OHM Remediation Services Corp.
A Subsidiary of OHM Corporation

FINAL
TECHNICAL REPORT
OLD SMALL ARMS RANGE - LEAD SAMPLING

PLATTSBURGH AIR FORCE BASE
PLATTSBURGH, NEW YORK

CONTRACT NO. F41624-94-D-8106
DELIVERY ORDER 0003
CDRL A030
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Air Force Center for Environmental Excellence
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San Antonio, Texas

Submitted by:

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OHM Project 17257-OSAR
Rev. 01

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1.0 INTRODUCTION

This technical report presents results from the June 1996 lead sampling event conducted at the Old Small Arms Range (OSAR) at the Plattsburgh Air Force Base (PAFB) in Plattsburgh, New York. Conclusions and remedial recommendations are based on these analytical data. OHM Remediation Services Corp. (OHM) performed the sampling under Air Force Center for Environmental Excellence (AFCEE) Contract No. F41624-94-D-8106 Delivery Order 003 and followed the procedures described in the Environmental Sampling and Analysis Plan (ESAP) for the OSAR, Rev. 02, dated 27 June 1996.

1.1 Site History and Description

PAFB is located in northeastern New York State (Figure 1-1). The 4,795-acre base is bordered on the north by the City of Plattsburgh, and on the east by Lake Champlain. The United States government owns 3,365 acres, while the remaining 1,430 acres are registered easement tracts. PAFB has ceased operations as an active military installation. While active, the primary mission of the base was fulfilled by the 380th Air Refueling Wing. The 380th Combat Support Group was the major support unit assigned to the Wing.

PAFB is part of the Department of Defense (DOD) Installation Restoration Program (IRP). As a result, programs have been implemented to identify, evaluate, and remediate former disposal or spill sites containing hazardous materials. Since initiation of the IRP, PAFB has been placed on the National Priorities List (NPL) of sites to be remediated through the United States Environmetnal Protection Agency (EPA) Superfund Program.

OSAR is located west of the flightline at the northwest end of the Base. Figure 1-1 in this report is a site location map. From 1960 through November 1989, this site was used as a practice range for small caliber pistols and rifles. Operations ceased when the Combat Arms Training Complex began operations.

"The range consisted of 20 firing stalls on a concrete pad (firing line) facing an approximately 120-foot wide by 35-foot high embankment used to stop fired rounds." (OSAR Site Features are presented in Figure 1-2.) "The target line was at the base of the embankment approximately 25 yards from the firing line. Targets were also set up for 7 and 15-yard firing courses. A trailer (former Building 3425) for range personnel was located immediately north of the firing line concrete pad. The trailer and concrete pad reportedly were installed in 1970 and removed in the fall of 1994." (URS, 1995)

"The large open area to the north of the former trailer and an accumulation of wasted 0.30 carbine ammo cans, stripper clips, and cartridge brass in the woods approximately 360 feet north of the former target line suggest that the range may have extended farther north prior to 1970. Some older maps and drawings also portray a longer rifle range (up to 200 yards in length)." (URS, 1995)

1.2 Previous Removal Action and Investigation

"A removal action commenced in mid-1993 and consisted of: excavating soils from the backstop embankment (south of the target line); sifting the soils to recover the bullets and bullet fragments for recycling; mixing contaminated soils with a concrete slurry for disposal at LF-023 (a former landfill); and replacing excavated soil with clean fill. A pile of recovered bullets and bullet fragments was stockpiled at the site until its removal in February 1995.

In June 1993, a second round of surface soil sampling was performed in the area of excavation prior to backfilling. Plattsburgh AFB personnel collected twelve samples, three of which were split with NYSDEC personnel. Lead was detected in some of the soil samples at a concentrations that exceeded 40 CFR 261 TCLP criteria,.." (URS, 1995)

In October and November of 1994, URS Consultants, Inc. (URS) began a site investigation to determine, among other objectives, if further remedial or removal actions are warranted. Samples were taken from the firing line to the top of the target backstop. At each sample point, two samples were collected: one at a depth range of 0 to 0.3 feet and one at a depth range of 1 to 1.5 feet. At four locations, URS collected samples at a depth range of 2 to 2.5 feet. Additionally, background samples were collected at locations SS-33-31 and SS-33-32. Figure 2-1 from the URS report shows the sample locations, sample depths, and schedule of analyses. Appendix A of this report contains a copy of this figure.

Eight of the 30 samples taken at the 0 to 0.3 foot depth and two of the samples taken at the 1 to 1.5 foot depth contained lead at a concentration greater than 400 milligrams per kilogram (mg/kg). Figures 7-1 and 7-2 from the URS report summarize the lead analytical results and are presented in Appendix A to this document. The four samples that URS collected at a depth range of 2 to 2.5 feet did not have lead contamination above 400 mg/kg. The samples with the higher lead contamination were collected from north of the target line. (URS, 1995)

1.3 Environmental Cleanup Goals

The environmental cleanup goals for lead are 400 mg/kg total lead using EPA Method 6010, Inductively Coupled Plasma, and 5 milligrams per liter (mg/l) leachable lead using EPA Method 1311, Toxicity Characteristic Leaching Procedure (TCLP). The sampling event described in this report only includes analysis for total lead. Analytical results were compared against the 400 mg/kg action level to identify lead-contaminated areas. The TCLP method will be employed, if required, following the removal action.

2.0 SAMPLING STRATEGY AND PROCEDURES

2.1 Sampling Strategy

As discussed in Section 1.1, Site History and Description, analysis of surface soil samples collected by URS outside of the previously remediated area showed lead concentrations in excess of the 400 mg/kg cleanup criteria. The Scope of Work for the OSAR was to remove soil containing lead in excess of 400 mg/kg. OHM reviewed URS' Site Investigation (SI) report to assess the extent of lead-contaminated soil. The URS report indicates that an area just south of the former target line and about fifty feet south of the former target line was sampled and analyzed. This sample area is presented on Figure 2-1 of the URS report and a copy of the figure is included in Appendix A of this report. Also shown on Figure 2-1 is the interim soil removal action area, which is south of the target berm.

The URS investigation determined that an area between the previously remediated target berm and the former firing line contained lead at concentrations greater than the 400 mg/kg cleanup criteria. This area is north of the target line and does not appear to contain backfill soil.

Background sample locations SS-33-31 and SS-33-32 contained higher than expected lead concentrations. Sample SS-33-32, which was collected north of the firing line at a depth of 0 to 0.3 feet, had a lead concentration of 27.4 mg/kg. URS surmised that the area north of the former firing could have been contaminated because rifles may also have been used at this range. If rifles were used at the range then the former firing line would have been located farther north. The other background sample, SS-33-31, collected west of the range, had lead concentrations of 231 mg/kg and 196 mg/kg at depths of 0 to 0.3 feet and 1.0 to 1.5 feet, respectively. URS attributed these elevated lead levels to possible cross-contamination during previous regrading activities.

URS collected samples from depths ranging from 0 to 2.5 feet, but the majority of the exceedences were detected in surface samples collected between 0 and 0.3 feet. Two sample locations indicated lead concentrations above the cleanup level at a 1.0 to 1.5 foot depth. No exceedences were found in the samples collected from the 2 to 2.5 foot depth. Figures 7-1 and 7-2 from the URS report show sample locations and exceedences and copies of this figures are presented in Appendix A of this report.

OHM collected samples from the OSAR on a 50-foot by 50-foot sampling grid to further assess the extent of lead contamination identified by URS. The letters were assigned by row in the east-west direction and the numbers were assigned by column in the north-south direction. Six additional sample points were located between the former firing and target lines to further assess the extent of lead contamination in this area. Four of these six locations were placed mid-way between rows A and B (25-foot spacing). The remaining two locations were placed 25 feet south of sample points A4 and A5. All sample locations are shown on Figure 2-1.

The grid was established by the sampling team using a tape measure. Prior to sample collection, OHM technicians flagged each sampling point on the grid. Each flag was numbered with the sample

identification. The flags remain in place and will be used to guide the removal activities. Section 3.0, Documentation, explains the identifications used to describe each sample's location and depth below the ground surface. The analytical result summaries are presented in Table 5-1.

As previously stated, the URS site investigation indicated that the lead contamination at the OSAR was concentrated in the 0 to 0.3 foot depth range. Therefore, at each of the fifty-one sample grid points, OHM collected a soil sample from this depth. At ten percent of these locations, a sample was also collected from a 1.0 to 1.5 foot depth to verify that the lead contamination was limited to this layer. Figure 2-1 shows where the deeper samples were collected.

2.2 Sampling Procedures

At each location, a stainless steel sampling trowel was used to collect approximately 1,000 grams of soil which was placed into a stainless steel mixing bowl. The soil was then thoroughly homogenized and the required analysis volume was transferred to the laboratory-cleaned container, labeled, and placed in the sample shuttle with ice. The stainless steel trowel and mixing bowl were decontaminated between each sample location to prevent cross-contamination.

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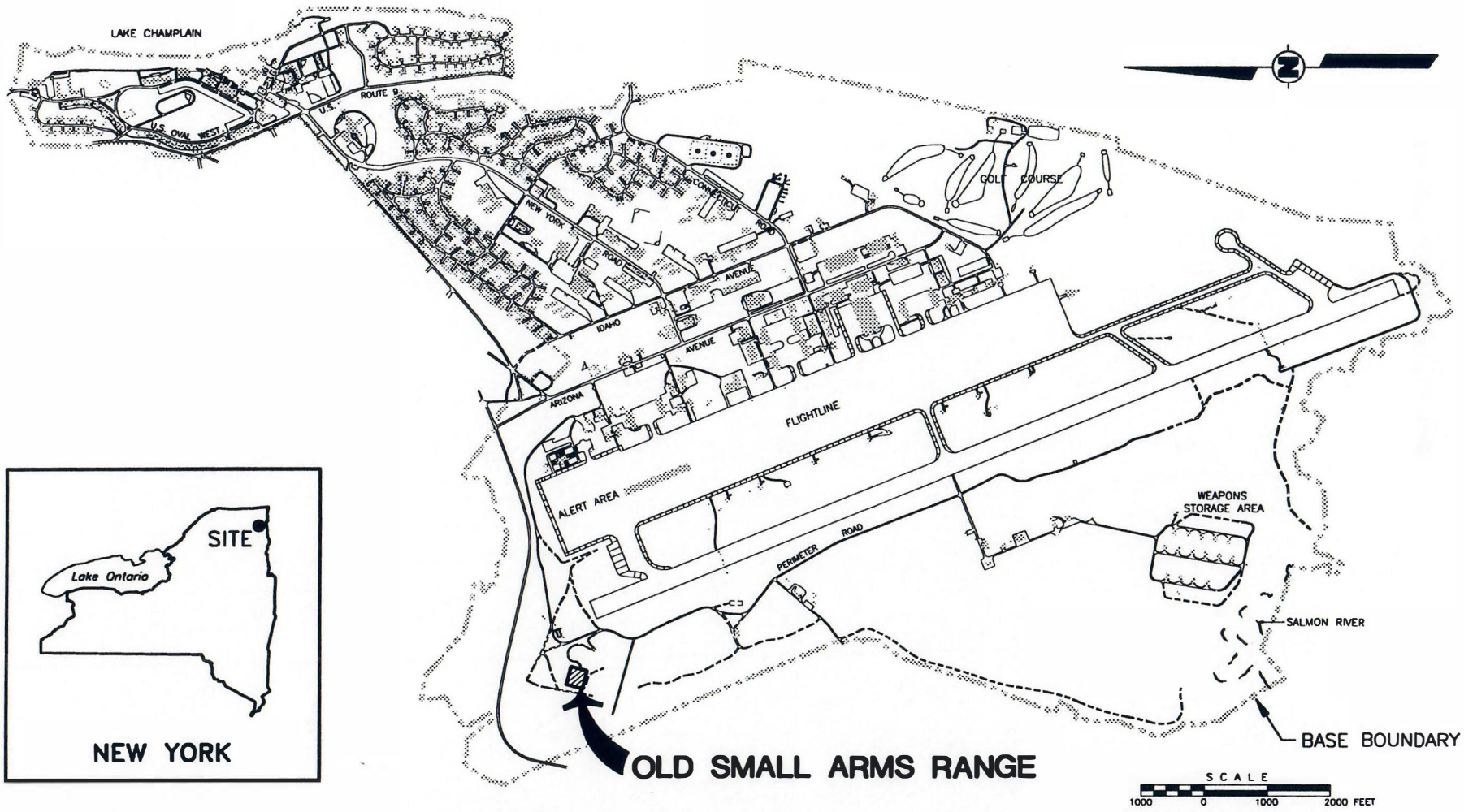


Legend	
BASE BOUNDARY	
OLD SMALL ARMS RANGE	

OHM Remediation Services Corp.

OHM Project No. 17257

Drawn By:	Checked By:	Approved By:
A. Smith	K. Fagan	M. Cormier
Date:	Scale:	Drawing No.
6/27/96	AS SHOWN	17257-A10

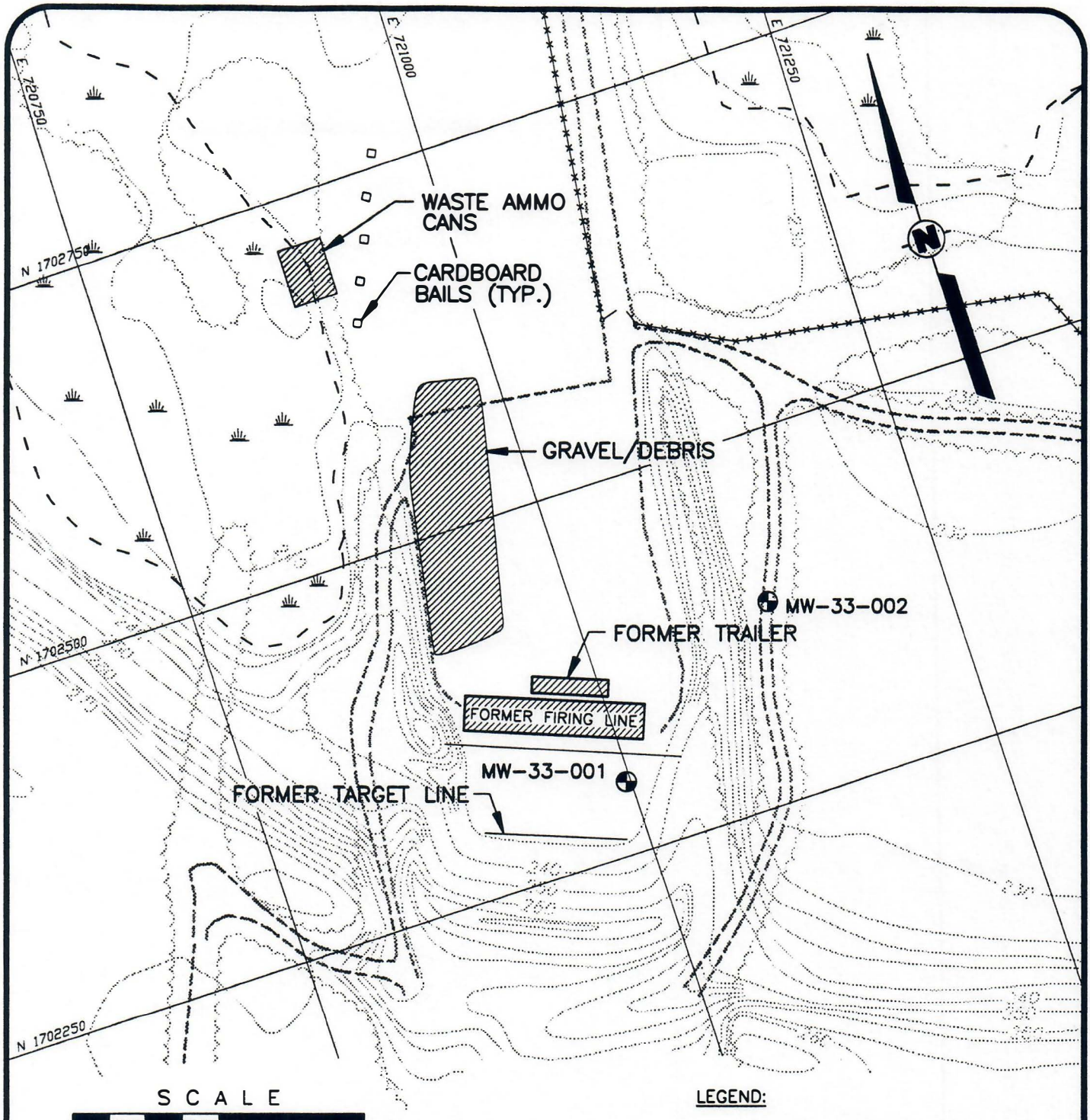
FIGURE 1-1

SITE LOCATION MAP

OLD SMALL ARMS RANGE
PLATTSBURGH AIR FORCE BASE, NEW YORK

PREPARED FOR

AIR FORCE CENTER FOR ENVIRONMENTAL EXCELLENCE
BROOKS AIR FORCE BASE, TEXAS



REFERENCE:

BASE MAP WAS TAKEN FROM DRAWINGS SUPPLIED BY THE U.S. AIR FORCE CENTER FOR ENVIRONMENTAL EXCELLENCE, BROOKS AIR FORCE BASE, TEXAS.

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Plot Scale: 1 = 100

OHM Remediation Services Corp.

OHM Project No. 17257

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B. O'Connor	K. Fagan	M. Cormier
Date:	Scale:	Drawing No.
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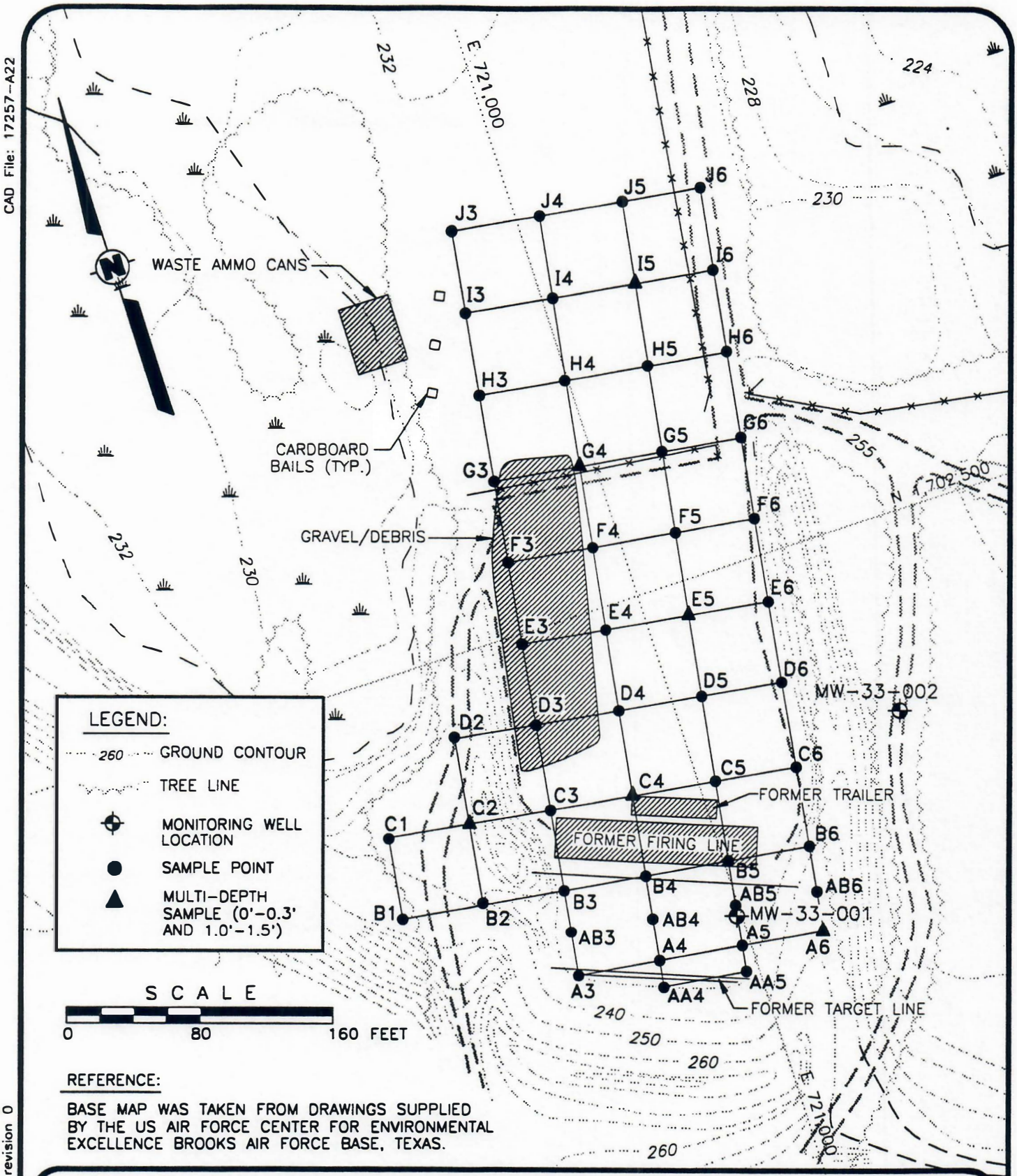
FIGURE 1-2

SITE FEATURES MAP

OLD SMALL ARMS RANGE
PLATTSBURGH AIR FORCE BASE, NEW YORK

PREPARED FOR

AIR FORCE CENTER FOR ENVIRONMENTAL EXCELLENCE
BROOKS AIR FORCE BASE, TEXAS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E 721,000
N 1,702,500
WASTE AMMO CANS
CARDBOARD BAILS (TYP.)
GRAVEL/DEBRIS
FORMER TRAILER
FORMER FIRING LINE
FORMER TARGET LINE
MW-33-002
MW-33-001
LEGEND:
260 GROUND CONTOUR
TREE LINE
MONITORING WELL LOCATION
SAMPLE POINT
MULTI-DEPTH SAMPLE (0'-0.3' AND 1.0'-1.5')
SCALE
0 80 160 FEET
REFERENCE:
BASE MAP WAS TAKEN FROM DRAWINGS SUPPLIED BY THE US AIR FORCE CENTER FOR ENVIRONMENTAL EXCELLENCE BROOKS AIR FORCE BASE, TEXAS.
revision 0
OHM Remediation
FIGURE 2-1

3.0 DOCUMENTATION

Documentation was completed in accordance with relevant portions of the site-specific Quality Assurance Project Plan (QAPP) and the Chemical Data Acquisition Plan (CDAP). Sample identifications for this sampling event begin with "OSAR" to distinguish them from New Small Arms Range (NSAR) samples. Each sample was assigned a letter and number based on grid coordinates. The letters were assigned by row in the east-west direction and the numbers were assigned by column in the north-south direction. For example, OSAR-A3 was collected from sample point A3 at the OSAR. Sample identifications with double letters, AA or AB, were samples collected at 25 foot intervals within the 50-foot grid to more completely characterize the extent of contamination in the area between the former firing and target lines (Figure 2-1). An '03' or a '15' were added to the end of the multi-depth sample identifications to indicate collection depths of 0 to 0.3 feet and 1 to 1.5 feet, respectively. For example, OSAR-E515 was collected from sample point E5 at a depth of 1.5 feet. Rinsate samples were designated "ER" and duplicates were identified by suffix "DUP". Other information, such as sample date and time, was recorded on the Chain-of-Custody forms. All samples and analytical results were entered into OHM's project database for tracking and referencing purposes.

4.0 SAMPLE ANALYSIS AND QUALITY CONTROL

All soil samples were analyzed for total lead, using EPA Method 6010, by CTM Analytical Laboratories (CTM), a New York-certified subcontract laboratory. Samples were packed and shipped to the laboratory on the day they were collected. CTM reported the lead analytical results in a standard package without extensive data deliverables. A copy of the laboratory report is included in Appendix B.

Quality control (QC) samples collected during this sampling event consisted of field duplicates and rinsate blanks. Sample technicians collected 3 field duplicate samples or 5 percent of the total. Duplicate samples were collected by alternately filling identical sample containers from the same batch of homogenized soil. Duplicate sampling results are included in Table 5-1.

Two field rinsate blanks, designated OSAR-ER1 and OSAR-ER2, were collected to document proper decontamination of the sampling equipment. OHM technicians collected the rinsate samples between sample collection points: i.e., after completing the collection of a sample, the sampling equipment was decontaminated and the rinsate blank was collected before commencing with the collection of the next soil sample. They obtained the rinsate blank by rinsing the sample trowel and bowl with distilled water and collecting the rinsate water in a clean sample jar for analysis. Lead was not detected in either rinsate sample.

Lead analysis using EPA Method 6010 provided detection limits well below the site action level of 400 mg/kg. Method 160.3 was used to determine the moisture content of the samples to report samples on a dry weight basis. All samples collected during this sampling event were extracted and analyzed within the holding times of the method, and the QC results support acceptability of the data. It was noted that matrix spike recoveries were outside QC limits due to matrix interference. CTM accepted the data based on method spike recoveries that were within QC limits. No special reporting requirements were requested because the end use of the data was to characterize lead contamination at the site.

5.0 SUMMARY AND CONCLUSIONS

5.1 Summary

Analytical results indicate that lead contamination at the OSAR is not widespread. Lead concentrations exceeded the 400 mg/kg action level at only four of the 51 locations sampled (A4, C1, C4, and E3). Analytical results for all sample locations are summarized by sample location and depth in Table 5-1. Concentrations exceeding the action level are in bold type. Duplicate sample results are also included. The results between the field and duplicate samples compare favorably, indicating that the distribution of lead in the soil was fairly homogeneous at these locations.

Sample A4 was collected just north of the former target line as shown on Figure 5-1. This sample point falls within the area identified by URS as requiring removal action. The lead concentration at this location was 1,660 mg/kg at a depth of 0.3 feet. Samples AB4, collected 25 feet north of A4, and AA4, collected 25 feet south of this sample point, did not contain lead concentrations above the action level though they are also located within URS's proposed removal area.

Lead was detected at a concentration of 971 mg/kg at C1. This sample was collected near URS background sample SS-33-31. URS hypothesized that the elevated lead levels in this area may have resulted from cross-contamination during past regrading activities.

Sample C4 was collected north of the former firing line adjacent to where the trailer was formerly located. This was a multidepth sample point and lead concentrations exceeded the action level at both depths. The concentrations detected at this location were 1,033 mg/kg (0 to 0.3 feet) and 407 mg/kg (1 to 1.5 feet).

Sample E3 was collected near the middle of the gravel/debris pile. The lead concentration of this sample was 433 mg/kg (depth 0 to 0.3 feet). Lead levels were not elevated in samples D3 and F3, which were collected from the south and north ends of this pile, respectively.

5.2 Conclusions

OHM used the findings summarized above to estimate the extent of lead contamination and to assess additional sampling needs. Figure 5-1 was created using the OHM and URS analytical data and shows proposed lead-contaminated soil removal areas.

Based on the data, it appears that the depth of lead contamination ranges from 0.3 feet to 1.5 feet since the samples collected from the 2 to 2.5 foot depth did not have lead concentration greater than 400 mg/kg. Because the OHM and URS data provide sufficient information to estimate the depths of contamination at each of the proposed removal areas, additional sampling to delineate the vertical extent of contamination is not recommended. However, the lateral or horizonal extent of contamination needs further delineation around sample points C1, C4, and E3 (Figure 5-1) to minimize soil removal.

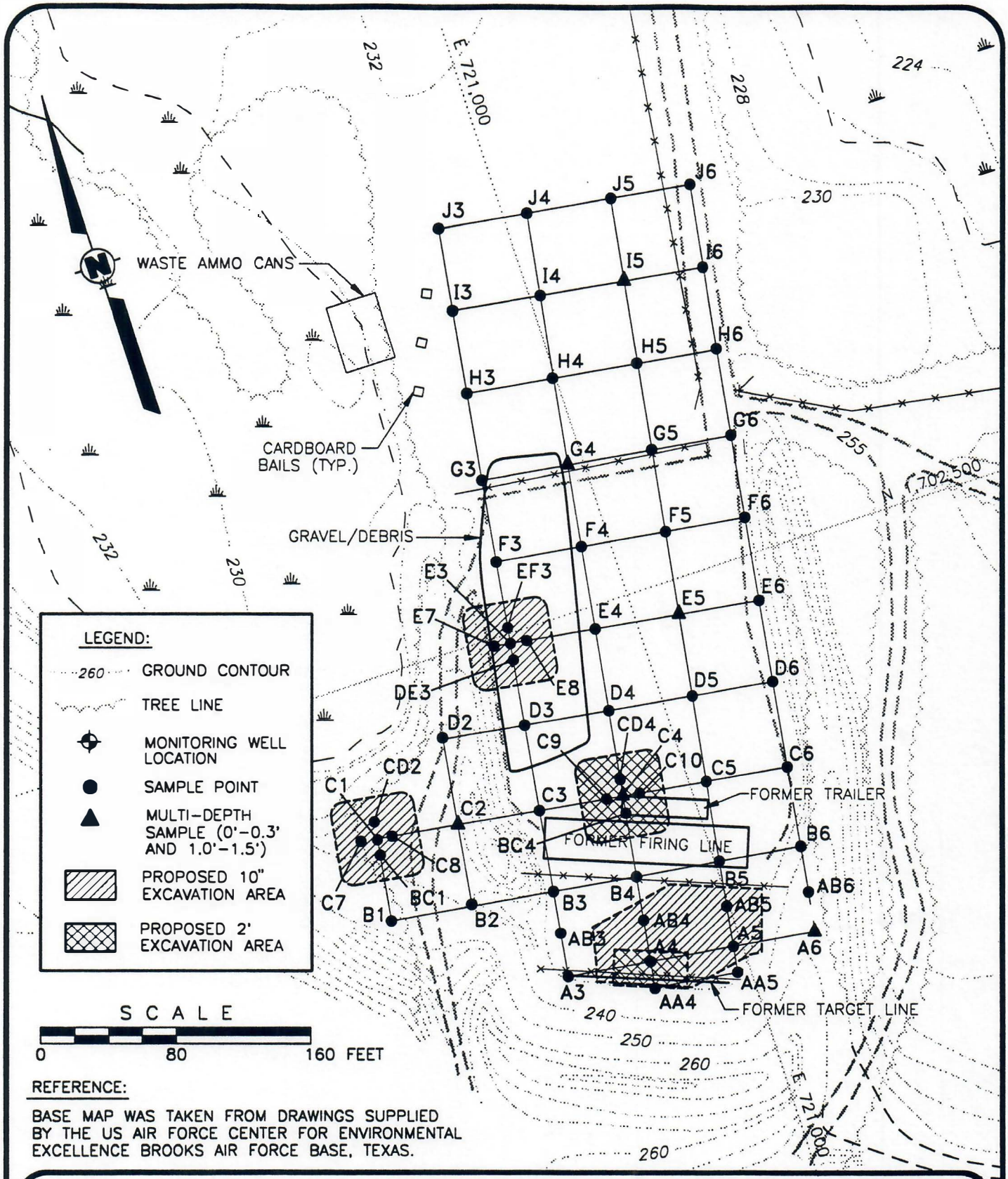
TABLE 5-1 ANALYTICAL RESULT SUMMARY

SAMPLE IDENTIFICATION	RESULT - TOTAL LEAD (mg/kg)		
	Depth 0 - 0.3'	Depth 1' - 1.5'	Duplicate
OSAR-AA4	89.8	----	----
OSAR-AA5	91.1	----	----
OSAR-AB3	325	----	----
OSAR-AB4	200	----	----
OSAR-AB5	5.2	----	----
OSAR-AB6	103	----	----
OSAR-A3	81.9	----	----
OSAR-A4	**1660**	----	**792**
OSAR-A5	336	----	----
OSAR-A6	248	78.8	----
OSAR-B1	30.0	----	----
OSAR-B2	2.4	----	----
OSAR-B3	10.7	----	----
OSAR-B4	7.5	----	----
OSAR-B5	24.6	----	----
OSAR-B6	112	----	----
OSAR-BC1	xx	----	----
OSAR-BC4	xx	----	----
OSAR-C1	**971**	----	----
OSAR-C2	2.6	2.8	----
OSAR-C3	14.0	----	----
OSAR-C4	**1033**	**407**	----
OSAR-C5	159	----	----
OSAR-C6	16.7	----	----
OSAR-C7	xx	----	----
OSAR-C8	xx	----	----
OSAR-C9	xx	----	----
OSAR-C10	xx	----	----
OSAR-CD2	xx	----	----
OSAR-CD4	xx	----	----
OSAR-D2	1.5	----	----
OSAR-D3	5.6	----	----
OSAR-D4	27.1	----	----

SAMPLE IDENTIFICATION	RESULT - TOTAL LEAD (mg/kg)		
	Depth 0 - 0.3'	Depth 1' - 1.5'	Duplicate
OS R-D5	35.0	----	----
OSAR-D6	18.4	----	----
OS R-DE3	xx	----	----
OS R-E3	**433**	----	----
OS R-E4	7.3	----	----
OS R-E5	162	16.9	----
OS R-E6	10.6	----	----
OSAR-E7	xx	----	----
OSAR-E8	xx	----	----
OS R-EF3	xx	----	----
OS R-F3	7.3	----	----
OS R-F4	8.5	----	----
OS R-F5	14.1	----	18.6
OS R-F6	7.6	----	----
OS R-G3	8.2	----	----
OSAR-G4	17.4	6.4	----
OSAR-G5	28.7	----	----
OS R-G6	6.6	----	----
OS R-H3	8.4	----	----
OS R-H4	131	----	----
OS R-H5	13.9	----	----
OSAR-H6	8.8	----	----
OS R-I3	4.7	----	----
OSAR-I4	37.4	----	----
OSAR-I5	81.7	6.1	----
OS R-I6	8.4	----	----
OS R-J3	4.8	----	4.7
OS R-J4	6.5		
OSAR-J5	42.4	----	----
OS R-J6	5.4	----	----

Notes:

1. Concentrations that exceed the 400 mg/kg action level for lead have been bolded.
2. xx = indicates proposed new sampling location at the depth specified; refer to Figure 5-1
3. ---- = Not Applicable



REFERENCE:

BASE MAP WAS TAKEN FROM DRAWINGS SUPPLIED BY THE US AIR FORCE CENTER FOR ENVIRONMENTAL EXCELLENCE BROOKS AIR FORCE BASE, TEXAS.

OHM Remediation Services Corp.

OHM Project No. 17257

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BBO/ACS	K. Fagan	M. Cormier
Date:	Scale:	Drawing No.
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FIGURE 5-1

PROPOSED REMOVAL ACTION AREAS

OLD SMALL ARMS RANGE
PLATTSBURGH AIR FORCE BASE, NEW YORK

PREPARED FOR

AIR FORCE CENTER FOR ENVIRONMENTAL EXCELLENCE
BROOKS AIR FORCE BASE, TEXAS

CAD File: 17257-A41

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6.0 RECOMMENDATIONS

OHM recommends that additional sampling be performed to reduce soil removal areas. The following sections describe the proposed sampling strategy and soil removal action protocols.

6.1 Additional Sampling

The URS data, combined with analytical results from OHM, indicate that the depth of lead contamination ranges from 0.3 to 1.5 feet and is generally limited to the area between the former target line and the former firing line. Samples collected by URS from the depth of 2.0 to 2.5 feet did not contain lead above the 400 mg/kg cleanup level. Three of the samples that OHM collected from north of the former firing line contained lead above the cleanup level but were not contiguous with another sample with high lead levels. The lateral extent of lead contamination at these sample locations, C1, C4, and E3, should be more accurately estimated to reduce the soil removal areas and costs.

OHM proposes that at each of these three locations, one sample will be collected at half the distance between a "clean" and a lead-contaminated sample location. This places the proposed sampling locations at 12.5 feet from the original sample points in all four directions along the grid lines. It is proposed that soil samples be collected at a depth of 0 to 0.3 feet from these 12 sample locations. Twelve proposed new sample locations are shown on Figure 5-1 and designated on Table 5-1 by an "xx". These samples will be collected before, or at the commencement of, the removal activities. Once the data from these additional sampling points have been received, Figure 5-1 will be field-updated to guide the removal activities. Additional samples will not be collected adjacent to OHM sample location A4 because this sample point and the surrounding area already fall within URS's proposed removal area.

Sample F4 was collected from the debris pile. Since we do not know if the debris pile was placed on lead-contaminated soil, OHM recommends relocating the pile to expose the ground surface at that sampling location. At that time, a sample can be collected from that location.

6.2 Removal Action and Confirmatory Sampling

OHM recommends removing the lead-contaminated soil identified by URS. This area, identified in Figures 7-1 and 7-2, is south of the former firing line and will require removal action. If the sample marker is not present, surveyors will stakeout the URS sample locations needed to delineate the perimeter of this soil removal area, including, but not limited to, sample points 01, 04, 11, 13, 15, 16, and 17. The approximate area encompassed by the proposed URS removal area is included on Figure 5-1. These URS sampling points will be used with OHM's flagged locations and analytical results to delineate the removal area.

Data generated during OHM's supplemental investigation shows that while lead contamination at the OSAR is not widespread, soil needs to be removed from around four sample locations. One of these four sample points, A4, is within the URS designated removal area. The remaining three areas that will require removal actions are around OHM sample points C1, C4, and E3 (Figure 5-1).

Two protocols will be used for conducting soil removal activities at the OSAR. The first protocol, which applies to areas around sample points C1, C4, and E3, will be to remove soil from an area half the distance between the contaminated and the "clean" areas. Sample locations with lead concentrations below the 400 mg/kg action level will be considered "clean". The removal areas for sample locations C1, C4 and E3 as shown in Figure 5-1 are 50 feet by 50 feet (2500 sf).

The second protocol will be to stake out, by survey, key URS sample points to reestablish URS's proposed removal action area. Then, the same protocol of removing soil from a distance halfway between known contaminated and "clean" sample locations will be applied to areas between URS' removal area and OHM sample points.

OHM recommends excavating and removing soil to a depth 6 inches below the depth at which contamination was detected. Lead-contaminated soil will be removed to a depth of 2 feet from the areas estimated by high-lead samples collected from the 1' to 1.5' depth. These removal areas are around sample location C4 (Figure 5-1) and from a small area located just north of the former target line around URS sample locations 15 and 16 (refer to Figure 7-2 in Appendix A). Soil from the remaining excavation areas, where lead contamination was detected at a depth of 4 inches (0.3 feet), will be removed to a minimum depth of 10 inches (Figure 5-1).

Following the removal of the lead-contaminated soil, OHM will collect grab confirmatory samples for total lead analysis to ensure that the 400 mg/kg clean up level has been attained. Confirmatory samples will be collected at 20-foot grid intervals along the bottom and sidewalls of each of the excavation areas. If any sample location does not meet the 400 mg/kg clean up criteria, a minimum of 6 inches of soil will be removed from half the distance between this exceedence location and the closest "clean" sample location along the four grid lines. The area will then be resampled. The resampling will consist of two grab sample locations, selected within the re-excavated area, for each failing confirmatory sample. The process of removing soil followed by the collection of additional confirmatory samples will be repeated until all confirmatory sample results are below clean up criteria.

During the lead-contaminated soil removal action, OHM will remove the waste ammo cans. Subsequently, The area will be sampled for TAL metals, to determine if the cans are contributing any lead or other metal contaminant to site.

Soil removed during the removal action will be transported and disposed off-site at Chemical Waste Management's Facility in Model City, New York. The facility is responsible for transportation, stabilization and disposal of the soil from our removal action. Characterization analysis for disposal will be coordinated with the facility. OHM estimates that 550 cubic yards in-situ of lead-contaminated soil will be removed from the estimated removal areas presented in this report.

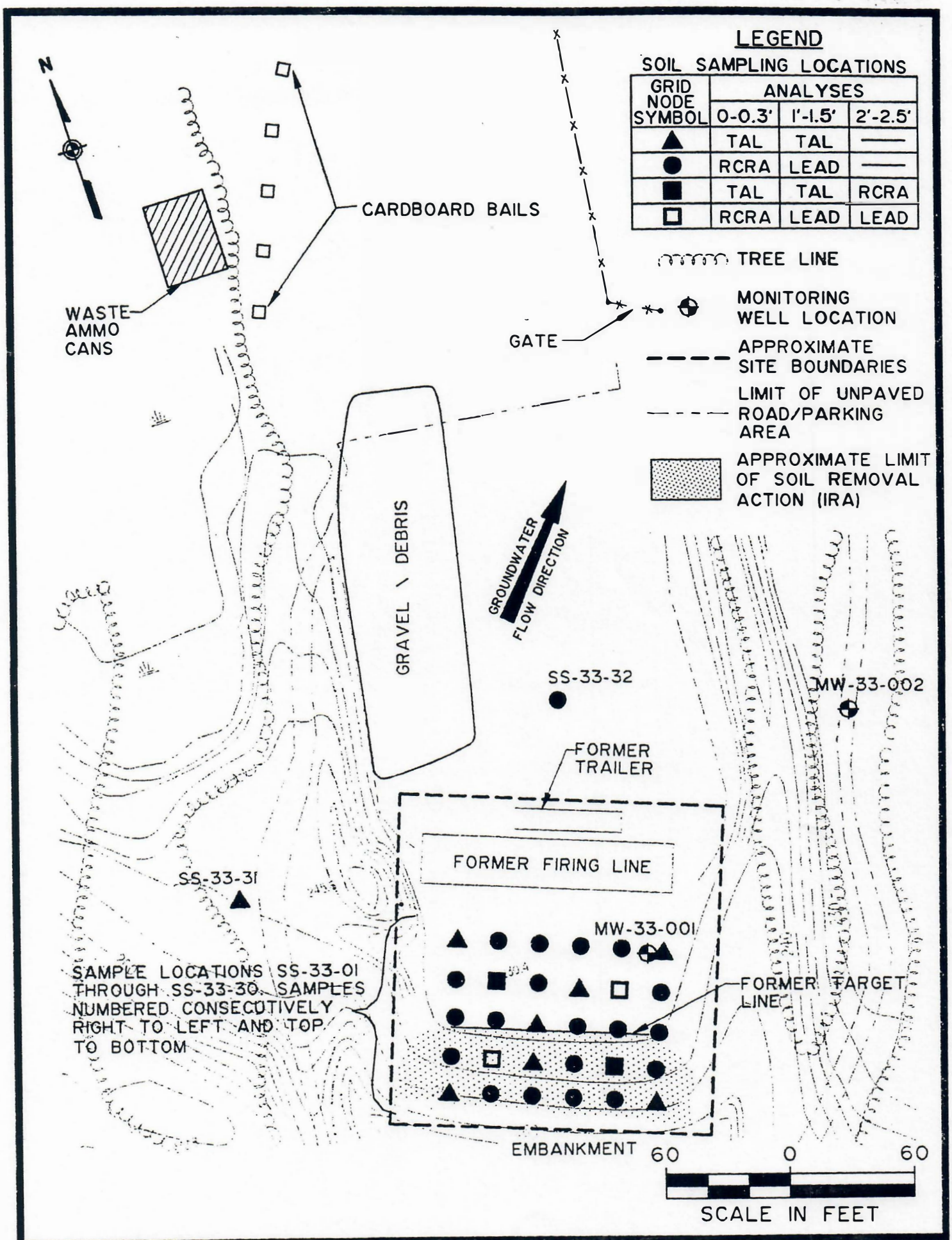
6.3 Reporting

A new report presenting analytical data from the proposed additional sample locations will not be issued prior to initiating the removal action. However, these data will be included, along with the confirmatory sample analytical results, in the OSAR closure report.

APPENDIX A

COPIES OF FIGURES
OLD SMALL ARMS RANGE,
EXTENT OF SOIL EXCEEDING PRELIMINARY GOAL
(URS, 1995)

OHM Project 17257-OSAR



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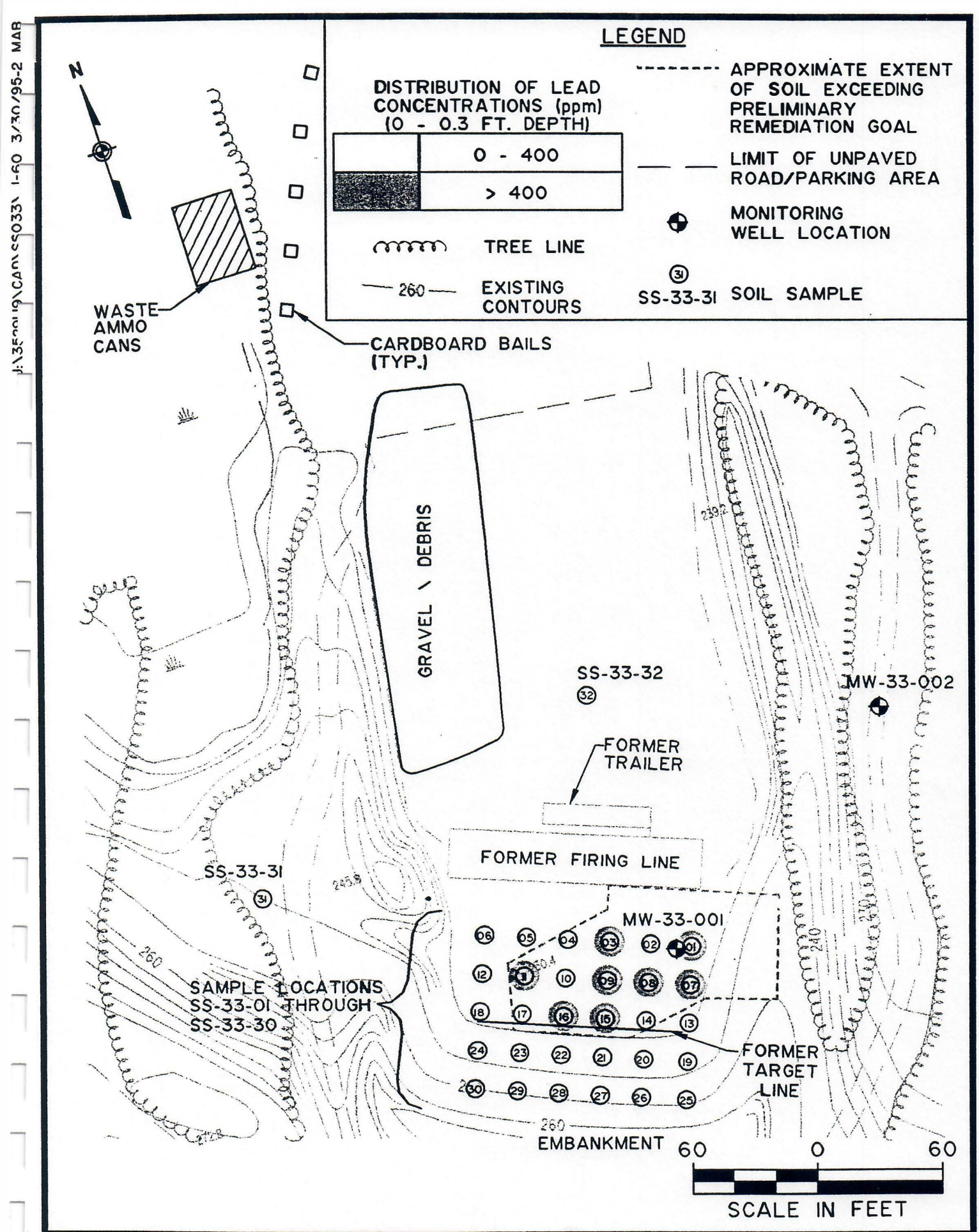
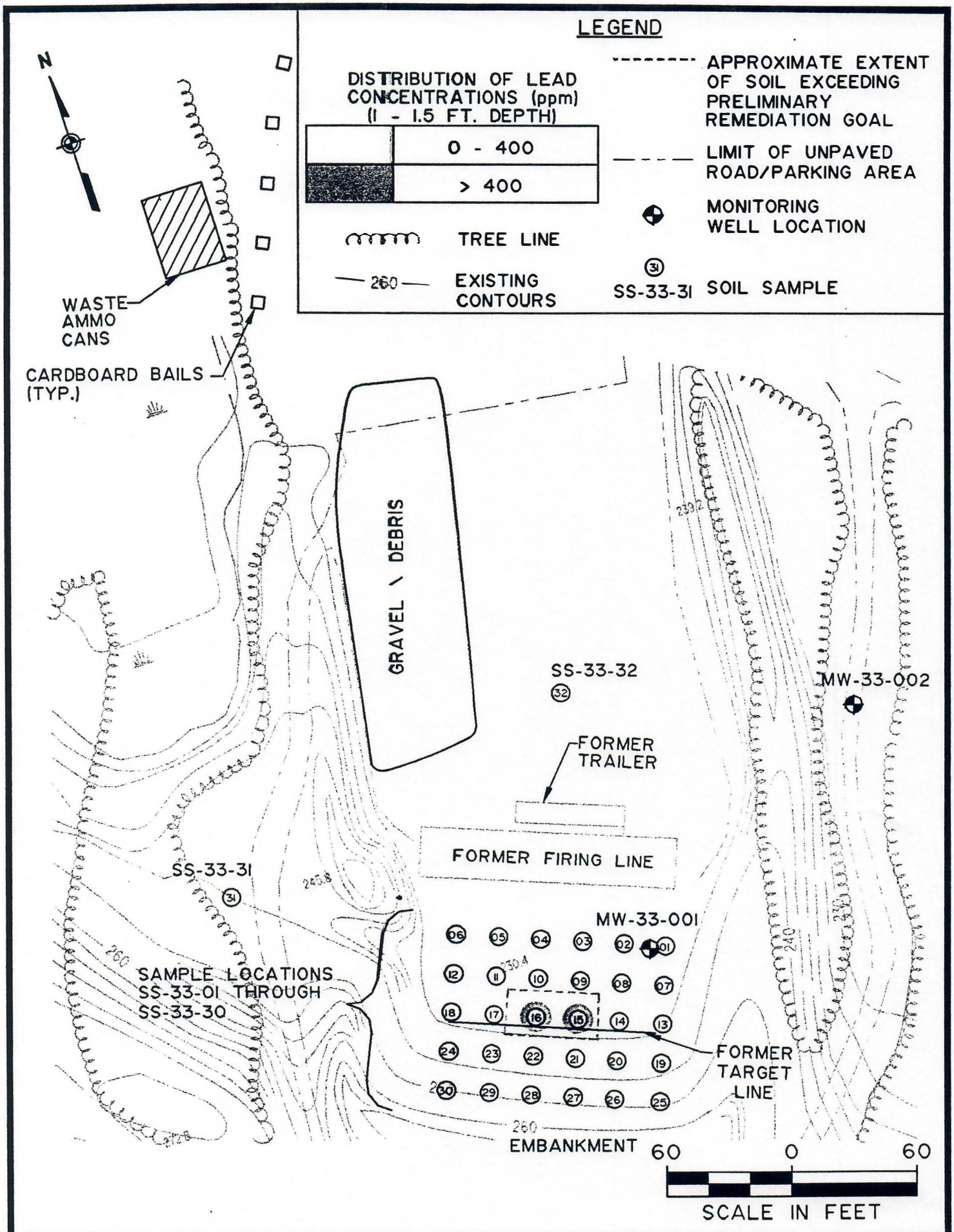
URS CONSULTANTS, INC.

OLD SMALL ARMS RANGE (SS-033) SAMPLING LOCATIONS

FIGURE 2-1



URS CONSULTANTS, INC.	SS-033 - OLD SMALL ARMS RANGE EXTENT OF SOIL EXCEEDING PRELIMINARY GOAL (0-1' DEPTH)	FIGURE 7-1



URS CONSULTANTS, INC.	SS-033 - OLD SMALL ARMS RANGE EXTENT OF SOIL EXCEEDING PRELIMINARY GOAL (1-2' DEPTH)	FIGURE 7-2

APPENDIX B

CTM LABORATORY ANALYTICAL DATA

OHM Project 17257-OSAR

CTM Analytical Laboratories, Ltd.

15 Century Hill Drive
P.O. Box 727
Latham, NY 12110
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FAX 518-786-7139

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Laboratory Analysis Report
Prepared for: OHM REMEDIATION SERVICES
CTM Project Number: 96.06198
CTM Task Number: 960624A
03 JUL 1996

IMPORTANT - PLEASE NOTE

1. All results are calculated on a dry weight basis unless otherwise specified.
2. PQL = Practical Quantitation Limit.
3. A result with a "D" means that the result was "Detected" below the Practical Quantitation Limit (PQL), but above the Method Detection Limit (MDL).
4. ND = Not Detected at or above the PQL.
5. NTP = Non-target peaks (1-5 peaks).
   MNTP = Many non-target peaks (5+ peaks).
6. pH results not performed in the field should be considered estimated since the holding time is 15 minutes from the sampling time.
7. If the samples are collected independently of our laboratory, CTM is not responsible for the possible contamination during the sampling procedure.
8. Methylene chloride and acetone are common laboratory artifacts for volatile organic analysis. Bis-(2-ethyl-hexyl) phthalate and di-n-butylphthalate are common laboratory artifacts for GC/MS semivolatile analysis. Other compounds may also appear as laboratory artifacts for the organic analyses. The above compounds will be flagged as suspected laboratory artifacts if the detected value is less than five (5) times of the PQL in the sample. Acetone will be flagged as a suspected laboratory artifact only up to two and a half (2.5) times of the PQL.
9. If air samples are collected independently of our laboratory, CTM is not responsible for inadequate sample volume for air analysis.

AUTHORIZED FOR RELEASE: Christopher Hess DATE: 7/3/96

CERTIFICATIONS:
NYS E.L.A.P. ID NO: 10358 MA: NY052 CT: PH-0551 NJ: 73581

CASE NARRATIVE

Project: Plattsburgh Air Force Base

CTM Analytical Laboratories, Ltd. performed analyses on the following samples:

CTM LAB ID	CLIENT ID	TYPE	DATE SAMPLED
960624A-01	OSARAB6	GRAB	06/21/96
960624A-02	OSARA3	GRAB	06/21/96
960624A-03	OSARA4	GRAB	06/21/96
960624A-04	OSARA4 Dup	GRAB	06/21/96
960624A-05	OSARA5	GRAB	06/21/96
960624A-06	OSARA6-03	GRAB	06/21/96
960624A-07	OSARA6-15	GRAB	06/21/96
960624A-08	OSARAA4	GRAB	06/21/96
960624A-09	OSARAA5	GRAB	06/21/96
960624A-10	OSAR-ER1	GRAB	06/21/96
960624A-11	OSARC6	GRAB	06/21/96
960624A-12	OSARB1	GRAB	06/21/96
960624A-13	OSARB2	GRAB	06/21/96
960624A-14	OSARB3	GRAB	06/21/96
960624A-15	OSARB4	GRAB	06/21/96
960624A-16	OSARB5	GRAB	06/21/96
960624A-17	OSARB6	GRAB	06/21/96
960624A-18	OSARAB3	GRAB	06/21/96
960624A-19	OSARAB4	GRAB	06/21/96
960624A-20	OSARAB5	GRAB	06/21/96
960624A-21	OSARH3	GRAB	06/21/96
960624A-22	OSARH4	GRAB	06/21/96
960624A-23	OSARH5	GRAB	06/21/96
960624A-24	OSARH6	GRAB	06/21/96
960624A-25	OSARG3	GRAB	06/21/96
960624A-26	OSARG4-03	GRAB	06/21/96
960624A-27	OSARG4-15	GRAB	06/21/96
960624A-28	OSARG5	GRAB	06/21/96
960624A-29	OSARG6	GRAB	06/21/96
960624A-30	OSARF3	GRAB	06/21/96
960624A-31	OSARD4	GRAB	06/21/96
960624A-32	OSARD5	GRAB	06/21/96
960624A-33	OSARD6	GRAB	06/21/96
960624A-34	OSARC1	GRAB	06/21/96
960624A-35	OSARC2-03	GRAB	06/21/96
960624A-36	OSARC2-15	GRAB	06/21/96
960624A-37	OSARC3	GRAB	06/21/96
960624A-38	OSARC4-03	GRAB	06/21/96
960624A-39	OSARC4-15	GRAB	06/21/96
960624A-40	OSARC5	GRAB	06/21/96
960624A-41	OSARJ3	GRAB	06/21/96
960624A-42	OSARJ3 Dup	GRAB	06/21/96
960624A-43	OSARJ4	GRAB	06/21/96
960624A-44	OSARJ5	GRAB	06/21/96
960624A-45	OSARJ6	GRAB	06/21/96

CASE NARRATIVE (Continued)

Project: Plattsburgh Air Force Base

CTM Analytical Laboratories, Ltd. performed analyses on the following samples:

CTM LAB ID	CLIENT ID	TYPE	DATE SAMPLED
960624A-46	OSARI3	GRAB	06/21/96
960624A-47	OSARI4	GRAB	06/21/96
960624A-48	OSARI5-03	GRAB	06/21/96
960624A-49	OSARI6	GRAB	06/21/96
960624A-50	OSARI5-15	GRAB	06/21/96
960624A-51	OSARF4	GRAB	06/21/96
960624A-52	OSARF5 Dup	GRAB	06/21/96
960624A-53	OSARF6	GRAB	06/21/96
960624A-54	OSARE3	GRAB	06/21/96
960624A-55	OSARE4	GRAB	06/21/96
960624A-56	OSARE5-03	GRAB	06/21/96
960624A-57	OSARE5-15	GRAB	06/21/96
960624A-58	OSARE6	GRAB	06/21/96
960624A-59	OSARD2	GRAB	06/21/96
960624A-60	OSARD3	GRAB	06/21/96
960624A-61	OSAR-ER2	GRAB	06/21/96
960624A-62	OSARF5	GRAB	06/21/96

No problems were encountered during analyses with the following exceptions:

INORGANICS - METALS SW 846 METHOD 6010

1) The recovery for the spike on Inorganics QA/QC Summary Metals #1 (page 67) for Lead was outside of the acceptable range. This was due to matrix interference for this sample. An analytical spike was performed on Inorganics QA/QC Summary Metals #2 (page 68) and the recovery was within acceptable limits.

2) The percent RPD recovery for Lead on Inorganics QA/QC Summary Metals #3 (page 69) between the sample and the sample duplicate was greater than 20 %, but not outside of acceptable limits. The concentration of the sample and the duplicate was less than five (5) times the detection limit for Lead. The criteria used to judge acceptance of duplicate % RPD is then +/- the detection limit. Using this method the duplicate % RPD is within required limits.

3) The percent RPD recovery for Lead on Inorganics QA/QC Summary Metals #4 (page 70) between the sample and the sample duplicate was outside of the acceptable range. This was due to the heterogeneous nature of the sample. The samples were mixed as well as they could before sample preparation. Due to the sample matrix, it was not possible to effectively mix the samples into a homogeneous mixture prior to sample digestion. Given the nature of the samples it is not possible to achieve a percent RPD between samples and sample duplicates of less than 20 %.

4) The recovery for the spike on Inorganics QA/QC Summary Metals #5 (page 71) for Lead was outside of the acceptable range. This was due to matrix interference for this sample. An analytical spike was performed on Inorganics QA/QC Summary Metals #6 (page 72) and the recovery was within acceptable limits.

5) The spike recovery on Inorganics QA/QC Summary Metals #8 (page 74) for Lead was outside of the required ranges due to the fact the the amount of this element in the sample was more than four (4) times that of the spike added to the sample. Due to the high level of this element the spike added cannot be recovered completely. An analytical spike was performed for this sample and the recovery was still outside of acceptable limits.

6) The percent RPD recovery for Lead on Inorganics QA/QC Summary Metals #8 (page 74) between the sample and the sample duplicate was outside of the acceptable range. This was due to the heterogeneous nature of the sample. The samples were mixed as well as they could before sample preparation. Due to the sample matrix, it was not possible to effectively mix the samples into a homogeneous mixture prior to sample digestion. Given the nature of the samples it is not possible to achieve a percent RPD between samples and sample duplicates of less than 20 %.

7) The spike recovery on Inorganics QA/QC Summary Metals #10 (page 76) for Lead was outside of the required ranges due to the fact the the amount of this element in the sample was more than four (4) times that of the spike added to the sample. Due to the high level of this element the spike added cannot be recovered completely. An analytical spike was performed for this sample and the recovery was still outside of acceptable limits.

8) The percent RPD recovery for Lead on Inorganics QA/QC Summary Metals #10 (page 76) between the sample and the sample duplicate was outside of the acceptable range. This was due to the heterogeneous nature of the sample. The samples were mixed as well as they could before sample preparation. Due to the sample matrix, it was not possible to effectively mix the samples into a homogeneous mixture prior to sample digestion. Given the nature of the samples it is not possible to achieve a percent RPD between samples and sample duplicates of less than 20 %.

9) The recovery for the spike on Inorganics QA/QC Summary Metals #11 (page 77) for Lead was outside of the acceptable range. This was due to matrix interference for this sample. An analytical spike was performed on Inorganics QA/QC Summary Metals #12 (page 78) and the recovery was within acceptable limits.

Please contact us, if you have any questions.
CTM Analytical Laboratories, Ltd.

Alan J. Laffin
Laboratory Director

Data Package Inspection

Client Name: OHM Remediation Services Corp.
CTM Sample ID's: 960624A01-62

This data package received an inspection for completeness by the CTM Analytical Quality Assurance Officer. Any deficiencies found are included in the case narrative of this report.

Inspected By: Christopher Hess
Date: 7/3/96

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OHM REMEDIATION SERVICES
P.O. BOX 2202
PLATTSBURGH NY 12901

Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 9:35
Sampled By : N/A
Sample Id: OSAR-AB6
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 01
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	82.9		%	SP 6/25/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:102 6/24/96
LEAD	ICP, SW-846 METHOD 6010	103	0.35	MG/KG	F-4:80 6/25/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 9:39
Sampled By : N/A
Sample Id: OSAR-A3
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 02
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	89.1		%	SP 6/25/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:102 6/24/96
LEAD	ICP, SW-846 METHOD 6010	81.9	0.30	MG/KG	F-4:80 6/25/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 9:41
Sampled By : N/A
Sample Id: OSAR-A4
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 03
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	94.0		%	SP 6/25/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:102 6/24/96
LEAD	ICP, SW-846 METHOD 6010	1,660	1.6	MG/KG	F-4:82 6/26/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 9:41
Sampled By : N/A
Sample Id: OSAR-A4-DUP
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 04
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	95.3		%	SP 6/25/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:102 6/24/96
LEAD	ICP, SW-846 METHOD 6010	792	0.32	MG/KG	F-4:80 6/25/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 9:43
Sampled By : N/A
Sample Id: OSAR-A5
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 05
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	96.0		%	SP 6/25/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:102 6/24/96
LEAD	ICP, SW-846 METHOD 6010	336	0.30	MG/KG	F-4:80 6/25/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 9:43
Sampled By : N/A
Sample Id: OSAR-A6-03
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 06
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	87.8		%	SP 6/25/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:102 6/24/96
LEAD	ICP, SW-846 METHOD 6010	248	0.33	MG/KG	F-4:80 6/25/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 9:45
Sampled By : N/A
Sample Id: OSAR-A6-15
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 07
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	61.6		%	SP 6/25/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:102 6/24/96
LEAD	ICP, SW-846 METHOD 6010	78.8	0.46	MG/KG	F-4:80 6/25/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 9:46
Sampled By : N/A
Sample Id: OSAR-AA4
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 08
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	91.4		%	SP 6/25/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:102 6/24/96
LEAD	ICP, SW-846 METHOD 6010	89.8	0.33	MG/KG	F-4:80 6/25/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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CTM PROJECT #: 96.06198

CTM Task #: 960624A

Attention: MR. GREG GUIMOND

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 9:47
Sampled By : N/A
Sample Id: OSAR-AA5
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 09
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	90.8		%	SP 6/25/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:103 6/24/96
LEAD	ICP, SW-846 METHOD 6010	91.1	0.35	MG/KG	F-4:82 6/26/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 8:15
Sampled By : N/A
Sample Id: OSAR-ER1
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 10
Date Received: 06/22/96
Collection Method: GRAB
Matrix: WATER

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3010	COMPLETED			D-20:105 6/26/96
LEAD	ICP, EPA METHOD 200.7	ND	0.003	MG/L	F-4:81 6/27/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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PLATTSBURGH NY 12901

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Attention: MR. GREG GUIMOND

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 9:19
Sampled By : N/A
Sample Id: OSAR-C6
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 11
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	95.4		%	SP 6/25/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:103 6/24/96
LEAD	ICP, SW-846 METHOD 6010	16.7	0.28	MG/KG	F-4:82 6/26/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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PLATTSBURGH NY 12901

Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 9:25
Sampled By : N/A
Sample Id: OSAR-B1
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 12
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	98.2		%	SP 6/25/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:103 6/24/96
LEAD	ICP, SW-846 METHOD 6010	30.0	0.29	MG/KG	F-4:82 6/26/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 9:25
Sampled By : N/A
Sample Id: OSAR-B2
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 13
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	98.3		%	SP 6/25/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:103 6/24/96
LEAD	ICP, SW-846 METHOD 6010	2.4	0.30	MG/KG	F-4:82 6/26/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 9:24
Sampled By : N/A
Sample Id: OSAR-B3
Location : PLATTSBURGH,NEW YORK

CTM Sample No: 960624A 14
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	96.0		%	SP 6/25/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:103 6/24/96
LEAD	ICP, SW-846 METHOD 6010	10.7	0.27	MG/KG	F-4:82 6/26/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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CTM PROJECT #: 96.06198

CTM Task #: 960624A

Attention: MR. GREG GUIMOND

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 9:23
Sampled By : N/A
Sample Id: OSAR-B4
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 15
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	96.2		%	SP 6/25/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:103 6/24/96
LEAD	ICP, SW-846 METHOD 6010	7.5	0.31	MG/KG	F-4:82 6/26/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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CTM PROJECT #: 96.06198

CTM Task #: 960624A

Attention: MR. GREG GUIMOND

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 9:22
Sampled By : N/A
Sample Id: OSAR-B5
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 16
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	96.6		%	SP 6/25/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:103 6/24/96
LEAD	ICP, SW-846 METHOD 6010	24.6	0.29	MG/KG	F-4:82 6/26/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 9:21
Sampled By : N/A
Sample Id: OSAR-B6
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 17
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	97.6		%	SP 6/25/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:103 6/24/96
LEAD	ICP, SW-846 METHOD 6010	112	0.31	MG/KG	F-4:82 6/26/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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CTM PROJECT #: 96.06198

CTM Task #: 960624A

Attention: MR. GREG GUIMOND

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 9:37
Sampled By : N/A
Sample Id: OSAR-AB3
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 18
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	96.9		%	SP 6/25/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:103 6/24/96
LEAD	ICP, SW-846 METHOD 6010	325	0.32	MG/KG	F-4:82 6/26/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 9:36
Sampled By : N/A
Sample Id: OSAR-AB4
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 19
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	96.2		%	SP 6/25/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:103 6/24/96
LEAD	ICP, SW-846 METHOD 6010	200	0.30	MG/KG	F-4:82 6/26/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 9:36
Sampled By : N/A
Sample Id: OSAR-AB5
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 20
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	98.0		%	SP 6/25/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:103 6/24/96
LEAD	ICP, SW-846 METHOD 6010	5.2	0.27	MG/KG	F-4:82 6/26/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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CTM PROJECT #: 96.06198

CTM Task #: 960624A

Attention: MR. GREG GUIMOND

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 7:52
Sampled By : N/A
Sample Id: OSAR-H3
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 21
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	96.9		%	SP 6/25/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:103 6/24/96
LEAD	ICP, SW-846 METHOD 6010	8.4	0.31	MG/KG	F-4:82 6/26/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 7:53
Sampled By : N/A
Sample Id: OSAR-H4
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 22
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	92.8		%	SP 6/25/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:103 6/24/96
LEAD	ICP, SW-846 METHOD 6010	131	0.32	MG/KG	F-4:82 6/26/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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CTM PROJECT #: 96.06198

CTM Task #: 960624A

Attention: MR. GREG GUIMOND

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 7:56
Sampled By : N/A
Sample Id: OSAR-H5
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 23
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	94.8		%	SP 6/25/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:103 6/24/96
LEAD	ICP, SW-846 METHOD 6010	13.9	0.32	MG/KG	F-4:82 6/26/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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CTM PROJECT #: 96.06198

CTM Task #: 960624A

Attention: MR. GREG GUIMOND

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 8:04
Sampled By : N/A
Sample Id: OSAR-H6
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 24
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	97.2		%	SP 6/25/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:103 6/24/96
LEAD	ICP, SW-846 METHOD 6010	8.8	0.26	MG/KG	F-4:82 6/26/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 8:03
Sampled By : N/A
Sample Id: OSAR-G3
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 25
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	96.7		%	SP 6/25/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:103 6/24/96
LEAD	ICP, SW-846 METHOD 6010	8.2	0.29	MG/KG	F-4:82 6/26/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 7:57
Sampled By : N/A
Sample Id: OSAR-G4-03
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 26
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	96.7		%	SP 6/25/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:104 6/26/96
LEAD	ICP, SW-846 METHOD 6010	17.4	0.30	MG/KG	F-4:83 6/27/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 8:02
Sampled By : N/A
Sample Id: OSAR-G4-15
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 27
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	95.4		%	SP 6/25/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:104 6/26/96
LEAD	ICP, SW-846 METHOD 6010	6.4	0.31	MG/KG	F-4:83 6/27/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 8:27
Sampled By : N/A
Sample Id: OSAR-G5
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 28
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	96.7		%	SP 6/25/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:104 6/26/96
LEAD	ICP, SW-846 METHOD 6010	28.7	0.30	MG/KG	F-4:83 6/27/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 8:25
Sampled By : N/A
Sample Id: OSAR-G6
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 29
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	96.7		%	SP 6/25/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:104 6/26/96
LEAD	ICP, SW-846 METHOD 6010	6.6	0.32	MG/KG	F-4:83 6/27/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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CTM PROJECT #: 96.06198

CTM Task #: 960624A

Attention: MR. GREG GUIMOND

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 8:29
Sampled By : N/A
Sample Id: OSAR-F3
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 30
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	95.2		%	SP 6/25/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:104 6/26/96
LEAD	ICP, SW-846 METHOD 6010	7.3	0.35	MG/KG	F-4:83 6/27/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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CTM PROJECT #: 96.06198

CTM Task #: 960624A

Attention: MR. GREG GUIMOND

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 8:43
Sampled By : N/A
Sample Id: OSAR-D4
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 31
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	80.9		%	KT 6/27/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:104 6/26/96
LEAD	ICP, SW-846 METHOD 6010	27.1	0.32	MG/KG	F-4:83 6/27/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 9:05
Sampled By : N/A
Sample Id: OSAR-D5
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 32
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	94.4		%	KT 6/27/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:104 6/26/96
LEAD	ICP, SW-846 METHOD 6010	35.0	0.27	MG/KG	F-4:83 6/27/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 9:06
Sampled By : N/A
Sample Id: OSAR-D6
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 33
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	94.5		%	KT 6/27/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:104 6/26/96
LEAD	ICP, SW-846 METHOD 6010	18.4	0.29	MG/KG	F-4:83 6/27/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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CTM PROJECT #: 96.06198

CTM Task #: 960624A

Attention: MR. GREG GUIMOND

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 9:26
Sampled By : N/A
Sample Id: OSAR-C1
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 34
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	96.5		%	KT 6/27/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:104 6/26/96
LEAD	ICP, SW-846 METHOD 6010	971	0.52	MG/KG	F-4:84 6/28/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 9:12
Sampled By : N/A
Sample Id: OSAR-C2-03
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 35
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	98.0		%	KT 6/27/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:104 6/26/96
LEAD	ICP, SW-846 METHOD 6010	2.6	0.52	MG/KG	F-4:84 6/28/96

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CTM PROJECT #: 96.06198

CTM Task #: 960624A

Attention: MR. GREG GUIMOND

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 9:13
Sampled By : N/A
Sample Id: OSAR-C2-15
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 36
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	96.7		%	KT 6/27/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:104 6/26/96
LEAD	ICP, SW-846 METHOD 6010	2.8	0.51	MG/KG	F-4:84 6/28/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 9:11
Sampled By : N/A
Sample Id: OSAR-C3
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 37
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	93.9		%	KT 6/27/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:104 6/26/96
LEAD	ICP, SW-846 METHOD 6010	14.0	0.50	MG/KG	F-4:84 6/28/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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CTM PROJECT #: 96.06198

CTM Task #: 960624A

Attention: MR. GREG GUIMOND

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 9:07
Sampled By : N/A
Sample Id: OSAR-C4-03
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 38
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	92.9		%	KT 6/27/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:104 6/26/96
LEAD	ICP, SW-846 METHOD 6010	1,033	0.52	MG/KG	F-4:84 6/28/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 9:10
Sampled By : N/A
Sample Id: OSAR-C4-15
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 39
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	95.9		%	KT 6/27/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:104 6/26/96
LEAD	ICP, SW-846 METHOD 6010	407	0.50	MG/KG	F-4:84 6/28/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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CTM PROJECT #: 96.06198

CTM Task #: 960624A

Attention: MR. GREG GUIMOND

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 9:20
Sampled By : N/A
Sample Id: OSAR-C5
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 40
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	93.7		%	KT 6/27/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:104 6/26/96
LEAD	ICP, SW-846 METHOD 6010	159	0.56	MG/KG	F-4:84 6/28/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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CTM PROJECT #: 96.06198

CTM Task #: 960624A

Attention: MR. GREG GUIMOND

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 7:28
Sampled By : N/A
Sample Id: OSAR-J3
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 41
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	96.6		%	KT 6/27/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:104 6/26/96
LEAD	ICP, SW-846 METHOD 6010	4.8	0.48	MG/KG	F-4:84 6/28/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 7:28
Sampled By : N/A
Sample Id: OSAR-J3-DUP
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 42
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	93.3		%	KT 6/27/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:106 6/27/96
LEAD	ICP, SW-846 METHOD 6010	4.7	0.32	MG/KG	F-4:83 6/27/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 7:25
Sampled By : N/A
Sample Id: OSAR-J4
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 43
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	95.6		%	KT 6/27/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:106 6/27/96
LEAD	ICP, SW-846 METHOD 6010	6.5	0.31	MG/KG	F-4:83 6/27/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 7:24
Sampled By : N/A
Sample Id: OSAR-J5
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 44
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	95.8		%	KT 6/28/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:106 6/27/96
LEAD	ICP, SW-846 METHOD 6010	42.4	0.30	MG/KG	F-4:83 6/27/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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CTM PROJECT #: 96.06198

CTM Task #: 960624A

Attention: MR. GREG GUIMOND

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 7:25
Sampled By : N/A
Sample Id: OSAR-J6
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 45
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	97.6		%	KT 6/27/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:106 6/27/96
LEAD	ICP, SW-846 METHOD 6010	5.4	0.30	MG/KG	F-4:83 6/27/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 7:27
Sampled By : N/A
Sample Id: OSAR-13
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 46
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	97.2		%	KT 6/27/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:106 6/27/96
LEAD	ICP, SW-846 METHOD 6010	4.7	0.30	MG/KG	F-4:83 6/27/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 7:51
Sampled By : N/A
Sample Id: OSAR-I4
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 47
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	95.9		%	KT 6/27/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:106 6/27/96
LEAD	ICP, SW-846 METHOD 6010	37.4	0.30	MG/KG	F-4:83 6/27/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 7:45
Sampled By : N/A
Sample Id: OSAR-I5-03
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 48
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	98.4		%	KT 6/27/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:106 6/27/96
LEAD	ICP, SW-846 METHOD 6010	81.7	0.28	MG/KG	F-4:83 6/27/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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CTM PROJECT #: 96.06198

CTM Task #: 960624A

Attention: MR. GREG GUIMOND

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 8:05
Sampled By : N/A
Sample Id: OSAR-I6
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 49
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	96.3		%	KT 6/27/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:106 6/27/96
LEAD	ICP, SW-846 METHOD 6010	8.4	0.30	MG/KG	F-4:83 6/27/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 7:50
Sampled By : N/A
Sample Id: OSAR-15-15
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 50
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	96.9		%	WM 6/27/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:107 6/27/96
LEAD	ICP, SW-846 METHOD 6010	6.1	0.29	MG/KG	F-4:84 6/28/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 8:30
Sampled By : N/A
Sample Id: OSAR-F4
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 51
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	97.2		%	WM 6/27/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:107 6/27/96
LEAD	ICP, SW-846 METHOD 6010	8.5	0.30	MG/KG	F-4:84 6/28/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 8:31
Sampled By : N/A
Sample Id: OSAR-F5-DUP
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 52
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	93.8		%	WM 6/27/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:107 6/27/96
LEAD	ICP, SW-846 METHOD 6010	18.6	0.30	MG/KG	F-4:84 6/28/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 8:32
Sampled By : N/A
Sample Id: OSAR-F6
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 53
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	96.2		%	WM 6/27/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:107 6/27/96
LEAD	ICP, SW-846 METHOD 6010	7.6	0.27	MG/KG	F-4:84 6/28/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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Sampling Services

OHM REMEDIATION SERVICES
P.O. BOX 2202
PLATTSBURGH NY 12901

Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 8:33
Sampled By : N/A
Sample Id: OSAR-E3
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 54
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	96.6		%	WM 6/27/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:107 6/27/96
LEAD	ICP, SW-846 METHOD 6010	433	0.30	MG/KG	F-4:84 6/28/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

CTM Analytical Laboratories, Ltd.

15 Century Hill Drive
P.O. Box 727
Latham, NY 12110
518-786-7100
FAX 518-786-7139

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PLATTSBURGH NY 12901

Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 8:34
Sampled By : N/A
Sample Id: OSAR-E4
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 55
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	95.8		%	WM 6/27/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:107 6/27/96
LEAD	ICP, SW-846 METHOD 6010	7.3	0.31	MG/KG	F-4:84 6/28/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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CTM PROJECT #: 96.06198

CTM Task #: 960624A

Attention: MR. GREG GUIMOND

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 8:35
Sampled By : N/A
Sample Id: OSAR-E5-03
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 56
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	91.4		%	WM 6/27/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:107 6/27/96
LEAD	ICP, SW-846 METHOD 6010	162	0.32	MG/KG	F-4:84 6/28/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 8:37
Sampled By : N/A
Sample Id: OSAR-E5-15
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 57
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	91.8		%	WM 6/27/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:107 6/27/96
LEAD	ICP, SW-846 METHOD 6010	16.9	0.29	MG/KG	F-4:84 6/28/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 9:02
Sampled By : N/A
Sample Id: OSAR-E6
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 58
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	93.5		%	WM 6/27/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:108 6/28/96
LEAD	ICP, SW-846 METHOD 6010	10.6	0.31	MG/KG	F-4:85 7/1/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 8:39
Sampled By : N/A
Sample Id: OSAR-D2
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 59
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	97.3		%	WM 6/27/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:108 6/28/96
LEAD	ICP, SW-846 METHOD 6010	1.5	0.30	MG/KG	F-4:85 7/1/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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PLATTSBURGH NY 12901

Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 8:41
Sampled By : N/A
Sample Id: OSAR-D3
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 60
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	93.9		%	WM 6/27/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:108 6/28/96
LEAD	ICP, SW-846 METHOD 6010	5.6	0.31	MG/KG	F-4:85 7/1/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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PLATTSBURGH NY 12901

Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 9:27
Sampled By : N/A
Sample Id: OSAR-ER2
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 61
Date Received: 06/22/96
Collection Method: GRAB
Matrix: WATER

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3010	COMPLETED			D-20:105 6/26/96
LEAD	ICP, EPA METHOD 200.7	ND	0.003	MG/L	F-4:81 6/27/96

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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PLATTSBURGH NY 12901

Attention: MR. GREG GUIMOND

CTM PROJECT #: 96.06198

CTM Task #: 960624A

Purchase Order Number: 102-33-18
Date Sampled: 06/21/96 Time: 8:31
Sampled By : N/A
Sample Id: OSAR-F5
Location : PLATTSBURGH, NEW YORK

CTM Sample No: 960624A 62
Date Received: 06/22/96
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	94.6		%	WM 6/27/96
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-20:108 6/28/96
LEAD	ICP, SW-846 METHOD 6010	14.1	0.30	MG/KG	F-4:85 7/1/96

REMARKS:

END OF REPORT

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

CTM ANALYTICAL LABORATORIES, LTD.
QA/QC SUMMARY
INORGANICS
METALS #1

Client: OHM REMEDIATION SERVICES CORP.
88C ELM STREET
HOPKINTON, MASSACHUSETTS 01748

ATTN: Mike Quinlan

CTM Project No.:	96.06198
CTM Task No.:	960624A
Matrix:	SOIL
Sample Spiked:	960624A01
Sample Duplicate:	960624A01

ANALYTE	CONTROL % REC.	SPIKE % REC.	% RPD	BLANK ug/L	ICV % REC	CCV1 % REC	CCV2 % REC	CCV3 % REC
ALUMINUM								
ANTIMONY								
ARSENIC								
BARIUM								
BERYLLIUM								
BORON								
CALCIUM								
CADMIUM								
CHROMIUM								
COBALT								
COPPER								
IRON								
LEAD	99	0 *	1.9	< 5.0	94	102	102	100
MAGNESIUM								
MANGANESE								
MERCURY								
NICKEL								
POTASSIUM								
SELENIUM								
SILVER								
SODIUM								
THALLIUM								
TIN								
VANADIUM								
ZINC								

* SEE CASE NARRATIVE

THE CCV'S ACCOMPANY THE SAMPLES OF INTEREST. THERE MAY BE MORE THAN TWO CCV'S DEPENDING ON THE POSITION OF THE SAMPLES IN THE ANALYTICAL RUN.

	QC LIMITS		QC LIMITS
CONTROL	(80-120)	CONTROL & CCV's (Hg)	(80-120)
ICV & CCV's	(90-110)	SPIKE (TCLP)	(50-150)
SPIKE	(75-125)		
RPD (WATER)	(20)		

CTM ANALYTICAL LABORATORIES, LTD.
QA/QC SUMMARY
INORGANICS
METALS #2

Client: OHM REMEDIATION SERVICES CORP.
88C ELM STREET
HOPKINTON, MASSACHUSETTS 01748

ATTN: Mike Quinlan

CTM Project No.: 96.06198
CTM Task No.: 960624A
Matrix: SOIL
Sample Spiked: 960624A01
Sample Duplicate: 960624A01

ANALYTE	CONTROL % REC.	SPIKE % REC.	% RPD	BLANK ug/L	ICV % REC	CCV1 % REC	CCV2 % REC	CCV3 % REC
ALUMINUM								
ANTIMONY								
ARSENIC								
BARIUM								
BERYLLIUM								
BORON								
CALCIUM								
CADMIUM								
CHROMIUM								
COBALT								
COPPER								
IRON								
LEAD	99	98	-	< 5.0	94	102	102	100
MAGNESIUM								
MANGANESE								
MERCURY								
NICKEL								
POTASSIUM								
SELENIUM								
SILVER								
SODIUM								
THALLIUM								
TIN								
VANADIUM								
ZINC								

* SEE CASE NARRATIVE

THE CCV'S ACCOMPANY THE SAMPLES OF INTEREST. THERE MAY BE MORE THAN TWO CCV'S DEPENDING ON THE POSITION OF THE SAMPLES IN THE ANALYTICAL RUN.

	QC LIMITS		QC LIMITS
CONTROL	(80-120)	CONTROL & CCV's (Hg)	(80-120)
ICV & CCV's	(90-110)	SPIKE (TCLP)	(50-150)
SPIKE	(75-125)		
RPD (WATER)	(20)		

CTM ANALYTICAL LABORATORIES, LTD.
QA/QC SUMMARY
INORGANICS
METALS #3

Client: OHM REMEDIATION SERVICES CORP.
88C ELM STREET
HOPKINTON, MASSACHUSETTS 01748

ATTN: Mike Quinlan

CTM Project No.: 96.06198
CTM Task No.: 960624A
Matrix: WATER
Sample Spiked: 960618F01
Sample Duplicate: 960618F01

ANALYTE	CONTROL % REC.	SPIKE % REC.	% RPD	BLANK ug/L	ICV % REC	CCV1 % REC	CCV2 % REC	CCV3 % REC
ALUMINUM								
ANTIMONY								
ARSENIC								
BARIUM								
BERYLLIUM								
BORON								
CALCIUM								
CADMIUM								
CHROMIUM								
COBALT								
COPPER								
IRON								
LEAD	93	105	23 *	< 3.0	93	96	106	108
MAGNESIUM								
MANGANESE								
MERCURY								
NICKEL								
POTASSIUM								
SELENIUM								
SILVER								
SODIUM								
THALLIUM								
TIN								
VANADIUM								
ZINC								

* SEE CASE NARRATIVE

THE CCV'S ACCOMPANY THE SAMPLES OF INTEREST. THERE MAY BE MORE THAN TWO CCV'S DEPENDING ON THE POSITION OF THE SAMPLES IN THE ANALYTICAL RUN.

	QC LIMITS		QC LIMITS
CONTROL	(80-120)	CONTROL & CCV's (Hg)	(80-120)
ICV & CCV's	(90-110)	SPIKE (TCLP)	(50-150)
SPIKE	(75-125)		
RPD (WATER)	(20)		

CTM ANALYTICAL LABORATORIES, LTD.
QA/QC SUMMARY
INORGANICS
METALS #4

Client: OHM REMEDIATION SERVICES CORP.
88C ELM STREET
HOPKINTON, MASSACHUSETTS 01748

ATTN: Mike Quinlan

CTM Project No.:	96.06198
CTM Task No.:	960624A
Matrix:	SOIL
Sample Spiked:	960624A09
Sample Duplicate:	960624A09

ANALYTE	CONTROL % REC.	SPIKE % REC.	% RPD	BLANK ug/L	ICV % REC	CCV1 % REC	CCV2 % REC	CCV3 % REC
ALUMINUM								
ANTIMONY								
ARSENIC								
BARIUM								
BERYLLIUM								
BORON								
CALCIUM								
CADMIUM								
CHROMIUM								
COBALT								
COPPER								
IRON								
LEAD	90	117	32 *	< 5.0	94	94	96	96
MAGNESIUM								
MANGANESE								
MERCURY								
NICKEL								
POTASSIUM								
SELENIUM								
SILVER								
SODIUM								
THALLIUM								
TIN								
VANADIUM								
ZINC								

* SEE CASE NARRATIVE

THE CCV'S ACCOMPANY THE SAMPLES OF INTEREST. THERE MAY BE MORE THAN TWO CCV'S DEPENDING ON THE POSITION OF THE SAMPLES IN THE ANALYTICAL RUN.

	QC LIMITS		QC LIMITS
CONTROL	(80-120)	CONTROL & CCV's (Hg)	(80-120)
ICV & CCV's	(90-110)	SPIKE (TCLP)	(50-150)
SPIKE	(75-125)		
RPD (WATER)	(20)		

CTM ANALYTICAL LABORATORIES, LTD.
QA/QC SUMMARY
INORGANICS
METALS #5

Client: OHM REMEDIATION SERVICES CORP.
88C ELM STREET
HOPKINTON, MASSACHUSETTS 01748

ATTN: Mike Quinlan

CTM Project No.:	96.06198
CTM Task No.:	960624A
Matrix:	SOIL
Sample Spiked:	960624A18
Sample Duplicate:	960624A18

ANALYTE	CONTROL % REC.	SPIKE % REC.	% RPD	BLANK ug/L	ICV % REC	CCV1 % REC	CCV2 % REC	CCV3 % REC
ALUMINUM								
ANTIMONY								
ARSENIC								
BARIUM								
BERYLLIUM								
BORON								
CALCIUM								
CADMIUM								
CHROMIUM								
COBALT								
COPPER								
IRON								
LEAD	94	146 *	2.1	< 5.0	94	94	96	96
MAGNESIUM								
MANGANESE								
MERCURY								
NICKEL								
POTASSIUM								
SELENIUM								
SILVER								
SODIUM								
THALLIUM								
TIN								
VANADIUM								
ZINC								

* SEE CASE NARRATIVE

THE CCV'S ACCOMPANY THE SAMPLES OF INTEREST. THERE MAY BE MORE THAN TWO CCV'S DEPENDING ON THE POSITION OF THE SAMPLES IN THE ANALYTICAL RUN.

	QC LIMITS		QC LIMITS
CONTROL	(80-120)	CONTROL & CCV's (Hg)	(80-120)
ICV & CCV's	(90-110)	SPIKE (TCLP)	(50-150)
SPIKE	(75-125)		
RPD (WATER)	(20)		

CTM ANALYTICAL LABORATORIES, LTD.
QA/QC SUMMARY
INORGANICS
METALS #6

Client: OHM REMEDIATION SERVICES CORP.
88C ELM STREET
HOPKINTON, MASSACHUSETTS 01748

ATTN: Mike Quinlan

CTM Project No.:	96.06198
CTM Task No.:	960624A
Matrix:	SOIL
Sample Spiked:	960624A18
Sample Duplicate:	960624A18

ANALYTE	CONTROL % REC.	SPIKE % REC.	% RPD	BLANK ug/L	ICV % REC	CCV1 % REC	CCV2 % REC	CCV3 % REC
ALUMINUM								
ANTIMONY								
ARSENIC								
BARIUM								
BERYLLIUM								
BORON								
CALCIUM								
CADMIUM								
CHROMIUM								
COBALT								
COPPER								
IRON								
LEAD	94	77	-	< 5.0	94	94	96	96
MAGNESIUM								
MANGANESE								
MERCURY								
NICKEL								
POTASSIUM								
SELENIUM								
SILVER								
SODIUM								
THALLIUM								
TIN								
VANADIUM								
ZINC								

* SEE CASE NARRATIVE

THE CCV'S ACCOMPANY THE SAMPLES OF INTEREST. THERE MAY BE MORE THAN TWO CCV'S DEPENDING ON THE POSITION OF THE SAMPLES IN THE ANALYTICAL RUN.

	QC LIMITS		QC LIMITS
CONTROL	(80-120)	CONTROL & CCV's (Hg)	(80-120)
ICV & CCV's	(90-110)	SPIKE (TCLP)	(50-150)
SPIKE	(75-125)		
RPD (WATER)	(20)		

CTM ANALYTICAL LABORATORIES, LTD.
QA/QC SUMMARY
INORGANICS
METALS #7

Client: OHM REMEDIATION SERVICES CORP.
88C ELM STREET
HOPKINTON, MASSACHUSETTS 01748

ATTN: Mike Quinlan

CTM Project No.:	96.06198
CTM Task No.:	960624A
Matrix:	SOIL
Sample Spiked:	960624A26
Sample Duplicate:	960624A26

ANALYTE	CONTROL % REC.	SPIKE % REC.	% RPD	BLANK ug/L	ICV % REC	CCV1 % REC	CCV2 % REC	CCV3 % REC
ALUMINUM								
ANTIMONY								
ARSENIC								
BARIUM								
BERYLLIUM								
BORON								
CALCIUM								
CADMIUM								
CHROMIUM								
COBALT								
COPPER								
IRON								
LEAD	87	112	20.0	< 5.0	97	99	92	94
MAGNESIUM								
MANGANESE								
MERCURY								
NICKEL								
POTASSIUM								
SELENIUM								
SILVER								
SODIUM								
THALLIUM								
TIN								
VANADIUM								
ZINC								

* SEE CASE NARRATIVE

THE CCV'S ACCOMPANY THE SAMPLES OF INTEREST. THERE MAY BE MORE THAN TWO CCV'S DEPENDING ON THE POSITION OF THE SAMPLES IN THE ANALYTICAL RUN.

	QC LIMITS		QC LIMITS
CONTROL	(80-120)	CONTROL & CCV's (Hg)	(80-120)
ICV & CCV's	(90-110)	SPIKE (TCLP)	(50-150)
SPIKE	(75-125)		
RPD (WATER)	(20)		

CTM ANALYTICAL LABORATORIES, LTD.
QA/QC SUMMARY
INORGANICS
METALS #8

Client: OHM REMEDIATION SERVICES CORP.
88C ELM STREET
HOPKINTON, MASSACHUSETTS 01748

ATTN: Mike Quinlan

CTM Project No.: 96.06198
CTM Task No.: 960624A
Matrix: SOIL
Sample Spiked: 960624A34
Sample Duplicate: 960624A34

ANALYTE	CONTROL % REC.	SPIKE % REC.	% RPD	BLANK ug/L	ICV % REC	CCV1 % REC	CCV2 % REC	CCV3 % REC
ALUMINUM								
ANTIMONY								
ARSENIC								
BARIUM								
BERYLLIUM								
BORON								
CALCIUM								
CADMIUM								
CHROMIUM								
COBALT								
COPPER								
IRON								
LEAD	104	4.7 *	38 *	< 5.0	98	106	104	104
MAGNESIUM								
MANGANESE								
MERCURY								
NICKEL								
POTASSIUM								
SELENIUM								
SILVER								
SODIUM								
THALLIUM								
TIN								
VANADIUM								
ZINC								

* SEE CASE NARRATIVE

THE CCV'S ACCOMPANY THE SAMPLES OF INTEREST. THERE MAY BE MORE THAN TWO CCV'S DEPENDING ON THE POSITION OF THE SAMPLES IN THE ANALYTICAL RUN.

	QC LIMITS
CONTROL	(80-120)
ICV & CCV's	(90-110)
SPIKE	(75-125)
RPD (WATER)	(20)

	QC LIMITS
CONTROL & CCV's (Hg)	(80-120)
SPIKE (TCLP)	(50-150)

CTM ANALYTICAL LABORATORIES, LTD.
QA/QC SUMMARY
INORGANICS
METALS #9

Client: OHM REMEDIATION SERVICES CORP.
88C ELM STREET
HOPKINTON, MASSACHUSETTS 01748

ATTN: Mike Quinlan

CTM Project No.:	96.06198
CTM Task No.:	960624A
Matrix:	SOIL
Sample Spiked:	960624A42
Sample Duplicate:	960624A42

ANALYTE	CONTROL % REC.	SPIKE % REC.	% RPD	BLANK ug/L	ICV % REC	CCV1 % REC	CCV2 % REC	CCV3 % REC
ALUMINUM								
ANTIMONY								
ARSENIC								
BARIUM								
BERYLLIUM								
BORON								
CALCIUM								
CADMIUM								
CHROMIUM								
COBALT								
COPPER								
IRON								
LEAD	95	95	1.3	< 5.0	97	101	99	92
MAGNESIUM								
MANGANESE								
MERCURY								
NICKEL								
POTASSIUM								
SELENIUM								
SILVER								
SODIUM								
THALLIUM								
TIN								
VANADIUM								
ZINC								

* SEE CASE NARRATIVE

THE CCV'S ACCOMPANY THE SAMPLES OF INTEREST. THERE MAY BE MORE THAN TWO CCV'S DEPENDING ON THE POSITION OF THE SAMPLES IN THE ANALYTICAL RUN.

	QC LIMITS		QC LIMITS
CONTROL	(80-120)	CONTROL & CCV's (Hg)	(80-120)
ICV & CCV's	(90-110)	SPIKE (TCLP)	(50-150)
SPIKE	(75-125)		
RPD (WATER)	(20)		

CTM ANALYTICAL LABORATORIES, LTD.
QA/QC SUMMARY
INORGANICS
METALS #10

Client: OHM REMEDIATION SERVICES CORP.
88C ELM STREET
HOPKINTON, MASSACHUSETTS 01748

ATTN: Mike Quinlan

CTM Project No.:	96.06198
CTM Task No.:	960624A
Matrix:	SOIL
Sample Spiked:	960624A54
Sample Duplicate:	960624A54

ANALYTE	CONTROL % REC.	SPIKE % REC.	% RPD	BLANK ug/L	ICV % REC	CCV1 % REC	CCV2 % REC	CCV3 % REC
ALUMINUM								
ANTIMONY								
ARSENIC								
BARIUM								
BERYLLIUM								
BORON								
CALCIUM								
CADMIUM								
CHROMIUM								
COBALT								
COPPER								
IRON								
LEAD	105	763 *	76 *	< 5.0	98	104	106	104
MAGNESIUM								
MANGANESE								
MERCURY								
NICKEL								
POTASSIUM								
SELENIUM								
SILVER								
SODIUM								
THALLIUM								
TIN								
VANADIUM								
ZINC								

* SEE CASE NARRATIVE

THE CCV'S ACCOMPANY THE SAMPLES OF INTEREST. THERE MAY BE MORE THAN TWO CCV'S DEPENDING ON THE POSITION OF THE SAMPLES IN THE ANALYTICAL RUN.

	QC LIMITS		QC LIMITS
CONTROL	(80-120)	CONTROL & CCV's (Hg)	(80-120)
ICV & CCV's	(90-110)	SPIKE (TCLP)	(50-150)
SPIKE	(75-125)		
RPD (WATER)	(20)		

CTM ANALYTICAL LABORATORIES, LTD.
QA/QC SUMMARY
INORGANICS
METALS #11

Client: OHM REMEDIATION SERVICES CORP.
88C ELM STREET
HOPKINTON, MASSACHUSETTS 01748

ATTN: Mike Quinlan

CTM Project No.: 96.06198
CTM Task No.: 960624A
Matrix: SOIL
Sample Spiked: 960624A58
Sample Duplicate: 960624A58

ANALYTE	CONTROL % REC.	SPIKE % REC.	% RPD	BLANK ug/L	ICV % REC	CCV1 % REC	CCV2 % REC	CCV3 % REC
ALUMINUM								
ANTIMONY								
ARSENIC								
BARIUM								
BERYLLIUM								
BORON								
CALCIUM								
CADMIUM								
CHROMIUM								
COBALT								
COPPER								
IRON								
LEAD	100	148 *	20.0	< 5.0	98	96	97	107
MAGNESIUM								
MANGANESE								
MERCURY								
NICKEL								
POTASSIUM								
SELENIUM								
SILVER								
SODIUM								
THALLIUM								
TIN								
VANADIUM								
ZINC								

* SEE CASE NARRATIVE

THE CCV'S ACCOMPANY THE SAMPLES OF INTEREST. THERE MAY BE MORE THAN TWO CCV'S DEPENDING ON THE POSITION OF THE SAMPLES IN THE ANALYTICAL RUN.

	QC LIMITS		QC LIMITS
CONTROL	(80-120)	CONTROL & CCV's (Hg)	(80-120)
ICV & CCV's	(90-110)	SPIKE (TCLP)	(50-150)
SPIKE	(75-125)		
RPD (WATER)	(20)		

CTM ANALYTICAL LABORATORIES, LTD.
QA/QC SUMMARY
INORGANICS
METALS #12

Client: OHM REMEDIATION SERVICES CORP.
88C ELM STREET
HOPKINTON, MASSACHUSETTS 01748

ATTN: Mike Quinlan

CTM Project No.: 96.06198
CTM Task No.: 960624A
Matrix: SOIL
Sample Spiked: 960624A58
Sample Duplicate: 960624A58

ANALYTE	CONTROL % REC.	SPIKE % REC.	% RPD	BLANK ug/L	ICV % REC	CCV1 % REC	CCV2 % REC	CCV3 % REC
ALUMINUM								
ANTIMONY								
ARSENIC								
BARIUM								
BERYLLIUM								
BORON								
CALCIUM								
CADMIUM								
CHROMIUM								
COBALT								
COPPER								
IRON								
LEAD	100	91	-	< 5.0	98	96	97	107
MAGNESIUM								
MANGANESE								
MERCURY								
NICKEL								
POTASSIUM								
SELENIUM								
SILVER								
SODIUM								
THALLIUM								
TIN								
VANADIUM								
ZINC								

* SEE CASE NARRATIVE

THE CCV'S ACCOMPANY THE SAMPLES OF INTEREST. THERE MAY BE MORE THAN TWO CCV'S DEPENDING ON THE POSITION OF THE SAMPLES IN THE ANALYTICAL RUN.

	QC LIMITS		QC LIMITS
CONTROL	(80-120)	CONTROL & CCV's (Hg)	(80-120)
ICV & CCV's	(90-110)	SPIKE (TCLP)	(50-150)
SPIKE	(75-125)		
RPD (WATER)	(20)		

OHM Remediation Services Corp.

9606024A

CHAIN-OF-CUSTODY RECORD

LAB COPY

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Rev. 08/89

172226

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME	PROJECT LOCATION
Plattsburgh AFB	Plattsburgh, NY

PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.
17257	Kelly Fagan	518-562-3423

CLIENT'S REPRESENTATIVE	PROJECT MANAGER/SUPERVISOR
AFCEE-Dave Farnsworth	Ken Kukkonen

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) Total Pb	Total Pb (1 x 250 ml poly) HNO3	1 x 4 oz	REMARKS
1	OSARAB6 •	6-21-96	935		X	Old Small Arms Range - Sample Point AB6 Sand	1	X			
2	OSARA3 •	6-21-96	939		X	Old Small Arms Range - Sample Point A3 Sand	1	X			
3	OSARA4 •	6-21-96	941		X	Old Small Arms Range - Sample Point A4 Sand	1	X			
4	OSARA4-DUP	6-21-96	941		X	Old Small Arms Range - Sample Point A4 DUP Sand	1	X			
5	OSARA5 •	6-21-96	943		X	Old Small Arms Range - Sample Point A5 Sand	1	X			
6	OSARA6-03 •	6-21-96	943		X	Old Small Arms Range - Sample Point A6 Sand Sample Depth .3'	1	X			
7	OSARA6-15 •	6-21-96	945		X	Old Small Arms Range - Sample Point A6 Sand Sample Depth 1.5'	1	X			
8	OSARAA4 •	6-21-96	946		X	Old Small Arms Range - Sample Point AA4 Sand	1	X			
9	OSARAA5 •	6-21-96	947		X	Old Small Arms Range - Sample Point AA5 Sand	1	X			
10	OSAR-ER1	6-21-96	815		X	Old Small Arms Range - Equipment Rinsate Water	1		X		

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-10	J. Nalak	FedEx Airbill #136205556623	6-21-96	1130
2				6/22/96	11:00 AM
3					
4					

REMARKS

7 day TAT
Preserved @ 4°C
Temp. incident

SAMPLER'S SIGNATURE

Jennifer L. Nalak

620004

OHM Remediation Services Corp.

960624A

CHAIN-OF-CUSTODY RECORD

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Rev. 08/89

172220

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME	PROJECT LOCATION
Plattsburgh AFB	Plattsburgh, NY

PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.
17257	Kelly Fagan	518-562-3923

CLIENT'S REPRESENTATIVE	PROJECT MANAGER/SUPERVISOR
AFCEE-Dave Farnsworth	Ken Kukkonen

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) Total Pb 1x40z	REMARKS
11 1	OSARC6	6-21-96	919		X	Old Small Arms Range-Sample Point C6 Sand	1	X	
12 2	OSAR B1	6-21-96	925		X	Old Small Arms Range-Sample Point B1 Sand	1	X	
13 3	OSAR B2	6-21-96	925		X	Old Small Arms Range-Sample Point B2 Sand	1	X	
14 4	OSAR B3	6-21-96	924		X	Old Small Arms Range-Sample Point B3 Sand	1	X	
15 5	OSAR B4	6-21-96	923		X	Old Small Arms Range-Sample Point B4 Sand	1	X	
16 6	OSAR B5	6-21-96	922		X	Old Small Arms Range-Sample Point B5 Sand	1	X	
17 7	OSAR B6	6-21-96	921		X	Old Small Arms Range-Sample Point B6 Sand	1	X	
18 8	OSAR AB3	6-21-96	937		X	Old Small Arms Range-Sample Point AB3 Sand	1	X	
9	OSAR AB4	6-21-96	936		X	Old Small Arms Range-Sample Point AB4 Sand	1	X	
10	OSAR AB5	6-21-96	936		X	Old Small Arms Range-Sample Point AB5 Sand	1	X	

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-10	J. Hackett	FedEx Airbill # 136205523	6-21-96	1130
2			[signature]	6-21-96	11:00
3					
4					

REMARKS

7 day TAT

Preserved @ 4°C

Temp included

SAMPLER'S SIGNATURE

[signature]

08000

FIELD COPY

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9606124A

CHAIN-OF-CUSTODY RECORD

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Rev. 08/89

172217

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME	PROJECT LOCATION
Plattsburgh AFB	Plattsburgh, NY

PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.
17257	Kelly Fagan	518-562-3923

CLIENT'S REPRESENTATIVE	PROJECT MANAGER/SUPERVISOR
AFCEE - Dave Farnsworth	Ken Kukkonen

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) Total Pb	1 x 4oz	REMARKS
21	OSARH13	6-21-96	752		X	Old Small Arms Range - Sample Point H3 Sand	1	X		
22	OSARH14	6-21-96	753		X	Old Small Arms Range - Sample Point H4 Sand	1	X		
23	OSARH15	6-21-96	756		X	Old Small Arms Range - Sample Point H5 Sand	1	X		
24	OSARH6	6-21-96	804		X	Old Small Arms Range - Sample Point H6 Sand	1	X		
25	OSARG3	6-21-96	803		X	Old Small Arms Range - Sample Point G3 Sand	1	X		
26	OSARG4-03	6-21-96	757		X	Old Small Arms Range - Sample Point G4 Sand Sample Depth .3'	1	X		
27	OSARG4-15	6-21-96	802		X	Old Small Arms Range - Sample Point G4 Sand Sample Depth 1.5'	1	X		
28	OSARG5	6-21-96	827		X	Old Small Arms Range - Sample Point G5 Sand	1	X		
29	OSARG6	6-21-96	825		X	Old Small Arms Range - Sample Point G6 Sand	1	X		
30	OSARF3	6-21-96	829		X	Old Small Arms Range - Sample Point F3 Sand	1	X		

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-10	T. Neebah	FedEx Airbill #136205562 3	6-14-96	1130
2			Kevin M. King Jr III	6/21/96	11:00
3					
4					

REMARKS

7 day TAT
Preserved @ 4°C
temp included

SAMPLER'S SIGNATURE

T. Neebah

1800

OHM Remediation Services Corp.

9600424A

CHAIN-OF-CUSTODY RECORD

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PROJECT NAME	PROJECT LOCATION
Plattsburgh AFB	Plattsburgh, NY

PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.
17257	Kelly Fagan	518-562-3423

CLIENT'S REPRESENTATIVE	PROJECT MANAGER/SUPERVISOR
AFCEE - Dave Farnsworth	Ken Kukkonen

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) Total Pb 1x4oz	REMARKS
31 1	OSARD4 •	6-21-96	843		X	Old Small Arms Range - Sample Point D4 Sand	1	X	
32 2	OSARD5 •	6-21-96	905		X	Old Small Arms Range - Sample Point D5 Sand	1	X	
33 3	OSARD6 •	6-21-96	906		X	Old Small Arms Range - Sample Point D6 Sand	1	X	
24 4	OSARC1 •	6-21-96	926		X	Old Small Arms Range - Sample Point C1 Sand	1	X	
35 5	OSARC2-03 •	6-21-96	912		X	Old Small Arms Range - Sample Point C2 Sand Sample Depth .3'	1	X	
36 6	OSARC2-15 •	6-21-96	913		X	Old Small Arms Range - Sample Point C2 Sand Sample Depth 1.5'	1	X	
37 7	OSARC3 •	6-21-96	911		X	Old Small Arms Range - Sample Point C3 Sand	1	X	
38 8	OSARC4-03 •	6-21-96	907		X	Old Small Arms Range - Sample Point C4 Sand Sample Depth 3'	1	X	
39 9	OSARC4-15 •	6-21-96	910		X	Old Small Arms Range - Sample Point C4 Sand Sample Depth 1.5'	1	X	
40 10	OSARC5 •	6-21-96	920		X	Old Small Arms Range - Sample Point C5 Sand	1	X	

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-10	J. Nuckols	FedEx Air Bill #136205560 73	6-21-96	1130
2				6/22/96	1100
3					
4					

REMARKS

7 day TAT
Preserved @ 4°C
Temp Included

SAMPLER'S SIGNATURE

Jennifer L. Nuckols

2800

OHM Remediation Services Corp.

9606024A

CHAIN-OF-CUSTODY RECORD

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Rev. 08/89

172216

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME	PROJECT LOCATION
Plattsburgh AFB	Plattsburgh, NY

PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.
17257	Kelly Fagan	518-562-3923

CLIENT'S REPRESENTATIVE	PROJECT MANAGER/SUPERVISOR
AFCEE - Dave Farnsworth	Kent Kuhlmann

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) Total Pb 1x402	REMARKS
1	OSARJ3 •	6-21-96	728		X	Old Small Arms Range - Sample Point J3 Sand	1	X	
2	OSARJ3-DUP •	6-21-96	728		X	Old Small Arms Range - Sample Point J3 Sand DUP	1	X	
3	OSARJ4 •	6-21-96	725		X	Old Small Arms Range Sample Point J4 Sand	1	X	
4	OSARJ5 •	6-21-96	724		X	Old Small Arms Range - Sample Point - J5 Sand	1	X	
5	OSARJ6 •	6-21-96	725		X	Old Small Arms Range - Sample Point - J6 Sand	1	X	
6	OSARI3 •	6-21-96	727		X	Old Small Arms Range - Sample Point I6 Sand	1	X	
7	OSARI4 •	6-21-96	751		X	Old Small Arms Range - Sample Point I4 Sand	1	X	
8	OSARI5-03 •	6-21-96	745		X	Old Small Arms Range - Sample Point I5 Sand Sample Depth .3'	1	X	
9	OSARI6 •	6-21-96	905		X	Old Small Arms Range - Sample Point I6 Sand	1	X	
10	OSARI5-15 •	6-21-96	750		X	Old Small Arms Range - Sample Point Sand Sample Depth 1.5'	1	X	

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-10	J. Nichols	FedEx Airbill #136205562 5	6-21-96	1132
2		[signature]	[signature]	6/24/96	11:00
3				6/24/96	
4					

REMARKS

7 day TAT

Preserved @ 4°C

Temp included

SAMPLER'S SIGNATURE

[signature]

00083

OHM Remediation Services Corp.

9600247A

CHAIN-OF-CUSTODY RECORD

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Rev. 08/89

172218

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME	PROJECT LOCATION
Plattsburgh AFB	Plattsburgh, NY

PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.
17257	Kelly Fagan	518-562-3923

CLIENT'S REPRESENTATIVE	PROJECT MANAGER/SUPERVISOR
AFCEE - Dave Farnsworth	Ken Kukkonen

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) Total Pb / 1x402	REMARKS
1	OSARF4 •	6-21-96	830		X	OldSmall Arms Range - Sample Point F4 Sand	1	X	
2	OSARF5-DUP •	6-21-96	831		X	OldSmall Arms Range - Sample Point F5 Sand DUP	1	X	OSARF5 → see COC 172227
3	OSARF6 •	6-21-96	832		X	OldSmall Arms Range - Sample Point F6 Sand	1	X	
4	OSAR E3 •	6-21-96	833		X	OldSmall Arms Range - Sample Point E3 Sand	1	X	
5	OSAR E4 •	6-21-96	834		X	OldSmall Arms Range - Sample Point E4 Sand	1	X	
6	OSARE5-03 •	6-21-96	835		X	OldSmall Arms Range - Sample Point E5 Sand Sample Depth .3'	1	X	
7	OSARE5-15 •	6-21-96	837		X	OldSmall Arms Range - Sample Point E5 Sand Sample Depth 1.5'	1	X	
8	OSAR E6 •	6-21-96	902		X	OldSmall Arms Range - Sample Point E6 Sand	1	X	
9	OSAR D2 •	6-21-96	839		X	OldSmall Arms Range - Sample Point D2 Sand	1	X	
10	OSAR D3 •	6-21-96	841		X	OldSmall Arms Range - Sample Point D3 Sand	1	X	

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-10	T. Tabel	FedEx Air Bill #136265523	6-21-96	1130
2				6/22/96	11:00
3					
4					

REMARKS

7 day TAT
Preserved @ 4°C
Temp Included

SAMPLER'S SIGNATURE

T. Tabel

OHM Remediation Services Corp.

960624A

CHAIN-OF-CUSTODY RECORD

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Rev. 08/89

172227

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME	PROJECT LOCATION
Plattsburgh AFB	Plattsburgh, NY

PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.
17257	Kelly Fagan	518-562-3423

CLIENT'S REPRESENTATIVE	PROJECT MANAGER/SUPERVISOR
AFCEE-Dave Farnsworth	Ken Kutkevich

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) Total Pb (1x250ml Poly) HNO3	Total Pb 1 x 4 oz							REMARKS
1	OSAR-ER2	6-21-96	927		X	Oldsmobile Arms Range - Equipment Rinsate Water	1	X								
2	OSARF5	6-21-96	831		X	Oldsmobile Arms Range - Sample Point F5 Sand	1		X							
3																
4																
5																
6																
7																
8																
9																
10																

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-2	J. Nichols	FedEx Airbill #136205576 23	7-21-96	1130
2				7/21/96	1100
3					
4					

REMARKS

7 day TAT
Preserved @ 4°C
Temp. included

SAMPLER'S SIGNATURE

J. L. Nichols

580085

OHM Remediation Services Corp.
A Subsidiary of OHM Corporation

January 28, 1997 17257

Mr. Joseph Szot, AFCEE Field Engineer
AFCEE/DAP
426 US Oval, Suite 2210
Plattsburgh, NY 12903

RE: Contract No. F41624-94-D-8106, Delivery Order No. 0003, Plattsburgh AFB, NY
OSAR: Final Technical Report - Lead Sampling, Rev 01
CDRL A030, Document Control No. D003066

Dear Joe:

Enclosed is OHM Remediation Services Corp.'s submission of the above-referenced technical report. OHM has incorporated our responses to the EPA and NYSDEC comments that have been reviewed and accepted by AFCEE. At the time of this submittal, URS Consultants, Inc. (URS) has not completed their responses to the EPA and NYSDEC comments that referred to the Draft Site Investigation (SI) report, June 1995. Therefore, this document is being submitted without reviewing URS responses. Because our technical report referenced the SI, URS responses may affect our investigation.

If this document is deemed satisfactory, section 6.0 may be considered an attachment to OHM's Environmental Cleanup Plan, revision 01, dated February 1, 1996 (Document Control No. D003032). This submission satisfies the requirements for the above-referenced Contract Data Requirements List (CDRL). If you have any questions or require additional information, please notify Kelly Fagan or me at (518) 562-3423.

Sincerely,
OHM REMEDIATION SERVICES CORP.

Kenneth W. Kukkonen

Kenneth W. Kukkonen, P.E.
Senior Project Manager

Enclosure

pc: AFCEE/ERB (1 copy)
AFCEE/ERS (LT)
AFBCA/DAP (4 copies)
DCMAO (LT)
K. Kukkonen, OHM (LT)
J. Green, OHM (1 copy)
OHM Project File 17257

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