (LAMP)	2A USFA 6010	302 Glass Jar (LAMP)	Ammonia / Nitrate	Nitrate: Neutral Leach	1 Liter Amber (LAMP)	5 VOC			USFA: 8270	1 Liter Plastic (HNO3)	Metal 15	6010 / 7060 / 740 / 7471	500 mL PLASTIC (LAMP)	Nitrate	Neutral Leach		
26A-C/0-1	S	4/26/01	15	1																	1
26A-C/4-5			14	1																	1
26A-B/0-1			17	1																	1
26A-B/4-5			18	1																	1
26A-D/0-1			19	1																	1
26A-D/4-5			20	1																	1
FPM-1B/0-1																					1
FPM-1B/4-5																					1
FPM-1B/9-10																					1
FPM-1A/0-1																					1
FPM-1A/4-5																					1
FPM-1A/9-10	L																				1
FB 4/26/01	L								2												2
FB 4/26/01	L									1											1
FB 4/26/01	L										1										1

PASSED RAD SCREEN

090C

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 16

Relinquished by: <u>Sharon Pealy</u>	Organization: <u>ARCADIS G & M</u>	Date: <u>4/26/01</u>	Time: <u>1700</u>	Seal Intact? Yes No N/A
Received by: <u>Alex C. Jaworski</u>	Organization: <u>STL CT</u>	Date: <u>04/27/01</u>	Time: <u>0910</u>	
Relinquished by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Seal Intact? Yes No N/A
Received by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	

Special Instructions/Remarks:

Delivery Method: In Person Common Carrier Fed Ex Lab Courier Other _____

SAMPLE RECEIPT CHECKLIST

0027

STL CT Job No. 700-1091A

Date Received: 4/27/07

Client: GGM

Project: _____

A. Preliminary Examination

Cooler opened by: DeRoy Robinson

Signature: [Signature]

1. Did cooler(s) come with a shipping airbill?..... Yes No N/A

Name of courier and/or airbill no. Fed Ex

2. Were custody seals on outside of cooler(s)?..... Yes No N/A

3. Were custody seals tamper evident?..... Yes No N/A

Seal Date _____

4. Were custody seals intact upon arrival to lab?..... Yes No N/A

5. Were samples screened for radioactivity and COC stamped?..... Yes No N/A

6. Were COCs included, filled out properly in ink, and signed in the field?... Yes No N/A

7. Were COCs signed and dated properly upon lab receipt?..... Yes No N/A

8. If required, did cooler(s) show evidence of cooling?..... Yes No N/A

Type of coolant used: Loose ice Bagged ice Ice packs Other: _____

Temperature of cooler(s) on receipt: 09°C

Source of temperature reading (check one) Temp blank Sample

9. If necessary, was the lab notified of any short holding times?..... Yes No N/A

10. Initial and date this form to acknowledge receipt of cooler(s): (initials) [Signature] (Date) 4/27/07

B. Log-in Date of login: 4/27/07

Logged in by: DeRoy Robinson Signature: [Signature]

10. Describe type of packing in cooler(s): Bubble wrap Vermiculite Other _____

12. Did all bottles arrive intact with legible labels in good condition?..... Yes No N/A

13. Was all required bottle label information complete?..... Yes No N/A

14. Did all bottle labels agree with COCs?..... Yes No N/A

15. Were samples checked for residual chlorine and correct preservatives? Yes No N/A

Was Preservative Log filled out Yes No N/A

16. Was enough volume submitted for the indicated tests?..... Yes No N/A

17. Were bubbles present in any VOA vials?..... Yes No N/A

If yes, list by sample number _____

18. If necessary, has CAR been issued to QA manager?..... Yes No N/A

**Severn Trust - Connecticut
Internal Chain-of-Custody**

Client: GEI

STL Job #: 7001-1041A

Trip Blank:

Date Received: 4/29/01

QC: 04

Sample #s: 10-01-20

Project #:

Locations: B5, B7, 87, (B4)

Laboratory Sample #	Relinquished by	Accepted by	Date	Time	Reason	Relinquished by	Accepted by	Date	Time
1-12	A.Y.	J. Wikowski	5/1/01	10:00	BNA	J. Wikowski	A.Y.	5/1/01	15:00
1-12	ML	G.B.	5/10	1005	Hg	G.B.	ML	5/10	1340
1-20	ML	KW	5/11	9:00	mtls	KW	ML	5/11	15:40
13-20	ML	KW	5/16	16:40	mtls	KW	ML	5/16	16:17:00

Fraction: BNA Pesticide-PCB / Herbicide / O/P Pesticide / DRO / Other
(Circle one)

CLIENT: G+M

JOB NO: 1041A

SAMPLE IN (Extractions)					SAMPLE IN (Extractions)				
Sample(s)	Date	Time	Sign.	Location	Sample(s)	Date	Time	Sign.	Location
1-12 ^{+4QC}	05/02/01	13:30	RWN	29					

SAMPLE OUT					SAMPLE IN			
Sample(s)	Date	Time	Code	Sign.	Date	Time	Location	Sign.
+4QC 1-12	05/03/01	12:00	AN	RWN	05/03/01	13:30	29	RWN
01,05-06,09	05/07/01	14:00	AN	EM	05/07/01	15:00	29	EM
01,05-06,09	05/08/01	11:00	AN	EM	05/08/01	11:30	29	EM
01,05,09	05/10/01	11:00	AN	EM	05/10/01	11:30	29	EM
01,05,09	05/11/01	17:15	AN	EM	05/11/01	17:45	29	EM
01,05,09	05/15/01	16:00	AN	EM	05/15/01	16:30	29	EM
5	5/16/01	10:00A	AN	JG	5/16/01	2:41P	29	JG

Codes: SC = Screening

AN = Analysis

Verified By: [Signature]

Date: 5/18/01

Lab Form: SMF01201.CT



0030

Shelton, CT 06484
Tel (203) 929-8146
Fax (203)

**CHAIN OF CUSTODY
ATOMIC SPECTROSCOPY DEPARTMENT**

Job Number 1041A Sample Numbers 01-20

WATER - SOIL - SLUDGE - EPTOX/TCLP

I confirm that I have performed the preparation below following SOP guidelines and authorize the release of this preparation:

Sample Prep	<u>Kathin Wilczak</u>	<u>5/11/01</u>	ICP/FLME
			FURN
			MERCURY
	Chemist	Date(s)	

I confirm that I have performed the analysis below following SOP guidelines and authorize the release of all associated data:

Analysis	<u>Nestor Pstromchuk</u>	<u>5/15/01</u>	ICP
			FLAME
			FURN
			MERCURY
	Chemist	Date(s)	

I have reviewed and authorize the release of this job:

Complete	<u>[Signature]</u>	<u>5/21/01</u>
	Supervisor	Date

Batch Assignment _____

Other Laboratory Locations:

- 149 Rangway Road, North Billerica MA 01862
- 16203 Park Road, Suite 110, Houston TX 77064
- 120 Southcenter Court, Suite 300, Morrisville NC 27560
- 315 Fullerton Avenue, Newburgh NY 12550
- 111 East Olive Road, Pensacola FL 32514
- Westfield Executive Park, 53 Southampton Road, Westfield MA 01085

a part of
SOUTH HAVEN SERVICES INC



125 LONY HILL CRO
Shelton, CT 06484

0031

Tel (203) 929-8140
Fax (203)

**CHAIN OF CUSTODY
ATOMIC SPECTROSCOPY DEPARTMENT**

Job Number 011041A Sample Numbers 01-12

WATER - SOIL - SLUDGE - EPTOX/TCLP

I confirm that I have performed the preparation below following SOP guidelines and authorize the release of this preparation:

Sample Prep	_____	_____	ICP/FLME
	_____	_____	FURN
	<u>Gendy Bao</u>	<u>05-10-01</u>	MERCURY
	Chemist	Date(s)	

I confirm that I have performed the analysis below following SOP guidelines and authorize the release of all associated data:

Analysis	_____	_____	ICP
	_____	_____	FLAME
	<u>Gendy Bao</u>	<u>05-10-01</u>	FURN
	Chemist	Date(s)	MERCURY

I have reviewed and authorize the release of this job:

Complete	<u>[Signature]</u>	<u>5/21/01</u>
	Supervisor	Date

Batch Assignment _____

Other Laboratory Locations:

- 149 Rangeway Road, North Attleboro MA 01862
- 16203 Park Row, Suite 110, Houston TX 77084
- 120 Southcenter Court, Suite 300, Morrisville NC 27560
- 315 Fullerton Avenue, Newburgh NY 12550
- 11 East Olive Road, Pompano Beach FL 32514
- Weather Executive Park, 53 Southwestern Road, Weather MA 01085

a part of
South Hill Services Inc

IEA / CT
LABORATORY CHRONICLE

0032

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSIS

JOB #: 7001-1041A

SAMPLE ID	MATRIX	LIST REQUESTED	DATE RECEIVED	DATE DIGESTED	DATE ANALYZED
15A/0-1	SOIL	CR-NSW846	04/27/01	5/14/01	5/10/01
15A/0-1	SOIL	HG-NSW846	04/27/01		
15A/0-1	SOIL	ZN-NSW846	04/27/01		
15A/4-5	SOIL	CR-NSW846	04/27/01		
15A/4-5	SOIL	HG-NSW846	04/27/01		
15A/4-5	SOIL	ZN-NSW846	04/27/01		
15A/9-10	SOIL	CR-NSW846	04/27/01		
15A/9-10	SOIL	HG-NSW846	04/27/01		
15A/9-10	SOIL	ZN-NSW846	04/27/01		
5A/13-15	SOIL	CR-NSW846	04/27/01		
15A/13-15	SOIL	HG-NSW846	04/27/01		
15A/13-15	SOIL	ZN-NSW846	04/27/01		
15B/0-1	SOIL	CR-NSW846	04/27/01		
15B/0-1	SOIL	HG-NSW846	04/27/01		
15B/0-1	SOIL	ZN-NSW846	04/27/01		
15B/4-5	SOIL	CR-NSW846	04/27/01		
15B/4-5	SOIL	HG-NSW846	04/27/01		
15B/4-5	SOIL	ZN-NSW846	04/27/01		
15B/9-10	SOIL	CR-NSW846	04/27/01		
15B/9-10	SOIL	HG-NSW846	04/27/01		
15B/9-10	SOIL	ZN-NSW846	04/27/01		
15B/14-15	SOIL	CR-NSW846	04/27/01		

Section Supervisor (signature) *[Signature]*

QC Supervisor (signature) _____

ew & Approval (printed name) D. H. Hill

Review & Approval (printed name) _____

(Date) 5/21/01

(Date) ___/___/___

IEA / CT
LABORATORY CHRONICLE

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSIS

JOB #: 7001-1041A

SAMPLE ID	MATRIX	LIST REQUESTED	DATE RECEIVED	DATE DIGESTED	DATE ANALYZED
15B/14-15	SOIL	HG-NSW846	04/27/01	5/10, 11/01	5/10, 14/01
15B/14-15	SOIL	ZN-NSW846	04/27/01		
15C/0-1	SOIL	CR-NSW846	04/27/01		
15C/0-1	SOIL	HG-NSW846	04/27/01		
15C/0-1	SOIL	ZN-NSW846	04/27/01		
15C/4-5	SOIL	CR-NSW846	04/27/01		
15C/4-5	SOIL	HG-NSW846	04/27/01		
15C/4-5	SOIL	ZN-NSW846	04/27/01		
15C/9-10	SOIL	CR-NSW846	04/27/01		
15C/9-10	SOIL	HG-NSW846	04/27/01		
15C/9-10	SOIL	ZN-NSW846	04/27/01		
15C/14-15	SOIL	CR-NSW846	04/27/01		
15C/14-15	SOIL	HG-NSW846	04/27/01		
15C/14-15	SOIL	ZN-NSW846	04/27/01		
26B-C/0-1	SOIL	AS-NSW846	04/27/01		
26B-C/0-1	SOIL	CU-NSW846	04/27/01		
26B-C/4-5	SOIL	AS-NSW846	04/27/01		
26B-C/4-5	SOIL	CU-NSW846	04/27/01		
26A-C/0-1	SOIL	ZN-NSW846	04/27/01		
26A-C/4-5	SOIL	ZN-NSW846	04/27/01		
26A-B/0-1	SOIL	ZN-NSW846	04/27/01		
26A-B/4-5	SOIL	ZN-NSW846	04/27/01		

Section Supervisor (signature) *D. Helfrich*

QC Supervisor (signature) _____

Review & Approval (printed name) D. Helfrich

Review & Approval (printed name) _____

(Date) 5/21/01

(Date) ___/___/___

IEA / CT
LABORATORY CHRONICLE

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSIS

JOB #: 7001-1041A

SAMPLE ID	MATRIX	LIST REQUESTED	DATE RECEIVED	DATE DIGESTED	DATE ANALYZED
26A-D/0-1	SOIL	ZN-NSW846	04/27/01	5/10, 11/01	5/10, 14/01
26A-D/4-5	SOIL	ZN-NSW846	04/27/01	J	J

Section Supervisor (signature) *D. N. [Signature]*

QC Supervisor (signature) _____

Review & Approval (printed name) D. N. [Name]

Review & Approval (printed name) _____

(Date) 5/21/01

(Date) / /

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: STL/CT

Contract: _____

Lab Code: IEACT

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	SBLKVQ	66	86	54	73	58	68			0
02	SBLKVQFMS	79	75	73	68	65	69			0
03	15A/13-15MSB	87	100	78	81	67	55			0
04	15A/13-15	65	86	68	68	56	47			0
05	15A/13-15MS	75	86	64	75	62	50			0
06	15A/13-15MSD	75	85	66	73	60	48			0
07	15A/4-5	72	100	73	75	60	54			0
08	15A/9-10	76	102	78	79	65	61			0
09	15B/9-10	63	86	65	72	57	54			0
10	15C/4-5	44	88	60	48	32	50			0
11	15B/14-15	76	113	72	65	57	45			0
12	15C/9-10	63	93	70	67	54	50			0
13	15C/14-15	63	110	55	55	47	48			0
14	15C/0-1	64	103	56	55	47	45			0
15	SBLKVS	81	91	74	71	92	96			0
16	15B/4-5	68	89	102	71	76	47			0
17	15A/0-1	58	82	103	61	63	46			0
18	15C/0-1DL	66	85	82	66	66	54			0
19	15B/0-1	0D	0D	0D	0D	0D	0D			0
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

QC LIMITS

- S1 (NBZ) = Nitrobenzene-d5 (23-120)
- S2 (FBP) = 2-Fluorobiphenyl (30-115)
- S3 (TPH) = Terphenyl-d14 (18-137)
- S4 (PHL) = Phenol-d5 (24-113)
- S5 (2FP) = 2-Fluorophenol (25-121)
- S6 (TBP) = 2,4,6-Tribromophenol (19-122)
- S7 (2CP) = 2-Chlorophenol-d4 (-) (advisory)
- S8 (DCB) = 1,2-Dichlorobenzene-d4 (-) (advisory)

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

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL/CT

Contract: _____

Lab Code: IEACT

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Matrix Spike - EPA Sample No.: 15A/13-15 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Phenol	3600	0	1900	53	26- 90
2-Chlorophenol	3600	0	2300	64	25-102
1,4-Dichlorobenzene	1800	0	1100	61	28-104
N-Nitroso-di-n-prop. (1)	1800	0	1500	83	41-126
1,2,4-Trichlorobenzene	1800	0	1500	83	38-107
4-Chloro-3-methylphenol	3600	0	2000	56	26-103
Acenaphthene	1800	0	1200	67	31-137
4-Nitrophenol	3600	0	1600	44	11-114
2,4-Dinitrotoluene	1800	0	690	38	28- 89
Pentachlorophenol	3600	0	1300	36	17-109
Pyrene	1800	0	1300	72	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
Phenol	3600	1900	53	0	35	26- 90
2-Chlorophenol	3600	2300	64	0	50	25-102
1,4-Dichlorobenzene	1800	1100	61	0	27	28-104
N-Nitroso-di-n-prop. (1)	1800	1500	83	0	28	41-126
1,2,4-Trichlorobenzene	1800	1500	83	0	23	38-107
4-Chloro-3-methylphenol	3600	2000	56	0	33	26-103
Acenaphthene	1800	1300	72	7	19	31-137
4-Nitrophenol	3600	1700	47	7	50	11-114
2,4-Dinitrotoluene	1800	740	41	8	47	28- 89
Pentachlorophenol	3600	1400	39	8	47	17-109
Pyrene	1800	1500	83	14	36	35-142

(1) N-Nitroso-di-n-propylamine

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

* Values outside of QC limits.

RPD:0 _____ out of 11 _____ outside limits

Spike Recovery:0 _____ out of 22 _____ outside limits

COMMENTS: _____

SEMIVOLATILE MATRIX SPIKE BLANK RECOVERY SUMMARY

Lab Name: STL/CT

Contract: _____

Lab Code: IEACT

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Matrix Spike - EPA Sample No.: 15A/13-15Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	SPIKE CONCENTRATION (ug/Kg)	SPIKE % REC #	QC. LIMITS REC.
Phenol	3300	0	2000	61	26-90
2-Chlorophenol	3300	0	2400	73	25-102
1,4-Dichlorobenzene	1700	0	1200	70	28-104
N-Nitroso-di-n-propylamine	1700	0	1600	94	41-126
1,2,4-Trichlorobenzene	1700	0	1600	94	38-107
4-Chloro-3-methylphenol	3300	0	2100	64	26-103
Acenaphthene	1700	0	1400	82	31-137
4-Nitrophenol	3300	0	1800	54	11-114
2,4-Dinitrotoluene	1700	0	750	44	28-89
Pentachlorophenol	3300	0	2200	67	17-109
Pyrene	1700	0	1600	94	35-142

Column to be used to flag recovery with an asterisk

* Values outside of QC limits.

Spike Recovery: 0 _____ out of 11 _____ outside limits

COMMENTS: _____

3D
SOIL SEMIVOLATILE SPIKE/SPIKE DUPLICATE RECOVERY SUMMARY 0038

Lab Name: STL/CT

Contract: _____

Lab Code: IEACT

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Matrix Spike - EPA Sample No.: SBLKVO

Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	SPIKE CONCENTRATION (ug/Kg)	SPIKE % REC #	QC. LIMITS REC.
Phenol	1300	0	970	75	48-146
bis(2-Chloroethyl) ether	1300	0	900	69	60-119
2-Chlorophenol	1300	0	1300	100	58-139
1,3-Dichlorobenzene	1300	0	950	73	55-113
1,4-Dichlorobenzene	1300	0	960	74	54-114
Benzyl alcohol	1300	0	1200	92	58-137
1,2-Dichlorobenzene	1300	0	1100	85	59-116
2-Methylphenol	1300	0	790	61	50-126
bis(2-Chloroisopropyl) ether	1300	0	1100	85	64-120
4-Methylphenol	1300	0	820	63	51-147
N-Nitroso-di-n-propylamine	1300	0	1000	77	61-121
Hexachloroethane	1300	0	910	70	54-108
Nitrobenzene	1300	0	1100	85	62-119
Isophorone	1300	0	1100	85	63-123
2-Nitrophenol	1300	0	1200	92	64-119
2,4-Dimethylphenol	1300	0	1200	92	57-130
Benzoic acid	4000	0	79	2	0-88
bis(2-Chloroethoxy) methane	1300	0	1100	85	64-123
2,4-Dichlorophenol	1300	0	1400	108	67-129
1,2,4-Trichlorobenzene	1300	0	1000	77	59-115
Naphthalene	1300	0	1100	85	63-124
4-Chloroaniline	1300	0	1000	77	0-139
Hexachlorobutadiene	1300	0	1100	85	54-124
4-Chloro-3-methylphenol	1300	0	1200	92	62-136
2-Methylnaphthalene	1300	0	1100	85	56-120
Hexachlorocyclopentadiene	1300	0	440	34	20-114
2,4,6-Trichlorophenol	1300	0	1000	77	64-129
2,4,5-Trichlorophenol	1300	0	770	59	52-119
2-Chloronaphthalene	1300	0	1300	100	70-138
2-Nitroaniline	1300	0	1100	85	59-140

Column to be used to flag recovery with an asterisk

* Values outside of QC limits.

Spike Recovery: 0 out of 65 outside limits

COMMENTS: _____

3D
SOIL SEMIVOLATILE SPIKE/SPIKE DUPLICATE RECOVERY SUMMARY 0039

Lab Name: STL/CT

Contract: _____

Lab Code: IEACT

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Matrix Spike - EPA Sample No.: SBLKVO

Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	SPIKE CONCENTRATION (ug/Kg)	SPIKE % REC #	QC. LIMITS REC.
Dimethylphthalate	1300	0	1100	85	62-139
Acenaphthylene	1300	0	970	75	57-127
2,6-Dinitrotoluene	1300	0	1000	77	58-146
3-Nitroaniline	1300	0	1000	77	24-172
Acenaphthene	1300	0	1000	77	63-131
2,4-Dinitrophenol	1300	0	880	68	8-220
4-Nitrophenol	1300	0	1200	92	37-164
Dibenzofuran	1300	0	1000	77	58-131
2,4-Dinitrotoluene	1300	0	1000	77	46-146
Diethylphthalate	1300	0	1000	77	56-142
4-Chlorophenyl-phenylether	1300	0	990	76	58-133
Fluorene	1300	0	1000	77	56-133
4-Nitroaniline	1300	0	1100	85	35-174
4,6-Dinitro-2-methylphenol	1300	0	1300	100	49-186
N-Nitrosodiphenylamine (1)	1300	0	1200	92	69-142
4-Bromophenyl-phenylether	1300	0	1300	100	63-139
Hexachlorobenzene	1300	0	1300	100	63-134
Pentachlorophenol	1300	0	1300	100	68-124
Phenanthrene	1300	0	1300	100	64-140
Anthracene	1300	0	1300	100	67-134
Di-n-butylphthalate	1300	0	1300	100	70-139
Fluoranthene	1300	0	1300	100	63-145
Pyrene	1300	0	1200	92	55-146
Butylbenzylphthalate	1300	0	1300	100	65-149
3,3'-Dichlorobenzidine	1300	0	780	60	23-124
Benzo (a) anthracene	1300	0	1200	92	58-148
Chrysene	1300	0	1200	92	60-151
bis(2-Ethylhexyl)phthalate	1300	100	1200	85	60-146
Di-n-octylphthalate	1300	0	1200	92	66-154
Benzo (b) fluoranthene	1300	0	1200	92	37-191

Column to be used to flag recovery with an asterisk

* Values outside of QC limits.

Spike Recovery: 0 _____ out of 65 _____ outside limits

COMMENTS: _____

SOIL SEMIVOLATILE SPIKE/SPIKE DUPLICATE RECOVERY SUMMARY

Lab Name: STL/CT

Contract: _____

Lab Code: IEACT

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Matrix Spike - EPA Sample No.: SBLKVO

Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	SPIKE CONCENTRATION (ug/Kg)	SPIKE % REC #	QC. LIMITS REC.
Benzo (k) fluoranthene	1300	0	1000	77	53-130
Benzo (a) pyrene	1300	0	1200	92	60-148
Indeno (1, 2, 3-cd) pyrene	1300	0	1200	92	44-160
Dibenzo (a, h) anthracene	1300	0	1200	92	30-154
Benzo (g, h, i) perylene	1300	0	1200	92	39-173

Column to be used to flag recovery with an asterisk

* Values outside of QC limits.

Spike Recovery: 0 out of 65 outside limits

COMMENTS: _____

5B
 SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK 0041
 DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL/CT Contract: _____
 Lab Code: IEACT Case No.: 1041A SAS No.: _____ SDG No.: A1041
 Lab File ID: Q1886 DFTPP Injection Date: 04/30/01
 Instrument ID: HP5971Q DFTPP Injection Time: 1157

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	49.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Present	64.6
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	54.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	20.3
365	Greater than 1.0% of mass 198	1.95
441	Present, but less than mass 443	10.7
442	40.0 - 110.0% of mass 198	68.7
443	17.0 - 23.0% of mass 442	13.5 (19.7)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD020J8	SSTD020J8	>Q1887	04/30/01	1238
02	SSTD050J9	SSTD050J9	>Q1888	04/30/01	1319
03	SSTD080K1	SSTD080K1	>Q1889	04/30/01	1400
04	SSTD120K2	SSTD120K2	>Q1890	04/30/01	1442
05	SSTD160K3	SSTD160K3	>Q1891	04/30/01	1523
06					
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5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

0042

Lab Name: STL/CT

Contract: _____

Lab Code: IEACT

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Lab File ID: Q1919

DFTPP Injection Date: 05/02/01

Instrument ID: HP5971Q

DFTPP Injection Time: 1057

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	51.9
68	Less than 2.0% of mass 69	0.8 (1.2)1
69	Present	67.6
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	57.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	19.8
365	Greater than 1.0% of mass 198	1.86
441	Present, but less than mass 443	9.8
442	40.0 - 110.0% of mass 198	63.3
443	17.0 - 23.0% of mass 442	12.3 (19.4)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050K6	SSTD050K6	>Q1919	05/02/01	1057
02	SBLKVQ	SBLKVQ	>Q1927	05/02/01	1622
03	SBLKVQFMS	SBLKVQFMS	>Q1928	05/02/01	1703
04					
05					
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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL/CT

Contract: _____

Lab Code: IEACT

Case No.: 1041A

SAS No.: _____ SDG No.: A1041

Lab File ID: Q1936

DFTPP Injection Date: 05/03/01

Instrument ID: HP5971Q

DFTPP Injection Time: 1039

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	54.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Present	70.7
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	58.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.2
275	10.0 - 30.0% of mass 198	18.6
365	Greater than 1.0% of mass 198	1.98
441	Present, but less than mass 443	9.8
442	40.0 - 110.0% of mass 198	63.2
443	17.0 - 23.0% of mass 442	12.2 (19.2)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050K7	SSTD050K7	>Q1936	05/03/01	1039
02	15A/13-15MSB	011041A-04MSB	>Q1939	05/03/01	1241
03	15A/13-15	011041A-04	>Q1940	05/03/01	1322
04	15A/13-15MS	011041A-04MS	>Q1941	05/03/01	1403
05	15A/13-15MSD	011041A-04MSD	>Q1942	05/03/01	1444
06	15A/4-5	011041A-02	>Q1943	05/03/01	1525
07	15A/9-10	011041A-03	>Q1944	05/03/01	1605
08	15B/9-10	011041A-07	>Q1945	05/03/01	1646
09	15C/4-5	011041A-10	>Q1946	05/03/01	1727
10	15B/14-15	011041A-08	>Q1947	05/03/01	1808
11	15C/9-10	011041A-11	>Q1948	05/03/01	1848
12	15C/14-15	011041A-12	>Q1949	05/03/01	1929
13	15C/0-1	011041A-09	>Q1953	05/03/01	2210
14					
15					
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22					

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL/CT Contract: _____
Lab Code: IEACT Case No.: 1041A SAS No.: _____ SDG No.: A1041
Lab File ID: S3087 DFTPP Injection Date:04/26/01
Instrument ID: HP5972S DFTPP Injection Time:0845

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	47.1
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Present	59.9
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	46.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	18.6
365	Greater than 1.0% of mass 198	1.46
441	Present, but less than mass 443	8.4
442	40.0 - 110.0% of mass 198	57.1
443	17.0 - 23.0% of mass 442	11.2 (19.6)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD020V7	SSTD020V7	>S3095	04/26/01	1519
02	SSTD050V8	SSTD050V8	>S3096	04/26/01	1605
03	SSTD080V9	SSTD080V9	>S3097	04/26/01	1651
04	SSTD120W1	SSTD120W1	>S3098	04/26/01	1737
05	SSTD160W2	SSTD160W2	>S3099	04/26/01	1824
06					
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5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK 0045
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL/CT Contract: _____
 Lab Code: IEACT Case No.: 1041A SAS No.: _____ SDG No.: A1041
 Lab File ID: S3125 DFTPP Injection Date: 05/08/01
 Instrument ID: HP5972S DFTPP Injection Time: 1045

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	39.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Present	50.1
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	41.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.4
275	10.0 - 30.0% of mass 198	20.2
365	Greater than 1.0% of mass 198	1.90
441	Present, but less than mass 443	11.1
442	40.0 - 110.0% of mass 198	76.1
443	17.0 - 23.0% of mass 442	14.8 (19.4)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050X7	SSTD050X7	>S3125	05/08/01	1045
02	SBLKVS	SBLKVS	>S3126	05/08/01	1131
03	15B/4-5	011041A-06	>S3140	05/08/01	2210
04					
05					
06					
07					
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5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL/CT

Contract: _____

Lab Code: IEACT

Case No.: 1041A

SAS No.: _____ SDG No.: A1041

Lab File ID: S3205

DFTPP Injection Date: 05/15/01

Instrument ID: HP5972S

DFTPP Injection Time: 1204

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	40.9
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Present	51.5
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	44.0
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	18.8
365	Greater than 1.0% of mass 198	1.48
441	Present, but less than mass 443	8.9
442	40.0 - 110.0% of mass 198	61.0
443	17.0 - 23.0% of mass 442	12.0 (19.7)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD020V7	SSTD020V7	>S3206	05/15/01	1233
02	SSTD050V8	SSTD050V8	>S3207	05/15/01	1316
03	SSTD080V9	SSTD080V9	>S3208	05/15/01	1400
04	SSTD120W1	SSTD120W1	>S3209	05/15/01	1443
05	SSTD160W2	SSTD160W2	>S3210	05/15/01	1526
06					
07					
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5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL/CT Contract: _____
 Lab Code: IEACT Case No.: 1041A SAS No.: _____ SDG No.: A1041
 Lab File ID: S3212 DFTPP Injection Date: 05/15/01
 Instrument ID: HP5972S DFTPP Injection Time: 1654

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	35.7
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Present	46.8
70	Less than 2.0% of mass 69	0.0 (0.0) 1
127	40.0 - 60.0% of mass 198	40.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	19.8
365	Greater than 1.0% of mass 198	1.45
441	Present, but less than mass 443	10.3
442	40.0 - 110.0% of mass 198	72.3
443	17.0 - 23.0% of mass 442	14.0 (19.4) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050W3	SSTD050W3	>S3212	05/15/01	1654
02	15A/0-1	011041A-01	>S3215	05/15/01	1905
03	15C/0-1DL	011041A-09DL	>S3217	05/15/01	2033
04					
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5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL/CT

Contract: _____

Lab Code: IEACT

Case No.: 1041A

SAS No.: _____ SDG No.: A1041

Lab File ID: S3230

DFTPP Injection Date: 05/16/01

Instrument ID: HP5972S

DFTPP Injection Time: 0931

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	38.8
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Present	51.6
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	42.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	19.1
365	Greater than 1.0% of mass 198	1.48
441	Present, but less than mass 443	9.4
442	40.0 - 110.0% of mass 198	63.8
443	17.0 - 23.0% of mass 442	12.2 (19.2)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050W4	SSTD050W4	>S3230	05/16/01	0931
02	15B/0-1	011041A-05	>S3244	05/16/01	1943
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04					
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06					
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6B
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Name: STL/CT

Contract: _____

Lab Code: IEACT

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Instrument ID: HP5971Q

Calibration Date(s): 04/30/01

Calibration Times: 1238

1523

LAB FILE ID: RRF20 = >Q1887 RRF50 = >Q1888
RRF80 = >Q1889 RRF120 = >Q1890 RRF160 = >Q1891

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	RRF	% RSD
Phenol	* 2.034	1.790	1.700	1.585	1.493	1.720	12.1 *
bis(2-Chloroethyl) ether	* 1.448	1.293	1.198	1.129	1.050	1.224	12.6 *
2-Chlorophenol	* 1.470	1.354	1.285	1.199	1.157	1.293	9.7 *
1,3-Dichlorobenzene	* 1.608	1.514	1.454	1.355	1.264	1.439	9.3 *
1,4-Dichlorobenzene	* 1.384	1.316	1.277	1.184	1.133	1.259	8.0 *
Benzyl alcohol	* 1.088	1.098	1.045	0.983	0.906	1.024	7.8 *
1,2-Dichlorobenzene	* 1.422	1.244	1.122	1.023	0.954	1.153	16.1 *
2-Methylphenol	* 1.521	1.340	1.261	1.156	1.091	1.274	13.2 *
2,2'-oxybis(1-Chloropropane)	* 3.096	2.733	2.518	2.275	2.147	2.554	14.8 *
4-Methylphenol	* 1.489	1.356	1.252	1.176	1.105	1.276	11.8 *
N-Nitroso-di-n-propylamine	* 1.512	1.332	1.215	1.116	1.023	1.240	15.4 *
Hexachloroethane	* 0.569	0.516	0.484	0.445	0.419	0.487	12.1 *
Phenol	* 0.454	0.418	0.391	0.356	0.339	0.392	11.8 *
Phorone	* 0.988	0.958	0.912	0.848	0.817	0.905	8.0 *
2-Nitrophenol	* 0.262	0.262	0.259	0.245	0.236	0.253	4.6 *
2,4-Dimethylphenol	* 0.379	0.374	0.357	0.336	0.324	0.354	6.7 *
Benzoic acid	* 0.267	0.293	0.296	0.293	0.293	0.288	4.2 *
bis(2-Chloroethoxy)methane	* 0.569	0.518	0.498	0.459	0.437	0.496	10.4 *
2,4-Dichlorophenol	* 0.306	0.287	0.272	0.255	0.247	0.273	8.8 *
1,2,4-Trichlorobenzene	* 0.291	0.266	0.249	0.234	0.221	0.252	10.9 *
Naphthalene	* 0.962	0.898	0.868	0.799	0.755	0.856	9.5 *
4-Chloroaniline	* 0.527	0.524	0.488	0.444	0.418	0.480	10.1 *
Hexachlorobutadiene	* 0.157	0.152	0.150	0.139	0.136	0.147	6.1 *
4-Chloro-3-methylphenol	* 0.428	0.410	0.388	0.361	0.341	0.386	9.2 *
2-Methylnaphthalene	* 0.718	0.590	0.549	0.482	0.453	0.558	18.7 *
Hexachlorocyclopentadiene	* 0.042	0.100	0.137	0.156	0.164	0.120	41.7 *
2,4,6-Trichlorophenol	* 0.418	0.394	0.364	0.335	0.312	0.365	11.8 *
2,4,5-Trichlorophenol	* 0.436	0.399	0.369	0.335	0.313	0.370	13.3 *
2-Chloronaphthalene	* 1.044	0.892	0.812	0.723	0.675	0.829	17.6 *
2-Nitroaniline	* 0.577	0.559	0.515	0.472	0.453	0.515	10.4 *
Dimethylphthalate	* 1.687	1.544	1.401	1.236	1.145	1.403	15.7 *
Acenaphthylene	* 2.103	1.835	1.636	1.440	1.321	1.667	18.7 *
2,6-Dinitrotoluene	* 0.328	0.303	0.285	0.263	0.251	0.286	10.8 *
3-Nitroaniline	* 0.446	0.446	0.415	0.389	0.369	0.413	8.3 *
Acenaphthene	* 1.030	0.960	0.883	0.787	0.730	0.878	14.0 *
2,4-Dinitrophenol	* 0.131	0.187	0.201	0.204	0.201	0.185	16.6 *
4-Nitrophenol	* 0.173	0.164	0.157	0.148	0.143	0.157	7.7 *

* Compounds with required minimum RRF and maximum %RSD values.

6C
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Name: STL/CT

Contract: _____

Lab Code: IEACT

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Instrument ID: HP5971Q

Calibration Date(s): 04/30/01

Calibration Times: 1238

1523

LAB FILE ID: RRF20 = >Q1887 RRF50 = >Q1888
RRF80 = >Q1889 RRF120 = >Q1890 RRF160 = >Q1891

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	RRF	% RSD
Dibenzofuran	* 1.700	1.523	1.366	1.220	1.120	1.386	16.8 *
2,4-Dinitrotoluene	* 0.495	0.463	0.432	0.401	0.374	0.433	11.1 *
Diethylphthalate	* 1.829	1.650	1.479	1.302	1.183	1.489	17.4 *
4-Chlorophenyl-phenyl Ether	* 0.556	0.458	0.411	0.361	0.328	0.423	21.1 *
Fluorene	* 1.298	1.089	0.953	0.822	0.732	0.979	22.8 *
4-Nitroaniline	* 0.560	0.543	0.501	0.461	0.432	0.499	10.8 *
4,6-Dinitro-2-methylphenol	* 0.134	0.146	0.144	0.132	0.121	0.135	7.5 *
N-Nitrosodiphenylamine	* 0.527	0.449	0.408	0.356	0.332	0.414	18.8 *
4-Bromophenyl-phenylether	* 0.226	0.210	0.195	0.178	0.164	0.195	12.6 *
Hexachlorobenzene	* 0.246	0.226	0.210	0.192	0.178	0.210	12.8 *
Pentachlorophenol	* 0.101	0.114	0.116	0.113	0.112	0.111	5.3 *
Phenanthrene	* 0.892	0.810	0.752	0.679	0.632	0.753	13.7 *
Anthracene	* 0.991	0.871	0.786	0.700	0.637	0.797	17.5 *
Benzazole	* 1.203	1.043	0.931	0.822	0.745	0.949	19.1 *
Di-n-butylphthalate	* 1.881	1.558	1.397	1.194	1.079	1.422	22.2 *
Fluoranthene	* 1.410	1.197	1.066	0.918	0.832	1.085	21.1 *
Pyrene	* 1.429	1.352	1.279	1.178	1.129	1.273	9.6 *
Butylbenzylphthalate	* 0.906	0.848	0.820	0.745	0.694	0.803	10.4 *
3,3'-Dichlorobenzidine	* 0.536	0.492	0.449	0.401	0.374	0.450	14.6 *
Benzo(a)anthracene	* 1.251	1.122	1.043	0.937	0.886	1.048	13.9 *
Chrysene	* 0.978	0.954	0.916	0.856	0.827	0.906	7.0 *
bis(2-Ethylhexyl)phthalate	* 0.989	0.931	0.862	0.775	0.730	0.857	12.5 *
Di-n-octylphthalate	* 2.587	2.340	2.151	1.879	1.712	2.134	16.4 *
Benzo(b)fluoranthene	* 1.378	1.424	1.189	1.218	1.144	1.271	9.7 *
Benzo(k)fluoranthene	* 1.201	0.909	0.988	0.764	0.689	0.910	22.0 *
Benzo(a)pyrene	* 1.237	1.181	1.106	1.008	0.945	1.095	11.0 *
Indeno(1,2,3-cd)pyrene	* 1.164	1.104	1.104	1.104	1.118	1.119	2.3 *
Dibenz(a,h)anthracene	* 0.977	0.919	0.893	0.859	0.850	0.900	5.7 *
Benzo(g,h,i)perylene	* 1.054	1.027	1.037	1.061	1.104	1.057	2.8 *
Nitrobenzene-D5	* 0.465	0.445	0.442	0.416	0.402	0.434	5.8 *
2-Fluorobiphenyl	* 1.116	0.970	0.874	0.773	0.709	0.888	18.2 *
Terphenyl-D14	* 1.140	1.120	1.044	0.967	0.925	1.039	9.0 *
Phenol-D5	* 2.212	1.998	1.886	1.765	1.681	1.908	10.9 *
2-Fluorophenol	* 1.619	1.746	1.768	1.728	1.712	1.715	3.3 *
2,4,6-Tribromophenol	* 0.217	0.222	0.208	0.193	0.183	0.205	8.0 *

(1) Cannot be separated from Diphenylamine

* Compounds with required minimum RRF and maximum %RSD values.

6B
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Name: STL/CT

Contract: _____

Lab Code: IEACT

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Instrument ID: HP5972S

Calibration Date(s): 04/26/01

Calibration Times: 1519

1824

LAB FILE ID:	RRF20 = >S3095	RRF50 = >S3096
RRF80 = >S3097	RRF120 = >S3098	RRF160 = >S3099

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	RRF	% RSD
Phenol	* 1.884	1.963	2.000	1.859	1.765	1.894	4.9 *
bis(2-Chloroethyl) ether	* 1.256	1.216	1.210	1.103	1.033	1.164	7.9 *
2-Chlorophenol	* 1.413	1.393	1.430	1.343	1.296	1.375	4.0 *
1,3-Dichlorobenzene	* 1.451	1.388	1.406	1.294	1.236	1.355	6.5 *
1,4-Dichlorobenzene	* 1.481	1.421	1.426	1.316	1.255	1.380	6.6 *
Benzyl alcohol	* 0.350	0.706	0.835	0.831	0.837	0.712	29.5 *
1,2-Dichlorobenzene	* 1.407	1.342	1.340	1.217	1.154	1.292	8.0 *
2-Methylphenol	* 1.454	1.412	1.403	1.323	1.274	1.373	5.3 *
2,2'-oxybis(1-Chloropropane)	* 2.942	2.824	2.787	2.529	2.335	2.683	9.2 *
4-Methylphenol	* 1.806	1.503	1.488	1.391	1.339	1.505	12.0 *
N-Nitroso-di-n-propylamine	* 1.250	1.198	1.172	1.084	1.027	1.146	7.8 *
Hexachloroethane	* 0.600	0.582	0.588	0.547	0.517	0.567	6.0 *
Phorone	* 0.393	0.381	0.382	0.352	0.338	0.369	6.3 *
Phorone	* 0.789	0.759	0.754	0.706	0.691	0.740	5.4 *
2-Nitrophenol	* 0.206	0.207	0.204	0.193	0.191	0.200	3.8 *
2,4-Dimethylphenol	* 0.337	0.326	0.319	0.299	0.295	0.315	5.7 *
Benzoic acid	* 0.257	0.252	0.269	0.267	0.273	0.264	3.3 *
bis(2-Chloroethoxy) methane	* 0.523	0.494	0.486	0.447	0.427	0.475	8.1 *
2,4-Dichlorophenol	* 0.289	0.284	0.288	0.272	0.266	0.280	3.7 *
1,2,4-Trichlorobenzene	* 0.298	0.287	0.289	0.267	0.259	0.280	5.8 *
Naphthalene	* 1.021	0.951	0.934	0.837	0.797	0.908	10.0 *
4-Chloroaniline	* 0.399	0.408	0.400	0.369	0.346	0.384	6.8 *
Hexachlorobutadiene	* 0.141	0.134	0.134	0.123	0.119	0.130	6.9 *
4-Chloro-3-methylphenol	* 0.286	0.303	0.298	0.280	0.268	0.287	4.9 *
2-Methylnaphthalene	* 0.619	0.559	0.528	0.463	0.421	0.518	15.1 *
Hexachlorocyclopentadiene	* 0.318	0.314	0.321	0.303	0.300	0.311	3.0 *
2,4,6-Trichlorophenol	* 0.351	0.359	0.361	0.342	0.339	0.350	2.8 *
2,4,5-Trichlorophenol	* 0.406	0.408	0.424	0.406	0.408	0.410	1.9 *
2-Chloronaphthalene	* 1.139	1.086	1.078	1.006	0.982	1.058	6.0 *
2-Nitroaniline	* 0.389	0.378	0.383	0.364	0.363	0.375	3.1 *
Dimethylphthalate	* 1.307	1.223	1.207	1.115	1.096	1.190	7.2 *
Acenaphthylene	* 1.838	1.718	1.685	1.536	1.455	1.646	9.2 *
2,6-Dinitrotoluene	* 0.320	0.313	0.317	0.296	0.287	0.307	4.7 *
3-Nitroaniline	* 0.304	0.315	0.322	0.304	0.304	0.310	2.7 *
Acenaphthene	* 1.058	1.000	0.973	0.895	0.858	0.957	8.4 *
2,4-Dinitrophenol	* 0.166	0.189	0.207	0.208	0.215	0.197	10.0 *
4-Nitrophenol	* 0.107	0.116	0.113	0.105	0.114	0.111	4.3 *

* Compounds with required minimum RRF and maximum %RSD values.

6C
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Name: STL/CT

Contract: _____

Lab Code: IEACT

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Instrument ID: HP5972S

Calibration Date(s): 04/26/01

Calibration Times: 1519

1824

LAB FILE ID: RRF20 = >S3095 RRF50 = >S3096
RRF80 = >S3097 RRF120 = >S3098 RRF160 = >S3099

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	RRF	% RSD
Dibenzofuran	* 1.546	1.443	1.420	1.309	1.257	1.395	8.2 *
2,4-Dinitrotoluene	* 0.401	0.382	0.390	0.370	0.372	0.383	3.4 *
Diethylphthalate	* 1.274	1.154	1.134	1.048	1.014	1.125	9.0 *
4-Chlorophenyl-phenyl Ether	* 0.553	0.520	0.511	0.474	0.451	0.502	8.0 *
Fluorene	* 1.197	1.113	1.086	0.996	0.946	1.068	9.2 *
4-Nitroaniline	* 0.290	0.284	0.283	0.280	0.280	0.283	1.4 *
4,6-Dinitro-2-methylphenol	* 0.142	0.157	0.166	0.154	0.146	0.153	6.2 *
N-Nitrosodiphenylamine	* 0.588	0.563	0.560	0.504	0.474	0.538	8.7 *
4-Bromophenyl-phenylether	* 0.202	0.195	0.196	0.184	0.175	0.190	5.7 *
Hexachlorobenzene	* 0.237	0.222	0.222	0.206	0.194	0.216	7.7 *
Pentachlorophenol	* 0.111	0.133	0.145	0.141	0.138	0.134	10.0 *
Phenanthrene	* 0.996	0.941	0.930	0.849	0.808	0.905	8.3 *
Anthracene	* 1.084	0.996	0.977	0.895	0.836	0.958	10.0 *
Indazole	* 0.964	0.856	0.829	0.760	0.737	0.829	10.8 *
Di-n-butylphthalate	* 1.349	1.262	1.231	1.105	1.035	1.196	10.5 *
Fluoranthene	* 0.925	0.852	0.838	0.758	0.718	0.818	10.0 *
Pyrene	* 1.426	1.383	1.399	1.346	1.298	1.370	3.6 *
Butylbenzylphthalate	* 0.800	0.731	0.742	0.698	0.672	0.729	6.6 *
3,3'-Dichlorobenzidine	* 0.339	0.358	0.365	0.351	0.364	0.355	3.0 *
Benzo(a)anthracene	* 1.040	0.967	0.969	0.903	0.890	0.954	6.3 *
Chrysene	* 0.962	0.915	0.915	0.858	0.831	0.896	5.8 *
bis(2-Ethylhexyl)phthalate	* 1.081	1.004	1.015	0.950	0.906	0.991	6.7 *
Di-n-octylphthalate	* 2.376	2.227	2.207	1.766	1.418	1.999	19.8 *
Benzo(b)fluoranthene	* 1.187	1.135	1.082	1.021	0.946	1.074	8.8 *
Benzo(k)fluoranthene	* 1.143	1.047	1.107	0.844	0.725	0.973	18.6 *
Benzo(a)pyrene	* 1.026	1.005	1.030	0.949	0.916	0.985	5.1 *
Indeno(1,2,3-cd)pyrene	* 0.938	1.255	1.689	1.854	1.812	1.510	26.4 *
Dibenz(a,h)anthracene	* 0.809	1.034	1.375	1.495	1.462	1.235	24.3 *
Benzo(g,h,i)perylene	* 0.738	1.123	1.551	1.731	1.702	1.369	31.3 *
Nitrobenzene-D5	* 0.381	0.368	0.375	0.354	0.350	0.366	3.6 *
2-Fluorobiphenyl	* 1.211	1.162	1.146	1.055	1.012	1.117	7.3 *
Terphenyl-D14	* 1.063	1.012	1.014	0.959	0.922	0.994	5.5 *
Phenol-D5	* 1.956	1.975	1.999	1.892	1.817	1.928	3.8 *
2-Fluorophenol	* 1.265	1.300	1.357	1.313	1.299	1.307	2.5 *
2,4,6-Tribromophenol	* 0.178	0.174	0.175	0.164	0.161	0.170	4.4 *

(1) Cannot be separated from Diphenylamine

* Compounds with required minimum RRF and maximum %RSD values.

6B
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

0053

Name: STL/CT

Contract: _____

Lab Code: IEACT

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Instrument ID: HP5972S

Calibration Date(s): 05/15/01

Calibration Times: 1233

1526

LAB FILE ID:	RRF20 = >S3206	RRF50 = >S3207
RRF80 = >S3208	RRF120 = >S3209	RRF160 = >S3210

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	RRF	% RSD
Phenol	* 2.200	2.074	1.947	1.959	1.895	2.015	6.1 *
bis(2-Chloroethyl) ether	* 1.342	1.232	1.157	1.123	1.076	1.186	8.8 *
2-Chlorophenol	* 1.570	1.500	1.433	1.433	1.402	1.468	4.6 *
1,3-Dichlorobenzene	* 1.601	1.485	1.428	1.403	1.359	1.455	6.4 *
1,4-Dichlorobenzene	* 1.635	1.529	1.450	1.419	1.369	1.480	7.0 *
Benzyl alcohol	* 1.060	1.080	1.029	1.046	1.004	1.044	2.8 *
1,2-Dichlorobenzene	* 1.555	1.431	1.350	1.310	1.238	1.377	8.8 *
2-Methylphenol	* 1.530	1.473	1.340	1.350	1.308	1.400	6.8 *
2,2'-oxybis(1-Chloropropane)	* 3.040	2.770	2.559	2.454	2.274	2.619	11.3 *
4-Methylphenol	* 1.629	1.543	1.432	1.387	1.298	1.458	8.9 *
N-Nitroso-di-n-propylamine	* 1.317	1.218	1.129	1.126	1.081	1.174	8.0 *
Hexachloroethane	* 0.672	0.626	0.596	0.585	0.559	0.608	7.1 *
Chlorobenzene	* 0.432	0.404	0.385	0.382	0.366	0.394	6.4 *
Phorone	* 0.836	0.773	0.739	0.754	0.735	0.767	5.4 *
2-Nitrophenol	* 0.235	0.230	0.222	0.228	0.222	0.227	2.4 *
2,4-Dimethylphenol	* 0.351	0.331	0.317	0.319	0.310	0.326	4.9 *
Benzoic acid	* 0.309	0.322	0.324	0.344	0.345	0.329	4.7 *
bis(2-Chloroethoxy) methane	* 0.553	0.512	0.489	0.482	0.463	0.500	6.9 *
2,4-Dichlorophenol	* 0.318	0.306	0.296	0.299	0.292	0.302	3.4 *
1,2,4-Trichlorobenzene	* 0.327	0.312	0.297	0.295	0.286	0.303	5.3 *
Naphthalene	* 1.126	1.030	0.964	0.927	0.874	0.984	9.9 *
4-Chloroaniline	* 0.502	0.470	0.441	0.430	0.408	0.450	8.1 *
Hexachlorobutadiene	* 0.156	0.148	0.140	0.136	0.127	0.141	7.9 *
4-Chloro-3-methylphenol	* 0.344	0.326	0.310	0.309	0.298	0.317	5.6 *
2-Methylnaphthalene	* 0.661	0.600	0.543	0.508	0.463	0.555	14.0 *
Hexachlorocyclopentadiene	* 0.343	0.344	0.330	0.338	0.332	0.337	1.9 *
2,4,6-Trichlorophenol	* 0.428	0.411	0.390	0.402	0.410	0.408	3.4 *
2,4,5-Trichlorophenol	* 0.460	0.458	0.442	0.438	0.433	0.446	2.7 *
2-Chloronaphthalene	* 1.288	1.209	1.122	1.114	1.078	1.162	7.3 *
2-Nitroaniline	* 0.466	0.434	0.409	0.419	0.419	0.429	5.2 *
Dimethylphthalate	* 1.510	1.397	1.302	1.325	1.300	1.367	6.5 *
Acenaphthylene	* 2.083	1.929	1.735	1.661	1.576	1.797	11.5 *
2,6-Dinitrotoluene	* 0.393	0.367	0.338	0.326	0.313	0.347	9.3 *
3-Nitroaniline	* 0.462	0.430	0.404	0.406	0.401	0.421	6.1 *
Acenaphthene	* 1.218	1.111	1.026	1.008	0.977	1.068	9.1 *
2,4-Dinitrophenol	* 0.235	0.254	0.256	0.274	0.283	0.260	7.2 *
4-Nitrophenol	* 0.153	0.150	0.143	0.150	0.153	0.150	2.7 *

* Compounds with required minimum RRF and maximum %RSD values.

6C
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

0054

Name: STL/CT Contract: _____
 Lab Code: IEACT Case No.: 1041A SAS No.: _____ SDG No.: A1041
 Instrument ID: HP5972S Calibration Date(s): 05/15/01 _____
 Calibration Times: 1233 1526

LAB FILE ID: RRF20 = >S3206 RRF50 = >S3207
 RRF80 = >S3208 RRF120 = >S3209 RRF160 = >S3210

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	RRF	% RSD
Dibenzofuran	* 1.780	1.632	1.502	1.477	1.446	1.567	8.8 *
2,4-Dinitrotoluene	* 0.514	0.488	0.458	0.473	0.476	0.482	4.3 *
Diethylphthalate	* 1.517	1.372	1.269	1.251	1.234	1.329	8.9 *
4-Chlorophenyl-phenyl Ether	* 0.645	0.589	0.544	0.525	0.497	0.560	10.4 *
Fluorene	* 1.384	1.249	1.150	1.119	1.073	1.195	10.4 *
4-Nitroaniline	* 0.463	0.434	0.403	0.409	0.406	0.423	6.0 *
4,6-Dinitro-2-methylphenol	* 0.190	0.191	0.186	0.185	0.174	0.185	3.6 *
N-Nitrosodiphenylamine	* 0.632	0.584	0.550	0.530	0.490	0.557	9.7 *
4-Bromophenyl-phenylether	* 0.218	0.209	0.201	0.194	0.186	0.202	6.2 *
Hexachlorobenzene	* 0.261	0.249	0.234	0.224	0.212	0.236	8.2 *
Pentachlorophenol	* 0.162	0.160	0.160	0.163	0.163	0.162	1.0 *
Phenanthrene	* 1.126	1.017	0.949	0.924	0.865	0.976	10.2 *
Anthracene	* 1.211	1.082	1.005	0.966	0.908	1.034	11.3 *
Indazole	* 1.136	1.037	0.971	0.954	0.905	1.001	8.9 *
Di-n-butylphthalate	* 1.601	1.453	1.335	1.265	1.192	1.369	11.8 *
Fluoranthene	* 1.151	1.038	0.953	0.916	0.860	0.984	11.6 *
Pyrene	* 1.411	1.337	1.300	1.306	1.289	1.329	3.7 *
Butylbenzylphthalate	* 0.816	0.745	0.703	0.705	0.686	0.731	7.1 *
3,3'-Dichlorobenzidine	* 0.453	0.392	0.344	0.324	0.304	0.363	16.5 *
Benzo(a)anthracene	* 1.176	1.071	1.000	0.992	0.954	1.039	8.4 *
Chrysene	* 1.109	1.019	0.956	0.931	0.890	0.981	8.7 *
bis(2-Ethylhexyl)phthalate	* 1.138	1.002	0.918	0.880	0.845	0.957	12.2 *
Di-n-octylphthalate	* 2.600	2.558	2.528	2.525	2.398	2.522	3.0 *
Benzo(b)fluoranthene	* 1.284	1.364	1.337	1.316	1.350	1.330	2.4 *
Benzo(k)fluoranthene	* 1.383	1.167	1.073	1.100	0.960	1.137	13.8 *
Benzo(a)pyrene	* 1.207	1.149	1.092	1.115	1.096	1.132	4.2 *
Indeno(1,2,3-cd)pyrene	* 1.123	1.067	1.131	1.313	1.428	1.212	12.5 *
Dibenz(a,h)anthracene	* 0.966	0.914	0.945	1.073	1.150	1.010	9.8 *
Benzo(g,h,i)perylene	* 0.918	0.888	1.003	1.198	1.316	1.065	17.4 *
Nitrobenzene-D5	* 0.426	0.401	0.389	0.390	0.380	0.397	4.5 *
2-Fluorobiphenyl	* 1.351	1.284	1.197	1.180	1.146	1.232	6.8 *
Terphenyl-D14	* 1.053	0.981	0.936	0.929	0.891	0.958	6.5 *
Phenol-D5	* 2.159	2.053	1.953	1.970	1.914	2.010	4.8 *
2-Fluorophenol	* 1.379	1.376	1.360	1.444	1.433	1.398	2.7 *
2,4,6-Tribromophenol	* 0.234	0.224	0.209	0.209	0.209	0.217	5.3 *

(1) Cannot be separated from Diphenylamine
 * Compounds with required minimum RRF and maximum %RSD values.

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL/CT

Contract: _____

Lab Code: IEACT

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Instrument ID: HP5971Q

Calibration Date: 05/02/01

Time: 1057

Lab File ID: >Q1919

Init. Calib. Date(s): 04/30/01 _____

Init. Calib. Times: 1238

1523

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.720	1.662		-3.4	20.0
bis(2-Chloroethyl) ether	1.224	1.143		-6.6	
2-Chlorophenol	1.293	1.226		-5.2	
1,3-Dichlorobenzene	1.439	1.408		-2.2	
1,4-Dichlorobenzene	1.259	1.189		-5.6	20.0
Benzyl alcohol	1.024	1.020		-0.4	
1,2-Dichlorobenzene	1.153	1.105		-4.2	
2-Methylphenol	1.274	1.222		-4.1	
2,2'-oxybis(1-Chloropropane)	2.554	2.547		-0.3	
4-Methylphenol	1.276	1.246		-2.4	
N-Nitroso-di-n-propylamine	1.240	1.266	0.050	2.1	
Hexachloroethane	0.487	0.462		-5.1	
Nitrobenzene	0.392	0.389		-0.8	
Isophorone	0.905	0.876		-3.2	
2-Nitrophenol	0.253	0.240		-5.1	20.0
2,4-Dimethylphenol	0.354	0.343		-3.1	
Benzoic acid	0.288	0.291		1.0	
bis(2-Chloroethoxy) methane	0.496	0.471		-5.0	
2,4-Dichlorophenol	0.273	0.264		-3.3	20.0
1,2,4-Trichlorobenzene	0.252	0.241		-4.4	
Naphthalene	0.856	0.814		-4.9	
4-Chloroaniline	0.480	0.473		-1.5	
Hexachlorobutadiene	0.147	0.144		-2.0	20.0
4-Chloro-3-methylphenol	0.386	0.382		-1.0	20.0
2-Methylnaphthalene	0.558	0.548		-1.8	
Hexachlorocyclopentadiene	0.120	0.114	0.050	-5.0	
2,4,6-Trichlorophenol	0.365	0.351		-3.8	20.0
2,4,5-Trichlorophenol	0.370	0.355		-4.0	
2-Chloronaphthalene	0.829	0.793		-4.3	
2-Nitroaniline	0.515	0.505		-1.9	
Dimethylphthalate	1.403	1.338		-4.6	
Acenaphthylene	1.667	1.603		-3.8	
2,6-Dinitrotoluene	0.286	0.274		-4.2	
3-Nitroaniline	0.413	0.363		-12.1	
Acenaphthene	0.878	0.835		-4.9	20.0
2,4-Dinitrophenol	0.185	0.172	0.050	-7.0	
4-Nitrophenol	0.157	0.149	0.050	-5.1	

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

0056

Lab Name: STL/CT

Contract: _____

Lab Code: IEACT

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Instrument ID: HP5971Q

Calibration Date: 05/02/01

Time: 1057

Lab File ID: >Q1919

Init. Calib. Date(s): 04/30/01

Init. Calib. Times: 1238

1523

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Dibenzofuran	1.386	1.318		-4.9	
2,4-Dinitrotoluene	0.433	0.402		-7.2	
Diethylphthalate	1.489	1.440		-3.3	
4-Chlorophenyl-Phenyl Ether	0.423	0.408		-3.6	
Fluorene	0.979	0.966		-1.3	
4-Nitroaniline	0.499	0.439		-12.0	
4,6-Dinitro-2-methylphenol	0.135	0.134		-0.7	
N-Nitrosodiphenylamine	0.414	0.415		0.2	20.0
4-Bromophenyl-phenylether	0.195	0.194		-0.5	
Hexachlorobenzene	0.210	0.208		-1.0	
Pentachlorophenol	0.111	0.108		-2.7	20.0
Phenanthrene	0.753	0.716		-4.9	
Anthracene	0.797	0.783		-1.8	
Carbazole	0.949	0.925		-2.5	
Di-n-butylphthalate	1.422	1.394		-2.0	
Fluoranthene	1.085	1.037		-4.4	20.0
Pyrene	1.273	1.248		-2.0	
Butylbenzylphthalate	0.803	0.765		-4.7	
3,3'-Dichlorobenzidine	0.450	0.424		-5.8	
Benzo(a)anthracene	1.048	1.009		-3.7	
Chrysene	0.906	0.832		-8.2	
bis(2-Ethylhexyl)phthalate	0.857	0.852		-0.6	
Di-n-octylphthalate	2.134	2.235		4.7	20.0
Benzo(b)fluoranthene	1.271	1.142		-10.1	
Benzo(k)fluoranthene	0.910	0.998		9.7	
Benzo(a)pyrene	1.095	1.068		-2.5	20.0
Indeno(1,2,3-cd)pyrene	1.119	1.018		-9.0	
Dibenz(a,h)anthracene	0.900	0.848		-5.8	
Benzo(g,h,i)perylene	1.057	0.976		-7.7	
Nitrobenzene-D5	0.434	0.422		-2.8	
2-Fluorobiphenyl	0.888	0.856		-3.6	
Terphenyl-D14	1.039	1.020		-1.8	
Phenol-D5	1.908	1.824		-4.4	
2-Fluorophenol	1.715	1.500		-12.5	
2,4,6-Tribromophenol	0.205	0.191		-6.8	

(1) Cannot be separated from Diphenylamine

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL/CT

Contract: _____

Lab Code: IEACT

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Instrument ID: HP5971Q

Calibration Date: 05/03/01

Time: 1039

Lab File ID: >Q1936

Init. Calib. Date(s): 04/30/01 _____

Init. Calib. Times: 1238

1523

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.720	1.839		6.9	20.0
bis(2-Chloroethyl) ether	1.224	1.264		3.3	
2-Chlorophenol	1.293	1.359		5.1	
1,3-Dichlorobenzene	1.439	1.527		6.1	
1,4-Dichlorobenzene	1.259	1.348		7.1	20.0
Benzyl alcohol	1.024	1.080		5.5	
1,2-Dichlorobenzene	1.153	1.213		5.2	
2-Methylphenol	1.274	1.358		6.6	
2,2'-oxybis(1-Chloropropane)	2.554	3.008		17.8	
4-Methylphenol	1.276	1.334		4.5	
N-Nitroso-di-n-propylamine	1.240	1.435	0.050	15.7	
Hexachloroethane	0.487	0.509		4.5	
Nitrobenzene	0.392	0.431		10.0	
Isophorone	0.905	0.949		4.9	
2-Nitrophenol	0.253	0.262		3.6	20.0
2,4-Dimethylphenol	0.354	0.383		8.2	
Benzoic acid	0.288	0.288		0.0	
bis(2-Chloroethoxy) methane	0.496	0.520		4.8	
2,4-Dichlorophenol	0.273	0.278		1.8	20.0
1,2,4-Trichlorobenzene	0.252	0.265		5.2	
Naphthalene	0.856	0.907		6.0	
4-Chloroaniline	0.480	0.508		5.8	
Hexachlorobutadiene	0.147	0.160		8.8	20.0
4-Chloro-3-methylphenol	0.386	0.405		4.9	20.0
2-Methylnaphthalene	0.558	0.598		7.2	
Hexachlorocyclopentadiene	0.120	0.098	0.050	-18.3	
2,4,6-Trichlorophenol	0.365	0.397		8.8	20.0
2,4,5-Trichlorophenol	0.370	0.368		-0.5	
2-Chloronaphthalene	0.829	0.887		7.0	
2-Nitroaniline	0.515	0.541		5.0	
Dimethylphthalate	1.403	1.434		2.2	
Acenaphthylene	1.667	1.760		5.6	
2,6-Dinitrotoluene	0.286	0.285		-0.4	
3-Nitroaniline	0.413	0.375		-9.2	
Acenaphthene	0.878	0.920		4.8	20.0
2,4-Dinitrophenol	0.185	0.164	0.050	-11.4	
4-Nitrophenol	0.157	0.154	0.050	-1.9	

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL/CT

Contract: _____

Lab Code: IEACT

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Instrument ID: HP5971Q

Calibration Date: 05/03/01

Time: 1039

Lab File ID: >Q1936

Init. Calib. Date(s): 04/30/01 _____

Init. Calib. Times: 1238

1523

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Dibenzofuran	1.386	1.437		3.7	
2,4-Dinitrotoluene	0.433	0.401		-7.4	
Diethylphthalate	1.489	1.518		2.0	
4-Chlorophenyl-Phenyl Ether	0.423	0.438		3.6	
Fluorene	0.979	1.036		5.8	
4-Nitroaniline	0.499	0.439		-12.0	
4,6-Dinitro-2-methylphenol	0.135	0.139		3.0	
N-Nitrosodiphenylamine	0.414	0.477		15.2	20.0
4-Bromophenyl-phenylether	0.195	0.226		15.9	
Hexachlorobenzene	0.210	0.237		12.8	
Pentachlorophenol	0.111	0.104		-6.3	20.0
Phenanthrene	0.753	0.831		10.4	
Anthracene	0.797	0.884		10.9	
Carbazole	0.949	1.031		8.6	
Di-n-butylphthalate	1.422	1.559		9.6	
Fluoranthene	1.085	1.121		3.3	20.0
Pyrene	1.273	1.511		18.7	
Butylbenzylphthalate	0.803	0.915		13.9	
3,3'-Dichlorobenzidine	0.450	0.459		2.0	
Benzo (a) anthracene	1.048	1.172		11.8	
Chrysene	0.906	0.978		8.0	
bis (2-Ethylhexyl) phthalate	0.857	1.015		18.4	
Di-n-octylphthalate	2.134	2.546		19.3	20.0
Benzo (b) fluoranthene	1.271	1.264		-0.6	
Benzo (k) fluoranthene	0.910	1.130		24.2	
Benzo (a) pyrene	1.095	1.181		7.8	20.0
Indeno (1,2,3-cd) pyrene	1.119	1.125		0.5	
Dibenz (a, h) anthracene	0.900	0.943		4.8	
Benzo (g, h, i) perylene	1.057	1.045		-1.1	
Nitrobenzene-D5	0.434	0.473		9.0	
2-Fluorobiphenyl	0.888	0.931		4.8	
Terphenyl-D14	1.039	1.197		15.2	
Phenol-D5	1.908	2.079		9.0	
2-Fluorophenol	1.715	1.728		0.8	
2,4,6-Tribromophenol	0.205	0.198		-3.4	

(1) Cannot be separated from Diphenylamine

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL/CT Contract: _____
Lab Code: IEACT Case No.: 1041A SAS No.: _____ SDG No.: A1041
Instrument ID: HP5972S Calibration Date: 05/08/01 Time: 1045
Lab File ID: >S3125 Init. Calib. Date(s): 04/26/01 _____
Init. Calib. Times: 1519 1824

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.894	1.845		-2.6	20.0
bis(2-Chloroethyl) ether	1.164	1.165		0.1	
2-Chlorophenol	1.375	1.298		-5.6	
1,3-Dichlorobenzene	1.355	1.371		1.2	
1,4-Dichlorobenzene	1.380	1.404		1.7	20.0
Benzyl alcohol	0.712	0.778		9.3	
1,2-Dichlorobenzene	1.292	1.306		1.1	
2-Methylphenol	1.373	1.293		-5.8	
2,2'-oxybis(1-Chloropropane)	2.683	2.674		-0.3	
4-Methylphenol	1.505	1.343		-10.8	
N-Nitroso-di-n-propylamine	1.146	1.114	0.050	-2.8	
Hexachloroethane	0.567	0.571		0.7	
Nitrobenzene	0.369	0.359		-2.7	
Isophorone	0.740	0.747		0.9	
2-Nitrophenol	0.200	0.173		-13.5	20.0
2,4-Dimethylphenol	0.315	0.306		-2.9	
Benzoic acid	0.264	0.202		-23.5	
bis(2-Chloroethoxy)methane	0.475	0.485		2.1	
2,4-Dichlorophenol	0.280	0.270		-3.6	20.0
1,2,4-Trichlorobenzene	0.280	0.290		3.6	
Naphthalene	0.908	0.949		4.5	
4-Chloroaniline	0.384	0.411		7.0	
Hexachlorobutadiene	0.130	0.138		6.2	20.0
4-Chloro-3-methylphenol	0.287	0.287		0.0	20.0
2-Methylnaphthalene	0.518	0.556		7.3	
Hexachlorocyclopentadiene	0.311	0.314	0.050	1.0	
2,4,6-Trichlorophenol	0.350	0.346		-1.1	20.0
2,4,5-Trichlorophenol	0.410	0.372		-9.3	
2-Chloronaphthalene	1.058	1.099		3.9	
2-Nitroaniline	0.375	0.359		-4.3	
Dimethylphthalate	1.190	1.230		3.4	
Acenaphthylene	1.646	1.724		4.7	
2,6-Dinitrotoluene	0.307	0.285		-7.2	
3-Nitroaniline	0.310	0.318		2.6	
Acenaphthene	0.957	1.006		5.1	20.0
2,4-Dinitrophenol	0.197	0.135	0.050	-31.5	
4-Nitrophenol	0.111	0.115	0.050	3.6	

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL/CT

Contract: _____

Lab Code: IEACT

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Instrument ID: HP5972S

Calibration Date: 05/08/01

Time: 1045

Lab File ID: >S3125

Init. Calib. Date(s): 04/26/01 _____

Init. Calib. Times: 1519

1824

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Dibenzofuran	1.395	1.436		2.9	
2,4-Dinitrotoluene	0.383	0.359		-6.3	
Diethylphthalate	1.125	1.160		3.1	
4-Chlorophenyl-Phenyl Ether	0.502	0.522		4.0	
Fluorene	1.068	1.105		3.5	
4-Nitroaniline	0.283	0.290		2.5	
4,6-Dinitro-2-methylphenol	0.153	0.129		-15.7	
N-Nitrosodiphenylamine	0.538	0.554		3.0	20.0
4-Bromophenyl-phenylether	0.190	0.199		4.7	
Hexachlorobenzene	0.216	0.231		6.9	
Pentachlorophenol	0.134	0.135		0.7	20.0
Phenanthrene	0.905	0.934		3.2	
Anthracene	0.958	0.995		3.9	
Carbazole	0.829	0.893		7.7	
Di-n-butylphthalate	1.196	1.269		6.1	
Fluoranthene	0.818	0.853		4.3	20.0
Pyrene	1.370	1.401		2.3	
Butylbenzylphthalate	0.729	0.733		0.5	
3,3'-Dichlorobenzidine	0.355	0.359		1.1	
Benzo(a)anthracene	0.954	0.965		1.2	
Chrysene	0.896	0.912		1.8	
bis(2-Ethylhexyl)phthalate	0.991	1.010		1.9	
Di-n-octylphthalate	1.999	2.208		10.4	20.0
Benzo(b)fluoranthene	1.074	1.148		6.9	
Benzo(k)fluoranthene	0.973	1.035		6.4	
Benzo(a)pyrene	0.985	1.014		2.9	20.0
Indeno(1,2,3-cd)pyrene	1.510	1.379		-8.7	
Dibenz(a,h)anthracene	1.235	1.149		-7.0	
Benzo(g,h,i)perylene	1.369	1.206		-11.9	
Nitrobenzene-D5	0.366	0.348		-4.9	
2-Fluorobiphenyl	1.117	1.174		5.1	
Terphenyl-D14	0.994	1.037		4.3	
Phenol-D5	1.928	1.841		-4.5	
2-Fluorophenol	1.307	1.249		-4.4	
2,4,6-Tribromophenol	0.170	0.175		2.9	

(1) Cannot be separated from Diphenylamine

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL/CT

Contract: _____

Lab Code: IEACT

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Instrument ID: HP5972S

Calibration Date: 05/15/01

Time: 1654

Lab File ID: >S3212

Init. Calib. Date(s): 05/15/01 _____

Init. Calib. Times: 1233

1526

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	2.015	1.992		-1.1	20.0
bis(2-Chloroethyl) ether	1.186	1.178		-0.7	
2-Chlorophenol	1.468	1.489		1.4	
1,3-Dichlorobenzene	1.455	1.500		3.1	
1,4-Dichlorobenzene	1.480	1.524		3.0	20.0
Benzyl alcohol	1.044	1.012		-3.1	
1,2-Dichlorobenzene	1.377	1.437		4.4	
2-Methylphenol	1.400	1.399		-0.1	
2,2'-oxybis(1-Chloropropane)	2.619	2.635		0.6	
4-Methylphenol	1.458	1.506		3.3	
N-Nitroso-di-n-propylamine	1.174	1.170	0.050	-0.3	
Hexachloroethane	0.608	0.620		2.0	
Nitrobenzene	0.394	0.401		1.8	
Isophorone	0.767	0.768		0.1	
2-Nitrophenol	0.227	0.234		3.1	20.0
2,4-Dimethylphenol	0.326	0.329		0.9	
Benzoic acid	0.329	0.319		-3.0	
bis(2-Chloroethoxy) methane	0.500	0.508		1.6	
2,4-Dichlorophenol	0.302	0.310		2.6	20.0
1,2,4-Trichlorobenzene	0.303	0.317		4.6	
Naphthalene	0.984	1.031		4.8	
4-Chloroaniline	0.450	0.467		3.8	
Hexachlorobutadiene	0.141	0.150		6.4	20.0
4-Chloro-3-methylphenol	0.317	0.325		2.5	20.0
2-Methylnaphthalene	0.555	0.595		7.2	
Hexachlorocyclopentadiene	0.337	0.344	0.050	2.1	
2,4,6-Trichlorophenol	0.408	0.405		-0.7	20.0
2,4,5-Trichlorophenol	0.446	0.449		0.7	
2-Chloronaphthalene	1.162	1.196		2.9	
2-Nitroaniline	0.429	0.420		-2.1	
Dimethylphthalate	1.367	1.368		0.1	
Acenaphthylene	1.797	1.880		4.6	
2,6-Dinitrotoluene	0.347	0.358		3.2	
3-Nitroaniline	0.421	0.423		0.5	
Acenaphthene	1.068	1.095		2.5	20.0
2,4-Dinitrophenol	0.260	0.247	0.050	-5.0	
4-Nitrophenol	0.150	0.139	0.050	-7.3	

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

0062

Lab Name: STL/CT

Contract: _____

Lab Code: IEACT

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Instrument ID: HP5972S

Calibration Date: 05/15/01

Time: 1654

Lab File ID: >S3212

Init. Calib. Date(s): 05/15/01 _____

Init. Calib. Times: 1233

1526

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Dibenzofuran	1.567	1.604		2.4	
2,4-Dinitrotoluene	0.482	0.472		-2.1	
Diethylphthalate	1.329	1.334		0.4	
4-Chlorophenyl-Phenyl Ether	0.560	0.584		4.3	
Fluorene	1.195	1.226		2.6	
4-Nitroaniline	0.423	0.422		-0.2	
4,6-Dinitro-2-methylphenol	0.185	0.187		1.1	
N-Nitrosodiphenylamine	0.557	0.588		5.6	20.0
4-Bromophenyl-phenylether	0.202	0.207		2.5	
Hexachlorobenzene	0.236	0.246		4.2	
Pentachlorophenol	0.162	0.159		-1.8	20.0
Phenanthrene	0.976	1.009		3.4	
Anthracene	1.034	1.076		4.1	
Carbazole	1.001	1.033		3.2	
Di-n-butylphthalate	1.369	1.415		3.4	
Fluoranthene	0.984	1.018		3.5	20.0
Pyrene	1.329	1.356		2.0	
Butylbenzylphthalate	0.731	0.742		1.5	
3,3'-Dichlorobenzidine	0.363	0.387		6.6	
Benzo (a) anthracene	1.039	1.077		3.7	
Chrysene	0.981	1.018		3.8	
bis (2-Ethylhexyl) phthalate	0.957	1.001		4.6	
Di-n-octylphthalate	2.522	2.588		2.6	20.0
Benzo (b) fluoranthene	1.330	1.269		-4.6	
Benzo (k) fluoranthene	1.137	1.284		12.9	
Benzo (a) pyrene	1.132	1.153		1.9	20.0
Indeno (1,2,3-cd) pyrene	1.212	1.038		-14.4	
Dibenz (a, h) anthracene	1.010	0.890		-11.9	
Benzo (g, h, i) perylene	1.065	0.873		-18.0	
Nitrobenzene-D5	0.397	0.402		1.3	
2-Fluorobiphenyl	1.232	1.275		3.5	
Terphenyl-D14	0.958	0.985		2.8	
Phenol-D5	2.010	1.994		-0.8	
2-Fluorophenol	1.398	1.370		-2.0	
2,4,6-Tribromophenol	0.217	0.216		-0.5	

(1) Cannot be separated from Diphenylamine

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL/CT

Contract: _____

Lab Code: IEACT

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Instrument ID: HP5972S

Calibration Date: 05/16/01

Time: 0931

Lab File ID: >S3230

Init. Calib. Date(s): 05/15/01 _____

Init. Calib. Times: 1233

1526

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	2.015	1.797		-10.8	20.0
bis(2-Chloroethyl) ether	1.186	1.069		-9.9	
2-Chlorophenol	1.468	1.421		-3.2	
1,3-Dichlorobenzene	1.455	1.530		5.2	
1,4-Dichlorobenzene	1.480	1.533		3.6	20.0
Benzyl alcohol	1.044	0.831		-20.4	
1,2-Dichlorobenzene	1.377	1.414		2.7	
2-Methylphenol	1.400	1.252		-10.6	
2,2'-oxybis(1-Chloropropane)	2.619	2.260		-13.7	
4-Methylphenol	1.458	1.298		-11.0	
N-Nitroso-di-n-propylamine	1.174	0.964	0.050	-17.9	
Hexachloroethane	0.608	0.622		2.3	
Nitrobenzene	0.394	0.397		0.8	
Isophorone	0.767	0.710		-7.4	
2-Nitrophenol	0.227	0.234		3.1	20.0
2,4-Dimethylphenol	0.326	0.325		-0.3	
Benzoic acid	0.329	0.281		-14.6	
bis(2-Chloroethoxy) methane	0.500	0.486		-2.8	
2,4-Dichlorophenol	0.302	0.310		2.6	20.0
1,2,4-Trichlorobenzene	0.303	0.332		9.6	
Naphthalene	0.984	1.034		5.1	
4-Chloroaniline	0.450	0.438		-2.7	
Hexachlorobutadiene	0.141	0.162		14.9	20.0
4-Chloro-3-methylphenol	0.317	0.293		-7.6	20.0
2-Methylnaphthalene	0.555	0.581		4.7	
Hexachlorocyclopentadiene	0.337	0.370	0.050	9.8	
2,4,6-Trichlorophenol	0.408	0.414		1.5	20.0
2,4,5-Trichlorophenol	0.446	0.465		4.3	
2-Chloronaphthalene	1.162	1.244		7.1	
2-Nitroaniline	0.429	0.385		-10.2	
Dimethylphthalate	1.367	1.329		-2.8	
Acenaphthylene	1.797	1.909		6.2	
2,6-Dinitrotoluene	0.347	0.355		2.3	
3-Nitroaniline	0.421	0.395		-6.2	
Acenaphthene	1.068	1.106		3.6	20.0
2,4-Dinitrophenol	0.260	0.233	0.050	-10.4	
4-Nitrophenol	0.150	0.129	0.050	-14.0	

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL/CT

Contract: _____

Lab Code: IEACT

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Instrument ID: HP5972S

Calibration Date: 05/16/01

Time: 0931

Lab File ID: >S3230

Init. Calib. Date(s): 05/15/01 _____

Init. Calib. Times: 1233

1526

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Dibenzofuran	1.567	1.599		2.0	
2,4-Dinitrotoluene	0.482	0.444		-7.9	
Diethylphthalate	1.329	1.270		-4.4	
4-Chlorophenyl-Phenyl Ether	0.560	0.582		3.9	
Fluorene	1.195	1.212		1.4	
4-Nitroaniline	0.423	0.379		-10.4	
4,6-Dinitro-2-methylphenol	0.185	0.192		3.8	
N-Nitrosodiphenylamine	0.557	0.591		6.1	20.0
4-Bromophenyl-phenylether	0.202	0.218		7.9	
Hexachlorobenzene	0.236	0.254		7.6	
Pentachlorophenol	0.162	0.154		-4.9	20.0
Phenanthrene	0.976	1.022		4.7	
Anthracene	1.034	1.093		5.7	
Carbazole	1.001	0.998		-0.3	
Di-n-butylphthalate	1.369	1.386		1.2	
Fluoranthene	0.984	0.965		-1.9	20.0
Pyrene	1.329	1.399		5.3	
Butylbenzylphthalate	0.731	0.732		0.1	
3,3'-Dichlorobenzidine	0.363	0.408		12.4	
Benzo (a) anthracene	1.039	1.084		4.3	
Chrysene	0.981	1.009		2.8	
bis(2-Ethylhexyl) phthalate	0.957	0.982		2.6	
Di-n-octylphthalate	2.522	2.199		-12.8	20.0
Benzo (b) fluoranthene	1.330	1.216		-8.6	
Benzo (k) fluoranthene	1.137	1.166		2.6	
Benzo (a) pyrene	1.132	1.129		-0.3	20.0
Indeno (1,2,3-cd) pyrene	1.212	1.266		4.5	
Dibenz (a, h) anthracene	1.010	1.065		5.4	
Benzo (g, h, i) perylene	1.065	1.112		4.4	
Nitrobenzene-D5	0.397	0.399		0.5	
2-Fluorobiphenyl	1.232	1.350		9.6	
Terphenyl-D14	0.958	1.038		8.4	
Phenol-D5	2.010	1.815		-9.7	
2-Fluorophenol	1.398	1.407		0.6	
2,4,6-Tribromophenol	0.217	0.204		-6.0	

(1) Cannot be separated from Diphenylamine

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY 64A

Lab Name: STL/CT

Contract: _____

Lab Code: IEACT

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Lab File ID: (Standard): >Q1919

Date Analyzed: 05/02/01

Instrument ID: HP5971Q

Time Analyzed: 1057

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	164218	8.42	678970	11.36	404906	15.33
UPPER LIMIT	328436	8.92	1357940	11.86	809812	15.83
LOWER LIMIT	82109	7.92	339485	10.86	202453	14.83
EPA SAMPLE NO.						
01 SBLKVQ	195803	8.42	913790	11.36	501996	15.33
02 SBLKVQFMS	176118	8.42	659194	11.38	435210	15.34
03						
04						
05						
06						
07						
08						
09						
10						
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13						
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17						
18						
19						
20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

648

Lab Name: STL/CT

Contract: _____

Lab Code: IEACT

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Lab File ID: (Standard): >Q1919

Date Analyzed: 05/02/01

Instrument ID: HP5971Q

Time Analyzed: 1057

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	712022	18.38	520932	23.76	408421	26.44
UPPER LIMIT	1424044	18.88	1041864	24.26	816842	26.94
LOWER LIMIT	356011	17.88	260466	23.26	204210	25.94
EPA SAMPLE NO.						
01 SBLKVQ	867560	18.37	868903	23.75	599975	26.44
02 SBLKVQFMS	659168	18.38	573715	23.78	453261	26.46
03						
04						
05						
06						
07						
08						
9						
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20						
21						
22						

IS4 (PHN) = Phenanthrene-d10
 IS5 (CRY) = Chrysene-d12
 IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
 * Values outside of QC limits.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY 64c

Lab Name: STL/CT

Contract: _____

Lab Code: IEACT

Case No.: 1041A

SAS No.: _____ SDG No.: A1041

Lab File ID: (Standard): >Q1936

Date Analyzed: 05/03/01

Instrument ID: HP5971Q

Time Analyzed: 1039

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	144846	8.32	602496	11.26	343005	15.23
UPPER LIMIT	289692	8.82	1204992	11.76	686010	15.73
LOWER LIMIT	72423	7.82	301248	10.76	171502	14.73
EPA SAMPLE NO.						
01 15A/13-15MSB	179358	8.33	691086	11.27	433256	15.24
02 15A/13-15	201888	8.32	915326	11.27	470225	15.24
03 15A/13-15MS	182603	8.33	712225	11.26	459561	15.24
04 15A/13-15MSD	196692	8.32	748976	11.27	480353	15.24
05 15A/4-5	201468	8.32	902950	11.27	445693	15.24
06 15A/9-10	200948	8.33	914031	11.26	460197	15.23
07 15B/9-10	190614	8.32	874655	11.27	464632	15.24
08 15C/4-5	215526	8.33	822141	11.26	346392	15.24
9 15B/14-15	238356	8.32	874271	11.27	365258	15.24
10 15C/9-10	194515	8.33	885542	11.27	416088	15.25
11 15C/14-15	231482	8.33	893203	11.27	308297	15.24
12 15C/0-1	191363	8.33	668809	11.28	252389	15.26
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19						
20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL/CT

Contract: _____

Lab Code: IEACT

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Lab File ID: (Standard): >Q1936

Date Analyzed: 05/03/01

Instrument ID: HP5971Q

Time Analyzed: 1039

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	545030	18.28	361313	23.66	278192	26.34
UPPER LIMIT	1090060	18.78	722626	24.16	556384	26.84
LOWER LIMIT	272515	17.78	180656	23.16	139096	25.84
EPA SAMPLE NO.						
01 15A/13-15MSB	529974	18.29	353786	23.66	251142	26.35
02 15A/13-15	684805	18.29	398406	23.67	280987	26.36
03 15A/13-15MS	621896	18.28	424706	23.66	315366	26.36
04 15A/13-15MSD	634779	18.29	424424	23.66	317825	26.35
05 15A/4-5	463557	18.29	371214	23.67	285006	26.36
06 15A/9-10	661329	18.28	428890	23.66	328667	26.36
07 15B/9-10	595530	18.29	460496	23.67	356715	26.36
08 15C/4-5	382130	18.28	273018	23.68	222998	26.40
09 15B/14-15	376033	18.30	250390	23.71	303894	26.45
10 15C/9-10	468665	18.30	259199	23.69	249675	26.39
11 15C/14-15	304582	18.31	208373	23.74	240609	26.52
12 15C/0-1	251572 *	18.31	179339 *	23.86	46851 *	26.63
13						
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20						
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22						

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

64E

Lab Name: STL/CT

Contract: _____

Lab Code: IEACT

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Lab File ID: (Standard): >S3125

Date Analyzed: 05/08/01

Instrument ID: HP5972S

Time Analyzed: 1045

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	150321	11.06	582031	14.02	299747	17.92
UPPER LIMIT	300642	11.56	1164062	14.52	599494	18.42
LOWER LIMIT	75160	10.56	291016	13.52	149874	17.42
EPA SAMPLE NO.						
01 SBLKVS	139350	11.07	548478	14.02	292277	17.92
02 15B/4-5	150752	11.07	580724	14.02	293703	17.93
03						
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20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

64F

Lab Name: STL/CT

Contract: _____

Lab Code: IEACT

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Lab File ID: (Standard): >S3125

Date Analyzed: 05/08/01

Instrument ID: HP5972S

Time Analyzed: 1045

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	430775	21.05	254694	26.60	175170	30.41
UPPER LIMIT	861550	21.55	509388	27.10	350340	30.91
LOWER LIMIT	215388	20.55	127347	26.10	87585	29.91
EPA SAMPLE NO.						
01 SBLKVS	498615	21.04	361916	26.59	260990	30.41
02 15B/4-5	395720	21.05	192634	26.60	209568	30.44
03						
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20						
21						
22						

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

646

Lab Name: STL/CT

Contract: _____

Lab Code: IEACT

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Lab File ID: (Standard): >S3212

Date Analyzed: 05/15/01

Instrument ID: HP5972S

Time Analyzed: 1654

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	111402	10.55	436954	13.51	226612	17.42
UPPER LIMIT	222804	11.05	873908	14.01	453224	17.92
LOWER LIMIT	55701	10.05	218477	13.01	113306	16.92
EPA SAMPLE NO.						
01 15A/0-1	111727	10.54	436266	13.51	225503	17.42
02 15C/0-1DL	94453	10.55	353795	13.51	162200	17.41
03						
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22						

<

IS1 (DCB) = 1,4-Dichlorobenzene-d4
 IS2 (NPT) = Naphthalene-d8
 IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
 * Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

64 H

Lab Name: STL/CT

Contract: _____

Lab Code: IEACT

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Lab File ID: (Standard): >S3212

Date Analyzed: 05/15/01

Instrument ID: HP5972S

Time Analyzed: 1654

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	357777	20.52	265526	26.03	187224	29.44
UPPER LIMIT	715554	21.02	531052	26.53	374448	29.94
LOWER LIMIT	178888	20.02	132763	25.53	93612	28.94
EPA SAMPLE NO.						
01 15A/0-1	344568	20.51	200539	26.02	134477	29.44
02 15C/0-1DL	196453	20.52	85874 *	26.08	80407 *	29.67
03						
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20						
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22						

IS4 (PHN) = Phenanthrene-d10
 IS5 (CRY) = Chrysene-d12
 IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
 * Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

64 I

Lab Name: STL/CT

Contract: _____

Lab Code: IEACT

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Lab File ID: (Standard): >S3230

Date Analyzed: 05/16/01

Instrument ID: HP5972S

Time Analyzed: 0931

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	111810	10.50	380997	13.47	179816	17.38
UPPER LIMIT	223620	11.00	761994	13.97	359632	17.88
LOWER LIMIT	55905	10.00	190498	12.97	89908	16.88
EPA SAMPLE NO.						
01 15B/0-1	131085	10.50	441188	13.46	204270	17.36
02						
03						
04						
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19						
20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4
 IS2 (NPT) = Naphthalene-d8
 IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
 * Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

64 J

Lab Name: STL/CT Contract: _____
 Lab Code: IEACT Case No.: 1041A SAS No.: _____ SDG No.: A1041
 Lab File ID: (Standard): >S3230 Date Analyzed: 05/16/01
 Instrument ID: HP5972S Time Analyzed: 0931

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	265687	20.48	180070	25.98	141468	29.37
UPPER LIMIT	531374	20.98	360140	26.48	282936	29.87
LOWER LIMIT	132844	19.98	90035	25.48	70734	28.87
EPA SAMPLE NO.						
01 15B/0-1	290414	20.47	170920	25.96	124521	29.36
02						
03						
04						
05						
06						
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20						
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22						

IS4 (PHN) = Phenanthrene-d10
 IS5 (CRY) = Chrysene-d12
 IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
 * Values outside of QC limits.

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL Contract: _____
 Lab Code: STL Case No.: 1041A SAS No.: _____ SDG No.: A1041
 SOW No.: ILM04.0

Field Sample ID	Lab Sample ID.
<u>15A/0-1</u>	<u>011041A-01</u>
<u>15A/4-5</u>	<u>011041A-02</u>
<u>15A/9-10</u>	<u>011041A-03</u>
<u>15A/13-15D</u>	<u>011041A-04D</u>
<u>15A/13-15S</u>	<u>011041A-04S</u>
<u>15A/13-15</u>	<u>011041A-04</u>
<u>15B/0-1</u>	<u>011041A-05</u>
<u>15B/4-5</u>	<u>011041A-06</u>
<u>15B/9-10</u>	<u>011041A-07</u>
<u>15B/14-15</u>	<u>011041A-08</u>
<u>15C/0-1</u>	<u>011041A-09</u>
<u>15C/4-5</u>	<u>011041A-10</u>
<u>15C/9-10</u>	<u>011041A-11</u>
<u>15C/14-15</u>	<u>011041A-12</u>
<u>26B-C/0-1</u>	<u>011041A-13</u>
<u>26B-C/4-5</u>	<u>011041A-14</u>
<u>26A-C/0-1</u>	<u>011041A-15</u>
<u>26A-C/4-5</u>	<u>011041A-16</u>
<u>26A-B/0-1</u>	<u>011041A-17</u>
<u>26A-B/4-5</u>	<u>011041A-18</u>

Were ICP interelement corrections applied? Yes/No YES
 Were ICP background corrections applied? Yes/No YES
 If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

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

Signature: *David W. Hultquist* Name: David W. Hultquist
 Date: 5/21/01 Title: Group Leader

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: 1041A

SAS No.: _____ SDG No.: A1041

SOW No.: ILM04.0

Field Sample ID

Lab Sample ID.

26A-D/0-1
26A-D/4-5

011041A-19
011041A-20

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

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

Signature: *[Handwritten Signature]*

Name: Daniel W. Hefford

Date: 5/21/01

Title: Group Leader

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

15A/0-1

Lab Name: STL

Contract: _____

Lab Code: STL

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Matrix (soil/water): SOIL

Lab Sample ID: 011041A-01

Level (low/med): LOW

Date Received: 04/27/01

% Solids: 94

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	24.1			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.45			CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	148.			P
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

15A/4-5

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Matrix (soil/water): SOIL

Lab Sample ID: 011041A-02

Level (low/med): LOW

Date Received: 04/27/01

% Solids: 88

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	16.4			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.020			CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	29.9			P
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

15A/9-10

Lab Name: STL

Contract: _____

Lab Code: STL

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Matrix (soil/water): SOIL

Lab Sample ID: 011041A-03

Level (low/med): LOW

Date Received: 04/27/01

% Solids: 96

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	14.9			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.0079			CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	25.8			P
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

15A/13-15

Lab Name: STL

Contract: _____

Lab Code: STL

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Matrix (soil/water): SOIL

Lab Sample ID: 011041A-04

Level (low/med): LOW

Date Received: 04/27/01

% Solids: 92

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	5.1			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.0042	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	13.7	U		P
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

15B/0-1

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: 1041A

SAS No.: _____

SDG No.: A1041Matrix (soil/water): SOILLab Sample ID: 011041A-05Level (low/med): LOWDate Received: 04/27/01% Solids: 86

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	80.1			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.91			CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	855.			P
57-12-5	Cyanide				NR

Color Before: BROWNClarity Before: OPAQUE

Texture: _____

Color After: YELLOWClarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

15B/4-5

Lab Name: STL

Contract: _____

Lab Code: STL

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Matrix (soil/water): SOIL

Lab Sample ID: 011041A-06

Level (low/med): LOW

Date Received: 04/27/01

% Solids: 96

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	16.0			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.052			CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	34.3			P
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

15B/9-10

Lab Name: STL

Contract: _____

Lab Code: STL

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Matrix (soil/water): SOIL

Lab Sample ID: 011041A-07

Level (low/med): LOW

Date Received: 04/27/01

% Solids: 94

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	11.5			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.0061			CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	23.6			P
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: COLORLESS

Clarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

15B/14-15

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Matrix (soil/water): SOIL

Lab Sample ID: 011041A-08

Level (low/med): LOW

Date Received: 04/27/01

% Solids: 84

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	23.2			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.029			CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	42.6			P
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

15C/0-1

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Matrix (soil/water): SOIL

Lab Sample ID: 011041A-09

Level (low/med): LOW

Date Received: 04/27/01

% Solids: 88

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	39.0			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.32			CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	258.			P
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

15C/4-5

Lab Name: STL Contract: _____
 Lab Code: STL Case No.: 1041A SAS No.: _____ SDG No.: A1041
 Matrix (soil/water): SOIL Lab Sample ID: 011041A-10
 Level (low/med): LOW Date Received: 04/27/01
 % Solids: 96

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	9.1			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.0033	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	13.6	U		P
57-12-5	Cyanide				NR

Color Before: BROWN Clarity Before: OPAQUE Texture: _____
 Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

0077
EPA SAMPLE NO.

15C/9-10

Lab Name: STL

Contract: _____

Lab Code: STL

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Matrix (soil/water): SOIL

Lab Sample ID: 011041A-11

Level (low/med): LOW

Date Received: 04/27/01

% Solids: 89

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	16.8			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.016			CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	28.2			P
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

15C/14-15

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Matrix (soil/water): SOIL

Lab Sample ID: 011041A-12

Level (low/med): LOW

Date Received: 04/27/01

% Solids: 91

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	17.4			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.036			CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	32.0			P
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

26B-C/0-1

Lab Name: STL

Contract: _____

Lab Code: STL

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Matrix (soil/water): SOIL

Lab Sample ID: 011041A-13

Level (low/med): LOW

Date Received: 04/27/01

% Solids: 91.9

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	5.3	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper	10.3			P
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

26B-C/4-5

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Matrix (soil/water): SOIL

Lab Sample ID: 011041A-14

Level (low/med): LOW

Date Received: 04/27/01

% Solids: 92.9

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	6.0	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper	16.2			P
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

26A-C/0-1

Lab Name: STL

Contract: _____

Lab Code: STL

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Matrix (soil/water): SOIL

Lab Sample ID: 011041A-15

Level (low/med): LOW

Date Received: 04/27/01

% Solids: 91.6

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	83.5			P
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

26A-C/4-5

Lab Name: STL

Contract: _____

Lab Code: STL

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Matrix (soil/water): SOIL

Lab Sample ID: 011041A-16

Level (low/med): LOW

Date Received: 04/27/01

% Solids: 81.2

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	15.8	U		P
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: COLORLESS

Clarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

26A-B/0-1

Lab Name: STL

Contract: _____

Lab Code: STL

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Matrix (soil/water): SOIL

Lab Sample ID: 011041A-17

Level (low/med): LOW

Date Received: 04/27/01

% Solids: 92.2

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	188.			P
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

26A-B/4-5

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Matrix (soil/water): SOIL

Lab Sample ID: 011041A-18

Level (low/med): LOW

Date Received: 04/27/01

% Solids: 95.9

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	20.8			P
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: COLORLESS

Clarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

26A-D/0-1

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Matrix (soil/water): SOIL

Lab Sample ID: 011041A-19

Level (low/med): LOW

Date Received: 04/27/01

% Solids: 88.4

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	127.			P
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

26A-D/4-5

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Matrix (soil/water): SOIL

Lab Sample ID: 011041A-20

Level (low/med): LOW

Date Received: 04/27/01

% Solids: 94.1

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	21.8			P
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____SAS No.: _____ SDG No.: A1041Initial Calibration Source: INORG. VENT.Continuing Calibration Source: INORG. VENT.

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony									NR
Arsenic	1000.0	990.35	99.0	500.0	490.12	98.0	495.04	99.0	P
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium	1000.0	968.55	96.8	500.0	481.38	96.3	483.99	96.8	P
Cobalt									NR
Copper	1000.0	982.15	98.2	500.0	483.43	96.7	487.39	97.5	P
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury	5.0	5.13	102.6	5.0	5.17	103.4	5.11	102.2	CV
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc	1000.0	992.12	99.2	500.0	493.10	98.6	496.05	99.2	P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110 ; Cyanide 85-115;

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____SAS No.: _____ SDG No.: A1041Initial Calibration Source: INORG. VENT.Continuing Calibration Source: INORG. VENT.

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				M	
	True	Found	%R(1)	True	Found	%R(1)	Found		%R(1)
Aluminum									NR
Antimony									NR
Arsenic				500.0	492.09	98.4	489.90	98.0	P
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium				500.0	479.74	95.9	482.64	96.5	P
Cobalt									NR
Copper				500.0	481.93	96.4	484.26	96.8	P
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury				5.0	5.30	106.0	5.22	104.4	CV
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc				500.0	490.73	98.1	494.13	98.8	P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110 ; Cyanide 85-115;

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____SAS No.: _____ SDG No.: A1041Initial Calibration Source: INORG. VENT.Continuing Calibration Source: INORG. VENT.

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				M	
	True	Found	%R(1)	True	Found	%R(1)	Found		%R(1)
Aluminum									NR
Antimony									NR
Arsenic				500.0	497.94	99.6			P
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium				500.0	485.53	97.1			P
Cobalt									NR
Copper				500.0	486.44	97.3			P
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury				5.0	5.19	103.8	5.10	102.0	CV
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc				500.0	512.19	102.4			P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110 ; Cyanide 85-115;

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____SAS No.: _____ SDG No.: A1041Initial Calibration Source: INORG. VENT.Continuing Calibration Source: INORG. VENT.

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				M	
	True	Found	%R(1)	True	Found	%R(1)	Found		%R(1)
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury				5.0	5.16	103.2	5.19	103.8	CV
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110 ; Cyanide 85-115;

U.S. EPA - CLP

2B

CRDL STANDARD FOR AA AND ICP

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____SAS No.: _____ SDG No.: A1041AA CRDL Standard Source: INORG. VENT.ICP CRDL Standard Source: INORG. VENT.

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R(1)	True	Initial Found <i>02/2/01</i>	%R(1)	Final Found	%R(1)
Aluminum								
Antimony						91.4		111.1
Arsenic				20.0	18.28	223.0	22.23	271.1
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium				20.0	20.21	101.0	20.58	102.9
Cobalt								
Copper				50.0	50.81	101.6	50.34	100.7
Iron								
Lead								
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc				40.0	40.10	100.3	41.27	103.2
Cyanide								

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3
BLANKSLab Name: STL

Contract: _____

Lab Code: STL Case No.: _____SAS No.: _____ SDG No.: A1041Preparation Blank Matrix (soil/water): SOILPreparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calibration Blank (ug/L)	Continuing Calibration Blank (ug/L)						Prepa- ration Blank	C	M
		1	C	2	C	3	C			
Aluminum									NR	
Antimony									NR	
Arsenic	4.1U		4.1U		4.1U		4.1U	5.660U	P	
Barium									NR	
Beryllium									NR	
Cadmium									NR	
Calcium									NR	
Chromium	1.0U		1.0U		1.0U		1.0U	0.943U	P	
Cobalt									NR	
Copper	1.8U		1.8U		1.8U		1.8U	4.717U	P	
Iron									NR	
Lead									NR	
Magnesium									NR	
Manganese									NR	
Mercury	-0.1B		0.1U		-0.1B		-0.1B	0.001U	CV	
Nickel									NR	
Potassium									NR	
Selenium									NR	
Silver									NR	
Sodium									NR	
Thallium									NR	
Vanadium									NR	
Zinc	4.4U		4.4U		4.4U		4.4U	14.151U	P	
Cyanide									NR	

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3
BLANKS

Lab Name: STL Contract: _____
 Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A1041
 Preparation Blank Matrix (soil/water): WATER
 Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calibration Blank (ug/L)	Continuing Calibration Blank (ug/L)						Prepa- ration Blank	C	M
		1	C	2	C	3	C			
Aluminum									NR	
Antimony									NR	
Arsenic			4.1U		4.1U				P	
Barium									NR	
Beryllium									NR	
Cadmium									NR	
Calcium									NR	
Chromium			1.0U		1.0U				P	
Cobalt									NR	
Copper			1.8U		1.8U				P	
Iron									NR	
Lead									NR	
Magnesium									NR	
Manganese									NR	
Mercury			-0.1B		-0.1B		-0.1B		CV	
Nickel									NR	
Potassium									NR	
Selenium									NR	
Silver									NR	
Sodium									NR	
Thallium									NR	
Vanadium									NR	
Zinc			4.4U		4.4U				P	
Cyanide									NR	

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3
BLANKSLab Name: STL

Contract: _____

Lab Code: STL Case No.: _____SAS No.: _____ SDG No.: A1041Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calibration Blank (ug/L)	Continuing Calibration Blank (ug/L)						Prepa- ration Blank		C	M
		1	C	2	C	3	C				
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury			0.10								CV
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

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4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____SAS No.: _____ SDG No.: A1041ID Number: JA61ICS Source: EPA-LV87

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	500000							
Antimony								
Arsenic		100	6	101.4	101.4	4	100.0	100.0
Barium								
Beryllium								
Cadmium								
Calcium	500000							
Chromium		500	1	432.3	86.4	1	439.3	87.8
Cobalt								
Copper		500	0	515.5	103.1	0	520.2	104.0
Iron	200000							
Lead								
Magnesium	500000							
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc		1000	-4	873.2	87.3	-5	894.9	89.4
Cyanide								

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

15A/13-15S

Lab Name: STL

Contract: _____

Lab Code: STL

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Matrix: SOIL

Level (low/med): LOW

% Solids for Sample: 92

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Aluminum							NR
Antimony							NR
Arsenic							NR
Barium							NR
Beryllium							NR
Cadmium							NR
Calcium							NR
Chromium	75-125	46.9358	5.0732	39.52	105.9		P
Cobalt							NR
Copper							NR
Iron							NR
Lead							NR
Magnesium							NR
Manganese							NR
Mercury	75-125	0.0371	0.0042	0.04	101.0		CV
Nickel							NR
Potassium							NR
Selenium							NR
Silver							NR
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc	75-125	109.5895	13.7011	98.81	110.9		P
Cyanide							NR

Comments:

6
DUPLICATES

EPA SAMPLE NO.

15A/13-15D

Lab Name: STL

Contract: _____

Lab Code: STL

Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Matrix: SOIL

Level (low/med): LOW

% Solids for Sample: 92

% Solids for Duplicate: 92

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic								NR
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium		5.0732		6.1743		19.6		P
Cobalt								NR
Copper								NR
Iron								NR
Lead								NR
Magnesium								NR
Manganese								NR
Mercury		0.0042	U	0.0039	U			CV
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc		13.7011	U	13.0435	U			P
Cyanide								NR

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7

LABORATORY CONTROL SAMPLE

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____SAS No.: _____ SDG No.: A1041Solid LCS Source: INORG. VENT.

Aqueous LCS Source: _____

Analyte	Aqueous (ug/L)			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum								
Antimony								
Arsenic				136.0	136.2		101.0 171.0	100.2
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium				89.3	86.6		71.3 107.0	97.0
Cobalt								
Copper				117.0	119.7		95.7 138.0	102.4
Iron								
Lead								
Magnesium								
Manganese								
Mercury				2.4	2.8		1.6 3.2	116.1
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc				66.0	61.4		42.9 89.1	93.0
Cyanide								

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 8
 STANDARD ADDITION RESULTS

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____

SAS No.: _____

SDG No.: A1041

Concentration Units: ug/L

EPA Sample No.	An	0 ADD ABS	1 ADD CON ABS	2 ADD CON ABS	3 ADD CON ABS	Final Conc.	r	Q

15A/13-15L

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Matrix(soil/water): SOIL

Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum							NR
Antimony							NR
Arsenic							NR
Barium							NR
Beryllium							NR
Cadmium							NR
Calcium							NR
Chromium	27.77		29.02		4.5		P
Cobalt							NR
Copper							NR
Iron							NR
Lead							NR
Magnesium							NR
Manganese							NR
Mercury							NR
Nickel							NR
Potassium							NR
Selenium							NR
Silver							NR
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc	75.00	U	375.00	U			P
Cyanide							NR

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____

SAS No.: _____ SDG No.: A1041

ICP ID Number: JA61

Date: 04/17/01

Flame AA ID Number: _____

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum					
Antimony					
Arsenic	193.60		10.0	4.1	P
Barium					
Beryllium					
Cadmium					
Calcium					
Chromium	267.70		10.0	1.0	P
Cobalt					
Copper	324.75		25.0	1.8	P
Iron					
Lead					
Magnesium					
Manganese					
Mercury			.2		
Nickel					
Potassium					
Selenium					
Silver					
Sodium					
Thallium					
Vanadium					
Zinc	213.85		20.0	4.4	P

Comments:

U.S. EPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____SAS No.: _____ SDG No.: A1041

ICP ID Number: _____

Date: 04/17/01Flame AA ID Number: HG4

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum					
Antimony					
Arsenic			10.0		
Barium					
Beryllium					
Cadmium					
Calcium					
Chromium			10.0		
Cobalt					
Copper			25.0		
Iron					
Lead					
Magnesium					
Manganese					
Mercury	253.70		.2	.1CV	
Nickel					
Potassium					
Selenium					
Silver					
Sodium					
Thallium					
Vanadium					
Zinc			20.0		

Comments:

U.S. EPA - CLP

11A

ICP Interelement correction Factors (Annually)

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____SAS No.: _____ SDG No.: A1041ICP ID Number: JA61Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		Al	Ca	Fe	Mg	Ag
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium	267.70	.0018652		-.0011680	-3.0940000	0.0000000
Cobalt						
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	-.4786330
Iron						
Lead						
Magnesium						
Manganese						
Mercury						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Thallium						
Vanadium						
Zinc	213.85	.0009443	8.7485000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____
 Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A1041
 ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		As	Au	B	Ba	Be
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium	267.70	-6.3830600		0.0000000	0.0000000	0.0000000
Cobalt						
Copper	324.75	0.0000000		-14.5688000	0.0000000	0.0000000
Iron						
Lead						
Magnesium						
Manganese						
Mercury						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Thallium						
Vanadium						
Zinc	213.85	-1.3146900		0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____
 Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A1041
 ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		Cd	Co	Cr	Cu	K
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium	267.70	0.0000000	1.2502400	0.0000000	0.0000000	0.0000000
Cobalt						
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron						
Lead						
Magnesium						
Manganese						
Mercury						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Thallium						
Vanadium						
Zinc	213.85	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____
 Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A1041
 ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		Li	Mn	Mo	Na	Ni
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium	267.70		-.0417720	1.5194300	0.0000000	.4416338
Cobalt						
Copper	324.75		0.0000000	0.0000000	0.0000000	0.0000000
Iron						
Lead						
Magnesium						
Manganese						
Mercury						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Thallium						
Vanadium						
Zinc	213.85		0.0000000	0.0000000	0.0000000	0.0000000

Comments:

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____

SAS No.: _____ SDG No.: A1041

ICP ID Number: JA61

Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		Pb	Pd	Pt	Sb	Se
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium	267.70	-.1202820			7.7030790	0.0000000
Cobalt						
Copper	324.75	-3.6280800			0.0000000	.0519865
Iron						
Lead						
Magnesium						
Manganese						
Mercury						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Thallium						
Vanadium						
Zinc	213.85	0.0000000			-.6141440	.1325478

Comments:

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____
 Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A1041
 ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		Si	Sn	Ti	Tl	V
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium	267.70		.2208577	.9567213	4.5557730	1.2170310
Cobalt						
Copper	324.75		0.0000000	0.0000000	0.0000000	0.0000000
Iron						
Lead						
Magnesium						
Manganese						
Mercury						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Thallium						
Vanadium						
Zinc	213.85		0.0000000	0.0000000	0.0000000	0.0000000

Comments:

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____

SAS No.: _____ SDG No.: A1041

ICP ID Number: JA61

Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for :			
		Zn	Zr		
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Cadmium					
Calcium					
Chromium	267.70	0.0000000	-.0096980		
Cobalt					
Copper	324.75	-1.9375200	0.0000000		
Iron					
Lead					
Magnesium					
Manganese					
Mercury					
Nickel					
Potassium					
Selenium					
Silver					
Sodium					
Thallium					
Vanadium					
Zinc	213.85	0.0000000	0.0000000		

Comments:

U.S. EPA - CLP

12
ICP Linear Ranges (Quarterly)Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____SAS No.: _____ SDG No.: A1041ICP ID Number: JA61Date: 04/17/01

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum	6.00	500000.0	P
Antimony	6.00	10000.0	P
Arsenic	6.00	10000.0	P
Barium	6.00	10000.0	P
Beryllium	6.00	10000.0	P
Cadmium	6.00	10000.0	P
Calcium	6.00	200000.0	P
Chromium	6.00	200000.0	P
Cobalt	6.00	10000.0	P
Copper	6.00	100000.0	P
Iron	6.00	500000.0	P
Lead	6.00	500000.0	P
Magnesium	6.00	500000.0	P
Manganese	6.00	10000.0	P
Mercury			NR
Nickel	6.00	10000.0	P
Potassium	6.00	100000.0	P
Selenium	6.00	10000.0	P
Silver	6.00	10000.0	P
Sodium	6.00	500000.0	P
Thallium	6.00	100000.0	P
Vanadium	6.00	10000.0	P
Zinc	6.00	10000.0	P

Comments:

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: 1041A

SAS No.: _____

SDG No.: A1041

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
011041A-01	05/11/01	1.17	200
011041A-02	05/11/01	1.06	200
011041A-03	05/11/01	1.09	200
011041A-04	05/11/01	1.19	200
011041A-04D	05/11/01	1.25	200
011041A-04S	05/11/01	1.10	200
011041A-04SD	05/11/01	1.22	200
011041A-05	05/11/01	1.11	200
011041A-06	05/11/01	1.09	200
011041A-07	05/11/01	1.07	200
011041A-08	05/11/01	1.15	200
011041A-09	05/11/01	1.08	200
011041A-10	05/11/01	1.15	200
011041A-11	05/11/01	1.10	200
011041A-12	05/11/01	1.04	200
011041A-13	05/11/01	1.23	200
011041A-14	05/11/01	1.07	200
011041A-15	05/11/01	1.29	200
011041A-16	05/11/01	1.17	200
011041A-17	05/11/01	1.05	200
011041A-18	05/11/01	1.14	200
011041A-19	05/11/01	1.20	200
011041A-20	05/11/01	1.35	200
LCSS1	05/11/01	1.09	200
PBS1	05/11/01	1.06	200

U.S. EPA - CLP

13
PREPARATION LOGLab Name: STL

Contract: _____

Lab Code: STL Case No.: 1041ASAS No.: _____ SDG No.: A1041Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
011041A-01	05/10/01	.62	25
011041A-02	05/10/01	.57	25
011041A-03	05/10/01	.66	25
011041A-04	05/10/01	.64	25
011041A-04D	05/10/01	.69	25
011041A-04S	05/10/01	.74	25
011041A-04SD	05/10/01	.85	25
011041A-05	05/10/01	.60	25
011041A-06	05/10/01	.62	25
011041A-07	05/10/01	.57	25
011041A-08	05/10/01	.71	25
011041A-09	05/10/01	.65	25
011041A-10	05/10/01	.79	25
011041A-11	05/10/01	.57	25
011041A-12	05/10/01	.54	25
011041B-12	05/10/01	.93	25
011041B-13	05/10/01	.61	25
011041B-14	05/10/01	.81	25
011041B-15	05/10/01	.89	25
011041B-16	05/10/01	.84	25
011041B-17	05/10/01	.65	25
011041B-18	05/10/01	.84	25
011041B-19	05/10/01	.84	25
011041B-20	05/10/01	.95	25
011041C-01	05/10/01	.64	25
011041C-02	05/10/01	.83	25
011041C-03	05/10/01	.58	25
011041C-04	05/10/01	.62	25
011041C-05	05/10/01	.68	25
011041C-06	05/10/01	.87	25
011041C-07	05/10/01	.55	25
011041C-07D	05/10/01	.56	25
011041C-07S	05/10/01	.70	25

U.S. EPA - CLP
13
PREPARATION LOG

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: 1041A

SAS No.: _____ SDG No.: A1041

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
011041C-07SD	05/10/01	.66	25
011041C-08	05/10/01	.63	25
011041C-09	05/10/01	.54	25
011041C-10	05/10/01	.62	25
011041C-11	05/10/01	.61	25
011041C-12	05/10/01	.64	25
011041C-13	05/10/01	.63	25
011041C-14	05/10/01	.80	25
011041C-15	05/10/01	.78	25
011041C-16	05/10/01	.58	25
011041C-17	05/10/01	.69	25
011041C-18	05/10/01	.67	25
011041C-19	05/10/01	.71	25
011041C-19D	05/10/01	.65	25
011041C-19S	05/10/01	.65	25
011041C-19SD	05/10/01	.70	25
LCSS1	05/10/01	.35	25
LCSS2	05/10/01	.35	25
LCSS3	05/10/01	.35	25
PBS1	05/10/01	2.50	25
PBS2	05/10/01	2.50	25
PBS3	05/10/01	2.50	25

14
ANALYSIS RUN LOG

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____

SAS No.: _____ SDG No.: A1041

Instrument ID Number: JA61

Method: P

Start Date: 05/14/01

End Date: 05/14/01

EPA Sample No.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N		
S1	1.00	1424				X					X	X															X		
S7	1.00	1430				X					X	X															X		
S8	1.00	1436				X					X	X															X		
S4	1.00	1442				X					X	X															X		
S9	1.00	1445																											
S6	1.00	1449																											
S5	1.00	1453																											
S3	1.00	1457																											
ICV1	1.00	1457				X					X	X															X		
I	1.00	1503				X					X	X															X		
ZZZZZZ	1.00	1509																											
CRI1	1.00	1515				X					X	X															X		
ICSAI	1.00	1521				X					X	X															X		
ICSABI	1.00	1527				X					X	X															X		
CCV1	1.00	1533				X					X	X															X		
CCB1	1.00	1539				X					X	X															X		
ZZZZZZ	1.00	1546																											
ZZZZZZ	1.00	1552																											
ZZZZZZ	1.00	1558																											
ZZZZZZ	10.0	1604																											
ZZZZZZ	20.0	1610																											
PBS1	1.00	1616				X					X	X															X		
LCSS1	1.00	1622				X					X	X															X		
011041A-01	1.00	1628									X																X		
011041A-02	1.00	1634									X																X		
011041A-03	1.00	1640									X																X		
CCV2	1.00	1646				X					X	X															X		
CCB2	1.00	1652				X					X	X															X		
ZZZZZZ	1.00	1658																											
011041A-04	1.00	1704									X																X		
011041A-04D	1.00	1710									X																X		
011041A-04S	1.00	1716									X																X		
011041A-04A	1.00	1723																											

14
ANALYSIS RUN LOG

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____

SAS No.: _____ SDG No.: A1041

Instrument ID Number: JA61

Method: P

Start Date: 05/14/01

End Date: 05/14/01

EPA Sample No.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N		
011041A-04L	5.00	1729									X																X		
011041A-05	1.00	1735									X																X		
011041A-06	1.00	1741									X																X		
011041A-07	1.00	1747									X																X		
011041A-08	1.00	1753									X																X		
CCV3	1.00	1759			X						X	X														X			
CCB3	1.00	1805			X						X	X														X			
011041A-09	1.00	1811									X															X			
011041A-10	1.00	1817									X															X			
011041A-11	1.00	1823									X															X			
011041A-12	1.00	1829									X															X			
011041A-13	1.00	1835			X							X																	
011041A-14	1.00	1841			X							X																	
011041A-15	1.00	1847																								X			
011041A-16	1.00	1853																								X			
011041A-17	1.00	1859																								X			
011041A-18	1.00	1905																								X			
CCV4	1.00	1911			X						X	X														X			
CCB4	1.00	1917			X						X	X														X			
011041A-19	1.00	1924																								X			
011041A-20	1.00	1930																								X			
ZZZZZZ	1.00	1936																											
ZZZZZZ	1.00	1942																											
ZZZZZZ	1.00	1948																											
ZZZZZZ	1.00	1954																											
ZZZZZZ	1.00	2000																											
CRI2	1.00	2006			X						X	X														X			
ICSAF	1.00	2012			X						X	X														X			
ICSABF	1.00	2018			X						X	X														X			
CCV5	1.00	2024			X						X	X														X			
CCB5	1.00	2030			X						X	X														X			

14
ANALYSIS RUN LOG

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____

SAS No.: _____ SDG No.: A1041

Instrument ID Number: HG4

Method: CV

Start Date: 05/10/01

End Date: 05/10/01

EPA Sample No.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N		
S0	1.00	1429																									X		
S0	1.00	1431																									X		
S1	1.00	1432																									X		
S2	1.00	1434																									X		
S5	1.00	1436																									X		
S1	1.00	1438																									X		
ICV1	1.00	1441																									X		
ICV1	1.00	1441																									X		
ICV1	1.00	1443																									X		
I	1.00	1443																									X		
CCV1	1.00	1444																									X		
CCV5	1.00	1444																									X		
CCB1	1.00	1446																									X		
CCB7	1.00	1446																									X		
PBS1	1.00	1448																									X		
LCSS1	10.0	1450																									X		
ZZZZZZ	1.00	1451																											
011041A-02	1.00	1456																									X		
011041A-03	1.00	1457																									X		
011041A-04	1.00	1459																									X		
011041A-04D	1.00	1501																									X		
011041A-04S	1.00	1502																									X		
011041A-04SD	1.00	1504																											
CCV2	1.00	1506																									X		
CCV6	1.00	1506																									X		
CCB2	1.00	1508																									X		
CCB8	1.00	1508																									X		
011041A-06	1.00	1512																									X		
011041A-07	1.00	1513																									X		
011041A-08	1.00	1515																									X		
011041A-09	1.00	1517																									X		
011041A-10	1.00	1519																									X		
011041A-11	1.00	1521																									X		

14
ANALYSIS RUN LOG

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____

SAS No.: _____ SDG No.: A1041

Instrument ID Number: HG4

Method: CV

Start Date: 05/10/01

End Date: 05/10/01

EPA Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N				
011041A-12	1.00	1523															X														
011041B-12	1.00	1525																													
011041B-13	1.00	1527																													
CCV3	1.00	1528																X													
CCV7	1.00	1528																X													
CCB3	1.00	1531																X													
CCB9	1.00	1531																X													
011041B-14	1.00	1532																													
011041B-15	1.00	1534																													
011041B-16	1.00	1536																													
011041B-17	1.00	1537																													
011041B-18	1.00	1539																													
ZZZZZZ	1.00	1541																													
ZZZZZZ	10.0	1547																													
011041B-19	1.00	1549																													
011041C-01	1.00	1551																													
011041C-02	1.00	1552																													
CCV4	1.00	1554																X													
CCV8	1.00	1554																X													
CCB10	1.00	1556																X													
CCB4	1.00	1556																X													
011041C-03	1.00	1558																													
011041C-05	1.00	1602																													
011041C-06	1.00	1604																													
011041C-07	1.00	1606																													
011041C-07D	1.00	1608																													
011041C-07S	1.00	1613																													
011041C-07SD	1.00	1615																													
011041C-08	1.00	1617																													
011041C-09	1.00	1619																													
5	1.00	1621																X													
	1.00	1621																X													
1	1.00	1624																X													

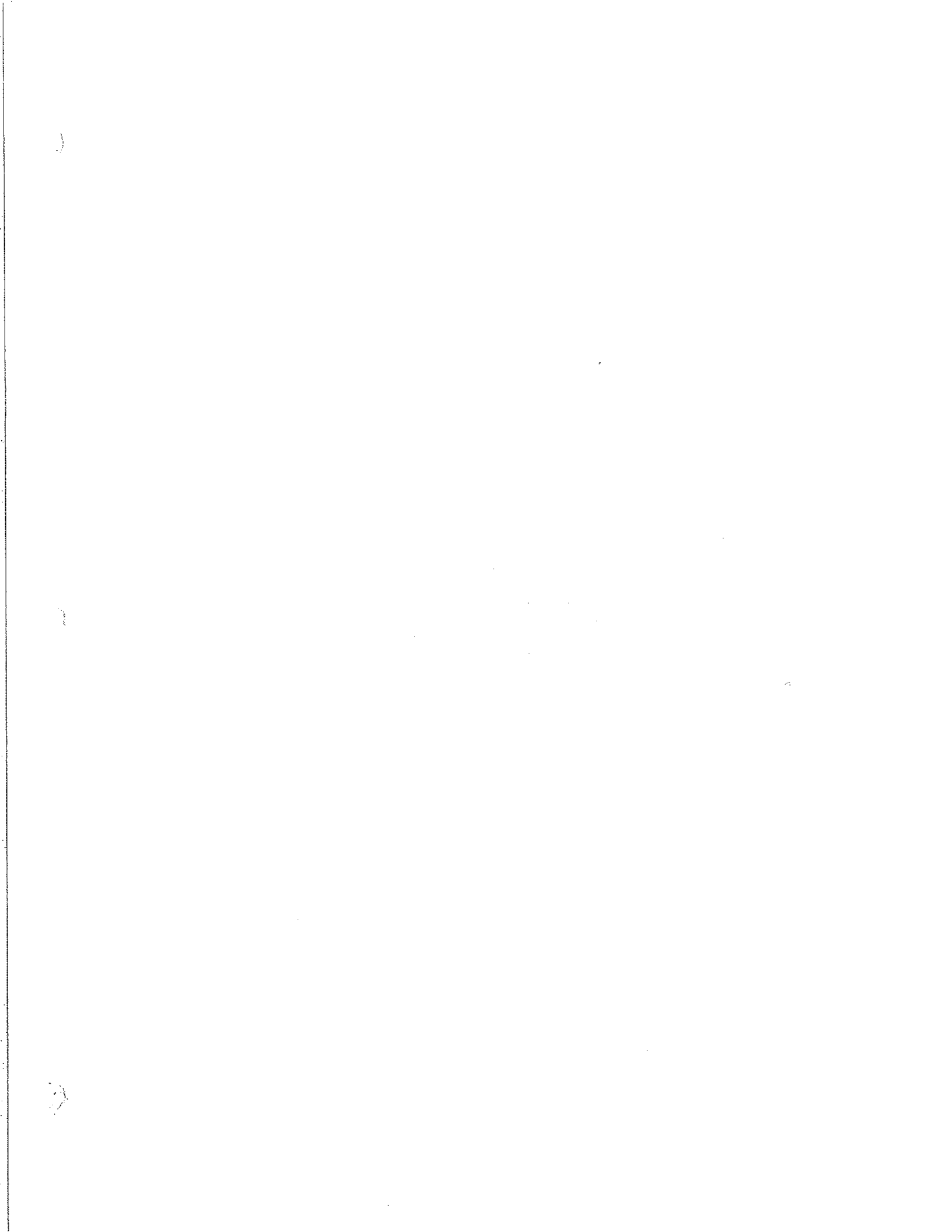
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14
ANALYSIS RUN LOGLab Name: STL

Contract: _____

Lab Code: STL Case No.: _____SAS No.: _____ SDG No.: A1041Instrument ID Number: HG4Method: CVStart Date: 05/10/01End Date: 05/10/01

EPA Sample No.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N
CCB5	1.00	1624															X										
011041C-10	1.00	1625																									
011041C-11	1.00	1627																									
011041C-12	1.00	1629																									
011041C-13	1.00	1631																									
011041C-14	1.00	1633																									
011041C-15	1.00	1635																									
011041C-16	1.00	1637																									
011041C-17	1.00	1638																									
011041C-18	1.00	1641																									
011041C-19	1.00	1642																									
CCV10	1.00	1644																X									
CCV6	1.00	1644																X									
CCB12	1.00	1646																X									
CCB6	1.00	1646																X									
011041C-19D	1.00	1648																									
011041C-19S	1.00	1650																									
011041C-19SD	1.00	1652																									
011041B-20	1.00	1655																									
ZZZZZZ	1.00	1656																									
ZZZZZZ	1.00	1658																									
ZZZZZZ	10.0	1700																									
CCV11	1.00	1702																X									
CCV7	1.00	1702																X									
CCB13	1.00	1704																X									
CCB7	1.00	1704																X									
CCB7	1.00	1704																X									
011041A-01	10.0	1715																X									
011041A-05	10.0	1717																X									
011041C-04	10.0	1719																X									
CCV8	1.00	1721																X									
CCB8	1.00	1724																X									



Appendix F

Chain of Custody and Laboratory
Data Package for July 2001 Soil
Sampling Round

Project Number/Name Ny001777-0017-00001

Project Location LAKE SUCCESS NY

Laboratory SEVERO-TRENT SHELTON

Project Manager BILL HOLUBOWSKI

Sampler(s)/Affiliation E. WILLIAMS

ANALYSIS / METHOD / SIZE
<u>802 TAP H5Se 6010</u>
<u>802 TAP H5Se 6010</u>
<u>802 TAP H5Se 6010</u>
<u>802 TAP AS G H5Se 6010</u>
<u>802 TAP AS G H5Se 6010</u>

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Remarks	Total
<u>802 F ✓</u>	<u>S</u>	<u>7-12-01</u>	<u>1</u>		<u>1</u>
<u>802 G ✓</u>			<u>1</u>		<u>1</u>
<u>802 H ✓</u>			<u>1</u>		<u>1</u>
<u>802 I ✓</u>			<u>1</u>		<u>1</u>
<u>802 J ✓</u>			<u>1</u>		<u>1</u>

Sample Matrix: L = Liquid; S = Solid; A = Air Total No. of Bottles/Containers 5

Relinquished by: <u>[Signature]</u>	Organization: <u>ARCADIS GTR</u>	Date: <u>7/13/01</u>	Time: _____	Seal Intact? Yes No N/A
Received by: <u>[Signature]</u>	Organization: <u>STL-CT</u>	Date: <u>7/13/01</u>	Time: <u>14:45</u>	Yes No N/A
Relinquished by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Seal Intact? Yes No N/A
Received by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Yes No N/A

Special Instructions/Remarks: REPORT TO BILL HOLUBOWSKI
REPORTS MUST BE AT CLOSURE PERFORMANCE STANDARDS!!!

Delivery Method: In Person Common Carrier Lab Courier Other _____

Project Number/Name NY 001227-0017.0001
 Project Location LAKE SUCCUSS N.Y.
 Laboratory CADREX TRAIT SHAW
 Project Manager BELL HOLUBOWICZ
 Sampler(s)/Affiliation G. WELLS

ANALYSIS / METHOD / SIZE	
<u>BCP TRAC</u>	<u>Zn (6010)</u>
<u>EDDMI PLASTER</u>	<u>Zn (6010) (N1102)</u>

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Remarks	Total
<u>26A-F ✓</u>	<u>RS</u>	<u>7-16-01</u>	<u>1</u>		<u>1</u>
<u>26A-F ✓</u>			<u>1</u>		<u>1</u>
<u>26A-E ✓</u>			<u>1</u>		<u>1</u>
<u>26A-H ✓</u>			<u>1</u>		<u>1</u>
<u>26A-I ✓</u>			<u>1</u>		<u>1</u>
<u>26A-J ✓</u>			<u>1</u>		<u>1</u>
<u>RES-3</u>	<u>L</u>		<u>1</u>		<u>1</u>
<u>FB0 7-16-01</u>	<u>L</u>	<u>7-16-01</u>	<u>1</u>		<u>1</u>
<hr/>					
<u>NY 001227.0012.0000</u>	<u>1</u>	<u>LMC-TRM</u>			
<u>SJE Rowoff</u>	<u>L</u>	<u>7-16-01</u>			
<u>TB 7-16-01</u>	<u>L</u>	<u>"</u>			
<u>PLEASE REPORT THESE TWO SAMPLES TO CHRISTINA BERARJE - TUNNY</u>					

Sample Matrix: L = Liquid; S = Solid; A = Air Total No. of Bottles/Containers 8/2

Relinquished by: <u>[Signature]</u>	Organization: <u>ARCADIS</u>	Date: <u>7/16/01</u>	Time: <u>5:45</u>	Seal Intact? <u>Yes</u>
Received by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Yes No N/A
Relinquished by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Seal Intact? _____
Received by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Yes No N/A

Special Instructions/Remarks: REPORT TO BELL HOLUBOWICZ RESULTS TO CLOSED PERFORMANCE SOPS!!!
* USE THIS SAMPLE FOR AN MS/MSD QA/QC SAMPLE

Delivery Method: In Person Common Carrier FD Lab Courier Other _____

Project Number/Name N460127-0017 0000Z

Project Location LAKE SUCCESS NY

Laboratory SEVERN-TROUT SKIPPON

Project Manager BILL HOLUBOWICH

Sampler(s)/Affiliation G. WILLIAMS

ANALYSIS / METHOD / SIZE

*802 JAM
ZM ONLY*

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Remarks	Total
<u>Z6A-H ✓</u>	<u>S</u>	<u>7-16-01</u>	<u>1</u>		<u>1</u>

Sample Matrix: L = Liquid; S = Solid; A = Air Total No. of Bottles/Containers 1

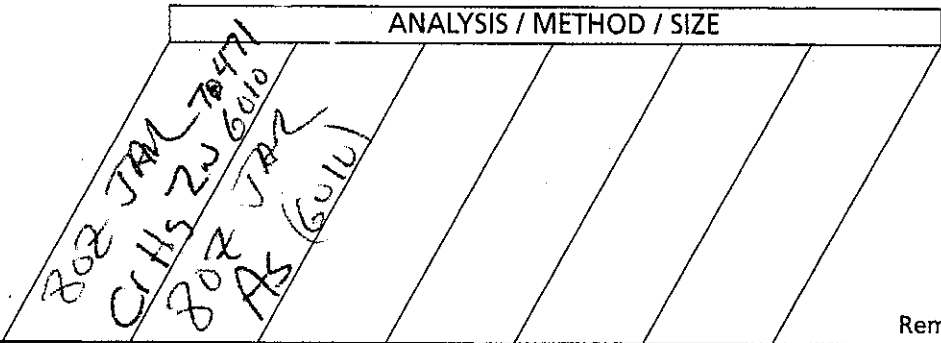
Relinquished by: G. Williams Organization: ARCADIS 6+M Date: 7/16/01 Time: 3:00 Seal Intact? Yes
 Received by: _____ Organization: _____ Date: 1 1 Time: _____ Yes No N/A

Relinquished by: _____ Organization: _____ Date: 1 1 Time: _____ Seal Intact? Yes
 Received by: _____ Organization: _____ Date: 1 1 Time: _____ Yes No N/A

Special Instructions/Remarks:
REPORT TO BILL HOLUBOWICH
PARAMETERS TO REFLECT CLOSURE PERFORMANCE STANDARDS

Delivery Method: In Person Common Carrier FED-EX Lab Courier Other _____

Project Number/Name Ny 001277.001700001
 Project Location LAKE SUCCESS NY
 Laboratory SEAWAY TRUST SHEPARD
 Project Manager BELL HOLLUBOWYCH
 Sampler(s)/Affiliation G. WILSON



Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Remarks	Total
15 D	S	7-12-01	1		1
15 E			1		1
15 F			1		1
15 G			1		1
15 H			1		1
15 I			1		1
26 E			1		1
26 F			1		1

Sample Matrix: L = Liquid; S = Solid; A = Air Total No. of Bottles/Containers 08

Relinquished by: <u>Dy HW</u>	Organization: <u>ARCADIS CTM</u>	Date: <u>7/13/01</u>	Time: _____	Seal Intact?
Received by: <u>[Signature]</u>	Organization: <u>STL-CT</u>	Date: <u>7/13/01</u>	Time: <u>14:45</u>	Yes No N/A
Relinquished by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Seal Intact?
Received by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Yes No N/A

Special Instructions/Remarks: REPORT TO BELL HOLLUBOWYCH
REPORTS MUST BE TO CLOSURE PERFORMANCE STANDARDS!!!

Delivery Method: In Person Common Carrier Lab Courier Other _____



Project Number/Name M 001227.0017.00001

Project Location LAKE SUCCESS NY.

Laboratory SEVERN-TRENT SHALTON

Project Manager BILL HOLUBOWITZ

Sampler(s)/Affiliation G. WILLIAMS

ANALYSIS / METHOD / SIZE
 20Z TAP VOC 8210/801
 80Z TAP 8010/801
 500ml 100ml RB (6010)
 80Z TAP 8020/801
 CU ZN (6010)
 40ml JETA VOC 8240/801
 1L AMIBAK
 500ml PLASTIC RB (8010)
 AP METALS
 6010

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Remarks	Total
21G 21G (0-1)	S	6-12-01			1
21G (4-5)					1
21G (9-10)					1
21G (21.5)			2*	2*	4
21G (26.5)			1	1	2
REP-1			1	1	2
21H (0-1)				1	1
21H (4-5)				1	1
21H (9-10)				1	1
21I (0-1)				1	1
21I (4-5)				1	1
21I (9-10)				1	1
FB 7-12-01	L			2 4 1	7
TB 7-12-01	L			\$2	2

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 26

Relinquished by: <u>[Signature]</u>	Organization: <u>ARCADIS G+M</u>	Date: <u>7/13/01</u>	Time: <u>12:00</u>	Seal Intact? <u>Yes</u>
Received by: <u>[Signature]</u>	Organization: <u>SUCT</u>	Date: <u>7/13/01</u>	Time: <u>14:45</u>	Seal Intact? <u>Yes</u>
Relinquished by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Seal Intact? <u>Yes</u>
Received by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Seal Intact? <u>Yes</u>

Special Instructions/Remarks: * PLEASE USE THIS SAMPLE FOR ALL MS/MSP QA/QC SAMPLE
REPORT TO BILL HOLUBOWITZ [RESULTS MUST BE AT CLOSURE PERFORMANCE STANDARDS!]

Delivery Method: In Person Common Carrier Lab Courier Other _____

Project Number/Name NY001227.0017.00001

Project Location LAKE SUCCESS NY

Laboratory SEVERN TRINITY SHELTON

Project Manager BILL HOLUBOWICZ

Sampler(s)/Affiliation G (USL) [Signature]

BOR JTRR 6010
 ASG/HSS/Se 2011

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE	Remarks	Total
19K ✓	S	7-12-01				1
19L ✓						1
19M ✓						1
19N ✓						1
19O ✓						1
19P ✓✓				*		1
19Q ✓						1
19R ✓						1
19S ✓						1
19T ✓						1
19U ✓						1
19V ✓						1
19W ✓						1
REP-2						1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 14

Relinquished by: <u>[Signature]</u>	Organization: <u>ARCADIS GTM</u>	Date: <u>7/13/01</u>	Time: <u>12:00</u>	Seal Intact?
Received by: <u>[Signature]</u>	Organization: <u>SPECT</u>	Date: <u>7/13/01</u>	Time: <u>14:45</u>	Yes No N/A
Relinquished by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Seal Intact?
Received by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Yes No N/A

Special Instructions/Remarks: REPORT TO BILL HOLUBOWICZ * PLEASE USE THIS SAMPLE FOR A MS/ASD/DACC
RESULTS MUST BE AT CLOSURE PERFORMANCE STANDARDS!!!

Delivery Method: In Person Common Carrier Lab Courier Other _____

**SEVERN
TRENT
SERVICES**

August 13, 2001

Mr. Bill Holubowich
ARCADIS/GERAGHTY & MILLER
88 Duryea Road
Melville, NY 11747

STL Connecticut
128 Long Hill Cross Road
Shelton, CT 06484

Tel: 203 929 8140
Fax: 203 929 8142
www.stl-inc.com

Dear Mr. Holubowich :

Please find enclosed the analytical results of 11 sample(s) received at our laboratory on July 13-20, 2001. This report contains sections addressing the following information at a minimum:

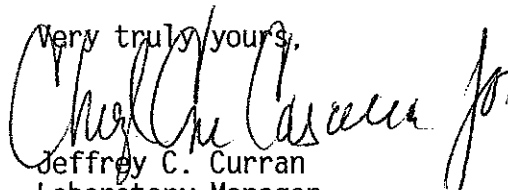
- . sample summary
- . analytical methodology
- . state certifications
- . definition of data qualifiers and terminology
- . analytical results
- . chain-of-custody

STL Report #7001-1820C	Purchase Order #NY001227.0017.00001
Project ID: LOCKHEED MARTIN RCRA SOIL	

Copies of this analytical report and supporting data are maintained in our files for a minimum of five years unless special arrangements have been made. Unless specifically indicated, all analytical testing was performed at this laboratory location and no portion of the testing was subcontracted.

We appreciate your selection of our services and welcome any questions or suggestions you may have relative to this report. Please contact your customer service representative at (203) 929-8140 for any additional information. Thank you for utilizing our services; we hope you will consider us for your future analytical needs.

I have reviewed and approved the enclosed data for final release.

Very truly yours,

Jeffrey C. Curran
Laboratory Manager

JCC

This report contains 70 pages.

7001-1820C
ARCADIS GERAGHTY & MILLER

Case Narrative

Sample Receipt – The samples collected on 07/16/01 were received at 10 degrees C. The client was notified, and the laboratory was instructed to proceed with the analysis.

Metals – ICAP metals were determined using a JA61E trace ICAP following guidance provided in SW846 according to methods 3010A, 3050B/6010B.

No problems occurred during analysis. All appropriate protocols were employed. All data appears to be consistent.

TABLE AS-1.0

0002

Aqueous

7001-1820C

ARCADIS/GERAGHTY & MILLER
MISCELLANEOUS ATOMIC SPECTROSCOPY

All values are ug/L.

Client Sample I.D.	FB071601			
Lab Sample I.D.	011820C-08			
Arsenic	NR			
Chromium	NR			
Selenium	NR			
Zinc	35.5			

See Appendix for qualifier definitions

TABLE AS-1.1
 7001-1820C
 ARCADIS/GERAGHTY & MILLER
 MISCELLANEOUS ATOMIC SPECTROSCOPY

All values are mg/Kg dry weight basis.

Client Sample I.D.	8J	26A-E	26A-F	26A-G
Lab Sample I.D.	011820C-01	011820C-02	011820C-03	011820C-04
Arsenic	6.5	NR	NR	NR
Chromium	19.3	NR	NR	NR
Selenium	1.0B _J	NR	NR	NR
Zinc	43.4	250.	128.	193.

See Appendix for qualifier definitions

TABLE AS-1.2

Soil

7001-1820C

ARCADIS/GERAGHTY & MILLER
MISCELLANEOUS ATOMIC SPECTROSCOPY

All values are mg/Kg dry weight basis.

Client Sample I.D.	26A-I	26A-I D	26A-I S	26A-J
Lab Sample I.D.	011820C-05	011820C-05D	011820C-05S	011820C-06
Arsenic	NR	NR	NR	NR
Chromium	NR	NR	NR	NR
Selenium	NR	NR	NR	NR
Zinc	114.	116.	195.	102.

See Appendix for qualifier definitions

TABLE AS-1.3
7001-1820C
ARCADIS/GERAGHTY & MILLER
MISCELLANEOUS ATOMIC SPECTROSCOPY

Soil

All values are mg/Kg dry weight basis.

Client Sample I.D.	REP-3	26A-H		
Lab Sample I.D.	011820C-07	011820C-09		
Arsenic	NR	NR		
Chromium	NR	NR		
Selenium	NR	NR		
Zinc	272.5	141.5		

See Appendix for qualifier definitions

AP
8/15/01

INORGANICS APPENDIX**C – Concentration qualifiers**

U – Indicates analyte was not detected at method reporting limit.

B- Indicates analyte result between IDL and contract required detection limit (CRDL)

Q – QC qualifiers

E – Reported value is estimated because of the presence of interference

M – Duplicate injection precision not met

N – Spiked sample recovery not within control limits

S – The reported value was determined by the method of standard additions (MSA)

W – Post-digest spike recovery furnace analysis was out of 85-115 percent control limit, while sample absorbance was less than 50 percent of spike absorbance

* - Duplicate analysis not within control limit

+ - Correlation coefficient for MSA is less than 0.995

M – Method codes

P – ICP

A – Flame AA

F – Furnace AA

CV – Cold vapor AA (manual)

C – Cyanide

NR – Not required

NC – Not calculated as per protocols

STATE CERTIFICATIONS

In some instances it may be necessary for environmental data to be reported to a regulatory authority with reference to a certified laboratory. For your convenience, the laboratory identification numbers for the STL-Connecticut laboratory are provided in the following table. Many states certify laboratories for specific parameters or tests within a category (i.e. method 325.2 for wastewater). The information in the following table indicates the lab is certified in a general category of testing such as drinking water or wastewater analysis. The laboratory should be contacted directly if parameter-specific certification information is required.

**STL-Connecticut
Certification Summary (as of February 2001)**

State	Responsible Agency	Certification	Lab Number
Connecticut	Department of Health Services	Drinking Water, Wastewater	PH-0497
Maine	Department of Health and Environmental Services	Drinking Water, Wastewater/Solid, Hazardous Waste	CT023
Massachusetts	Department of Environmental Protection	Potable/Non-Potable Water	CT023
New Hampshire	Department of Environmental Services	Drinking Water, Wastewater	2528
New Jersey	Department of Environmental Protection	Drinking Water, Wastewater	46410
New York	Department of Health	CLP, Drinking Water, Wastewater, Solid/ Hazardous Waste NELAC	10602
North Carolina	Division of Environmental Management	Wastewater	388
Rhode Island	Department of Health	Chemistry...Non- Potable Water and Wastewater	A43
Utah	Department of Health	RCRA	2032614458
Washington	Department of Ecology	Wastewater/Hazardous Waste	C231
Wisconsin	Department of Natural Resources	Wastewater	998355710

~~7001-1820C~~
ARCADIS/GERAGHTY & MILLER
SAMPLE SUMMARY

CLIENT ID	LAB ID	MATRIX	DATE COLLECTED	DATE RECEIVED
8J	011820C-01	SOIL	07/12/01	07/13/01
26A-E	011820C-02	SOIL	07/16/01	07/17/01
26A-F	011820C-03	SOIL	07/16/01	07/17/01
26A-G	011820C-04	SOIL	07/16/01	07/17/01
26A-I	011820C-05	SOIL	07/16/01	07/17/01
26A-I	011820C-05D	SOIL	07/16/01	07/17/01
26A-I	011820C-05S	SOIL	07/16/01	07/17/01
26A-J	011820C-06	SOIL	07/16/01	07/17/01
REP-3	011820C-07	SOIL	07/16/01	07/17/01
FB071601	011820C-08	WATER	07/16/01	07/17/01
26A-H	011820C-09	SOIL	07/16/01	07/20/01

STL CT ANALYTICAL SUMMARY

Page:1

Client ID: 26A-E, 26A-F, 26A-G, 26A-H, 26A-I, 26A-J, 8J, FB071601, REP-3
Job Number: 7001-1820C

Date: 8/14/101

Qty	Matrix	Analysis	Description
1	None	DISK	Diskette Prep.
1	None	DISK-2	Diskette Prep.
1	SOIL	AS-NSW846	Arsenic
1	SOIL	CR-NSW846	Chromium
1	SOIL	MET-PREP-ICAP	Metals ICAP Prep
1	SOIL	SE-NSW846	Selenium
10	SOIL	ZN-NSW846	Zinc
1	WATER	MET-PREP-ICAP	Metals ICAP Prep
1	WATER	ZN-NSW846	Zinc

Project Number/Name Ny 001777-0017-00001

Project Location LAKE SUCCESS NY

Laboratory SEWER-TREAT SHEDD

Project Manager BILL HOLUBOWSKIE

Sampler(s)/Affiliation G. WILLIAMS

ANALYSIS / METHOD / SIZE
802 TAN 6010
H5 Se 1471
802 TAN 6010
ASG H5 Se 2W
802 TAN 6010
ASG H5 Se 2W

05°C

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Remarks	Total
8 F	S	7-12-01	-		1
8 G			-		1
8 H			-		1
8 I			-		1
8 J			01		1

"PASSED RAD SCREEN"

Sample Matrix: L = Liquid; S = Solid; A = Air Total No. of Bottles/Containers 5

Relinquished by: <u>[Signature]</u>	Organization: <u>ARCADIS GYM</u>	Date: <u>7/13/01</u>	Time: _____	Seal Intact?
Received by: <u>[Signature]</u>	Organization: <u>STL-CT</u>	Date: <u>7/13/01</u>	Time: <u>14:45</u>	Yes No N/A
Relinquished by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Seal Intact?
Received by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Yes No N/A

Special Instructions/Remarks: REPORT TO BILL HOLUBOWSKIE
REPORTS MUST BE AT CLOSURE PERFORMANCE STANDARDS!!!

Delivery Method: In Person Common Carrier Lab Courier Other

Project Number/Name NY 001227.0017.0001
 Project Location LAKE SUCCESS NY
 Laboratory SEWER TREAT STATION
 Project Manager BILL HOWBOWICK
 Sampler(s)/Affiliation G. WILSON

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE	Remarks	Total
26A-E	S	7-16-01	1	802 JAM ZN (6010) DOMI, LASSA ZN (6010) (Krus)	10°C "PASSED RAD SCREEN"	1
26A-F	L		1			1
26A-G	L		1			1
26A-H	L		1			1
26A-I*	L		1			1
26A-J*	L		1			1
REF-3	L		1			1
FBO 7-16-01	L		1			1
<hr/> NY 001227.0012.0000 LMC-IRM						
SJE Rwoff	L	7-16-01				1
TB 7-16-01	L	"				1
PLEASE REPORT THESE TWO SAMPLES TO CHRISTINA BERARDE - TUNNY						

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 8/2

Relinquished by: <u>[Signature]</u>	Organization: <u>ARCADIS</u>	Date: <u>7/16/01</u>	Time: <u>5:45</u>	Seal Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Received by: <u>Alex C. Youmans</u>	Organization: <u>S-T-L CT</u>	Date: <u>07/17/01</u>	Time: <u>09:25</u>	
Relinquished by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Seal Intact? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Received by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	

Special Instructions/Remarks: REPORT TO BILL HOWBOWICK RESULTS TO CLOSURE PERFORMANCE STDS!!!
DO NOT USE THIS SAMPLE FOR ANY MS/MSA QA/QC SAMPLE

Delivery Method: In Person Common Carrier FED EX Lab Courier Other _____

SAMPLE RECEIPT CHECKLISTSTL CT Job No. 7001-1820CDate Received: 7/13/01Client: G & MillerProject: N4001227-0017-00001**A. Preliminary Examination**Cooler opened by: DeRoy RobinsonSignature: DR1. Did cooler(s) come with a shipping airbill?..... Yes No N/AName of courier and/or airbill no. Client2. Were custody seals on outside of cooler(s)?..... Yes No N/A3. Were custody seals tamper evident?..... Yes No N/A

Seal Date _____

4. Were custody seals intact upon arrival to lab?..... Yes No N/A5. Were samples screened for radioactivity and COC stamped?..... Yes No N/A6. Were COCs included, filled out properly in ink, and signed in the field?... Yes No N/A7. Were COCs signed and dated properly upon lab receipt?..... Yes No N/A8. If required, did cooler(s) show evidence of cooling?..... Yes No N/AType of coolant used Loose ice Bagged ice Ice packs Other: _____Temperature of cooler(s) on receipt: 05°CSource of temperature reading (check one) Temp blank Sample9. If necessary, was the lab notified of any short holding times?..... Yes No N/A10. Initial and date this form to acknowledge receipt of cooler(s): (Initials) DR (Date) 7/13/01**B. Log-in** Date of login: 7/13/01Logged in by: DeRoy Robinson Signature: DR10. Describe type of packing in cooler(s): Bubble wrap Vermiculite Other _____12. Did all bottles arrive intact with legible labels in good condition?..... Yes No N/A13. Was all required bottle label information complete?..... Yes No N/A14. Did all bottle labels agree with COCs?..... Yes No N/A15. Were samples checked for residual chlorine and correct preservatives? Yes No N/AWas Preservative Log filled out Yes No N/A16. Was enough volume submitted for the indicated tests?..... Yes No N/A17. Were bubbles present in any VOA vials?..... Yes No N/A

If yes, list by sample number _____

18. If necessary, has CAR been issued to QA manager?..... Yes No N/A

SAMPLE RECEIPT CHECKLISTSTL CT Job No. 2001-1820CDate Received: 07-20-01Client: G+M

Project: _____

A. Preliminary ExaminationCooler opened by: Alex C. Yaworowski Signature: _____1. Did cooler(s) come with a shipping airbill?..... Yes No N/AName of courier and/or airbill no. F.E. 8184 8157 94952. Were custody seals on outside of cooler(s)?..... Yes No N/A3. Were custody seals tamper evident?..... Yes No N/A

Seal Date _____

4. Were custody seals intact upon arrival to lab?..... Yes No N/A5. Were samples screened for radioactivity and COC stamped?..... Yes No N/A6. Were COCs included, filled out properly in ink, and signed in the field?... Yes No N/A7. Were COCs signed and dated properly upon lab receipt?..... Yes No N/A8. If required, did cooler(s) show evidence of cooling?..... Yes No N/AType of coolant used: Loose ice Bagged ice Ice packs Other: _____Temperature of cooler(s) on receipt: 05°CSource of temperature reading (check one) Temp blank Sample 9. If necessary, was the lab notified of any short holding times?..... Yes No N/A10. Initial and date this form to acknowledge receipt of cooler(s): (initials) A.Y. (Date) 07-20-01**B. Log-in** Date of login: 07-20-01Logged in by: Alex Yaworowski Signature: Alex C. Yaworowski10. Describe type of packing in cooler(s): Bubble wrap Vermiculite Other _____12. Did all bottles arrive intact with legible labels in good condition?..... Yes No N/A13. Was all required bottle label information complete?..... Yes No N/A14. Did all bottle labels agree with COCs?..... Yes No N/A15. Were samples checked for residual chlorine and correct preservatives? Yes No N/A

Was Preservative Log filled out

A.Y.
07-20-01Yes No N/A16. Was enough volume submitted for the indicated tests?..... Yes No N/A17. Were bubbles present in any VOA vials?..... Yes No N/A

If yes, list by sample number _____

18. If necessary, has CAR been issued to QA manager?..... Yes No N/A

Number 1820C Sample Numbers 01-07, 09

WATER - (SOIL) - SLUDGE - EPTOX/TCLP

I confirm that I have performed the preparation below following SOP guidelines and authorize the release of this preparation:

Sample Prep	_____	_____	
	<i>Arthur Wilczak</i>	<i>7/24/01</i>	ICP/FLME
	_____	_____	FURN
	_____	_____	MERCURY
	Chemist	Date(s)	

I confirm that I have performed the analysis below following SOP guidelines and authorize the release of all associated data:

Analysis	_____	_____	
	<i>Water Returned</i>	<i>8/1/01</i>	ICP
	_____	_____	FLAME
	_____	_____	FURN
	_____	_____	MERCURY
	Chemist	Date(s)	

I have reviewed and authorize the release of this job:

Complete	_____	_____
	<i>[Signature]</i> Supervisor	<i>8/10/01</i> Date

Batch Assignment _____

Other Laboratory Locations:

- 149 Rangeway Road, North Atlanta GA 30102
- 16793 Park Road, Suite 210, Houston TX 77058
- 170 Southwester Court, Suite 300, Memphis TN 38160
- 315 Fulton Avenue, Northing NJ 07950
- 11 East Olive Road, Pensacola FL 32514
- 10182 Lakeside Park, 52 Southampton Road, Memphis TN 38165

Number 1820C Sample Numbers 08

WATER - SOIL - SLUDGE - EPTOX/TCLP

I confirm that I have performed the preparation below following SOP guidelines and authorize the release of this preparation:

Sample Prep	<u>Kathie Wilcock</u>	<u>7/19/01</u>	ICP/FLME
			FURN
			MERCURY
	Chemist	Date(s)	

I confirm that I have performed the analysis below following SOP guidelines and authorize the release of all associated data:

Analysis	<u>2006.1</u>	<u>7/23/01</u>	ICP
			FLAME
			FURN
			MERCURY
	Chemist	Date(s)	

I have reviewed and authorize the release of this job:

Complete	<u>2006.1</u>	<u>8/10/01</u>
	Supervisor	Date

Batch Assignment _____

Other Laboratory Locations:

- 149 Ringway Road, North Andover MA 01867
- 16703 Park Road, Suite 110, Houston TX 77054
- 170 Southpark Court, Suite 300, Charlotte NC 27560
- 315 Fullerton Avenue, Haverhill MA 01830
- 11101 Olive Road, Pompano Beach FL 33064
- 10000 Lakeside Park, NJ Southpark Road, Charlotte NC 27560

a part of
Southpark Services Inc

STL/CT PRESERVATIVE RECORD

Job Number: 7001-1820C
 Client: G+M
 Client Project: NY001227.0017.0000

Lab Number	Preservative	pH	Adjustment	Chlorine Residual	Initials	Date
08	HNO ₃	< 2			A.Y.	07-17-01
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> <p>A.Y. 07-17-01</p> </div>						

IEA / CT
LABORATORY CHRONICLE

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSIS

JOB #: 7001-1820C

SAMPLE ID	MATRIX	LIST REQUESTED	DATE RECEIVED	DATE DIGESTED	DATE ANALYZED
8J	SOIL	AS-NSW846	07/13/01	7/24/01	8/1/01
8J	SOIL	CR-NSW846	07/13/01		
8J	SOIL	SE-NSW846	07/13/01		
8J	SOIL	ZN-NSW846	07/13/01		
26A-E	SOIL	ZN-NSW846	07/17/01		
26A-F	SOIL	ZN-NSW846	07/17/01		
26A-G	SOIL	ZN-NSW846	07/17/01		
26A-I	SOIL	ZN-NSW846	07/17/01		
26A-J	SOIL	ZN-NSW846	07/17/01		
REP-3	SOIL	ZN-NSW846	07/17/01		
FB071601	WATER	ZN-NSW846	07/17/01	7/19/01	7/23/01
26A-H	SOIL	ZN-NSW846	07/20/01	7/24/01	8/1/01

Section Supervisor (signature) 2-ND

QC Supervisor (signature) _____

Review & Approval (printed name) O. W. L.

Review & Approval (printed name) _____

(Date) 8/10/01(Date) / /

Severn Treatment - Connecticut
Internal Chain-of-Custody

Client: G & Miller

STL Job #: 7001-1820C

Trip Blank: —

Date Received: 7/13/01

QC: —

Sample #s: 01

Project #: N4001227-0017-00001

Locations: B7

Laboratory Sample #	Relinquished by	Accepted by	Date	Time	Reason	Relinquished by	Accepted by	Date	Time
1	ML	KW	7/24	10:00	mets	KW	ML	7/24	16:00

0020

Severn T - Connecticut
Internal Chain-of-Custody

Client: G+M

STL Job #: 7001-1820C

Trip Blank:

Date Received: 07-20-01

QC:

Sample #: 09

Project #: NY001227.0017.00001

Locations: A7

Laboratory Sample #	Relinquished by	Accepted by	Date	Time	Reason	Relinquished by	Accepted by	Date	Time
09		KW	7/24	10:00	mt/s	KW		7/24	16:00

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL Contract: _____
 Lab Code: STL Case No.: 1820C SAS No.: _____ SDG No.: C1820
 SOW No.: ILM04.0

Field Sample ID	Lab Sample ID
<u>8J</u>	<u>011820C-01</u>
<u>26A-E</u>	<u>011820C-02</u>
<u>26A-F</u>	<u>011820C-03</u>
<u>26A-G</u>	<u>011820C-04</u>
<u>26A-ID</u>	<u>011820C-05D</u>
<u>26A-IS</u>	<u>011820C-05S</u>
<u>26A-I</u>	<u>011820C-05</u>
<u>26A-J</u>	<u>011820C-06</u>
<u>REP-3</u>	<u>011820C-07</u>
<u>FB071601</u>	<u>011820C-08</u>
<u>26A-H</u>	<u>011820C-09</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Were ICP interelement corrections applied? Yes/No YES
 Were ICP background corrections applied? Yes/No YES
 If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

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

Signature: *Denise W. Huff* Name: *Denise W. Huff*
 Date: *8/10/01* Title: *Group Leader*

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

8J

Lab Name: STL

Contract: _____

Lab Code: STL

Case No.: 1820C

SAS No.: _____

SDG No.: C1820

Matrix (soil/water): SOIL

Lab Sample ID: 011820C-01

Level (low/med): LOW

Date Received: 07/13/01

% Solids: 87.1

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	6.5			P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	19.3			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	1.0	B		P
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	43.4			P
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

26A-E

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: 1820C

SAS No.: _____

SDG No.: C1820

Matrix (soil/water): SOIL

Lab Sample ID: 011820C-02

Level (low/med): LOW

Date Received: 07/17/01

% Solids: 88.8

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	250.			P
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

26A-F

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: 1820C

SAS No.: _____

SDG No.: C1820

Matrix (soil/water): SOIL

Lab Sample ID: 011820C-03

Level (low/med): LOW

Date Received: 07/17/01

% Solids: 92

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	128.			P
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

26A-G

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1820C SAS No.: _____ SDG No.: C1820

Matrix (soil/water): SOIL Lab Sample ID: 011820C-04

Level (low/med): LOW Date Received: 07/17/01

% Solids: 88.8

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	193.			P
57-12-5	Cyanide				NR

Color Before: BROWN Clarity Before: OPAQUE Texture: _____Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

26A-I

Lab Name: STL

Contract: _____

Lab Code: STL

Case No.: 1820C

SAS No.: _____

SDG No.: C1820

Matrix (soil/water): SOIL

Lab Sample ID: 011820C-05

Level (low/med): LOW

Date Received: 07/17/01

% Solids: 95.3

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	114.			P
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

26A-J

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: 1820C

SAS No.: _____

SDG No.: C1820

Matrix (soil/water): SOIL

Lab Sample ID: 011820C-06

Level (low/med): LOW

Date Received: 07/17/01

% Solids: 85.4

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	102.			P
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

REP-3

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: 1820C

SAS No.: _____

SDG No.: C1820

Matrix (soil/water): SOIL

Lab Sample ID: 011820C-07

Level (low/med): LOW

Date Received: 07/17/01

% Solids: 88.2

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	272.			P
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

FB071601

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: 1820C

SAS No.: _____

SDG No.: C1820

Matrix (soil/water): WATER

Lab Sample ID: 011820C-08

Level (low/med): LOW

Date Received: 07/17/01

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	35.5			P
57-12-5	Cyanide				NR

Color Before: COLORLESS

Clarity Before: CLEAR

Texture: _____

Color After: COLORLESS

Clarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

26A-H

Lab Name: STL

Contract: _____

Lab Code: STL

Case No.: 1820C

SAS No.: _____

SDG No.: C1820

Matrix (soil/water): SOIL

Lab Sample ID: 011820C-09

Level (low/med): LOW

Date Received: 07/20/01

% Solids: 89.9

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	141.			P
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL Contract: _____
 Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: C1820
 Initial Calibration Source: INORG. VENT.
 Continuing Calibration Source: INORG. VENT.

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony									NR
Arsenic	1000.0	974.32	97.4	500.0	499.33	99.9	506.70	101.3	P
Barium									NR
Beryllium									NR
Cadmium									NR
Cesium									NR
Chromium	1000.0	957.21	95.7	500.0	483.82	96.8	479.56	95.9	P
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium	1000.0	1000.84	100.1	500.0	506.86	101.4	509.88	102.0	P
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc	1000.0	993.85	99.4	500.0	509.65	101.9	512.63	102.5	P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110 ; Cyanide 85-115;

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL Contract: _____
 Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: C1820
 Initial Calibration Source: INORG. VENT.
 Continuing Calibration Source: INORG. VENT.

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony									NR
Arsenic				500.0	508.24	101.6	511.85	102.4	P
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium				500.0	481.63	96.3	484.46	96.9	P
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium				500.0	512.07	102.4	517.77	103.6	P
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc				500.0	519.30	103.9	523.19	104.6	P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110 ; Cyanide 85-115;

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL Contract: _____
 Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: C1820
 Initial Calibration Source: INORG. VENT.
 Continuing Calibration Source: INORG. VENT.

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony									NR
Arsenic	1000.0	990.75	99.1	500.0	490.36	98.1	495.30	99.1	P
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium	1000.0	977.47	97.7	500.0	488.41	97.7	492.84	98.6	P
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium	1000.0	1014.85	101.5	500.0	500.50	100.1	503.99	100.8	P
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc	1000.0	1009.65	101.0	500.0	505.13	101.0	506.64	101.3	P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110 ; Cyanide 85-115;

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL Contract: _____
 Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: C1820
 Initial Calibration Source: INORG. VENT.
 Continuing Calibration Source: INORG. VENT.

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony									NR
Arsenic				500.0	494.74	98.9	507.52	101.5	P
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium				500.0	500.57	100.1	515.62	103.1	P
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium				500.0	508.30	101.7	517.05	103.4	P
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc				500.0	508.73	101.7	517.44	103.5	P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110 ; Cyanide 85-115;

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____

SAS No.: _____ SDG No.: C1820

Initial Calibration Source: INORG. VENT.

Continuing Calibration Source: INORG. VENT.

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				M	
	True	Found	%R(1)	True	Found	%R(1)	Found		%R(1)
Aluminum									NR
Antimony									NR
Arsenic				500.0	504.28	100.8	509.57	101.9	P
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium				500.0	520.95	104.2	521.61	104.3	P
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium				500.0	523.61	104.7	522.45	104.5	P
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc				500.0	520.41	104.1	517.98	103.6	P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110 ; Cyanide 85-115;

U.S. EPA - CLP

2B

CRDL STANDARD FOR AA AND ICP

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____

SAS No.: _____ SDG No.: C1820

AA CRDL Standard Source: INORG. VENT.

ICP CRDL Standard Source: INORG. VENT.

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R(1)	True	Initial Found	%R(1)	Final Found	%R(1)
Aluminum								
Antimony								
Arsenic				20.0	22.75	113.8	23.82	119.1
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium				20.0	21.45	107.2	20.68	103.4
Cobalt								
Copper								
Iron								
Lead								
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium				10.0	11.68	116.9	9.24	92.4
Silver								
Sodium								
Thallium								
Vanadium								
Zinc				40.0 60.0	43.49	72.5	42.25	70.4
Cyanide						108.2		105.6

OK
8/1/84



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2B

CRDL STANDARD FOR AA AND ICP

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____SAS No.: _____ SDG No.: C1820AA CRDL Standard Source: INORG. VENT.ICP CRDL Standard Source: INORG. VENT.

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R(1)	True	Initial Found	%R(1)	Final Found	%R(1)
Aluminum								
Antimony								
Arsenic				20.0	21.36	106.8	22.28	111.4
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium				20.0	20.90	104.5	21.83	109.2
Cobalt								
Copper								
Iron								
Lead								
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium				10.0	12.54	125.5	12.38	123.8
Silver								
Sodium								
Thallium								
Vanadium								
Zinc				40.0 60.0	41.87	69.8	42.24	70.4
Cyanide						104.7		105.6

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3
BLANKS

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: C1820

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calibration Blank (ug/L)	Continuing Calibration Blank (ug/L)						Prepa- ration Blank	C	M
		1	C	2	C	3	C			
Aluminum									NR	
Antimony									NR	
Arsenic	6.1B	4.2U		4.2U		4.2U		0.808U	P	
Barium									NR	
Beryllium									NR	
Cadmium									NR	
Calcium									NR	
Chromium	0.8U	0.8U		0.8U		0.8U		0.154U	P	
Cobalt									NR	
Copper									NR	
Iron									NR	
Lead									NR	
Magnesium									NR	
Manganese									NR	
Mercury									NR	
Nickel									NR	
Potassium									NR	
Selenium	4.9U	4.9U		4.9U		4.9U		0.942U	P	
Silver									NR	
Sodium									NR	
Thallium									NR	
Vanadium									NR	
Zinc	5.0U	5.0U		5.0U		5.0U		2.595B	P	
Cyanide									NR	

U.S. EPA - CLP

3
BLANKSLab Name: STL

Contract: _____

Lab Code: STL Case No.: _____SAS No.: _____ SDG No.: C1820Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calibration Blank (ug/L)	Continuing Calibration Blank (ug/L)						Prepa- ration Blank	C	M
		1	C	2	C	3	C			
Aluminum									NR	
Antimony									NR	
Arsenic			4.20						P	
Barium									NR	
Beryllium									NR	
Bismuth									NR	
Calcium									NR	
Chromium			0.80						P	
Cobalt									NR	
Copper									NR	
Iron									NR	
Lead									NR	
Magnesium									NR	
Manganese									NR	
Mercury									NR	
Nickel									NR	
Potassium									NR	
Selenium			4.90						P	
Silver									NR	
Sodium									NR	
Thallium									NR	
Vanadium									NR	
Zinc			5.00					5.918B	P	
Cyanide									NR	

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3
BLANKS

Lab Name: STL Contract: _____
 Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: C1820
 Preparation Blank Matrix (soil/water): WATER
 Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank	
		C	1	C	2	C	3	C	C	M
Aluminum										NR
Antimony										NR
Arsenic	4.20	U	4.20	U	4.20	U	4.20	U		P
Barium										NR
Beryllium										NR
Cadmium										NR
Calcium										NR
Chromium	0.80	U	0.80	U	0.80	U	0.80	U		P
Cobalt										NR
Copper										NR
Iron										NR
Lead										NR
Magnesium										NR
Manganese										NR
Mercury										NR
Nickel										NR
Potassium										NR
Selenium	4.90	U	4.90	U	4.90	U	4.90	U		P
Silver										NR
Sodium										NR
Thallium										NR
Vanadium										NR
Zinc	5.00	U	5.00	U	5.00	U	5.00	U		P
Cyanide										NR

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3
BLANKSLab Name: STL

Contract: _____

Lab Code: STL Case No.: _____SAS No.: _____ SDG No.: C1820Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calibration Blank (ug/L)	Continuing Calibration Blank (ug/L)						Prepa- ration Blank	C	M
		1	C	2	C	3	C			
Aluminum									NR	
Antimony									NR	
Arsenic		4.20		4.20		4.20			P	
Barium									NR	
Beryllium									NR	
Bismuth									NR	
Calcium									NR	
Chromium		0.80		0.80		0.80			P	
Cobalt									NR	
Copper									NR	
Iron									NR	
Lead									NR	
Magnesium									NR	
Manganese									NR	
Mercury									NR	
Nickel									NR	
Potassium									NR	
Selenium		4.90		4.90		4.90			P	
Silver									NR	
Sodium									NR	
Thallium									NR	
Vanadium									NR	
Zinc		5.00		5.00		5.00			P	
Cyanide									NR	

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4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____SAS No.: _____ SDG No.: C1820ID Number: JA61EICS Source: EPA-LV87

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	500000							
Antimony								
Arsenic		100	9	100.7	100.7	7	107.0	107.0
Barium								
Beryllium								
Cadmium								
Calcium	500000							
Chromium		500	1	417.9	83.5	1	425.1	85.0
Cobalt								
Copper								
Iron	200000							
Lead								
Magnesium	500000							
Manganese								
Mercury								
Nickel								
Potassium								
Selenium		50	-5	44.3	88.7	-4	44.9	89.9
Silver								
Sodium								
Thallium								
Vanadium								
Zinc		1000	2	952.0	95.2	2	990.4	99.0
Cyanide								

U.S. EPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____SAS No.: _____ SDG No.: C1820ID Number: JA61EICS Source: EPA-LV87

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	500000							
Antimony								
Arsenic		100	6	103.6	103.6	5	102.2	102.2
Barium								
Beryllium								
Cadmium								
Calcium	500000							
Chromium		500	1	441.0	88.2	1	463.1	92.6
Cobalt								
Copper								
Iron	200000							
Lead								
Magnesium	500000							
Manganese								
Mercury								
Nickel								
Potassium								
Selenium		50	-5	44.0	88.1	-5	50.3	100.6
Silver								
Sodium								
Thallium								
Vanadium								
Zinc		1000	2	984.9	98.4	1	990.5	99.0
Cyanide								

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

26A-IS

Lab Name: STL

Contract: _____

Lab Code: STL

Case No.: 1820C

SAS No.: _____

SDG No.: C1820

Matrix: SOIL

Level (low/med): LOW

% Solids for Sample: 95.26

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Aluminum							NR
Antimony							NR
Arsenic							NR
Barium							NR
Beryllium							NR
Cadmium							NR
Calcium							NR
Chromium							NR
Cobalt							NR
Copper							NR
Lead							NR
Magnesium							NR
Manganese							NR
Mercury							NR
Nickel							NR
Potassium							NR
Selenium							NR
Silver							NR
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc	75-125	194.8494	113.6588	88.96	91.3		P
Cyanide							NR

Comments:

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6
DUPLICATES

EPA SAMPLE NO.

26A-ID

Lab Name: STL

Contract: _____

Lab Code: STLCase No.: 1820C

SAS No.: _____

SDG No.: C1820Matrix: SOILLevel (low/med): LOW% Solids for Sample: 95.26% Solids for Duplicate: 95.26Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic								NR
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron								NR
Lead								NR
Magnesium								NR
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc		113.6588		116.0334		2.1		P
Cyanide								NR

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7

LABORATORY CONTROL SAMPLE

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____SAS No.: _____ SDG No.: C1820Solid LCS Source: INORG. VENT.

Aqueous LCS Source: _____

Analyte	Aqueous (ug/L)			Solid (mg/kg)					
	True	Found	%R	True	Found	C	Limits	%R	
Aluminum									
Antimony									
Arsenic				136.0	134.4		34.4	60.6	98.8
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium				89.3	90.4		39.0	63.7	101.2
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium				87.6	99.1		81.0	138.0	113.2
Silver									
Sodium									
Thallium									
Vanadium									
Zinc				66.0	61.7		224.0	356.0	93.6
Cyanide									

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7

LABORATORY CONTROL SAMPLE

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____SAS No.: _____ SDG No.: C1820

Solid LCS Source: _____

Aqueous LCS Source: INORG. VENT.

Analyte	Aqueous (ug/L)			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc	300.0	298.00	99.3					
Cyanide								

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8

STANDARD ADDITION RESULTS

Lab Name: STL Contract: _____
 Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: C1820

Concentration Units: ug/L

EPA Sample No.	An	0 ADD		1 ADD		2 ADD		3 ADD		Final Conc.	r	Q
		CON	ABS	CON	ABS	CON	ABS	CON	ABS			

9
ICP SERIAL DILUTIONS

EPA SAMPLE NO.

26A-IL

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: 1820C

SAS No.: _____

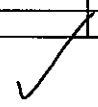
SDG No.: C1820

Matrix(soil/water): SOIL

Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum							NR
Antimony							NR
Arsenic							NR
Barium							NR
Beryllium							NR
Cadmium							NR
Calcium							NR
Chromium							NR
Cobalt							NR
Copper							NR
Iron							NR
Lead							NR
Magnesium							NR
Manganese							NR
Mercury							NR
Nickel							NR
Potassium							NR
Selenium							NR
Silver							NR
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc	638.80		646.15		1.2		P
Cyanide							NR



10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL Contract: _____
 Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: C1820
 ICP ID Number: JA61E Date: 04/15/01
 Flame AA ID Number: _____
 Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum					
Antimony					
Arsenic	193.60		10.0	4.2	P
Barium					
Beryllium					
Cadmium					
Calcium					
Chromium	267.70		10.0	.8	P
Cobalt					
Copper					
Iron					
Lead					
Magnesium					
Manganese					
Mercury					
Nickel					
Potassium					
Selenium	196.02		5.0	4.9	P
Silver					
Sodium					
Thallium					
Vanadium					
Zinc	213.85		30.0	5.0	P

Comments:

11A

ICP Interelement correction Factors (Annually)

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____

SAS No.: _____ SDG No.: C1820

ICP ID Number: JA61E

Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		Al	Ca	Fe	Mg	Ag
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium	267.70	.0018652		-.0011680	-3.0940000	0.0000000
Cobalt						
Copper						
Iron						
Lead						
Magnesium						
Manganese						
Mercury						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Thallium						
Vanadium						
Zinc	213.85	.0009443	8.7485000	0.0000000	0.0000000	0.0000000

Comments:

TABLE AS-1.3
7001-1820B
ARCADIS/GERAGHTY & MILLER
MISCELLANEOUS ATOMIC SPECTROSCOPY

Soil

All values are mg/Kg dry weight basis.

Client Sample I.D.	19S	19T	19U	19V
Lab Sample I.D.	011820B-11	011820B-12	011820B-13	011820B-14
Arsenic	4.6B	7.1	5.1B	11.8
Chromium	NR	NR	NR	NR
Copper	27.9	116.	8.8	1990
Mercury	0.17* J	0.11* J	0.0076* J	19.4* J
Selenium	0.82U	0.83U	0.86U	0.91U
Zinc	83.8 J	245. J	12.8B J	949. J

See Appendix for qualifier definitions

RP
8/14/01

TABLE AS-1.4
7001-1820B
ARCADIS/GERAGHTY & MILLER
MISCELLANEOUS ATOMIC SPECTROSCOPY

All values are mg/Kg dry weight basis.

Client Sample I.D.	19W	REP-2	8F	8G
Lab Sample I.D.	011820B-15	011820B-16	011820B-17	011820B-18
Arsenic	15.6	2.8B	NR	NR
Chromium	NR	NR	NR	NR
Copper	27.6	11.9	NR	NR
Mercury	0.69* J	0.019* U	0.16* J	0.59* J
Selenium	0.77U	0.84U	0.98U	0.90U
Zinc	53.7 J	19.1 J	NR	NR

See Appendix for qualifier definitions

MP
1/14/01

TABLE AS-1.5
7001-1820B
ARCADIS/GERAGHTY & MILLER
MISCELLANEOUS ATOMIC SPECTROSCOPY

All values are mg/Kg dry weight basis.

Client Sample I.D.	8H	8I		
Lab Sample I.D.	011820B-19	011820B-20		
Arsenic	26.1	24.6		
Chromium	18.9	50.3		
Copper	NR	NR		
Mercury	0.69* J	NR		
Selenium	1.0U	1.0U		
Zinc	111.	123.		

See Appendix for qualifier definitions

INORGANICS APPENDIX

C – Concentration qualifiers

U – Indicates analyte was not detected at method reporting limit.

B- Indicates analyte result between IDL and contract required detection limit (CRDL)

Q – QC qualifiers

E – Reported value is estimated because of the presence of interference

M – Duplicate injection precision not met

N – Spiked sample recovery not within control limits

S – The reported value was determined by the method of standard additions (MSA)

W – Post-digest spike recovery furnace analysis was out of 85-115 percent control limit, while sample absorbance was less than 50 percent of spike absorbance

* - Duplicate analysis not within control limit

+ - Correlation coefficient for MSA is less than 0.995

M – Method codes

P – ICP

A – Flame AA

F – Furnace AA

CV – Cold vapor AA (manual)

C – Cyanide

NR – Not required

NC – Not calculated as per protocols

STATE CERTIFICATIONS

In some instances it may be necessary for environmental data to be reported to a regulatory authority with reference to a certified laboratory. For your convenience, the laboratory identification numbers for the STL-Connecticut laboratory are provided in the following table. Many states certify laboratories for specific parameters or tests within a category (i.e. method 325.2 for wastewater). The information in the following table indicates the lab is certified in a general category of testing such as drinking water or wastewater analysis. The laboratory should be contacted directly if parameter-specific certification information is required.

**STL-Connecticut
Certification Summary (as of February 2001)**

Connecticut	Department of Health Services	Drinking Water, Wastewater	PH-0497
Maine	Department of Health and Environmental Services	Drinking Water, Wastewater/Solid, Hazardous Waste	CT023
Massachusetts	Department of Environmental Protection	Potable/Non-Potable Water	CT023
New Hampshire	Department of Environmental Services	Drinking Water, Wastewater	2528
New Jersey	Department of Environmental Protection	Drinking Water, Wastewater	46410
New York	Department of Health	CLP, Drinking Water, Wastewater, Solid/ Hazardous Waste NELAC	10602
North Carolina	Division of Environmental Management	Wastewater	388
Rhode Island	Department of Health	Chemistry...Non- Potable Water and Wastewater	A43
Utah	Department of Health	RCRA	2032614458
Washington	Department of Ecology	Wastewater/Hazardous Waste	C231
Wisconsin	Department of Natural Resources	Wastewater	998355710

7001-1820B
ARCADIS/GERAGHTY & MILLER
SAMPLE SUMMARY

CLIENT ID	LAB ID	MATRIX	DATE COLLECTED	DATE RECEIVED
26E	011820B-01	SOIL	07/12/01	07/13/01
26F	011820B-02	SOIL	07/12/01	07/13/01
19K	011820B-03	SOIL	07/12/01	07/13/01
19L	011820B-04	SOIL	07/12/01	07/13/01
19M	011820B-05	SOIL	07/12/01	07/13/01
19N	011820B-06	SOIL	07/12/01	07/13/01
19O	011820B-07	SOIL	07/12/01	07/13/01
19P	011820B-08	SOIL	07/12/01	07/13/01
19P	011820B-08D	SOIL	07/12/01	07/13/01
19P	011820B-08S	SOIL	07/12/01	07/13/01
19Q	011820B-09	SOIL	07/12/01	07/13/01
19R	011820B-10	SOIL	07/12/01	07/13/01
19S	011820B-11	SOIL	07/12/01	07/13/01
19T	011820B-12	SOIL	07/12/01	07/13/01
19U	011820B-13	SOIL	07/12/01	07/13/01
19V	011820B-14	SOIL	07/12/01	07/13/01
19W	011820B-15	SOIL	07/12/01	07/13/01
REP-2	011820B-16	SOIL	07/12/01	07/13/01
8F	011820B-17	SOIL	07/12/01	07/13/01
8G	011820B-18	SOIL	07/12/01	07/13/01
8H	011820B-19	SOIL	07/12/01	07/13/01
8I	011820B-20	SOIL	07/12/01	07/13/01

STL CT ANALYTICAL SUMMARY

Page:1

Client ID: 19K, 19L, 19M, 19N, 19O, 19P, 19Q, 19R, 19S, 19T, 19U, 19V, 19W,
26E, 26F, 8F, 8G, 8H, 8I, REP-2
Job Number: 7001-1820B

Date: 7/31/101

Qty	Matrix	Analysis	Description
1	None	DISK	Diskette Prep.
1	None	DISK-2	Diskette Prep.
2	SOIL	AS-NSW846	Arsenic
18	SOIL	AS-NSW846	Arsenic
2	SOIL	CR-NSW846	Chromium
2	SOIL	CU-NSW846	Copper
14	SOIL	CU-NSW846	Copper
2	SOIL	HG-NSW846	Mercury
17	SOIL	HG-NSW846	Mercury
22	SOIL	MET-PREP-ICAP	Metals ICAP Prep
2	SOIL	SE-NSW846	Selenium
18	SOIL	SE-NSW846	Selenium
2	SOIL	ZN-NSW846	Zinc
16	SOIL	ZN-NSW846	Zinc

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____

SAS No.: _____ SDG No.: C1820

ICP ID Number: JA61E

Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		As	Au	B	Ba	Be
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium	267.70	-6.3830600		0.0000000	0.0000000	0.0000000
Cobalt						
Copper						
Iron						
Lead						
Magnesium						
Manganese						
Mercury						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Thallium						
Vanadium						
Zinc	213.85	-1.3146900		0.0000000	0.0000000	0.0000000

Comments:

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____

SAS No.: _____ SDG No.: C1820

ICP ID Number: JA61E

Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		Cd	Co	Cr	Cu	K
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium	267.70	0.0000000	1.2502400	0.0000000	0.0000000	0.0000000
Cobalt						
Copper						
Iron						
Lead						
Magnesium						
Manganese						
Mercury						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Thallium						
Vanadium						
Zinc	213.85	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____

SAS No.: _____ SDG No.: C1820

ICP ID Number: JA61E

Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		Li	Mn	Mo	Na	Ni
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium	267.70		-.0417720	1.5194300	0.0000000	.4416338
Cobalt						
Copper						
Iron						
Lead						
Magnesium						
Manganese						
Mercury						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Thallium						
Vanadium						
Zinc	213.85		0.0000000	0.0000000	0.0000000	0.0000000

Comments:

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____

SAS No.: _____ SDG No.: C1820

ICP ID Number: JA61E

Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		Pb	Pd	Pt	Sb	Se
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium	267.70	-.1202820			7.7030790	0.0000000
Cobalt						
Copper						
Iron						
Lithium						
Magnesium						
Manganese						
Mercury						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Thallium						
Vanadium						
Zinc	213.85	0.0000000			-.6141440	.1325478

Comments:

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____
 Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: C1820
 ICP ID Number: JA61E Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		Si	Sn	Ti	Tl	V
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium	267.70		.2208577	.9567213	4.5557730	1.2170310
Cobalt						
Copper						
Iron						
Lithium						
Magnesium						
Manganese						
Mercury						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Thallium						
Vanadium						
Zinc	213.85		0.0000000	0.0000000	0.0000000	0.0000000

Comments:

ICP Interelement correction Factors (Annually)

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____

SAS No.: _____ SDG No.: C1820

ICP ID Number: JA61E

Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for :			
		Zn	Zr		
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Cadmium					
Calcium					
Chromium	267.70	0.0000000	-.0096980		
Cobalt					
Copper					
Iron					
Lead					
Magnesium					
Manganese					
Mercury					
Nickel					
Potassium					
Selenium					
Silver					
Sodium					
Thallium					
Vanadium					
Zinc	213.85	0.0000000	0.0000000		

Comments:

ICP Linear Ranges (Quarterly)

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____

SAS No.: _____

SDG No.: C1820

ICP ID Number: JA61E

Date: 04/15/01

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum	6.00	500000.0	P
Antimony	6.00	10000.0	P
Arsenic	6.00	10000.0	P
Barium	6.00	10000.0	P
Beryllium	6.00	10000.0	P
Cadmium	6.00	10000.0	P
Calcium	6.00	200000.0	P
Chromium	6.00	200000.0	P
Cobalt	6.00	10000.0	P
Copper	6.00	100000.0	P
Iron	6.00	500000.0	P
Lead	6.00	500000.0	P
Magnesium	6.00	500000.0	P
Manganese	6.00	10000.0	P
Mercury			NR
Nickel	6.00	10000.0	P
Potassium	6.00	100000.0	P
Selenium	6.00	10000.0	P
Silver	6.00	10000.0	P
Sodium	6.00	500000.0	P
Thallium	6.00	100000.0	P
Vanadium	6.00	10000.0	P
Zinc	6.00	10000.0	P

Comments:

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: 1820C

SAS No.: _____ SDG No.: C1820

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
011820C-01	07/24/01	1.19	200
011820C-02	07/24/01	1.23	200
011820C-03	07/24/01	1.03	200
011820C-04	07/24/01	1.04	200
011820C-05	07/24/01	1.18	200
011820C-05D	07/24/01	1.19	200
011820C-05S	07/24/01	1.18	200
011820C-05SD	07/24/01	1.21	200
011820C-06	07/24/01	1.01	200
011820C-07	07/24/01	1.08	200
011820C-09	07/24/01	1.09	200
LCSS1	07/24/01	1.00	200
PBS1	07/24/01	1.04	200

14
ANALYSIS RUN LOG

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____

SAS No.: _____ SDG No.: C1820

Instrument ID Number: JA61E

Method: P

Start Date: 07/23/01

End Date: 07/23/01

EPA Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N				
S1	1.00	0917				X				X										X								X			
S7	1.00	0923			X					X										X								X			
S8	1.00	0929			X					X										X								X			
S4	1.00	0935			X					X										X								X			
S9	1.00	0940																													
S6	1.00	0944																													
S5	1.00	0948																													
S3	1.00	0952																													
ICV1	1.00	0952			X					X										X								X			
ICV1	1.00	0952			X					X										X								X			
I	1.00	0952			X					X										X								X			
ICv1	1.00	0952			X					X										X								X			
ZZZZZZ	1.00	0958																													
ZZZZZZ	1.00	0958																													
ZZZZZZ	1.00	0958																													
ZZZZZZ	1.00	0958																													
ICB1	1.00	1004			X					X										X								X			
ICB3	1.00	1004			X					X										X								X			
ICB4	1.00	1004			X					X										X								X			
ICB7	1.00	1004			X					X										X								X			
ZZZZZZ	1.00	1010																													
CRI1	1.00	1016			X					X										X								X			
CRI3	1.00	1016			X					X										X								X			
CRI7	1.00	1016			X					X										X								X			
ICSAI	1.00	1022			X					X										X								X			
ICSABI	1.00	1028			X					X										X								X			
CCV1	1.00	1035			X					X										X								X			
CCV13	1.00	1035			X					X										X								X			
CCV5	1.00	1035			X					X										X								X			
CCV9	1.00	1035			X					X										X								X			
ZZZZZZ	1.00	1041																													
ZZZZZZ	1.00	1041																													

14
ANALYSIS RUN LOG

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____

SAS No.: _____ SDG No.: C1820

Instrument ID Number: JA61E

Method: P

Start Date: 07/23/01

End Date: 07/23/01

EPA Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N				
ZZZZZZ	1.00	1041																													
ZZZZZZ	1.00	1041																													
ZZZZZZ	1.00	1041																													
CCB1	1.00	1047			X					X										X							X				
CCB10	1.00	1047			X					X										X							X				
CCB19	1.00	1047			X					X										X							X				
CCB7	1.00	1047			X					X										X							X				
PBW1	1.00	1053																									X				
PBW2	1.00	1053																									X				
PPM4	1.00	1053																									X				
LCSW1	1.00	1059																									X				
LCSW2	1.00	1059																									X				
LCSW4	1.00	1059																									X				
ZZZZZZ	1.00	1105																													
ZZZZZZ	1.00	1111																													
011820C-08	1.00	1117																									X				
ZZZZZZ	1.00	1123																													
ZZZZZZ	1.00	1129																													
ZZZZZZ	1.00	1135																													
ZZZZZZ	1.00	1141																													
ZZZZZZ	1.00	1147																													
CCV10	1.00	1153			X					X										X							X				
CCV14	1.00	1153			X					X										X							X				
CCV2	1.00	1153			X					X										X							X				
CCV6	1.00	1153			X					X										X							X				
ZZZZZZ	1.00	1159																													
ZZZZZZ	1.00	1159																													
ZZZZZZ	1.00	1159																													
ZZZZZZ	1.00	1159																													
ZZZZZZ	1.00	1159																													
CCB11	1.00	1205			X					X										X							X				
CCB2	1.00	1205			X					X										X							X				
CCB20	1.00	1205			X					X										X							X				

14
ANALYSIS RUN LOG

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____

SAS No.: _____ SDG No.: C1820

Instrument ID Number: JA61E

Method: P

Start Date: 07/23/01

End Date: 07/23/01

EPA Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N				
CCB8	1.00	1205			X					X										X							X				
ZZZZZZ	1.00	1211																													
ZZZZZZ	1.00	1217																													
ZZZZZZ	1.00	1223																													
ZZZZZZ	1.00	1229																													
ZZZZZZ	1.00	1235																													
ZZZZZZ	1.00	1241																													
ZZZZZZ	1.00	1247																													
ZZZZZZ	1.00	1253																													
ZZZZZZ	1.00	1259																													
ZZZZZ	1.00	1305																													
CCV11	1.00	1311			X					X										X						X					
CCV15	1.00	1311			X					X										X						X					
CCV3	1.00	1311			X					X										X						X					
CCV7	1.00	1311			X					X										X						X					
ZZZZZZ	1.00	1317																													
ZZZZZZ	1.00	1317																													
ZZZZZZ	1.00	1317																													
ZZZZZZ	1.00	1317																													
ZZZZZZ	1.00	1317																													
CCB12	1.00	1323			X					X										X						X					
CCB21	1.00	1323			X					X										X						X					
CCB3	1.00	1323			X					X										X						X					
CCB9	1.00	1323			X					X										X						X					
ZZZZZZ	1.00	1329																													
ZZZZZZ	1.00	1335																													
ZZZZZZ	1.00	1341																													
ZZZZZZ	1.00	1347																													
ZZZZZZ	5.00	1353																													
ZZZZZZ	5.00	1359																													
ZZZZZZ	5.00	1405																													
CRI2	1.00	1411			X					X										X						X					
CRI4	1.00	1411			X					X										X						X					

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____

SAS No.: _____ SDG No.: C1820

Instrument ID Number: JA61E

Method: P

Start Date: 07/23/01

End Date: 07/23/01

EPA Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N				
CR18	1.00	1411			X					X										X						X					
ICSAF	1.00	1434			X					X										X						X					
ICSABF	1.00	1440			X					X										X						X					
CCV12	1.00	1446			X					X										X						X					
CCV16	1.00	1446			X					X										X						X					
CCV4	1.00	1446			X					X										X						X					
CCV8	1.00	1446			X					X										X						X					
ZZZZZZ	1.00	1452																													
ZZZZZZ	1.00	1452																													
ZZZZZZ	1.00	1452																													
Z ZZ	1.00	1452																													
ZZZZZZ	1.00	1452																													
ZZZZZZ	1.00	1452																													
CCB10	1.00	1458			X					X										X						X					
CCB13	1.00	1458			X					X										X						X					
CCB22	1.00	1458			X					X										X						X					
CCB4	1.00	1458			X					X										X						X					

14
ANALYSIS RUN LOG

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____

SAS No.: _____ SDG No.: C1820

Instrument ID Number: JA61E

Method: P

Start Date: 07/27/01

End Date: 07/27/01

EPA Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N				
S1	1.00	1403				X				X										X								X			
S7	1.00	1409			X					X										X								X			
S8	1.00	1415			X					X										X								X			
S4	1.00	1421			X					X										X								X			
S9	1.00	1426																													
S6	1.00	1430																													
S5	1.00	1434																													
S3	1.00	1438																													
ICV1	1.00	1438			X					X										X								X			
ICV1	1.00	1438			X					X										X								X			
I	1.00	1438			X					X										X								X			
ZZZZZZ	1.00	1444																													
ICB3	1.00	1450			X					X										X								X			
ICB4	1.00	1450			X					X										X								X			
ZZZZZZ	1.00	1456																													
CRI3	1.00	1502			X					X										X								X			
ICSAI	1.00	1509			X					X										X								X			
ICSABI	1.00	1515			X					X										X								X			
CCV5	1.00	1521			X					X										X								X			
CCV7	1.00	1521			X					X										X								X			
CCV9	1.00	1521			X					X										X								X			
ZZZZZZ	1.00	1527																													
CCB10	1.00	1533			X					X										X								X			
CCB7	1.00	1533			X					X										X								X			
ZZZZZZ	1.00	1539																													
ZZZZZZ	1.00	1539																													
ZZZZZZ	1.00	1545																													
ZZZZZZ	1.00	1551																													
ZZZZZZ	1.00	1557																													
ZZZZZZ	1.00	1603																													
ZZZZZZ	5.00	1609																													
ZZZZZZ	1.00	1615																													
ZZZZZZ	1.00	1621																													

14
ANALYSIS RUN LOG

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____

SAS No.: _____ SDG No.: C1820

Instrument ID Number: JA61E

Method: P

Start Date: 07/27/01

End Date: 07/27/01

EPA Sample No.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	A L	T	V	Z N	C N
ZZZZZZ	1.00	1627																									
ZZZZZZ	1.00	1633																									
CCV10	1.00	1639			X					X									X						X		
CCV6	1.00	1639			X					X									X						X		
CCV8	1.00	1639			X					X									X						X		
ZZZZZZ	1.00	1645																									
CCB11	1.00	1651			X					X									X						X		
CCB8	1.00	1651			X					X									X						X		
ZZZZZZ	1.00	1657																									
ZZZZZZ	1.00	1703																									
ZZZZZZ	1.00	1709																									
ZZZZZZ	1.00	1715																									
ZZZZZZ	1.00	1721																									
ZZZZZZ	1.00	1727																									
ZZZZZZ	1.00	1733																									
ZZZZZZ	1.00	1739																									
ZZZZZZ	1.00	1745																									
ZZZZZZ	1.00	1751																									
CCV11	1.00	1757			X					X									X						X		
CCV7	1.00	1757			X					X									X						X		
CCV9	1.00	1757			X					X									X						X		
ZZZZZZ	1.00	1803																									
CCB12	1.00	1809			X					X									X						X		
CCB9	1.00	1809			X					X									X						X		
ZZZZZZ	1.00	1815																									
ZZZZZZ	1.00	1821																									
ZZZZZZ	5.00	1827																									
ZZZZZZ	1.00	1833																									
LCSS1	1.00	1839			X					X									X						X		
PBS1	1.00	1845			X					X									X						X		
011820C-01	1.00	1851			X					X									X						X		
011820C-02	1.00	1857																							X		
011820C-03	1.00	1903																							X		

14
ANALYSIS RUN LOG

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____

SAS No.: _____ SDG No.: C1820

Instrument ID Number: JA61E

Method: P

Start Date: 07/27/01

End Date: 07/27/01

EPA Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N				
011820C-04	1.00	1909																										X			
CCV10	1.00	1915			X					X										X								X			
CCV12	1.00	1915			X					X										X								X			
CCV8	1.00	1915			X					X										X								X			
ZZZZZZ	1.00	1921																													
CCB10	1.00	1927			X					X										X								X			
CCB13	1.00	1927			X					X										X								X			
011820C-05	1.00	1934																										X			
011820C-05D	1.00	1940																										X			
011820C-05S	1.00	1946																										X			
011820C-05A	1.00	1952																													
011820C-05L	5.00	1958																										X			
011820C-06	1.00	2004																										X			
011820C-07	1.00	2010																										X			
011820C-09	1.00	2016																										X			
ZZZZZZ	5.00	2022																													
ZZZZZZ	1.00	2028																													
CCV11	1.00	2034			X					X										X								X			
CCV13	1.00	2034			X					X										X								X			
CCV9	1.00	2034			X					X										X								X			
ZZZZZZ	1.00	2040																													
CCB11	1.00	2046			X					X										X								X			
CCB14	1.00	2046			X					X										X								X			
ZZZZZZ	1.00	2052																													
ZZZZZZ	1.00	2058																													
ZZZZZZ	1.00	2104																													
ZZZZZZ	1.00	2110																													
ZZZZZZ	5.00	2116																													
CRI4	1.00	2122			X					X										X								X			
ICSAF	1.00	2128			X					X										X								X			
ICSABF	1.00	2134			X					X										X								X			
CCV10	1.00	2140			X					X										X								X			
CCV12	1.00	2140			X					X										X								X			

14
ANALYSIS RUN LOG

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____

SAS No.: _____ SDG No.: C1820

Instrument ID Number: JA61E

Method: P

Start Date: 07/27/01

End Date: 07/27/01

EPA Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	A L	N T	T V	V	Z N	C N			
CCV14	1.00	2140			X					X									X								X				
ZZZZZZ	1.00	2146																													
CCB12	1.00	2152			X					X									X								X				
CCB15	1.00	2152			X					X									X								X				

**SEVERN
TRENT
SERVICES**

July 30, 2001

Mr. Bill Holubowich
ARCADIS/GERAGHTY & MILLER
88 Duryea Road
Melville, NY 11747

STL Connecticut
128 Long Hill Cross Road
Shelton, CT 06484

Tel: 203 929 8140
Fax: 203 929 8142
www.stl-inc.com

Dear Mr. Holubowich :

Please find enclosed the analytical results of 22 sample(s) received at our laboratory on July 13, 2001. This report contains sections addressing the following information at a minimum:

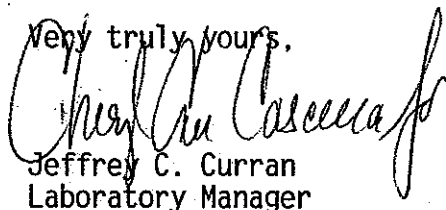
- . sample summary
- . analytical methodology
- . state certifications
- . definition of data qualifiers and terminology
- . analytical results
- . chain-of-custody

STL Report #7001-1820B	Purchase Order #NY001227.0017.00001
Project ID: LOCKHEED MARTIN RCRA SOIL	

Copies of this analytical report and supporting data are maintained in our files for a minimum of five years unless special arrangements have been made. Unless specifically indicated, all analytical testing was performed at this laboratory location and no portion of the testing was subcontracted.

We appreciate your selection of our services and welcome any questions or suggestions you may have relative to this report. Please contact your customer service representative at (203) 929-8140 for any additional information. Thank you for utilizing our services; we hope you will consider us for your future analytical needs.

I have reviewed and approved the enclosed data for final release.

Very truly yours,

Jeffrey C. Curran
Laboratory Manager

JCC

This report contains 78 pages.

7001-1820B
ARCADIS GERAGHTY & MILLER

Case Narrative

Sample Receipt – All samples were received in good condition and at the proper temperature.

Metals – ICAP metals were determined using a JA61E trace ICAP; mercury was determined by cold vapor technique using a Leeman Labs mercury analyzer; following guidance provided in SW846 according to methods: ICAP – 3050B/6010B; mercury-7471A.

One “*” flag resulted from duplicate analysis of sample 19PD for mercury.

No other problems occurred during analysis. All appropriate protocols were employed. All data appears to be consistent.

TABLE AS-1.0
7001-1820B
ARCADIS/GERAGHTY & MILLER
MISCELLANEOUS ATOMIC SPECTROSCOPY

All values are mg/Kg dry weight basis.

Client Sample I.D.	26E	26F	19K	19L
Lab Sample I.D.	011820B-01	011820B-02	011820B-03	011820B-04
Arsenic	12 9.3	4.5B	3.1B	3.1B
Chromium	50 NR	NR	NR	NR
Copper	60 NR	NR	11.7	9.8
Mercury	2 NR	NR	0.019* U	0.016* U
Selenium	NR	NR	0.90U	0.77U
Zinc	557 NR	NR	18.4 J	19.7 J

See Appendix for qualifier definitions

AD
8/14/01

TABLE AS-1.1
7001-1820B
ARCADIS/GERAGHTY & MILLER
MISCELLANEOUS ATOMIC SPECTROSCOPY

All values are mg/Kg dry weight basis.

Client Sample I.D.	19M	19N	19O	19P
Lab Sample I.D.	011820B-05	011820B-06	011820B-07	011820B-08
Arsenic	3.0B	9.0	30.2	14.8
Chromium	NR	NR	NR	NR
Copper	39.9	21.0	445.	154.
Mercury	0.033* U	0.42* J	0.59* J	0.36* J
Selenium	0.87U	1.0U	0.91U	0.91U
Zinc	155. J	37.0 J	93.1 J	94.0 J

See Appendix for qualifier definitions

AP
8/14/01

TABLE AS-1.2
7001-1820B
ARCADIS/GERAGHTY & MILLER
MISCELLANEOUS ATOMIC SPECTROSCOPY

All values are mg/Kg dry weight basis.

Client Sample I.D.	19P D	19P S	19Q	19R
Lab Sample I.D.	011820B-08D	011820B-08S	011820B-09	011820B-10
Arsenic	14.6	21.9	11.8	17.8
Chromium	NR	NR	NR	NR
Copper	167.	184.	31.2	99.1
Mercury	0.61*	0.55	0.32* J	0.71* J
Selenium	0.93U	2.3B	0.76U	0.86U
Zinc	99.6	191.	39.4 J	46.9 J

See Appendix for qualifier definitions

RP
6/19/01



ARCADIS AGHTY & MILLER

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page ___ of ___

Project Number/Name Ny 001227.0017000021

Project Location LAKE SUCCESS NY

Laboratory SEVERN TRENT SHEFFIELD

Project Manager BELL HOLOBOWSKI

Sampler(s)/Affiliation G. WELBORN

ANALYSIS / METHOD / SIZE

802 JAN 7047
C.H.S 20 6010
802 JAN
AS (6010)

7001-2880B

05°C

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID					Remarks	Total
15D	S	7-12-01	---	1					1
15E			---	1					1
15F			---	1					1
15G			---	1					1
15H			---	1					1
15I			---	1					1
26E			01	1					1
26F			02	1					1

"PASSED RAD SCREEN"

Total No. of Bottles/Containers 8

Sample Matrix: L = Liquid; S = Solid; A = Air

Relinquished by: <u>[Signature]</u>	Organization: <u>ARCADIS GTM</u>	Date: <u>7/13/01</u>	Time: _____	Seal Intact?
Received by: <u>[Signature]</u>	Organization: <u>ST-CT</u>	Date: <u>7/13/01</u>	Time: <u>1445</u>	Yes No N/A

Relinquished by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Seal Intact?
Received by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Yes No N/A

Special Instructions/Remarks: REPORT TO BELL HOLUBOWSKI
REPORTS MUST BE TO CLOSURE PERFORMANCE STANDARDS !!!

Delivery Method: In Person Common Carrier Lab Courier Other

SPECIFY

SPECIFY

0012

Project Number/Name Ny 001227.0017.00001
 Project Location LAKE SUCCESS NY
 Laboratory SEWER TRUNK STATION
 Project Manager BILL HOLUBOWICZ
 Sampler(s)/Affiliation G. WILSON

80% JAR 6010
AsCu Hg Se Zn Pb

ANALYSIS / METHOD / SIZE

7001-2880B
06°C

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE						Remarks	Total
19K	S	7-12-01	03	1							1
19L			04	1							1
19M			05	1							1
19N			06	1							1
19O			07	1							1
19P			08	1*							1
19Q			09	1							1
19R			10	1							1
19S			11	1							1
19T			12	1							1
19U			13	1							1
19V			14	1							1
19W			15	1							1
REP-2			16	1							1
"PASSED RAD SCREEN"											

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers

14

Relinquished by: <u>[Signature]</u>	Organization: <u>ARCADIS GTM</u>	Date: <u>7/13/01</u>	Time: <u>12:00</u>	Seal Intact?
Received by: <u>[Signature]</u>	Organization: <u>STL-CT</u>	Date: <u>7/13/01</u>	Time: <u>14:45</u>	Yes No N/A
Relinquished by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Seal Intact?
Received by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Yes No N/A

Special Instructions/Remarks: REPORT TO BILL HOLUBOWICZ + PLEASE USE THIS SAMPLE FOR AN MS/MSO/DAGC SAMPLE
(RESULTS MUST BE AT CLOSURE PERFORMANCE STANDARDS!!!)

Delivery Method: In Person Common Carrier Lab Courier Other

Project Number/Name NY 001227.0017.00001

Project Location LAKE SUCCESS NY

Laboratory SEWER-TREAT SECTION

Project Manager BELL HOLUBOWICZ

Sampler(s)/Affiliation G. WILSON

ANALYSIS / METHOD / SIZE

7001-1820B

05°C

802 JTM
H5 Se 6010
802 JTM 6010
ABC H5 Se 20
802 JTM 6010
AS C Se 20

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Remarks	Total
8 F	S	7-12-01	17	1																				1	
8 G			18	1																				1	
8 H			19		1																			1	
8 I			20			1																		1	
8 J							1																	1	
"PASSED RAD SCREEN"																									

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 5

Relinquished by: <u>[Signature]</u>	Organization: <u>ARCADIS GYM</u>	Date: <u>7/13/01</u>	Time: _____	Seal Intact?
Received by: <u>[Signature]</u>	Organization: <u>STL-CT</u>	Date: <u>7/13/01</u>	Time: <u>14:45</u>	Yes No N/A
Relinquished by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Seal Intact?
Received by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Yes No N/A

Special Instructions/Remarks: REPORT TO BELL HOLUBOWICZ
REPORTS MUST BE AT CLOSURE PERFORMANCE STANDARDS !!!

Delivery Method: In Person Common Carrier Lab Courier Other

0014

SAMPLE RECEIPT CHECKLIST

STL CT Job No. 7001-1820B

Date Received: 7/13/01

Client: G & Miller

Project: N4001227-0017-00001

A. Preliminary Examination

Cooler opened by: D. Roy Robinson

Signature: DR

1. Did cooler(s) come with a shipping airbill?..... Yes No N/A

Name of courier and/or airbill no. Client

2. Were custody seals on outside of cooler(s)?..... Yes No N/A

3. Were custody seals tamper evident?..... Yes No N/A

Seal Date _____

4. Were custody seals intact upon arrival to lab?..... Yes No N/A

5. Were samples screened for radioactivity and COC stamped?..... Yes No N/A

6. Were COCs included, filled out properly in ink, and signed in the field?... Yes No N/A

7. Were COCs signed and dated properly upon lab receipt?..... Yes No N/A

8. If required, did cooler(s) show evidence of cooling?..... Yes No N/A

Type of coolant used: Loose ice Bagged ice Ice packs Other: _____

Temperature of cooler(s) on receipt: 06°C

Source of temperature reading (check one) Temp blank Sample

9. If necessary, was the lab notified of any short holding times?..... Yes No N/A

10. Initial and date this form to acknowledge receipt of cooler(s): (initials) DR (Date) 7/13/01

B. Log-in Date of login: 7/13/01

Logged in by: D. Roy Robinson Signature: DR

10. Describe type of packing in cooler(s): Bubble wrap Vermiculite Other _____

12. Did all bottles arrive intact with legible labels in good condition?..... Yes No N/A

13. Was all required bottle label information complete?..... Yes No N/A

14. Did all bottle labels agree with COCs?..... Yes No N/A

15. Were samples checked for residual chlorine and correct preservatives? Yes No N/A

Was Preservative Log filled out Yes No N/A

16. Was enough volume submitted for the indicated tests?..... Yes No N/A

17. Were bubbles present in any VOA vials?..... Yes No N/A

If yes, list by sample number _____

18. If necessary, has CAR been issued to QA manager?..... Yes No N/A

**Severn T - Connecticut
Internal Chain-of-Custody**

Client: A & Miller

STL Job #: 7001-1820B

Trip Blank:

Date Received: 7/13/01

QC: 08

Sample #s: 01-20

Project #: N4001227.0017.00001

Locations: B7

Laboratory Sample #	Relinquished by	Accepted by	Date	Time	Reason	Relinquished by	Accepted by	Date	Time
1-20	ML	KW	7/19	8:45	mHs	KW	ML	7/19	14:00
3-19	ML	GB	7/24	1000	Hg	GB	ML	7/25	1000

0016

Number 1820B Sample Numbers 01-20

WATER - **SOIL** - SLUDGE - EPTOX/TCLP

I confirm that I have performed the preparation below following SOP guidelines and authorize the release of this preparation:

Sample Prep _____
Kathie Wilczak 7/19/01 ICP/FLME

Chemist Date(s) FURN
MERCURY

I confirm that I have performed the analysis below following SOP guidelines and authorize the release of all associated data:

Analysis _____
Walter Peterson 7/26/01 ICP

Chemist Date(s) FLAME
FURN
MERCURY

I have reviewed and authorize the release of this job:

Complete _____
Car Supervisor 07/30/01
Date

Batch Assignment _____

Other Laboratory Locations:

- 149 Ringway Road, North Billerica MA 01867
- 14203 Park Road, Suite 110, Houston TX 77064
- 120 Southwater Court, Suite 300, Morrisville NC 27560
- 315 Fulton Avenue, Pittsburgh PA 15250
- 11 East Olive Road, Pensacola FL 32514
- Westfield Executive Park, 53 Southampton Road, Westfield MA 01095

Number 011820 B. Sample Numbers 03-19

WATER SOIL SLUDGE - EPTOX/TCLP

I confirm that I have performed the preparation below following SOP guidelines and authorize the release of this preparation:

Sample Prep _____
_____ ICP/FLME
_____ FURN
_____ MERCURY
Erndt Bao 07-24-01
Chemist Date(s)

I confirm that I have performed the analysis below following SOP guidelines and authorize the release of all associated data:

Analysis _____ ICP
_____ FLAME
_____ FURN
_____ MERCURY
Erndt Bao 07-24-01
Chemist Date(s)

I have reviewed and authorize the release of this job:

Complete _____ Col C 07/20/01
Supervisor Date

Batch Assignment _____

Other Laboratory Locations:

- 149 Rensselaer Road, North Attleboro MA 01962
- 16709 Park Road, Suite 110, Houston TX 77064
- 170 Southpointe C, Suite 300, Morrisville NC 27560
- 115 Fulton Avenue, Haverhill NY 12550
- 11 East Olive Road, Pensacola FL 32514
- 11000 Cambridge Park, NJ Southampton Road, Middlesex NJ 08855

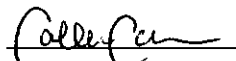
a part of
Scan from Series by

IEA / CT
LABORATORY CHRONICLESAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSIS

JOB #: 7001-1820B

SAMPLE ID	MATRIX	LIST REQUESTED	DATE RECEIVED	DATE DIGESTED	DATE ANALYZED
26E	SOIL	AS-NSW846	07/13/01	07/19/01	07/26/01
26F	SOIL	AS-NSW846	07/13/01		
19K	SOIL	AS-NSW846	07/13/01		
19K	SOIL	CU-NSW846	07/13/01		
19K	SOIL	HG-NSW846	07/13/01		
19K	SOIL	SE-NSW846	07/13/01		
19K	SOIL	ZN-NSW846	07/13/01		
19L	SOIL	AS-NSW846	07/13/01		
19L	SOIL	CU-NSW846	07/13/01		
19L	SOIL	HG-NSW846	07/13/01		
19L	SOIL	SE-NSW846	07/13/01		
19L	SOIL	ZN-NSW846	07/13/01		
19M	SOIL	AS-NSW846	07/13/01		
19M	SOIL	CU-NSW846	07/13/01		
19M	SOIL	HG-NSW846	07/13/01		
19M	SOIL	SE-NSW846	07/13/01		
19M	SOIL	ZN-NSW846	07/13/01		
19N	SOIL	AS-NSW846	07/13/01		
19N	SOIL	CU-NSW846	07/13/01		
19N	SOIL	HG-NSW846	07/13/01		
19N	SOIL	SE-NSW846	07/13/01		
19N	SOIL	ZN-NSW846	07/13/01		

Section Supervisor (signature)



QC Supervisor (signature)

Review & Approval (printed name)

Colleen Corliss

Review & Approval (printed name)

(Date)

07/30/01

(Date)

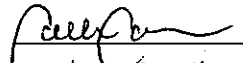
//_

IEA / CT
LABORATORY CHRONICLESAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSIS

JOB #: 7001-1820B

SAMPLE ID	MATRIX	LIST REQUESTED	DATE RECEIVED	DATE DIGESTED	DATE ANALYZED
190	SOIL	AS-NSW846	07/13/01	07/19/01	07/26/01
190	SOIL	CU-NSW846	07/13/01		
190	SOIL	HG-NSW846	07/13/01		
190	SOIL	SE-NSW846	07/13/01		
190	SOIL	ZN-NSW846	07/13/01		
19P	SOIL	AS-NSW846	07/13/01		
19P	SOIL	CU-NSW846	07/13/01		
19P	SOIL	HG-NSW846	07/13/01		
19P	SOIL	SE-NSW846	07/13/01		
19P	SOIL	ZN-NSW846	07/13/01		
19Q	SOIL	AS-NSW846	07/13/01		
19Q	SOIL	CU-NSW846	07/13/01		
19Q	SOIL	HG-NSW846	07/13/01		
19Q	SOIL	SE-NSW846	07/13/01		
19Q	SOIL	ZN-NSW846	07/13/01		
19R	SOIL	AS-NSW846	07/13/01		
19R	SOIL	CU-NSW846	07/13/01		
19R	SOIL	HG-NSW846	07/13/01		
19R	SOIL	SE-NSW846	07/13/01		
19R	SOIL	ZN-NSW846	07/13/01		
19S	SOIL	AS-NSW846	07/13/01		
19S	SOIL	CU-NSW846	07/13/01		

Section Supervisor (signature)



QC Supervisor (signature)

Review & Approval (printed name)



Review & Approval (printed name)

(Date) 07/30/01

(Date) ___/___/___

IEA / CT
LABORATORY CHRONICLE

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSIS

JOB #: 7001-1820B

SAMPLE ID	MATRIX	LIST REQUESTED	DATE RECEIVED	DATE DIGESTED	DATE ANALYZED
19S	SOIL	HG-NSW846	07/13/01	07/19/01	07/26/01
19S	SOIL	SE-NSW846	07/13/01		
19S	SOIL	ZN-NSW846	07/13/01		
19T	SOIL	AS-NSW846	07/13/01		
19T	SOIL	CU-NSW846	07/13/01		
19T	SOIL	HG-NSW846	07/13/01		
19T	SOIL	SE-NSW846	07/13/01		
19T	SOIL	ZN-NSW846	07/13/01		
19U	SOIL	AS-NSW846	07/13/01		
U	SOIL	CU-NSW846	07/13/01		
19U	SOIL	HG-NSW846	07/13/01		
19U	SOIL	SE-NSW846	07/13/01		
19U	SOIL	ZN-NSW846	07/13/01		
19V	SOIL	AS-NSW846	07/13/01		
19V	SOIL	CU-NSW846	07/13/01		
19V	SOIL	HG-NSW846	07/13/01		
19V	SOIL	SE-NSW846	07/13/01		
19V	SOIL	ZN-NSW846	07/13/01		
19W	SOIL	AS-NSW846	07/13/01		
19W	SOIL	CU-NSW846	07/13/01		
19W	SOIL	HG-NSW846	07/13/01		
19W	SOIL	SE-NSW846	07/13/01		

Section Supervisor (signature) *[Signature]*

QC Supervisor (signature) _____

Review & Approval (printed name) *Catherine Welch*

Review & Approval (printed name) _____

(Date) / /

(Date) / /

IEA / CT
LABORATORY CHRONICLE

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSIS

JOB #: 7001-1820B

SAMPLE ID	MATRIX	LIST REQUESTED	DATE RECEIVED	DATE DIGESTED	DATE ANALYZED
19W	SOIL	ZN-NSW846	07/13/01	07/19/01	07/26/01
REP-2	SOIL	AS-NSW846	07/13/01	↓	↓
REP-2	SOIL	CU-NSW846	07/13/01		
REP-2	SOIL	HG-NSW846	07/13/01		
REP-2	SOIL	SE-NSW846	07/13/01		
REP-2	SOIL	ZN-NSW846	07/13/01		
8F	SOIL	HG-NSW846	07/13/01		
8F	SOIL	SE-NSW846	07/13/01		
8G	SOIL	HG-NSW846	07/13/01		
8G	SOIL	SE-NSW846	07/13/01		
8H	SOIL	AS-NSW846	07/13/01		
8H	SOIL	CR-NSW846	07/13/01		
8H	SOIL	HG-NSW846	07/13/01		
8H	SOIL	SE-NSW846	07/13/01		
8H	SOIL	ZN-NSW846	07/13/01		
8I	SOIL	AS-NSW846	07/13/01		
8I	SOIL	CR-NSW846	07/13/01		
8I	SOIL	SE-NSW846	07/13/01		
8I	SOIL	ZN-NSW846	07/13/01		

Section Supervisor (signature) [Signature]

QC Supervisor (signature) _____

Review & Approval (printed name) Catherine Coyle

Review & Approval (printed name) _____

(Date) 07/30/01

(Date) ___/___/___

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: 1820BSAS No.: _____ SDG No.: B1820SOW No.: ILM04.0

Field Sample ID	Lab Sample ID.
<u>26E</u>	<u>011820B-01</u>
<u>26F</u>	<u>011820B-02</u>
<u>19K</u>	<u>011820B-03</u>
<u>19L</u>	<u>011820B-04</u>
<u>19M</u>	<u>011820B-05</u>
<u>19N</u>	<u>011820B-06</u>
<u>19O</u>	<u>011820B-07</u>
<u>19PD</u>	<u>011820B-08D</u>
<u>19PS</u>	<u>011820B-08S</u>
<u>19P</u>	<u>011820B-08</u>
<u>19Q</u>	<u>011820B-09</u>
<u>19R</u>	<u>011820B-10</u>
<u>19S</u>	<u>011820B-11</u>
<u>19T</u>	<u>011820B-12</u>
<u>19U</u>	<u>011820B-13</u>
<u>19V</u>	<u>011820B-14</u>
<u>19W</u>	<u>011820B-15</u>
<u>REP-2</u>	<u>011820B-16</u>
<u>8F</u>	<u>011820B-17</u>
<u>8G</u>	<u>011820B-18</u>

Were ICP interelement corrections applied?

Yes/No YES

Were ICP background corrections applied?

Yes/No YES

If yes-were raw data generated before
application of background corrections?

Yes/No NO

Comments:

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

Signature: Name: C. L. CoakleyDate: 07/30/01

Title: _____

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: 1820B

SAS No.: _____ SDG No.: B1820

SOW No.: ILM04.0

Field Sample ID

Lab Sample ID.

8H
8I

011820B-19
011820B-20

Were ICP interelement corrections applied?

Yes/No YES

Were ICP background corrections applied?


Yes/No YES

If yes-were raw data generated before application of background corrections?

Yes/No NO

Comments:

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

Signature: 

Name: Colleen Costello

Date: 01/30/01

Title: _____

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

26E

Lab Name: STL

Contract: _____

Lab Code: STL

Case No.: 1820B

SAS No.: _____

SDG No.: B1820

Matrix (soil/water): SOIL

Lab Sample ID: 011820B-01

Level (low/med): LOW

Date Received: 07/13/01

% Solids: 86.6

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	9.3			P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: ORANGE

Clarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

26F

Lab Name: STL Contract: _____
 Lab Code: STL Case No.: 1820B SAS No.: _____ SDG No.: B1820
 Matrix (soil/water): SOIL Lab Sample ID: 011820B-02
 Level (low/med): LOW Date Received: 07/13/01
 % Solids: 94.7

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	4.5	B		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: BROWN Clarity Before: OPAQUE Texture: _____
 Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

19K

Lab Name: STL

Contract: _____

Lab Code: STL

Case No.: 1820B

SAS No.: _____

SDG No.: B1820

Matrix (soil/water): SOIL

Lab Sample ID: 011820B-03

Level (low/med): LOW

Date Received: 07/13/01

% Solids: 95

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.1	B		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper	11.7			P
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.019		U*	CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.90	U		P
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	18.4			P
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

19L

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: 1820B

SAS No.: _____

SDG No.: B1820

Matrix (soil/water): SOIL

Lab Sample ID: 011820B-04

Level (low/med): LOW

Date Received: 07/13/01

% Solids: 96.3

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.1	B		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper	9.8			P
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.016		V*	CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.77	U		P
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	19.7			P
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

19M

Lab Name: STL

Contract: _____

Lab Code: STL

Case No.: 1820B

SAS No.: _____

SDG No.: B1820

Matrix (soil/water): SOIL

Lab Sample ID: 011820B-05

Level (low/med): LOW

Date Received: 07/13/01

% Solids: 95.7

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.0	B		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper	39.9			P
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.033		U*	CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.87	U		P
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	155.			P
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

19N

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: 1820B

SAS No.: _____

SDG No.: B1820

Matrix (soil/water): SOIL

Lab Sample ID: 011820B-06

Level (low/med): LOW

Date Received: 07/13/01

% Solids: 90.3

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	9.0			P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-0	Cadmium				NR
7440-70-1	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper	21.0			P
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.42		*	CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	1.0	U		P
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	37.0			P
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

190

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: 1820B

SAS No.: _____ SDG No.: B1820

Matrix (soil/water): SOIL

Lab Sample ID: 011820B-07

Level (low/med): LOW

Date Received: 07/13/01

% Solids: 88

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	30.2			P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper	445.			P
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.59		*	CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.91	U		P
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	93.1			P
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

19P

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: 1820B

SAS No.: _____

SDG No.: B1820

Matrix (soil/water): SOIL

Lab Sample ID: 011820B-08

Level (low/med): LOW

Date Received: 07/13/01

% Solids: 90.3

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	14.8			P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper	154.			P
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.36		*	CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.91	U		P
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	94.0			P
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

19Q

Lab Name: STL

Contract: _____

Lab Code: STL

Case No.: 1820B

SAS No.: _____

SDG No.: B1820

Matrix (soil/water): SOIL

Lab Sample ID: 011820B-09

Level (low/med): LOW

Date Received: 07/13/01

% Solids: 85.7

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	11.8			P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper	31.2			P
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.32		*	CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.76	U		P
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	39.4			P
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

19R

Lab Name: STL

Contract: _____

Lab Code: STL

Case No.: 1820B

SAS No.: _____

SDG No.: B1820

Matrix (soil/water): SOIL

Lab Sample ID: 011820B-10

Level (low/med): LOW

Date Received: 07/13/01

% Solids: 96

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	17.8			P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper	99.1			P
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.71		*	CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.86	U		P
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	46.9			P
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

19S

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: 1820B

SAS No.: _____

SDG No.: B1820

Matrix (soil/water): SOIL

Lab Sample ID: 011820B-11

Level (low/med): LOW

Date Received: 07/13/01

% Solids: 95.6

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	4.6	B		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper	27.9			P
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.17		*	CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.82	U		P
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	83.8			P
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

19T

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: 1820B

SAS No.: _____

SDG No.: B1820

Matrix (soil/water): SOIL

Lab Sample ID: 011820B-12

Level (low/med): LOW

Date Received: 07/13/01

% Solids: 93.6

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	7.1			P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper	116.			P
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.11		*	CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.83	U		P
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	245.			P
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

19U

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: 1820B

SAS No.: _____

SDG No.: B1820

Matrix (soil/water): SOIL

Lab Sample ID: 011820B-13

Level (low/med): LOW

Date Received: 07/13/01

% Solids: 97.8

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	5.1	B		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper	8.8			P
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.0076		U *	CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.86	U		P
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	12.8	B		P
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

19V

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: 1820B

SAS No.: _____

SDG No.: B1820

Matrix (soil/water): SOIL

Lab Sample ID: 011820B-14

Level (low/med): LOW

Date Received: 07/13/01

% Solids: 92

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	11.8			P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-0	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper	1990			P
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	19.4		*	CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.91	U		P
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	949.			P
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

19W

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: 1820B

SAS No.: _____ SDG No.: B1820

Matrix (soil/water): SOIL

Lab Sample ID: 011820B-15

Level (low/med): LOW

Date Received: 07/13/01

% Solids: 88.2

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	15.6			P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper	27.6			P
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.69		*	CV
7440-02-0	Nickel				NR
7440-00-7	Potassium				NR
7782-49-2	Selenium	0.77	U		P
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	53.7			P
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

REP-2

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: 1820B

SAS No.: _____

SDG No.: B1820

Matrix (soil/water): SOIL

Lab Sample ID: 011820B-16

Level (low/med): LOW

Date Received: 07/13/01

% Solids: 95.5

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.8	B		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper	11.9			P
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.019		U*	CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.84	U		P
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	19.1			P
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

8F

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: 1820B

SAS No.: _____

SDG No.: B1820

Matrix (soil/water): SOIL

Lab Sample ID: 011820B-17

Level (low/med): LOW

Date Received: 07/13/01

% Solids: 86.7

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.16		*	CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.98	U		P
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

8G

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: 1820B

SAS No.: _____

SDG No.: B1820

Matrix (soil/water): SOIL

Lab Sample ID: 011820B-18

Level (low/med): LOW

Date Received: 07/13/01

% Solids: 93.8

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.59		*	CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.90	U		P
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

8H

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: 1820B

SAS No.: _____ SDG No.: B1820

Matrix (soil/water): SOIL

Lab Sample ID: 011820B-19

Level (low/med): LOW

Date Received: 07/13/01

% Solids: 88.6

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	26.1			P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	18.9			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.69		*	CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	1.0	U		P
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	111.			P
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

8I

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: 1820B

SAS No.: _____ SDG No.: B1820

Matrix (soil/water): SOIL

Lab Sample ID: 011820B-20

Level (low/med): LOW

Date Received: 07/13/01

% Solids: 88.3

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	24.6			P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	50.3			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	1.0	U		P
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	123.			P
57-12-5	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture: _____

Color After: YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL Contract: _____
 Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: B1820
 Initial Calibration Source: INORG. VENT.
 Continuing Calibration Source: INORG. VENT.

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony									NR
Arsenic	1000.0	987.94	98.8	500.0	498.82	99.8	504.67	100.9	P
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Cesium	1000.0	981.21	98.1	500.0	491.65	98.3	494.43	98.9	P
Cobalt									NR
Copper	1000.0	972.43	97.2	500.0	485.17	97.0	488.97	97.8	P
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury	5.0	5.05	101.0	5.0	5.16	103.2	5.31	106.2	CV
Nickel									NR
Potassium									NR
Selenium	1000.0	1018.49	101.8	500.0	517.03	103.4	523.15	104.6	P
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc	1000.0	1000.53	100.0	500.0	503.55	100.7	507.78	101.6	P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110 ; Cyanide 85-115;

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____SAS No.: _____ SDG No.: B1820Initial Calibration Source: INORG. VENT.Continuing Calibration Source: INORG. VENT.

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				M	
	True	Found	%R(1)	True	Found	%R(1)	Found		%R(1)
Aluminum									NR
Antimony									NR
Arsenic				500.0	508.56	101.7	515.48	103.1	P
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium				500.0	491.71	98.3	498.75	99.8	P
Cobalt									NR
Copper				500.0	488.05	97.6	492.51	98.5	P
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury				5.0	5.37	107.4	5.22	104.4	CV
Nickel									NR
Potassium									NR
Selenium				500.0	525.73	105.1	535.39	107.1	P
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc				500.0	505.79	101.2	516.10	103.2	P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110 ; Cyanide 85-115;

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____SAS No.: _____ SDG No.: B1820Initial Calibration Source: INORG. VENT.Continuing Calibration Source: INORG. VENT.

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				M	
	True	Found	%R(1)	True	Found	%R(1)	Found		%R(1)
Aluminum									NR
Antimony									NR
Arsenic				500.0	511.49	102.3	519.99	104.0	P
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium				500.0	498.26	99.6	502.61	100.5	P
Cobalt									NR
Copper				500.0	490.88	98.2	492.04	98.4	P
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury				5.0	5.04	100.8	4.37	87.4	CV
Nickel									NR
Potassium									NR
Selenium				500.0	535.78	107.2	539.58	107.9	P
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc				500.0	514.46	102.9	520.62	104.1	P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110 ; Cyanide 85-115;

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL Contract: _____
 Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: B1820
 Initial Calibration Source: INORG. VENT.
 Continuing Calibration Source: INORG. VENT.

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony									NR
Arsenic				500.0	510.52	102.1			P
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium				500.0	496.04	99.2			P
Cobalt									NR
Copper				500.0	485.88	97.2			P
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury				5.0	4.22	84.4			CV
Nickel									NR
Potassium									NR
Selenium				500.0	531.05	106.2			P
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc				500.0	511.48	102.3			P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110 ; Cyanide 85-115;

U.S. EPA - CLP

2B

CRDL STANDARD FOR AA AND ICP

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____SAS No.: _____ SDG No.: B1820AA CRDL Standard Source: INORG. VENT.ICP CRDL Standard Source: INORG. VENT.

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R(1)	True	Initial Found	%R(1)	Final Found	%R(1)
Aluminum								
Antimony								
Arsenic				8.2	21.02	256.4	23.25	283.6
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium				20.0	20.09	100.5	20.83	104.2
Cobalt								
Copper				50.0	49.98	100.0	50.34	100.7
Iron								
Lead								
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium				9.2	8.33	90.6	9.70	105.5
Silver								
Sodium								
Thallium								
Vanadium								
Zinc				60.0	40.01	66.7	41.98	70.0
Cyanide								

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3
BLANKSLab Name: STL

Contract: _____

Lab Code: STL Case No.: _____SAS No.: _____ SDG No.: B1820Preparation Blank Matrix (soil/water): SOILPreparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calibration Blank (ug/L)	Continuing Calibration Blank (ug/L)						Prepa- ration Blank	C	M
		1	C	2	C	3	C			
Aluminum									NR	
Antimony									NR	
Arsenic	4.1U	4.1U		4.1U		4.1U		0.804U	P	
Barium									NR	
Beryllium									NR	
Bismuth									NR	
Calcium									NR	
Chromium	1.0U	1.0U		1.0U		1.0U		0.196U	P	
Cobalt									NR	
Copper	1.8U	1.8U		1.8U		1.8U		0.353U	P	
Iron									NR	
Lead									NR	
Magnesium									NR	
Manganese									NR	
Mercury	0.1U	0.1U		0.1U		0.1U		0.001U	CV	
Nickel									NR	
Potassium									NR	
Selenium	4.6U	4.6U		4.6U		4.6U		0.902U	P	
Silver									NR	
Sodium									NR	
Thallium									NR	
Vanadium									NR	
Zinc	4.4U	4.4U		4.4U		4.4U		1.886U	P	
Cyanide									NR	

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3
BLANKSLab Name: STL

Contract: _____

Lab Code: STL Case No.: _____SAS No.: _____ SDG No.: B1820Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calibration Blank (ug/L)	Continuing Calibration Blank (ug/L)						Prepa- ration Blank	C	M
		1	C	2	C	3	C			
Aluminum									NR	
Antimony									NR	
Arsenic		4.1U		4.1U		4.1U			P	
Barium									NR	
Beryllium									NR	
Cadmium									NR	
Calcium									NR	
Chromium		1.0U		1.0U		1.0U			P	
Cobalt									NR	
Copper		1.8U		1.8U		1.8U			P	
Iron									NR	
Lead									NR	
Magnesium									NR	
Manganese									NR	
Mercury		0.1U		0.1U		0.1U			CV	
Nickel									NR	
Potassium									NR	
Selenium		4.6U		4.6U		4.6U			P	
Silver									NR	
Sodium									NR	
Thallium									NR	
Vanadium									NR	
Zinc		4.4U		4.4U		4.4U			P	
Cyanide									NR	

U.S. EPA - CLP

3
BLANKSLab Name: STL

Contract: _____

Lab Code: STL Case No.: _____SAS No.: _____ SDG No.: B1820Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calibration Blank (ug/L)	Continuing Calibration Blank (ug/L)						Prepa- ration Blank	C	M
		1	C	2	C	3	C			
Aluminum									NR	
Antimony									NR	
Arsenic		4.10							P	
Barium									NR	
Beryllium									NR	
Bismuth									NR	
Calcium									NR	
Chromium		1.00							P	
Cobalt									NR	
Copper		1.80							P	
Iron									NR	
Lead									NR	
Magnesium									NR	
Manganese									NR	
Mercury		0.10							CV	
Nickel									NR	
Potassium									NR	
Selenium		4.60							P	
Silver									NR	
Sodium									NR	
Thallium									NR	
Vanadium									NR	
Zinc		4.40							P	
Cyanide									NR	

U.S. EPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____SAS No.: _____ SDG No.: B1820ID Number: JA61ICS Source: EPA-LV87

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	500000							
Antimony								
Arsenic		100	4	105.9	105.9	6	104.2	104.2
Barium								
Beryllium								
Cadmium								
Calcium	500000							
Chromium		500	1	449.3	89.8	1	456.5	91.3
Cobalt								
Copper		500	1	500.4	100.0	0	502.7	100.5
Iron	200000							
Lead								
Magnesium	500000							
Manganese								
Mercury								
Nickel								
Potassium								
Selenium		50	-11	40.1	80.3	-7	43.8	87.6
Silver								
Sodium								
Thallium								
Vanadium								
Zinc		1000	-7	885.4	88.5	-8	905.3	90.5
Cyanide								

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

19PS

Lab Name: STL

Contract: _____

Lab Code: STL

Case No.: 1820B

SAS No.: _____

SDG No.: B1820

Matrix: SOIL

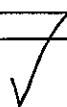
Level (low/med): LOW

% Solids for Sample: 90.34

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Aluminum							NR
Antimony							NR
Arsenic	75-125	21.9450	14.7856	8.05	88.9		P
Barium							NR
Beryllium							NR
Cadmium							NR
Calcium							NR
Chromium							NR
Cobalt							NR
Copper	75-125	184.2864	153.8575	50.31	60.5		P
Iron							NR
Lead							NR
Magnesium							NR
Manganese							NR
Mercury		0.5494	0.3598	0.04	466.0		CV
Nickel							NR
Potassium							NR
Selenium	75-125	2.2894	0.9093	2.01	113.8		P
Silver							NR
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc	75-125	190.6070	93.9972	100.63	96.0		P
Cyanide							NR

Comments:



6
DUPLICATES

EPA SAMPLE NO.

19PD

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: 1820B

SAS No.: _____

SDG No.: B1820

Matrix: SOIL

Level (low/med): LOW

% Solids for Sample: 90.34

% Solids for Duplicate: 90.34

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic	1.2	14.7856		14.5975		1.3		P
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
Cobalt								NR
Copper		153.8575		167.0061		8.2		P
Iron								NR
Lead								NR
Magnesium								NR
Manganese								NR
Mercury		0.3598		0.6064		(51.0) *		CV
Nickel								NR
Potassium								NR
Selenium		0.9093	U	0.9343	U			P
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc		93.9972		99.6450		5.8		P
Cyanide								NR



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7

LABORATORY CONTROL SAMPLE

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____SAS No.: _____ SDG No.: B1820Solid LCS Source: INORG. VENT.

Aqueous LCS Source: _____

Analyte	Aqueous (ug/L)			Solid (mg/kg)					
	True	Found	%R	True	Found	C	Limits	%R	
Aluminum									
Antimony									
Arsenic				136.0	145.2		101.0	171.0	106.8
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium				89.3	93.0		71.3	107.0	104.2
Cobalt									
Copper				117.0	125.0		95.7	138.0	106.9
Iron									
Lead									
Magnesium									
Manganese									
Mercury				2.4	2.6		1.6	3.2	105.1
Nickel									
Potassium									
Selenium				87.6	103.9		64.9	110.0	118.6
Silver									
Sodium									
Thallium									
Vanadium									
Zinc				66.0	61.6		42.9	89.1	93.5
Cyanide									

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8
STANDARD ADDITION RESULTS

Lab Name: STL _____ Contract: _____
Lab Code: STL _____ Case No.: _____ SAS No.: _____ SDG No.: B1820

Concentration Units: ug/L

EPA Sample No.	An	0 ADD ABS	1 ADD CON ABS	2 ADD CON ABS	3 ADD CON ABS	Final Conc.	r	Q

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9
ICP SERIAL DILUTIONS

EPA SAMPLE NO.

19PL

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: 1820B

SAS No.: _____

SDG No.: B1820Matrix(soil/water): SOILLevel (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ- ence	Q	M
Aluminum							NR
Antimony							NR
Arsenic	74.80						P
Barium							NR
Beryllium							NR
Cadmium							NR
Calcium							NR
Chromium							NR
Cobalt							NR
Copper	778.37		784.31		0.8		P
Iron							NR
Lead							NR
Magnesium							NR
Manganese							NR
Mercury							NR
Nickel							NR
Potassium							NR
Selenium	4.60	U	23.00	U			P
Silver							NR
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc	475.54		543.98		14.4		P
Cyanide							NR

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10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____SAS No.: _____ SDG No.: B1820ICP ID Number: JA61Date: 04/17/01

Flame AA ID Number: _____

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum					
Antimony					
Arsenic	193.60		10.0	4.1	P
Barium					
Beryllium					
Cadmium					
Calcium					
Chromium	267.70		10.0	1.0	P
Cobalt					
Copper	324.75		25.0	1.8	P
Iron					
Lead					
Magnesium					
Manganese					
Mercury			.2		
Nickel					
Potassium					
Selenium	196.02		5.0	4.6	P
Silver					
Sodium					
Thallium					
Vanadium					
Zinc	213.85		30.0	4.4	P

Comments:

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10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____SAS No.: _____ SDG No.: B1820

ICP ID Number: _____

Date: 04/17/01Flame AA ID Number: HG4

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum					
Antimony					
Arsenic			10.0		
Barium					
Beryllium					
Cadmium					
Calcium					
Chromium			10.0		
Cobalt					
Copper			25.0		
Iron					
Lead					
Magnesium					
Manganese					
Mercury	253.70		.2	.1CV	
Nickel					
Potassium					
Selenium			5.0		
Silver					
Sodium					
Thallium					
Vanadium					
Zinc			30.0		

Comments:

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11A

ICP Interelement correction Factors (Annually)

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____SAS No.: _____ SDG No.: B1820ICP ID Number: JA61Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		Al	Ca	Fe	Mg	Ag
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium	267.70	.0018652		-.0011680	-3.0940000	0.0000000
Cobalt						
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	-.4786330
Iron						
Lead						
Magnesium						
Manganese						
Mercury						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Thallium						
Vanadium						
Zinc	213.85	.0009443	8.7485000	0.0000000	0.0000000	0.0000000

Comments:

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____

SAS No.: _____ SDG No.: B1820

ICP ID Number: JA61

Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		As	Au	B	Ba	Be
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium	267.70	-6.3830600		0.0000000	0.0000000	0.0000000
Cobalt						
Copper	324.75	0.0000000		-14.5688000	0.0000000	0.0000000
Iron						
Lead						
Magnesium						
Manganese						
Mercury						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Thallium						
Vanadium						
Zinc	213.85	-1.3146900		0.0000000	0.0000000	0.0000000

Comments:

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11B

ICP Interelement correction Factors (Annually)

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____SAS No.: _____ SDG No.: B1820ICP ID Number: JA61Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		Cd	Co	Cr	Cu	K
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium	267.70	0.0000000	1.2502400	0.0000000	0.0000000	0.0000000
Cobalt						
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron						
Lead						
Magnesium						
Manganese						
Mercury						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Thallium						
Vanadium						
Zinc	213.85	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____

SAS No.: _____ SDG No.: B1820

ICP ID Number: JA61

Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		Li	Mn	Mo	Na	Ni
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium	267.70		-.0417720	1.5194300	0.0000000	.4416338
Cobalt						
Copper	324.75		0.0000000	0.0000000	0.0000000	0.0000000
Iron						
Lead						
Magnesium						
Manganese						
Mercury						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Thallium						
Vanadium						
Zinc	213.85		0.0000000	0.0000000	0.0000000	0.0000000

Comments:

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____

SAS No.: _____ SDG No.: B1820

ICP ID Number: JA61

Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		Si	Sn	Ti	Tl	V
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium	267.70		.2208577	.9567213	4.5557730	1.2170310
Cobalt						
Copper	324.75		0.0000000	0.0000000	0.0000000	0.0000000
Iron						
Lead						
Magnesium						
Manganese						
Mercury						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Thallium						
Vanadium						
Zinc	213.85		0.0000000	0.0000000	0.0000000	0.0000000

Comments:

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____

SAS No.: _____ SDG No.: B1820

ICP ID Number: JA61

Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		Pb	Pd	Pt	Sb	Se
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium	267.70	-.1202820			7.7030790	0.0000000
Cobalt						
Copper	324.75	-3.6280800			0.0000000	.0519865
Iron						
Lead						
magnesium						
Manganese						
Mercury						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Thallium						
Vanadium						
Zinc	213.85	0.0000000			-.6141440	.1325478

Comments:

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____

SAS No.: _____ SDG No.: B1820

ICP ID Number: JA61

Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for :			
		Zn	Zr		
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Cadmium					
Calcium					
Chromium	267.70	0.0000000	-.0096980		
Cobalt					
Copper	324.75	-1.9375200	0.0000000		
Iron					
Lead					
Magnesium					
Manganese					
Mercury					
Nickel					
Potassium					
Selenium					
Silver					
Sodium					
Thallium					
Vanadium					
Zinc	213.85	0.0000000	0.0000000		

Comments:

12
ICP Linear Ranges (Quarterly)

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____

SAS No.: _____ SDG No.: B1820

ICP ID Number: JA61

Date: 04/17/01

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum	6.00	500000.0	P
Antimony	6.00	10000.0	P
Arsenic	6.00	10000.0	P
Barium	6.00	10000.0	P
Beryllium	6.00	10000.0	P
Cadmium	6.00	10000.0	P
Calcium	6.00	200000.0	P
Chromium	6.00	200000.0	P
Cobalt	6.00	10000.0	P
Copper	6.00	100000.0	P
Iron	6.00	500000.0	P
Lead	6.00	500000.0	P
Magnesium	6.00	500000.0	P
Manganese	6.00	10000.0	P
Mercury			NR
Nickel	6.00	10000.0	P
Potassium	6.00	100000.0	P
Selenium	6.00	10000.0	P
Silver	6.00	10000.0	P
Sodium	6.00	500000.0	P
Thallium	6.00	100000.0	P
Vanadium	6.00	10000.0	P
Zinc	6.00	10000.0	P

Comments:

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13
PREPARATION LOG

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: 1820B

SAS No.: _____ SDG No.: B1820

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
011820B-01	07/19/01	1.06	200
011820B-02	07/19/01	1.07	200
011820B-03	07/19/01	1.08	200
011820B-04	07/19/01	1.24	200
011820B-05	07/19/01	1.10	200
011820B-06	07/19/01	1.02	200
011820B-07	07/19/01	1.15	200
011820B-08	07/19/01	1.12	200
011820B-08D	07/19/01	1.09	200
011820B-08S	07/19/01	1.10	200
011820B-09	07/19/01	1.41	200
011820B-10	07/19/01	1.11	200
011820B-11	07/19/01	1.17	200
011820B-12	07/19/01	1.18	200
011820B-13	07/19/01	1.10	200
011820B-14	07/19/01	1.10	200
011820B-15	07/19/01	1.35	200
011820B-16	07/19/01	1.14	200
011820B-17	07/19/01	1.08	200
011820B-18	07/19/01	1.09	200
011820B-19	07/19/01	1.02	200
011820B-20	07/19/01	1.04	200
LCSS1	07/19/01	1.00	200
PBS1	07/19/01	1.02	200

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13
PREPARATION LOGLab Name: STL

Contract: _____

Lab Code: STL Case No.: 1820BSAS No.: _____ SDG No.: B1820Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
011820A-04	07/24/01	.92	25
011820A-04D	07/24/01	.95	25
011820A-04S	07/24/01	.81	25
011820A-04SD	07/24/01	.95	25
011820A-05	07/24/01	.76	25
011820A-06	07/24/01	.89	25
011820A-15	07/24/01	.61	25
011820A-16	07/24/01	.71	25
011820A-17	07/24/01	.78	25
011820A-18	07/24/01	.75	25
011820A-19	07/24/01	.91	25
011820A-20	07/24/01	1.01	25
011820B-03	07/24/01	.75	25
011820B-04	07/24/01	.69	25
011820B-05	07/24/01	.90	25
011820B-06	07/24/01	.64	25
011820B-07	07/24/01	.81	25
011820B-08	07/24/01	.68	25
011820B-08D	07/24/01	.82	25
011820B-08S	07/24/01	.71	25
011820B-08SD	07/24/01	.73	25
011820B-09	07/24/01	.81	25
011820B-10	07/24/01	.60	25
011820B-11	07/24/01	1.03	25
011820B-12	07/24/01	.61	25
011820B-13	07/24/01	.88	25
011820B-14	07/24/01	.70	25
011820B-15	07/24/01	.78	25
011820B-16	07/24/01	.92	25
011820B-17	07/24/01	.74	25
011820B-18	07/24/01	.57	25
011820B-19	07/24/01	.69	25
LCSS1	07/24/01	.47	25

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13
PREPARATION LOG

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: 1820B

SAS No.: _____ SDG No.: B1820

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS2	07/24/01	.45	25
LCSS3	07/24/01	.45	25
PBS1	07/24/01	2.50	25
PBS2	07/24/01	2.50	25
PBS3	07/24/01	2.50	25

14
ANALYSIS RUN LOG

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____

SAS No.: _____ SDG No.: B1820

Instrument ID Number: JA61

Method: P

Start Date: 07/25/01

End Date: 07/25/01

EPA Sample No.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N
S1	1.00	1000				X					X	X								X						X	
S7	1.00	1005			X						X	X								X						X	
S8	1.00	1011			X						X	X								X						X	
S4	1.00	1017			X						X	X								X						X	
S9	1.00	1021																									
S6	1.00	1025																									
S5	1.00	1028																									
S3	1.00	1032																									
ICV1	1.00	1032			X						X	X								X						X	
ZZZZZ	1.00	1038																									
I	1.00	1044			X						X	X								X						X	
ZZZZZZ	1.00	1050																									
CRI1	1.00	1056			X						X	X								X						X	
ICSAI	1.00	1102			X						X	X								X						X	
ICSABI	1.00	1108			X						X	X								X						X	
CCV1	1.00	1114			X						X	X								X						X	
ZZZZZZ	1.00	1120																									
CCB1	1.00	1127			X						X	X								X						X	
ZZZZZZ	1.00	1133																									
ZZZZZZ	1.00	1140																									
ZZZZZZ	1.00	1146																									
ZZZZZZ	1.00	1152																									
ZZZZZZ	1.00	1158																									
ZZZZZZ	1.00	1204																									
ZZZZZZ	1.00	1210																									
ZZZZZZ	1.00	1216																									
ZZZZZZ	1.00	1222																									
ZZZZZZ	1.00	1228																									
CCV2	1.00	1234			X						X	X								X						X	
ZZZZZZ	1.00	1240																									
CCB2	1.00	1246			X						X	X								X						X	
ZZZZZZ	5.00	1252																									
ZZZZZZ	5.00	1258																									

U.S. EPA - CLP

14
ANALYSIS RUN LOG

0073

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____

SAS No.: _____ SDG No.: B1820

Instrument ID Number: JA61

Method: P

Start Date: 07/25/01

End Date: 07/25/01

EPA Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N T	T L	V	Z N	C N				
ZZZZZZ	25.0	1304																													
ZZZZZZ	5.00	1310																													
ZZZZZZ	5.00	1316																													
ZZZZZZ	25.0	1323																													
ZZZZZZ	1.00	1329																													
ZZZZZZ	1.00	1335																													
ZZZZZZ	1.00	1341																													
ZZZZZZ	5.00	1347																													
CCV3	1.00	1353			X					X	X								X							X					
CCV4	1.00	1359			X					X	X								X							X					
ZZZZZZ	1.00	1405																													
ZZZZZZ	1.00	1411																													
ZZZZZZ	5.00	1417																													
ZZZZZZ	1.00	1423																													
ZZZZZZ	1.00	1429																													
ZZZZZZ	1.00	1435																													
ZZZZZZ	1.00	1441																													
ZZZZZZ	1.00	1447																													
ZZZZZZ	1.00	1453																													
LCSS1	1.00	1459			X					X	X								X								X				
CCV4	1.00	1513			X					X	X								X								X				
CCB4	1.00	1519			X					X	X								X								X				
PBS1	1.00	1525			X					X	X								X								X				
011820B-01	1.00	1531			X																										
011820B-02	1.00	1537			X																										
011820B-03	1.00	1543			X						X								X								X				
011820B-04	1.00	1549			X						X								X								X				
011820B-05	1.00	1555			X						X								X								X				
011820B-06	1.00	1601			X						X								X								X				
011820B-07	1.00	1607			X						X								X								X				
011820B-08	1.00	1613			X						X								X								X				
011820B-08D	1.00	1620			X						X								X								X				
CCV5	1.00	1626			X					X	X								X								X				

14
ANALYSIS RUN LOG

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____

SAS No.: _____ SDG No.: B1820

Instrument ID Number: JA61

Method: P

Start Date: 07/25/01

End Date: 07/25/01

EPA Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N				
CCB5	1.00	1632				X					X	X								X							X				
011820B-08S	1.00	1638			X						X	X								X							X				
011820B-08A	1.00	1644																													
011820B-08L	5.00	1650										X								X							X				
011820B-09	1.00	1656			X							X								X							X				
011820B-10	1.00	1702			X							X								X							X				
011820B-11	1.00	1708			X							X								X							X				
011820B-12	1.00	1714			X							X								X							X				
011820B-13	1.00	1720			X							X								X							X				
011820B-14	1.00	1726			X							X								X							X				
011820B-15	1.00	1732			X							X								X							X				
CCV6	1.00	1738			X					X	X									X							X				
CCB6	1.00	1744			X					X	X									X							X				
011820B-16	1.00	1750			X						X									X							X				
011820B-17	1.00	1756																		X											
011820B-18	1.00	1802																		X											
011820B-19	1.00	1808			X					X										X							X				
011820B-20	1.00	1814			X					X										X							X				
CRI2	1.00	1821			X					X	X									X							X				
I CSAF	1.00	1827			X					X	X									X							X				
I CSABF	1.00	1833			X					X	X									X							X				
CCV7	1.00	1839			X					X	X									X							X				
CCB7	1.00	1845			X					X	X									X							X				

14
ANALYSIS RUN LOG

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____

SAS No.: _____ SDG No.: B1820

Instrument ID Number: HG4

Method: CV

Start Date: 07/24/01

End Date: 07/24/01

EPA Sample No.	D/F	Time	% R	Analytes																											
				A	S	A	B	B	C	C	C	C	F	P	M	M	H	N	K	S	A	N	T	V	Z	C					
				L	B	S	A	E	D	A	R	O	U	E	B	G	N	G	I	E	G	A	L	N	N						
S0	1.00	1425																	X												
S0	1.00	1426																	X												
S1	1.00	1428																	X												
S2	1.00	1430																	X												
S5	1.00	1432																	X												
S1	1.00	1434																	X												
ICV1	1.00	1437																	X												
ICV1	1.00	1437																	X												
ICV1	1.00	1437																	X												
ICV1	1.00	1439																	X												
ICV1	1.00	1439																	X												
ICB2	1.00	1439																	X												
CCV1	1.00	1440																	X												
CCV1	1.00	1440																	X												
CCV5	1.00	1440																	X												
CCB1	1.00	1442																	X												
CCB1	1.00	1442																	X												
CCB4	1.00	1442																	X												
PBS072404A	1.00	1444																	X												
PBS1	1.00	1444																	X												
LCSS072401	10.0	1446																	X												
LCSS1	10.0	1446																	X												
011820A-04	1.00	1448																													
011820A-04D	1.00	1449																													
011820A-04S	1.00	1451																													
011820A-04SD	1.00	1453																													
011820A-05	1.00	1455																													
011820A-06	1.00	1456																													
011820A-15	1.00	1458																													
011820A-16	1.00	1500																													
CCV2	1.00	1502																	X												
CCV2	1.00	1502																	X												
CCV6	1.00	1502																	X												

14
ANALYSIS RUN LOG

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____

SAS No.: _____ SDG No.: B1820

Instrument ID Number: HG4

Method: CV

Start Date: 07/24/01

End Date: 07/24/01

EPA Sample No.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N		
CCB2	1.00	1504																									X		
CCB2	1.00	1504																									X		
CCB5	1.00	1504																									X		
011820A-17	1.00	1506																											
011820A-18	1.00	1508																											
011820A-19	1.00	1510																											
011820B-03	1.00	1514																									X		
011820B-04	1.00	1516																									X		
011820B-05	1.00	1517																									X		
CCV7	1.00	1527																									X		
CCB3	1.00	1529																									X		
CCB3	1.00	1529																									X		
CCB6	1.00	1529																									X		
011820B-09	1.00	1543																									X		
011820B-11	1.00	1548																									X		
011820B-12	1.00	1550																									X		
ZZZZZZ	1.00	1552																											
ZZZZZZ	10.0	1553																											
011820B-13	1.00	1556																									X		
CCV4	1.00	1557																									X		
CCV4	1.00	1557																									X		
CCB4	1.00	1559																									X		
CCB4	1.00	1559																									X		
ZZZZZZ	1.00	1731																											
ZZZZZZ	1.00	1733																											
ZZZZZZ	1.00	1735																											
ZZZZZZ	1.00	1737																											
ZZZZZZ	1.00	1739																											
ZZZZZZ	1.00	1741																											
ZZZZZZ	1.00	1743																											
ZZZZZZ	1.00	1743																											

14
ANALYSIS RUN LOG

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____

SAS No.: _____ SDG No.: B1820

Instrument ID Number: HG4

Method: CV

Start Date: 07/24/01

End Date: 07/24/01

EPA Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	A L	T L	V	Z N	C N				
ZZZZZZ	1.00	1745																													
ZZZZZZ	1.00	1745																													
CCV1	1.00	1747															X														
CCV5	1.00	1747															X														
CCV9	1.00	1747															X														
CCB1	1.00	1751															X														
CCB5	1.00	1751															X														
CCB7	1.00	1751															X														
011820B-14	100.	1753															X														
011820B-15	10.0	1755															X														
011820B-16	1.00	1757															X														
011820B-17	10.0	1759															X														
011820B-18	10.0	1800															X														
011820B-19	10.0	1802															X														
ZZZZZZ	1.00	1806																													
ZZZZZZ	1.00	1808																													
ZZZZZZ	1.00	1810																													
ZZZZZZ	1.00	1812																													
ZZZZZZ	1.00	1812																													
ZZZZZZ	10.0	1813																													
ZZZZZZ	10.0	1813																													
CCV10	1.00	1815																X													
CCV5	1.00	1815																X													
CCV6	1.00	1815																X													
CCB5	1.00	1817																X													
CCB6	1.00	1817																X													
CCB8	1.00	1817																X													
011820A-20	10.0	1821																													
011820B-06	10.0	1823																X													
011820B-07	10.0	1825																X													
011820B-08	10.0	1827																X													
011820B-08D	10.0	1831																X													
011820B-08S	10.0	1833																X													

U.S. EPA - CLP

0078

14
ANALYSIS RUN LOG

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____

SAS No.: _____ SDG No.: B1820

Instrument ID Number: HG4

Method: CV

Start Date: 07/24/01

End Date: 07/24/01

EPA Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N				
011820B-08SD	10.0	1835																													
011820B-10	10.0	1837																													
CCV11	1.00	1839																													
CCV7	1.00	1839																													
CCB7	1.00	1842																													
CCB9	1.00	1842																													