Click Here to Return to AR Index

6.4

Golder Associates Inc.
CONSULTING ENGINEERS

Center
Industri Plex
6.4
OU 01

SDMS DocID 000230844
SDMS #230844

PRE-DESIGN INVESTIGATION
TASK S-1
EXTENT OF HAZARDOUS SUBSTANCES IN SOILS
SUPPLEMENTAL REPORT

INDUSTRI-PLEX SITE
WOBURN, MASSACHUSETTS

Prepared for:

Industri-Plex Site Remedial Trust
800 North Lindbergh Boulevard
St. Louis, Missouri 63167

DISTRIBUTION:

8 Copies - Industri-Plex Site Remedial Trust
6 Copies - U.S. Environmental Protection Agency
1 Copy - Massachusetts Dept. of Environmental Protection
1 Copy - NUS Corporation
2 Copies - Golder Associates Inc.

January 1991 Project No.: 893-6255

GOLDER ASSOCIATES INC. • 20000 HORIZON WAY, SUITE 500, MT. LAUREL, NEW JERSEY 08054 • TELEPHONE (609) 273 1110 • FACSIMILE (609) 273-0778

OFFICES IN UNITED STATES • CANADA • UNITED KINGDOM • SWEDEN • ITALY • AUSTRALIA

Golder Associates Inc.
CONSULTING ENGINEERS

January 16, 1991 Project No. 893-6255

United States Environmental Protection Agency, Region 1
J.F.K. Federal Building, HRS-CAN-3
Boston, Massachusetts 02203-2211

Attn: Joseph DeCola, Remedial Project Manager

RE: INDUSTRI-PLEX SITE PRE-DESIGN INVESTIGATION
TASK S-1 DETERMINE EXTENT OF HAZARDOUS SUBSTANCES IN SOILS, SUPPLEMENTAL REPORT

Gentlemen:

On behalf of the Industri-Plex Site Remedial Trust, we are submitting the attached Hazardous Substances in Soils Supplemental Report for the Industri-Plex Site in Woburn, Massachusetts. This report is being submitted in accordance with the Pre-Design Work Plan (PDI) Task S-1 reporting requirements (PDI Sections 3.2.3.5 and 3.8.1.1.1, p. 37 and 126), and the September 1990 Task S-1 Interim Final Report (Section 8, p. 31).

Please contact us if you have any questions.

Very truly yours,

GOLDER ASSOCIATES INC.

Kenneth R. Moser

Kenneth R. Moser, Associate
Project Manager

RMG/JWV:rmg
C:6255S1bCL

cc: J. Naparstek, MDEP
A. Ostrofsky, NUS
D. L. Baumgartner, ISRT
W. L. Smull, ISRT

TABLE OF CONTENTS

SECTION		PAGE
Cover Letter		
Table of Contents		
1.0	INTRODUCTION	1
2.0	SUMMARY OF TASK S-1 INTERIM FINAL REPORT	2
3.0	METHOD OF INVESTIGATION	3
4.0	RESULTS AND DISCUSSION	6
5.0	DATA QUALITY OBJECTIVES	7
6.0	SUMMARY	9
7.0	REFERENCES	10

List of Tables

Table 1 - Analytical Methods, Container Type, Preservation, and Holding Times
Table 2 - Summary of Arsenic, Lead, Chromium, and Hide Residue Analyses
Table 3 - Summary of Task S-1 Analyses, Secondary Boreholes

List of Figures

Figure 1 - Sample Locations and Summary of As, Pb, Cr, and Hide Residue Analyses
Figure 2 - Hazardous Substances Below Action Levels Above Background

List of Appendices

Appendix A - Proposed Task S-1 Secondary Borehole Locations
Appendix B - Borehole Logs
Appendix C - Chain of Custody Forms
Appendix D - Data Assessment Forms
Appendix E - Summary of Pre-Design Investigation Results amd On-Site Remedial Investigation Results

1.0 INTRODUCTION

This report is submitted in fulfillment of the Supplemental Report deliverable as specified in Section 8 (p. 31) of the Industri-Plex Site Pre-Design Investigation (PDI) Task S-1 Interim Final Report (Golder Associates, 1990). The purpose of this report is to present the results of PDI Task S-1 data collection activities for secondary soil borings which were proposed in the PDI Task S-1 Interim Final Report (referred to as "the Interim Final Report" below).

Section 2 of this report presents a summary of the findings of Task S-1 as of September 1990 (the Interim Final Report). Section 3 presents the method of investigation. Section 4 presents and discusses the results, except for Data Quality Objectives which are discussed in Section 5. A summary is presented in Section 6, and references are given in Section 7. The proposed locations of the secondary boreholes (as presented in the Interim Final Report) are given in Appendix A. Secondary borehole logs are included in Appendix B, Chain-of-Custody Forms are included in Appendix C, and Data Assessment Forms are included in Appendix D. A summary table is included in Appendix E which presents the arsenic, lead, chromium, and hide residue results for all PDI Task S-1 analyses, and the on-site soil sample results from the Phase 1 and Phase 2 Remedial Investigations. These results are also presented on Figure 1.

2.0 SUMMARY OF PDI TASK S-1 INTERIM FINAL REPORT

The objective of PDI Task S-1 is to define areas of the site containing Hazardous Substances at or above Consent Decree action levels, as well as areas above background levels but below action levels. This objective was addressed by reviewing the data generated during the Remedial Investigation (RI), identifying data gaps, and executing a sampling and analysis program to address those data needs. Soil Data Needs were categorized and designated Soil Data Needs Nos. 1, 2a, 2b, 2c, 2d, 3, and 4. These data needs and the decision process for addressing them are given in the Task S-1 Interim Final Report (Golder Associates Inc., 1990a).

Soil Data Needs 1, 2b, 2d, 3, and 4 were satisfied by the Task S-1 results as of September 1990, but additional samples were needed to completely satisfy Soil Data Needs 2a and 2c. The Interim Final Report included tables and figures summarizing the task results as of September 1990, and proposed 34 additional secondary soil borings to satisfy Soil Data Needs 2a and 2c. These samples were located in both on- and off-site areas and are shown in Appendix A. The on-site samples were located north of the East and West Hide Piles, north of the East-Central Hide Pile, south of the South Hide Pile, and along Boston Edison Right of Way No. 9. The off-site samples are located along the western edge of the site, and along the MBTA rail line.

3.0 METHOD OF INVESTIGATION

3.1 Field Methods

Samples for analysis of arsenic, lead, chromium, and hide residue were collected in accordance with Golder Associates Standard Operating Procedures (SOPs) given in the Pre-Design Work Plan (PDWP, Golder Associates Inc., 1989a) and the Field Sampling Plan (FSP, Golder Associates Inc., 1989b). A small track-mounted drill rig was used to collect most soil samples using a split spoon sampler. A stainless steel hand auger was also used at some locations. These samplers were decontaminated between each sampling interval within a borehole in accordance with the Golder Associates SOP "Sampling Surface Soils for Chemical Analysis" which is included in the FSP. This procedure includes an Alconox wash, tap water rinse, distilled water rinse, trace metal analysis-grade nitric acid rinse, and a final distilled water rinse. Split spoon refusal occurred at less than 36 inches in three of the boreholes (134, 167, 170). Samples for arsenic, lead, and chromium analysis were transferred from the sampler to the sample jar using a disposable plastic spoon. Any remaining sample was placed in air-tight plastic bags and labelled with a waterproof marker for hide residue analysis. Sample containers, sample preservation, and holding times are given in Table 1.

The recovered soils were described and documented on borehole logs which are given in Appendix B. Chain of custody forms (given in Appendix C) were used to document each sample submitted to the laboratory for analysis. Chain of custody procedures outlined in the Quality Assurance Project Plan (QAPjP, Golder Associates Inc., 1989c) were followed.

Field QA/QC procedures included adherence to SOPs and collection of equipment rinsate blank, field duplicate, and matrix spike/matrix spike duplicate (MS/MSD) samples. Sample locations were documented in the field with a wooden stake labelled with the PDI task number and borehole number. The sample locations were surveyed by SAIC Engineering Inc. of Lakeville, Massachusetts. The surveyed sample locations are shown on Figure 1.

3.2 Laboratory Methods

Samples were analyzed by Radian Corporation (Sacramento, CA) in accordance with the methods listed in Table 1. Arsenic, lead, and chromium were analyzed by SW-846 methods. Laboratory QA/QC procedures are discussed in the QAPjP and include use of standard operating procedures for sample analysis, data reduction, and reporting, and specifications for instrument calibration, method blanks, and laboratory control samples.

Microscopy for identification of hide residue was performed by Golder Associates in accordance with "Procedure for Laboratory Identification of Hide Residue in Soil" given in the Interim Final Report (Golder Associates Inc., 1990a). This procedure involved inspection of both moist and oven-dried samples for the presence of hair fibers, which were used as indicators of the presence of hide residue. It was determined that hair fibers could be distinguished from fine roots more reliably in the oven-dried samples. Therefore, the moist microscopy results were not used. Notations of the presence of hide residue on the field borehole log were also used to identify their extent, but field notations on borehole logs could be rejected based upon the results of microscopy. Over five percent of the samples were checked by a second microscopist, including all samples in which the first microscopist identified hair

fibers. If the duplicate result differed from the primary result, the sample was examined by a third microscopist whose result was considered to be conclusive.

4.0 RESULTS AND DISCUSSION

The results of arsenic, lead, chromium, and hide residue analysis for the 34 secondary borings are presented in Table 2. Hide residue was detected in several samples for which arsenic, lead, and chromium were below Consent Decree action levels, especially in the Boston Edison Right of Way No. 9. This was also found to be the case for other previously reported PDI samples in the Boston Edison Right of Way No. 9. The extent of Hazardous Substances above Consent Decree action levels, hide piles as shown in the Consent Decree, and hide residue detected in borehole samples within 36 inches of the ground surface, are shown on Figure 1. These limits will be used during Remedial Design to define the extent of remedial measures for soil including Institutional Controls, the permeable cap, and alternative remedies defined in the Consent Decree for developed areas (such as asphalt paving or excavation/consolidation).

Hide residue and/or arsenic, lead, or chromium above Consent Decree action levels were detected in several of the off-site secondary borings, and in many of the on-site secondary borings along the Boston Edison Right of Way No. 9. Arsenic, lead, or chromium were detected above Consent Decree action levels in areas west of the site and along the MBTA rail line south of the site.

Samples from most of the secondary boreholes contained arsenic, lead, and/or chromium above background levels. Figure 2 shows the areas where arsenic, lead, and chromium occur above background levels, but below Consent Decree action levels, based upon the new data from the secondary boreholes. It also shows areas where hide residue was detected, but Hazardous Substances were not detected above Consent Decree action levels.

5.0 DATA QUALITY OBJECTIVES

Field duplicate, matrix spike, matrix spike duplicate, and equipment rinsate blank samples were used to assess data quality. QA/QC data for these samples were compared to data acceptance criteria presented in the QAPjP. The total number of primary and QC samples collected during the secondary boring program are given in Table 3. The arsenic, lead, and chromium data were found to be precise, accurate, representative, comparable and complete (see Appendix D).

The precision of the data for the secondary borehole program were found to be sufficient to support Remedial Design. Over 94 percent of the field duplicates were found to be within the control limits for precision specified in the QAPjP. However, only 70 percent of the matrix spike/matrix spike duplicate pairs had RPDs within the control limit. The percent of the MS/MSD pairs with RPDs within control limits by metal are as follows: arsenic=78 percent, lead=75 percent, and chromium=60 percent. Therefore, an overall assessment of precision indicates that the arsenic and lead data are precise, but the chromium data should be evaluated on a case-by-case basis for each borehole. If a specific part of the site with the same soil type collected on the same day had acceptable MS/MSD RPDs, then those data were considered to be precise. For example, the chromium results for borings 167-169 are all from the same part of the site and the MS/MSD RPD for a sample from boring 169 was within the control limits. At borehole 166, the MS/MSD RPD is not within control limits, but the sample was collected at the site boundary, such that soils will be remediated up to the site boundary. Evaluation of all the chromium data using this approach indicate that the precision of the data is sufficient to support Remedial Design.

The accuracy of the data from the secondary borehole program were found to be sufficient to support Remedial Design. The percent of the MS/MSD samples with recoveries within the control limits by metal were as follows: arsenic=67 percent, lead=88 percent, and chromium=50 percent. Therefore, the lead data are accurate, but the arsenic and chromium data need to be evaluated on a case-by-case basis for each borehole as was done for chromium precision above. For example, one can conclude that the chromium concentrations are below Consent Decree action levels in the sample from borehole 169 because the primary sample result is below Consent Decree action levels and the chromium percent recoveries in MS/MSD samples at borehole 169 were all greater than 100 percent. Such an evaluation indicates that the accuracy of the arsenic and chromium data is sufficient to support Remedial Design.

The data are considered representative because approved standard operating procedures were used in the field and laboratory, and action levels based upon equipment rinsate blanks (16 ppm for arsenic and 1.6 ppm for chromium) are well below background concentrations (arsenic=25 ppm, lead=85 ppm, chromium=23 ppm) determined in the Interim Final Report. The data are comparable to RI data (Stauffer Chemical Company, 1983, 1984) because both investigations used standard EPA methods which are accepted as providing valid data. Data completeness for the secondary boring program is over 97 percent.

Field duplicate, MS/MSD, and equipment rinsate blank samples were collected at a rate of at least 1 per 20 primary samples. All samples were analyzed within the specified holding times.

6.0 SUMMARY

The objective of Task S-1 was to define the extent of Hazardous Substances at or above Consent Decree action levels, as well as areas above background levels but below action levels. This objective was addressed by reviewing the data generated during the RI, identifying data needs, and executing a sampling and analysis program to address those data needs. Because the data needs were not satisfied by the initial Task S-1 analyses, a program of secondary boreholes was necessary.

Figures 1 and 2 present all the results of PDI Task S-1. The on-site extent of Hazardous Substances have been defined in sufficient detail to support Remedial Design. Arsenic, lead, chromium, and/or hide residue also occur south of the site along the MBTA rail line and west of the site. A table summarizing the arsenic, lead, chromium and hide residue results for all PDI borings, and all on-site RI borings is given in Appendix E.

7.0 REFERENCES

Golder Associates Inc., 1989a. Pre-Design Work Plan, Revision 1, Industri-Plex Site, Woburn, MA, December 1989.

Golder Associates Inc., 1989b. Pre-Design Field Sampling Plan, Revision 1, Industri-Plex Site, Woburn, MA, December 1989.

Golder Associates Inc., 1989c. Pre-Design Quality Assurance Project Plan, Revision 1, Industri-Plex Site, Woburn, MA, December 1989.

Golder Associates Inc., 1990a. Pre-Design Investigation Task S-1, Extent of Hazardous Substances in Soils, Interim Final Report, Industri-Plex Site, Woburn, MA, September 1990.

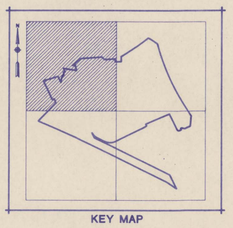
Golder Associates Inc., 1990b. Pre-Design Investigation Task S-2, Stability of Hide Piles, Interim Final Report, Industri-Plex Site, Woburn, MA, September 1990.

Golder Associates Inc., 1990c. Pre-Design Investigation Task S-4, Foundation Data, Interim Final Report, Industri-Plex Site, Woburn MA, September 1990.

Golder Assoicates Inc., 1990d. Pre-Design Investigation Task GW-1, Plume Delineation, Phase 1 Interim Report, Industri-Plex Site, Woburn, MA, prepared by Roux Associates, Inc., Huntington, NY, August 1990.

Stauffer Chemical Company, 1983. Woburn Environmental Studies Phase 1 Report, Environmental Assessments, Industri-Plex Site, Woburn, MA, April 1983.

Stauffer Chemical Company, 1984. Woburn Environmental Studies Phase 2 Report, Industri-Plex Site, Woburn, MA.



KEY MAP

LEGEND

- RI OR PDI BORING OR TEST PIT WITH As, Pb AND/OR Cr CONCENTRATION LEVELS BELOW CONSENT DECREE ACTION LEVELS. DATA AVAILABLE FOR ONLY ONE SOIL HORIZON WITHIN 36 INCHES OF GROUND SURFACE
- RI OR PDI BORING OR TEST PIT WITH As, Pb AND/OR Cr CONCENTRATION LEVELS BELOW CONSENT DECREE ACTION LEVELS. DATA AVAILABLE FOR MULTIPLE SOIL HORIZON WITHIN 36 INCHES OF GROUND SURFACE
- RI OR PDI BORING OR TEST PIT WITH As, Pb AND/OR Cr CONCENTRATION LEVELS AT OR ABOVE CONSENT DECREE ACTION LEVELS. DATA AVAILABLE AT ONE OR MORE SOIL HORIZONS WITHIN 36 INCHES OF GROUND SURFACE
- RI BORING OR TEST PIT LOG CHECKED FOR HIDE RESIDUE. As, Pb AND Cr DATA ONLY AVAILABLE FOR DEPTHS GREATER THAN 36 INCHES OF GROUND SURFACE
- RI OR PDI BORING OR TEST PIT LOG THAT WAS CHECKED FOR HIDE RESIDUE, BUT WAS NOT SAMPLED FOR As, Pb OR Cr
- HIDE PILES BASED ON CONSENT DECREE
- HIDE RESIDUE PRESENT BASED ON RI AND/OR PDI DATA
- SITE BOUNDARY
- LIMIT OF SOILS WITH As, Pb AND/OR Cr CONCENTRATIONS AT OR ABOVE CONSENT DECREE ACTION LEVELS AND/OR HIDE RESIDUE AND HIDE PILES
- STREAMS AND WATERCOURSES

NOTES

1.) RI DATA FROM DIGITAL FILE PROVIDED BY U.S. EPA REGION I, PHASE I RI REPORT AND PHASE II RI REPORT (STAUFFER, 1983 AND 1984). PRE-DESIGN INVESTIGATION DATA FROM PDI TASK S-1, TASK S-2, TASK S-4 AND TASK GW-1 INTERIM FINAL REPORTS (GOLDER ASSOCIATES, 1990a, 1990b, 1990c AND 1990d).

2.) PROPERTY BOUNDARY AND PDI BORING AND TEST PIT LOCATION SURVEY PERFORMED BY SAIC ENGINEERING INC., APRIL 1990.

3.) RI BORING AND TEST PIT LOCATIONS TAKEN FROM PHASE I AND PHASE II RI DRAWINGS (STAUFFER, 1983 AND 1984).

JAN 16 1991

100 0 100 200
scale feet

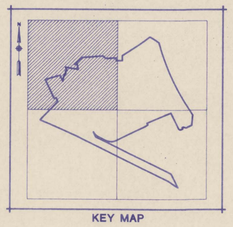
REV	DATE	DESCRIPTION	DR BY	RVW BY

SCALE: AS SHOWN			PROJECT: INDUSTRI-PLEX SITE REMEDIAL TRUST WOBURN, MASSACHUSETTS
PROJECT No. 893-6255			
DES BY	RMG	01/08/91	SHEET TITLE: RESULTS OF SOIL As, Pb, Cr AND HIDE RESIDUE ANALYSES
DR BY	JSG	01/08/91	
CHK BY	KMC	01/16/91	
RVW BY	[illegible]	1/16/91	

Golder Associates
Mt. Laurel, New Jersey

SHEET 1 OF 4
DRAWING No. MA01-423

FIGURE 1



KEY MAP

LEGEND

- ○ RI OR PDI BORING OR TEST PIT WITH As, Pb AND/OR Cr CONCENTRATION LEVELS BELOW CONSENT DECREE ACTION LEVELS. DATA AVAILABLE FOR ONLY ONE SOIL HORIZON WITHIN 36 INCHES OF GROUND SURFACE
- ⊗ RI OR PDI BORING OR TEST PIT WITH As, Pb AND/OR Cr CONCENTRATION LEVELS BELOW CONSENT DECREE ACTION LEVELS. DATA AVAILABLE FOR MULTIPLE SOIL HORIZON WITHIN 36 INCHES OF GROUND SURFACE
- RI OR PDI BORING OR TEST PIT WITH As, Pb AND/OR Cr CONCENTRATION LEVELS AT OR ABOVE CONSENT DECREE ACTION LEVELS. DATA AVAILABLE AT ONE OR MORE SOIL HORIZONS WITHIN 36 INCHES OF GROUND SURFACE
- □ RI BORING OR TEST PIT LOG CHECKED FOR HIDE RESIDUE. As, Pb AND Cr DATA ONLY AVAILABLE FOR DEPTHS GREATER THAN 36 INCHES OF GROUND SURFACE
- ⊠ RI OR PDI BORING OR TEST PIT LOG THAT WAS CHECKED FOR HIDE RESIDUE, BUT WAS NOT SAMPLED FOR As, Pb OR Cr
- HIDE PILES BASED ON CONSENT DECREE
- HIDE RESIDUE PRESENT BASED ON RI AND/OR PDI DATA
- SITE BOUNDARY
- LIMIT OF SOILS WITH As, Pb AND/OR Cr CONCENTRATIONS AT OR ABOVE CONSENT DECREE ACTION LEVELS AND/OR HIDE RESIDUE AND HIDE PILES
- STREAMS AND WATERCOURSES

NOTES

1.) RI DATA FROM DIGITAL FILE PROVIDED BY U.S. EPA REGION I, PHASE I RI REPORT AND PHASE II RI REPORT (STAUFFER, 1983 AND 1984). PRE-DESIGN INVESTIGATION DATA FROM PDI TASK S-1, TASK S-2, TASK S-4 AND TASK GW-1 INTERIM FINAL REPORTS (GOLDER ASSOCIATES, 1990a, 1990b, 1990c AND 1990d).

2.) PROPERTY BOUNDARY AND PDI BORING AND TEST PIT LOCATION SURVEY PERFORMED BY SAIC ENGINEERING INC., APRIL 1990.

3.) RI BORING AND TEST PIT LOCATIONS TAKEN FROM PHASE I AND PHASE II RI DRAWINGS (STAUFFER, 1983 AND 1984).

JAN 16 1991

100 0 100 200
scale feet

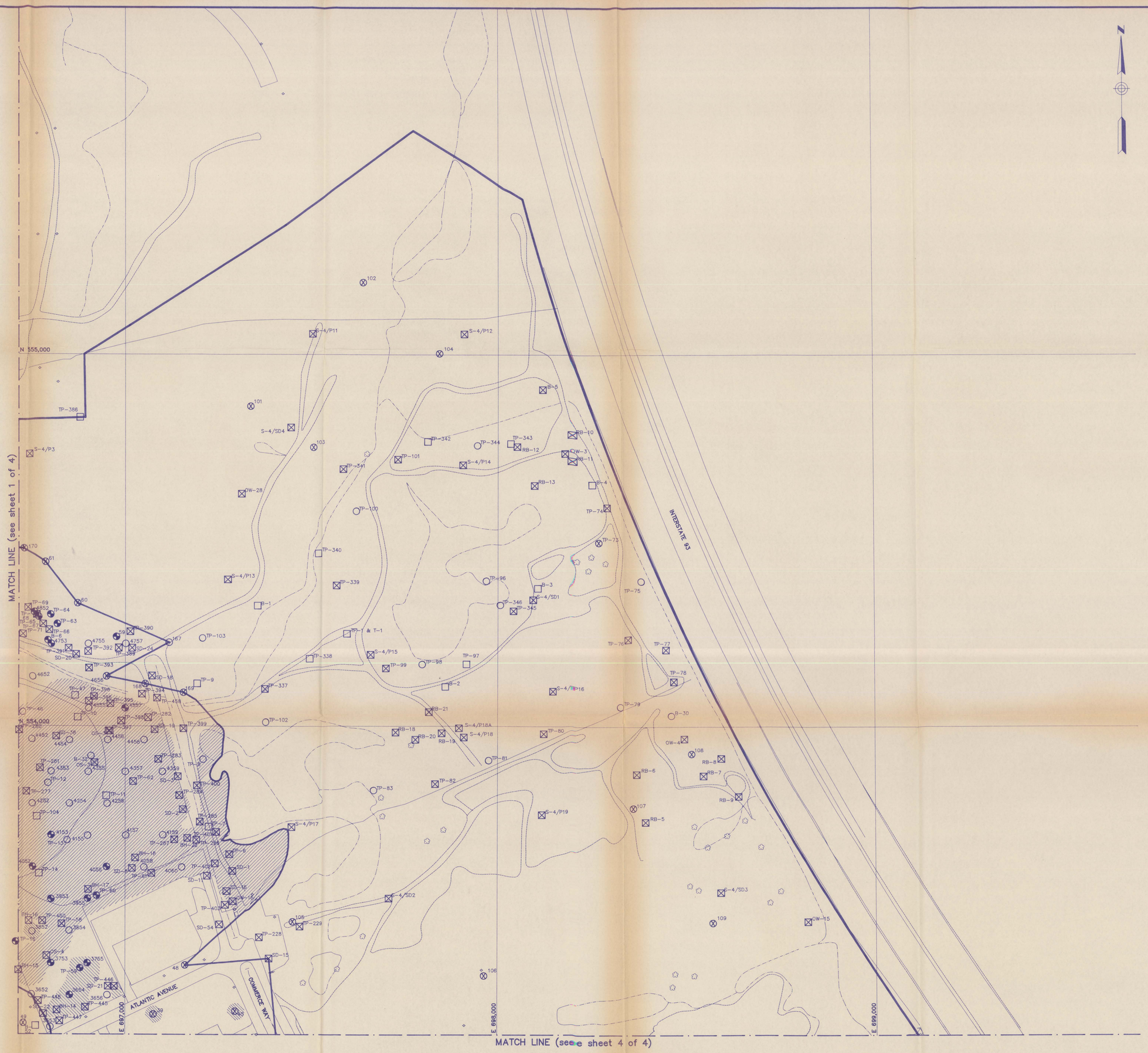
REV	DATE	DESCRIPTION	DR BY	RVW BY

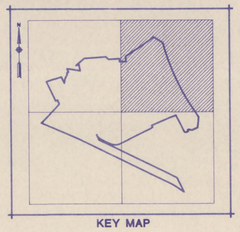
SCALE:	AS SHOWN	PROJECT:	INDUSTRI-PLEX SITE REMEDIAL TRUST WOBURN, MASSACHUSETTS
PROJECT No.	893-6255		
DES BY	RMG	01/08/91	SHEET TITLE: RESULTS OF SOIL As, Pb, Cr AND HIDE RESIDUE ANALYSES
DR BY	JSG	01/08/91	
CHK BY	RMG	01/16/91	
RVW BY	HAW	1/16/91	

Golder Associates
Mt. Laurel, New Jersey

SHEET 1 OF 4
DRAWING No. MA01-423

FIGURE 1





KEY MAP

LEGEND

- ○ RI OR PDI BORING OR TEST PIT WITH As, Pb AND/OR Cr CONCENTRATION LEVELS BELOW CONSENT DECREE ACTION LEVELS. DATA AVAILABLE FOR ONLY ONE SOIL HORIZON WITHIN 36 INCHES OF GROUND SURFACE
- ⊗ RI OR PDI BORING OR TEST PIT WITH As, Pb AND/OR Cr CONCENTRATION LEVELS BELOW CONSENT DECREE ACTION LEVELS. DATA AVAILABLE FOR MULTIPLE SOIL HORIZON WITHIN 36 INCHES OF GROUND SURFACE
- RI OR PDI BORING OR TEST PIT WITH As, Pb AND/OR Cr CONCENTRATION LEVELS AT OR ABOVE CONSENT DECREE ACTION LEVELS. DATA AVAILABLE AT ONE OR MORE SOIL HORIZONS WITHIN 36 INCHES OF GROUND SURFACE
- □ RI BORING OR TEST PIT LOG CHECKED FOR HIDE RESIDUE. As, Pb AND Cr DATA ONLY AVAILABLE FOR DEPTHS GREATER THAN 36 INCHES OF GROUND SURFACE
- ⊠ RI OR PDI BORING OR TEST PIT LOG THAT WAS CHECKED FOR HIDE RESIDUE, BUT WAS NOT SAMPLED FOR As, Pb OR Cr
- HIDE PILES BASED ON CONSENT DECREE
- HIDE RESIDUE PRESENT BASED ON RI AND/OR PDI DATA
- SITE BOUNDARY
- LIMIT OF SOILS WITH As, Pb AND/OR Cr CONCENTRATIONS AT OR ABOVE CONSENT DECREE ACTION LEVELS AND/OR HIDE RESIDUE AND HIDE PILES
- STREAMS AND WATERCOURSES

NOTES

1.) RI DATA FROM DIGITAL FILE PROVIDED BY U.S. EPA REGION I, PHASE I RI REPORT AND PHASE II RI REPORT (STAUFFER, 1983 AND 1984). PRE-DESIGN INVESTIGATION DATA FROM PDI TASK S-1, TASK S-2, TASK S-4 AND TASK GW-1 INTERIM FINAL REPORTS (GOLDER ASSOCIATES, 1990a, 1990b, 1990c AND 1990d).

2.) PROPERTY BOUNDARY AND PDI BORING AND TEST PIT LOCATION SURVEY PERFORMED BY SAIC ENGINEERING INC., APRIL 1990.

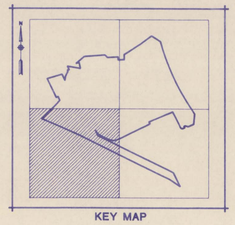
3.) RI BORING AND TEST PIT LOCATIONS TAKEN FROM PHASE I AND PHASE II RI DRAWINGS (STAUFFER, 1983 AND 1984).

100 0 100 200
scale feet

JAN 16 1991

REV	DATE	DESCRIPTION	DR BY	RVW BY

SCALE: AS SHOWN			PROJECT: INDUSTRI-PLEX SITE REMEDIAL TRUST WOBURN, MASSACHUSETTS
PROJECT No. 893-6255			
DES BY	RMG	01/09/91	SHEET TITLE: RESULTS OF SOIL As, Pb, Cr AND HIDE RESIDUE ANALYSES
DR BY	JSG	01/09/91	
CHK BY	[illegible]	01/16/91	
RVW BY	[illegible]	1/16/91	
Golder Associates, Mt. Laurel, New Jersey			SHEET 2 OF 4
			DRAWING No. MA01-424
			FIGURE 1



KEY MAP

LEGEND

- RI OR PDI BORING OR TEST PIT WITH As, Pb AND/OR Cr CONCENTRATION LEVELS BELOW CONSENT DECREE ACTION LEVELS. DATA AVAILABLE FOR ONLY ONE SOIL HORIZON WITHIN 36 INCHES OF GROUND SURFACE
- RI OR PDI BORING OR TEST PIT WITH As, Pb AND/OR Cr CONCENTRATION LEVELS BELOW CONSENT DECREE ACTION LEVELS. DATA AVAILABLE FOR MULTIPLE SOIL HORIZON WITHIN 36 INCHES OF GROUND SURFACE
- RI OR PDI BORING OR TEST PIT WITH As, Pb AND/OR Cr CONCENTRATION LEVELS AT OR ABOVE CONSENT DECREE ACTION LEVELS. DATA AVAILABLE AT ONE OR MORE SOIL HORIZONS WITHIN 36 INCHES OF GROUND SURFACE
- RI BORING OR TEST PIT LOG CHECKED FOR HIDE RESIDUE. As, Pb AND Cr DATA ONLY AVAILABLE FOR DEPTHS GREATER THAN 36 INCHES OF GROUND SURFACE
- RI OR PDI BORING OR TEST PIT LOG THAT WAS CHECKED FOR HIDE RESIDUE, BUT WAS NOT SAMPLED FOR As, Pb OR Cr
- HIDE PILES BASED ON CONSENT DECREE
- HIDE RESIDUE PRESENT BASED ON RI AND/OR PDI DATA
- SITE BOUNDARY
- LIMIT OF SOILS WITH As, Pb AND/OR Cr CONCENTRATIONS AT OR ABOVE CONSENT DECREE ACTION LEVELS AND/OR HIDE RESIDUE AND HIDE PILES
- STREAMS AND WATERCOURSES

NOTES

1.) RI DATA FROM DIGITAL FILE PROVIDED BY U.S. EPA REGION I, PHASE I RI REPORT AND PHASE II RI REPORT (STAUFFER, 1983 AND 1984). PRE-DESIGN INVESTIGATION DATA FROM PDI TASK S-1, TASK S-2, TASK S-4 AND TASK GW-1 INTERIM FINAL REPORTS (GOLDER ASSOCIATES, 1990a, 1990b, 1990c AND 1990d).

2.) PROPERTY BOUNDARY AND PDI BORING AND TEST PIT LOCATION SURVEY PERFORMED BY SAIC ENGINEERING INC., APRIL 1990.

3.) RI BORING AND TEST PIT LOCATIONS TAKEN FROM PHASE I AND PHASE II RI DRAWINGS (STAUFFER, 1983 AND 1984).

JAN 16 1991

DEC

100 0 100 200
scale feet

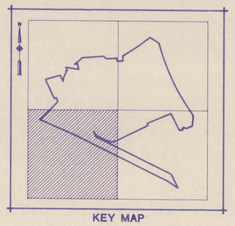
REV	DATE	DESCRIPTION	DR BY	RVW BY

SCALE: AS SHOWN			PROJECT: INDUSTRI-PLEX SITE REMEDIAL TRUST WOBURN, MASSACHUSETTS
PROJECT No. 893-6255			
DES BY	RMG	01/08/91	SHEET TITLE: RESULTS OF SOIL As, Pb, Cr AND HIDE RESIDUE ANALYSES
DR BY	JSG	01/08/91	
CHK BY	RMG	01/16/91	
RVW BY	[illegible]	1/16/91	

Golder Associates
Mt. Laurel, New Jersey

SHEET 3 OF 4
DRAWING No. MA01-425

FIGURE 1



LEGEND

- RI OR PDI BORING OR TEST PIT WITH As, Pb AND/OR Cr CONCENTRATION LEVELS BELOW CONSENT DECREE ACTION LEVELS. DATA AVAILABLE FOR ONLY ONE SOIL HORIZON WITHIN 36 INCHES OF GROUND SURFACE
- RI OR PDI BORING OR TEST PIT WITH As, Pb AND/OR Cr CONCENTRATION LEVELS BELOW CONSENT DECREE ACTION LEVELS. DATA AVAILABLE FOR MULTIPLE SOIL HORIZON WITHIN 36 INCHES OF GROUND SURFACE
- RI OR PDI BORING OR TEST PIT WITH As, Pb AND/OR Cr CONCENTRATION LEVELS AT OR ABOVE CONSENT DECREE ACTION LEVELS. DATA AVAILABLE AT ONE OR MORE SOIL HORIZONS WITHIN 36 INCHES OF GROUND SURFACE
- RI BORING OR TEST PIT LOG CHECKED FOR HIDE RESIDUE. As, Pb AND Cr DATA ONLY AVAILABLE FOR DEPTHS GREATER THAN 36 INCHES OF GROUND SURFACE
- RI OR PDI BORING OR TEST PIT LOG THAT WAS CHECKED FOR HIDE RESIDUE, BUT WAS NOT SAMPLED FOR As, Pb OR Cr
- HIDE PILES BASED ON CONSENT DECREE
- HIDE RESIDUE PRESENT BASED ON RI AND/OR PDI DATA
- SITE BOUNDARY
- LIMIT OF SOILS WITH As, Pb AND/OR Cr CONCENTRATIONS AT OR ABOVE CONSENT DECREE ACTION LEVELS AND/OR HIDE RESIDUE AND HIDE PILES
- STREAMS AND WATERCOURSES

NOTES

1.) RI DATA FROM DIGITAL FILE PROVIDED BY U.S. EPA REGION I, PHASE I RI REPORT AND PHASE II RI REPORT (STAUFFER, 1983 AND 1984). PRE-DESIGN INVESTIGATION DATA FROM PDI TASK S-1, TASK S-2, TASK S-4 AND TASK GW-1 INTERIM FINAL REPORTS (GOLDER ASSOCIATES, 1990a, 1990b, 1990c AND 1990d).

2.) PROPERTY BOUNDARY AND PDI BORING AND TEST PIT LOCATION SURVEY PERFORMED BY SAIC ENGINEERING INC., APRIL 1990.

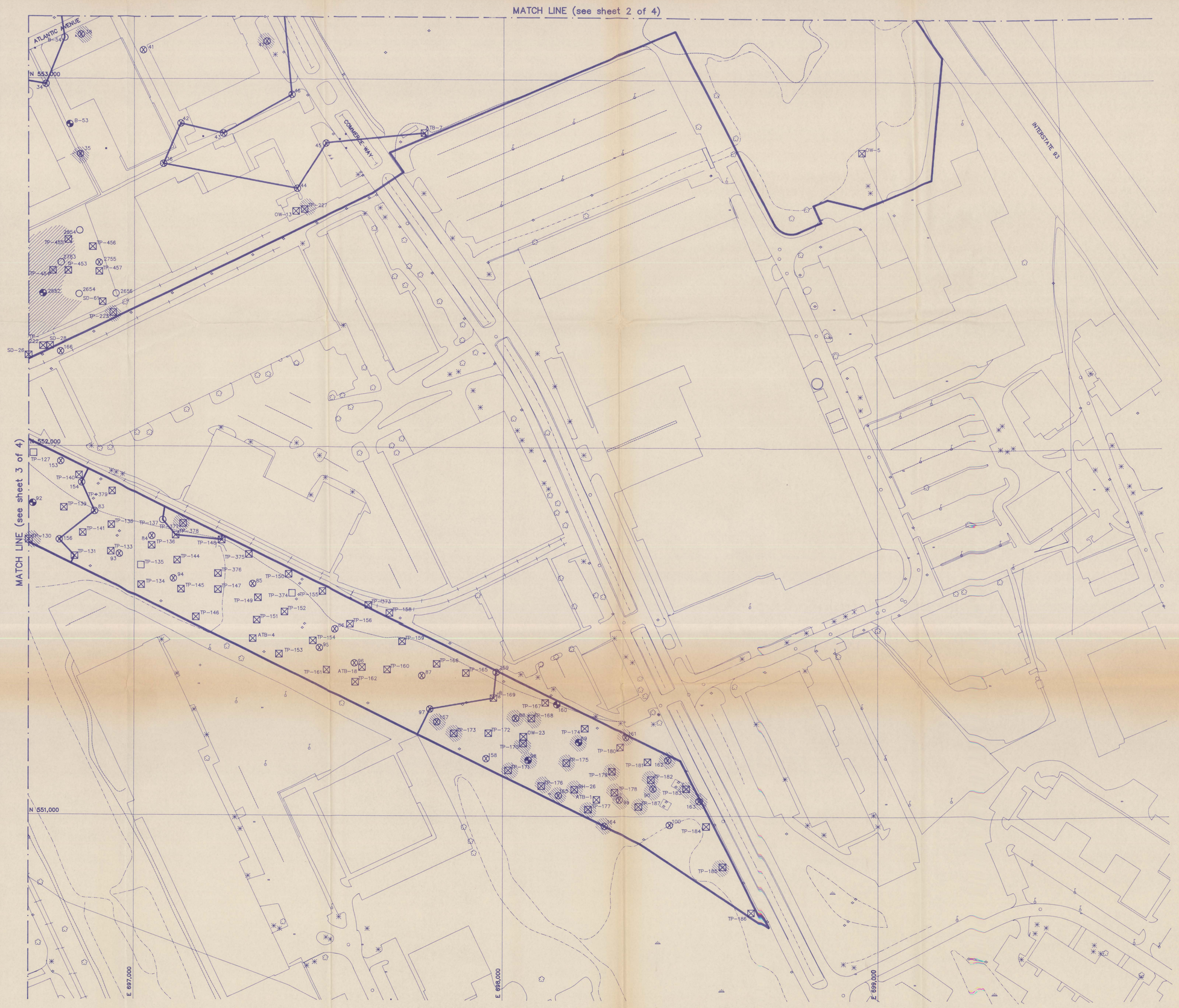
3.) RI BORING AND TEST PIT LOCATIONS TAKEN FROM PHASE I AND PHASE II RI DRAWINGS (STAUFFER, 1983 AND 1984).

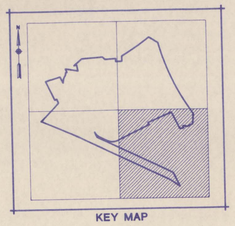
JAN 16 1991

100 0 100 200
scale feet

REV	DATE	DESCRIPTION	DR BY	RVW BY

SCALE: AS SHOWN		PROJECT: INDUSTRI-PLEX SITE REMEDIAL TRUST WOBURN, MASSACHUSETTS
PROJECT No. 893-6255		
DES BY	RMG	01/08/91
DR BY	JSG	01/08/91
CHK BY	RMG	01/16/91
RVW BY	[illegible]	1/16/91
SHEET TITLE: RESULTS OF SOIL As, Pb, Cr AND HIDE RESIDUE ANALYSES		
Golder Associates, Mt. Laurel, New Jersey		SHEET 3 OF 4
		DRAWING No. MA01-425
		FIGURE 1





LEGEND

- RI OR PDI BORING OR TEST PIT WITH As, Pb AND/OR Cr CONCENTRATION LEVELS BELOW CONSENT DECREE ACTION LEVELS. DATA AVAILABLE FOR ONLY ONE SOIL HORIZON WITHIN 36 INCHES OF GROUND SURFACE
- RI OR PDI BORING OR TEST PIT WITH As, Pb AND/OR Cr CONCENTRATION LEVELS BELOW CONSENT DECREE ACTION LEVELS. DATA AVAILABLE FOR MULTIPLE SOIL HORIZON WITHIN 36 INCHES OF GROUND SURFACE
- RI OR PDI BORING OR TEST PIT WITH As, Pb AND/OR Cr CONCENTRATION LEVELS AT OR ABOVE CONSENT DECREE ACTION LEVELS. DATA AVAILABLE AT ONE OR MORE SOIL HORIZONS WITHIN 36 INCHES OF GROUND SURFACE
- RI BORING OR TEST PIT LOG CHECKED FOR HIDE RESIDUE. As, Pb AND Cr DATA ONLY AVAILABLE FOR DEPTHS GREATER THAN 36 INCHES OF GROUND SURFACE
- RI OR PDI BORING OR TEST PIT LOG THAT WAS CHECKED FOR HIDE RESIDUE, BUT WAS NOT SAMPLED FOR As, Pb OR Cr
- HIDE PILES BASED ON CONSENT DECREE
- HIDE RESIDUE PRESENT BASED ON RI AND/OR PDI DATA
- SITE BOUNDARY
- LIMIT OF SOILS WITH As, Pb AND/OR Cr CONCENTRATIONS AT OR ABOVE CONSENT DECREE ACTION LEVELS AND/OR HIDE RESIDUE AND HIDE PILES
- STREAMS AND WATERCOURSES

NOTES

1.) RI DATA FROM DIGITAL FILE PROVIDED BY U.S. EPA REGION I, PHASE I RI REPORT AND PHASE II RI REPORT (STAUFFER, 1983 AND 1984). PRE-DESIGN INVESTIGATION DATA FROM PDI TASK S-1, TASK S-2, TASK S-4 AND TASK GW-1 INTERIM FINAL REPORTS (GOLDER ASSOCIATES, 1990a, 1990b, 1990c AND 1990d).

2.) PROPERTY BOUNDARY AND PDI BORING AND TEST PIT LOCATION SURVEY PERFORMED BY SAIC ENGINEERING INC., APRIL 1990.

3.) RI BORING AND TEST PIT LOCATIONS TAKEN FROM PHASE I AND PHASE II RI DRAWINGS (STAUFFER, 1983 AND 1984).

100 0 100 200
scale feet

JAN 16 1991

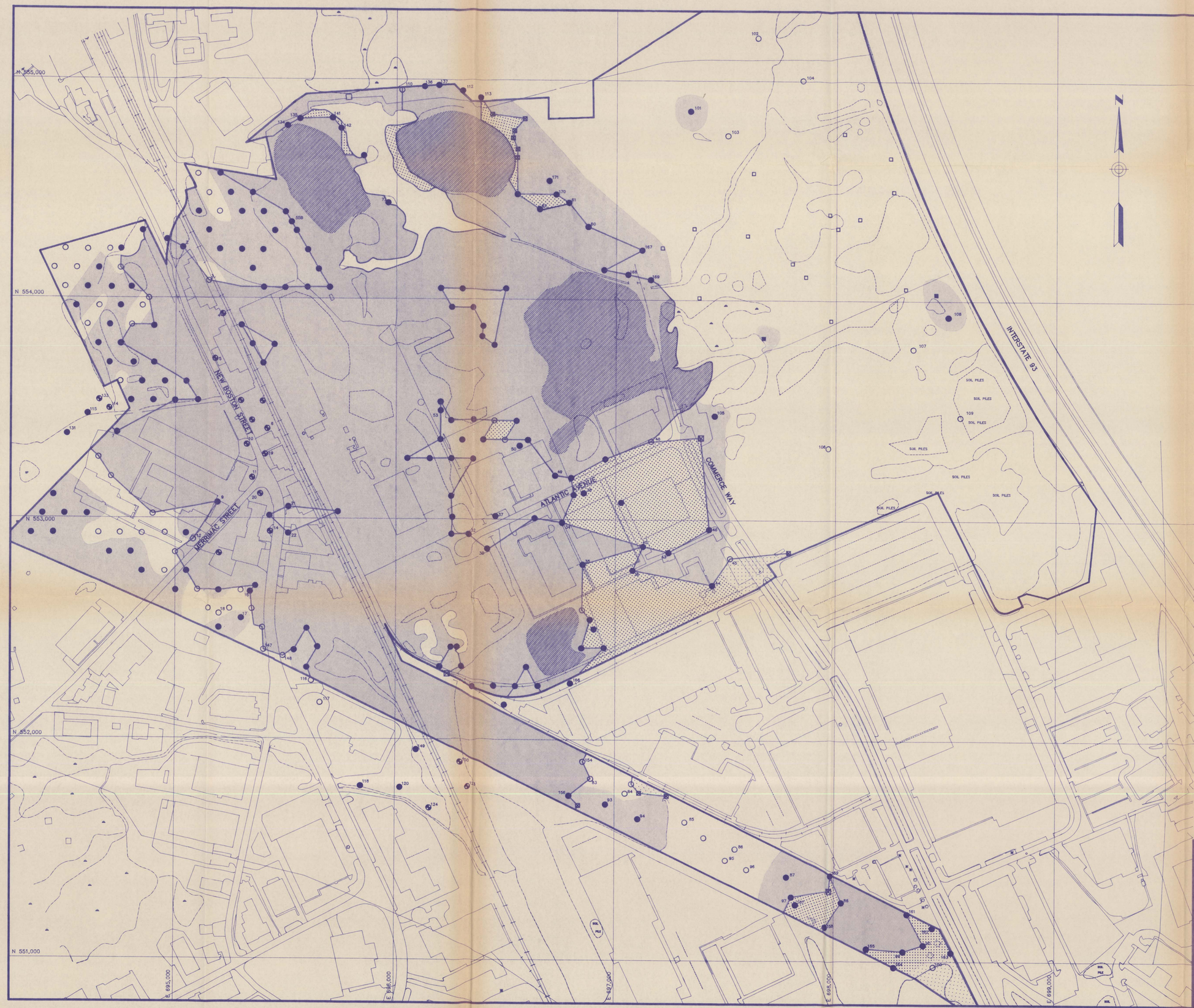
REV	DATE	DESCRIPTION	DR BY	RVW BY

SCALE: AS SHOWN			PROJECT: INDUSTRI-PLEX SITE REMEDIAL TRUST WOBURN, MASSACHUSETTS
PROJECT No. 893-6255			
DES BY	RMG	01/08/91	SHEET TITLE: RESULTS OF SOIL As, Pb, Cr AND HIDE RESIDUE ANALYSES
DR BY	JSG	01/08/91	
CHK BY	RMG	01/16/91	
RVW BY	[illegible]	1/16/91	

Golder Associates
Mt. Laurel, New Jersey

SHEET 4 OF 4
DRAWING No. MA01-426

FIGURE 1



LEGEND

- ARSENIC, LEAD OR CHROMIUM BELOW BACKGROUND CONCENTRATIONS
- ARSENIC, LEAD OR CHROMIUM AT OR ABOVE BACKGROUND CONCENTRATIONS BUT LESS THAN CONSENT DECREE ACTION LEVELS
- ARSENIC, LEAD OR CHROMIUM PRESENT AT OR ABOVE CONSENT DECREE ACTION LEVELS AT ONE OR MORE HORIZIONS WITHIN 36 INCHES OF GROUND SURFACE IN DEVELOPED PORTIONS OF THE SITE AND OFF-SITE AREAS
- TEST PIT NOT ANALYZED FOR ARSENIC, LEAD OR CHROMIUM
- AREAS WHERE ARSENIC, LEAD OR CHROMIUM ARE AT OR ABOVE CONSENT DECREE ACTION LEVELS WITHIN 36 INCHES OF THE GROUND SURFACE
- HIDE PILES BASED ON CONSENT DECREE
- AREAS WHERE ARSENIC, LEAD OR CHROMIUM ARE BELOW CONSENT DECREE ACTION LEVELS BUT ARE AT OR ABOVE BACKGROUND CONCENTRATIONS AND HIDE RESIDUE IS PRESENT WITHIN 36 INCHES OF THE GROUND SURFACE
- AREAS WHERE ARSENIC, LEAD OR CHROMIUM ARE BELOW CONSENT DECREE ACTION LEVELS BUT ARE AT OR ABOVE BACKGROUND CONCENTRATIONS AND HIDE RESIDUE IS NOT PRESENT WITHIN 36 INCHES OF THE GROUND SURFACE
- AREAS WHERE ARSENIC, LEAD OR CHROMIUM ARE BELOW BACKGROUND CONCENTRATIONS AND HIDE RESIDUE IS PRESENT WITHIN 36 INCHES OF THE GROUND SURFACE
- AREAS WHERE ARSENIC, LEAD OR CHROMIUM ARE BELOW BACKGROUND CONCENTRATIONS AND HIDE RESIDUE IS NOT PRESENT WITHIN 36" OF THE GROUND SURFACE
- SITE BOUNDARY
- PRELIMINARY LIMIT OF SOILS CONTAINING HIDE RESIDUE AND/OR As, Pb, AND Cr AT OR ABOVE CONSENT DECREE ACTION LEVELS
- SOIL PILES
- STREAMS OR WATERCOURSES
- MARSH

NOTES

1.) RI DATA FROM DIGITAL FILE PROVIDED BY U.S. EPA REGION I, PHASE I RI REPORT AND PHASE II RI REPORT (STAUFFER, 1983 AND 1984). PRE-DESIGN INVESTIGATION DATA FROM PDI TASK S-1, TASK S-2, TASK S-4 AND TASK GW-1 INTERIM FINAL REPORTS (GOLDER ASSOCIATES, 1990a, 1990b, 1990c AND 1990d).

2.) PROPERTY BOUNDARY AND PDI BORING AND TEST PIT LOCATION SURVEY PERFORMED BY SAIC ENGINEERING INC., APRIL 1990.

3.) RI BORING AND TEST PIT LOCATIONS TAKEN FROM PHASE I AND PHASE II RI DRAWINGS (STAUFFER, 1983 AND 1984).

4.) NUMBERED SYMBOLS ARE PRE-DESIGN INVESTIGATION BORINGS. ALL OTHER SYMBOLS ARE RI BORINGS AND TEST PITS.

200 0 200 400
scale feet

JAN 16 1991

REV	DATE	DESCRIPTION	DR BY	RVW BY

SCALE: AS SHOWN		PROJECT: INDUSTRI-PLEX SITE REMEDIAL TRUST WOBURN, MASSACHUSETTS
PROJECT No. 893-6255		
DES BY	RMG	01/10/91
DR BY	JSG	01/10/91
CHK BY	RDTE	01/16/91
RVW BY	[illegible]	1/16/91
SHEET TITLE: SUMMARY OF PDI TASK S-1 RESULTS FOR As, Pb, Cr AND HIDE RESIDUE		

Golder Associates
Mt. Laurel, New Jersey

SHEET 1 OF 1
DRAWING No. MA01-427

FIGURE 2

APPENDIX A

PROPOSED TASK S-1 SECONDARY BOREHOLE LOCATIONS

LEGEND

- As, Pb AND Cr CONCENTRATIONS BELOW CONSENT DECREE ACTION LEVELS, DATA FROM RI BORINGS AND TEST PITS (DEPTH GIVEN IN PARENTHESES WHEN DOCUMENTED)
- As, Pb AND Cr CONCENTRATIONS BELOW CONSENT DECREE ACTION LEVELS, RI DATA AVAILABLE FOR 6–12 INCH SOIL HORIZON ONLY.
- As, Pb AND Cr CONCENTRATIONS BELOW CONSENT DECREE ACTION LEVELS, DATA AVAILABLE FOR MULTIPLE SOIL HORIZIONS WITHIN 36 INCHES OF GROUND SURFACE
- As, Pb AND Cr AT OR ABOVE CONSENT DECREE ACTION LEVELS AT ANY SOIL HORIZON WITHIN 36 INCHES OF GROUND SURFACE.
- PROPOSED SECONDARY PRE–DESIGN BORING FOR As, Pb, Cr AND HIDE RESIDUE ANALYSIS
- SECONDARY PRE–DESIGN BORINGS SHOWN IN PDI WORK PLAN FIGURES 10A AND 10B WHICH ARE NOT REQUIRED.
- HIDE RESIDUE PRESENT BASED ON RI DATA AND PDI DATA (IDENTIFIES HIDE PILES AND HIDE RESIDUE PRESENT AT SAMPLE LOCATIONS)
- SITE BOUNDARY
- PRELIMINARY LIMIT OF SOILS CONTAINING HIDE RESIDUE AND/OR As, Pb, AND Cr AT OR ABOVE CONSENT DECREE ACTION LEVELS (DASHED WHERE INFERRED PENDING RESULTS OF SECONDARY BORINGS)
- SOIL PILES
- STREAMS OR WATERCOURSES
- MARSH

NOTES

1.) RI DATA WEST AND NORTH OF COMMERCE WAY FROM DIGITAL FILE PROVIDED BY U.S. EPA REGION I. RI DATA IN BOSTON EDISON RIGHT OF WAY No.9 AND NORTHEAST OF COMMERCE WAY FROM RI PLATES (STAUFFER, 1983 AND 1984).

2.) CIRCULAR AND TRIANGULAR SYMBOLS WITH LOCATION NUMBERS ARE PRE–DESIGN INVESTIGATION BORINGS. ALL OTHER SYMBOLS REPRESENT RI SAMPLES.

JAN 16 1991

200 0 200 400
scale feet

REV	DATE	DESCRIPTION	DR BY	RVW BY

SCALE: AS SHOWN		PROJECT: INDUSTRI-PLEX SITE REMEDIAL TRUST WOBURN, MASSACHUSETTS
PROJECT No. 893–6255		
DES BY	RAC	07/13/90
DR BY	JSG	07/20/90
CHK BY	RMG	09/18/90
RVW BY	[illegible]	9/18/90
SHEET TITLE: SAMPLE LOCATIONS AND SUMMARY OF As, Pb, Cr AND HIDE RESIDUE DATA		
Golder Associates, Mt. Laurel, New Jersey		SHEET 1 OF 1
		DRAWING No. MA01–100
		FIGURE 10

APPENDIX B

BOREHOLE LOGS

BOREHOLE LOG S-1/122

PROJECT: Industri-Plex Site Pre-Design Investigation **DATE:** 11/7/90
SURFACE ELEV: 66.29 **DATUM:** MSL
DRILLING METHOD: Split Spoon **LOCATION:** N551918 E696478

SAMPLE LOCATION		DEPTH INCHES	SOIL DESCRIPTION
		2.0	0"-6" Loose dark brown to black f-m SAND and SILT with organic material (grass, roots).
4	1	4.0	
		6.0	6"-36" Compact light brown to brown to m-c SAND and GRAVEL trace cobbles.
		8.0	
10		10.0	
	2	12.0	
		14.0	
23		16.0	
		18.0	
		20.0	
17		22.0	
		24.0	
	3	26.0	
20		28.0	
		30.0	
		32.0	
19		34.0	
		36.0	

Job No. 893-6255 **GOLDER ASSOCIATES INC.** **Logged:** C. Agoglia
Checked: K. Moser

BOREHOLE LOG S-1/123

PROJECT: Industri-Plex Site Pre-Design Investigation **DATE:** 11/6/90
SURFACE ELEV: 64.39 **DATUM:** MSL
DRILLING METHOD: Split Spoon **LOCATION:** N551785 E696332

SAMPLE LOCATION		DEPTH INCHES	SOIL DESCRIPTION
		2.0	0"-18" Compact dark brown to black m-c SAND and GRAVEL some silt.
20	1	4.0	
		6.0	
		8.0	
15		10.0	
	2	12.0	
		14.0	
40		16.0	
		18.0	18" to 36" Compact dark reddish brown m SAND and SILT some gravel 1 to 5 cm in diameter.
		20.0	
50		22.0	
		24.0	
	3	26.0	
33		28.0	
		30.0	
		32.0	
38		34.0	
		36.0	

Job No. 893-6255 **GOLDER ASSOCIATES INC.** **Logged:** C. Agoglia
Checked: K. Moser

BOREHOLE LOG S-1/124

PROJECT: Industri-Plex Site Pre-Design Investigation **DATE:** 11/8/90
SURFACE ELEV: 59.99 **DATUM:** MSL
DRILLING METHOD: Hand Auger **LOCATION:** N551690 E696156

SAMPLE LOCATION	DEPTH INCHES	SOIL DESCRIPTION
	2.0 4.0 6.0 8.0 10.0 12.0 14.0 16.0 18.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0	0"-36" Loose dark brown to black f-m SILT and SAND with some organic material (roots, grass, wood) in various stages of decomposition.

Job No. 893-6255 **GOLDER ASSOCIATES INC.** **Logged:** C. Agoglia
Checked: K. Moser

BOREHOLE LOG S-1/131

PROJECT: Industri-Plex Site Pre-Design Investigation **DATE:** 11/7/90
SURFACE ELEV: 80.29 **DATUM:** MSL
DRILLING METHOD: Split Spoon **LOCATION:** N553382 E694511

SAMPLE LOCATION		DEPTH INCHES	SOIL DESCRIPTION
		2.0	0"-36" Compact dark brown m-c SAND and SILT some m-c gravel (fill).
12	1	4.0	
		6.0	
		8.0	
20		10.0	
	2	12.0	
		14.0	
22		16.0	
		18.0	
		20.0	
20		22.0	
		24.0	24"-36" Brick and Concrete fragments observed.
	3	26.0	
30		28.0	
		30.0	
		32.0	
18		34.0	
		36.0	

Job No. 893-6255 **GOLDER ASSOCIATES INC.** **Logged:** C. Agoglia
Checked: K. Moser

BOREHOLE LOG S-1/133

PROJECT: Industri-Plex Site Pre-Design Investigation **DATE:** 11/7/90
SURFACE ELEV: 69.89 **DATUM:** MSL
DRILLING METHOD: Split Spoon **LOCATION:** N553540 E694655

SAMPLE LOCATION		DEPTH INCHES	SOIL DESCRIPTION
		2.0	0"-36" Compact dark brown to black SILT and c SAND with concrete, brick glass, and plastic fragments. Moist organic material (roots, grass) observed to a depth of 18 inches.
12	1	4.0	
		6.0	
		8.0	
14		10.0	
	2	12.0	
		14.0	
28		16.0	
		18.0	
		20.0	
30		22.0	
		24.0	
	3	26.0	
36		28.0	
		30.0	
		32.0	
38		34.0	
		36.0	

Job No. 893-6255 **GOLDER ASSOCIATES INC.** **Logged:** C. Agoglia
Checked: K. Moser

BOREHOLE LOG S-1/134

PROJECT: Industri-Plex Site Pre-Design Investigation **DATE:** 11/8/90
SURFACE ELEV: 76.40 **DATUM:** MSL
DRILLING METHOD: Hand Auger **LOCATION:** N554788 E695507

SAMPLE LOCATION	DEPTH INCHES	SOIL DESCRIPTION
	2.0 4.0 6.0	0"-7" Loose black f SILT and SAND with organic material (roots, grass).
	8.0 10.0 12.0	7"-14" Loose light brown m-c SAND and SILT.
	14.0 16.0	14"-18" Loose brown SILT some f-m sand.
	18.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0	18" Refusal Bedrock or Rubble.

Job No. 893-6255 **GOLDER ASSOCIATES INC.** **Logged:** C. Agoglia
Checked: K. Moser

BOREHOLE LOG S-1/135

PROJECT: Industri-Plex Site Pre-Design Investigation **DATE:** 11/8/90
SURFACE ELEV: 71.30 **DATUM:** MSL
DRILLING METHOD: Hand Auger **LOCATION:** N554820 E695563

SAMPLE LOCATION	DEPTH INCHES	SOIL DESCRIPTION
	2.0 4.0 6.0 8.0 10.0 12.0 14.0 16.0 18.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0	0"-6" Black SILT some f SAND with organic material (grass, roots). 6"-36" Loose to compact light brown to brown to fmc SAND and SILT. 11" Water encountered

Job No. 893-6255 **GOLDER ASSOCIATES INC.** **Logged:** C. Agoglia
Checked: K. Moser

BOREHOLE LOG S-1/136

PROJECT: Industri-Plex Site Pre-Design Investigation **DATE:** 11/8/90
SURFACE ELEV: 74.55 **DATUM:** MSL
DRILLING METHOD: Split Spoon **LOCATION:** N554968 E696126

SAMPLE LOCATION		DEPTH INCHES	SOIL DESCRIPTION
		2.0	0"-5" Loose black SILT little f sand trace c gravel with organic material (roots, grass).
13	1	4.0	
		6.0	5"-16" Compact brown m-c SAND little silt.
18		8.0	
	2	10.0	
		12.0	
		14.0	
49		16.0	16"-36" Compact light brown fmc SAND trace silt.
		18.0	
		20.0	
8		22.0	
		24.0	
	3	26.0	
13		28.0	
		30.0	
		32.0	
22		34.0	
		36.0	

Job No. 893-6255 **GOLDER ASSOCIATES INC.** **Logged:** C. Agoglia
Checked: K. Moser

BOREHOLE LOG S-1/137

PROJECT: Industri-Plex Site Pre-Design Investigation **DATE:** 11/8/90
SURFACE ELEV: 74.85 **DATUM:** MSL
DRILLING METHOD: Split Spoon **LOCATION:** N554975 E696191

SAMPLE LOCATION		DEPTH INCHES	SOIL DESCRIPTION
		2.0	0"-19" Loose black SILT and f SAND with organic material (roots, grass) trace fine gravel.
4	1	4.0	
		6.0	
		8.0	
10		10.0	
	2	12.0	
		14.0	
23		16.0	
		18.0	
		20.0	19"-36" Compact brown fmc SAND trace silt.
17		22.0	
		24.0	
	3	26.0	
20		28.0	
		30.0	
		32.0	
19		34.0	
		36.0	

Job No. 893-6255 **GOLDER ASSOCIATES INC.** **Logged:** C. Agoglia
Checked: K. Moser

BOREHOLE LOG S-1/147

PROJECT: Industri-Plex Site Pre-Design Investigation **DATE:** 11/7/90
SURFACE ELEV: 63.75 **DATUM:** MSL
DRILLING METHOD: Split Spoon **LOCATION:** N552402 E695405

SAMPLE LOCATION		DEPTH INCHES	SOIL DESCRIPTION
		2.0	0"-36" Compact light to dark brown m-c SAND little silt trace c gravel. Organic material (grass, roots) observed to a depth of 30 inches. Gravel size increases with depth.
5	1	4.0	
		6.0	
		8.0	
19		10.0	
	2	12.0	
		14.0	
14		16.0	
		18.0	With the split spoon removed and the borehole to a depth of 18 inches, an HNu reading of 15 ppm at ground surface was recorded.
		20.0	
15		22.0	
		24.0	
	3	26.0	
27		28.0	
		30.0	
		32.0	
83		34.0	
		36.0	After removing the second split spoon, an HNu reading of 10 ppm was recorded at ground surface.

Job No. 893-6255 **GOLDER ASSOCIATES INC.** **Logged:** C. Agoglia
Checked: K. Moser

BOREHOLE LOG S-1/148

PROJECT: Industri-Plex Site Pre-Design Investigation **DATE:** 11/7/90
SURFACE ELEV: 65.15 **DATUM:** MSL
DRILLING METHOD: Split Spoon **LOCATION:** N552373 E695494

SAMPLE LOCATION		DEPTH INCHES	SOIL DESCRIPTION
		2.0	0"-36" Loose light to dark brown m-c SAND, little silt trace m-c gravel. Organic material (grass, roots) observed to a depth of 24 inches.
4	1	4.0	
		6.0	
		8.0	
8		10.0	
	2	12.0	
		14.0	
25		16.0	
		18.0	
		20.0	
18		22.0	
		24.0	
	3	26.0	
33		28.0	
		30.0	
		32.0	
40		34.0	
		36.0	

Job No. 893-6255 **GOLDER ASSOCIATES INC.** **Logged:** C. Agoglia
Checked: K. Moser

BOREHOLE LOG S-1/149

PROJECT: Industri-Plex Site Pre-Design Investigation **DATE:** 11/8/90
SURFACE ELEV: 62.29 **DATUM:** MSL
DRILLING METHOD: Hand Auger **LOCATION:** N551952 E696095

SAMPLE LOCATION	DEPTH INCHES	SOIL DESCRIPTION
	0	0"-2" Loose black f-m SILT and SAND with some organic material (roots, grass).
	2.0	2"-24" Loose brown fmc SAND, little silt occasional layers (1-2 cm thick) of organic material (roots, grass).
1	4.0	
	6.0	
	8.0	
	10.0	
2	12.0	
	14.0	
	16.0	
	18.0	
	20.0	
	22.0	
	24.0	24"-36" Loose black f-m SILT and SAND with some organic material (roots, grass).
3	26.0	
	28.0	
	30.0	
	32.0	
	34.0	
	36.0	

Job No. 893-6255 **GOLDER ASSOCIATES INC.** **Logged:** C. Agoglia
Checked: K. Moser

BOREHOLE LOG S-1/150

PROJECT: Industri-Plex Site Pre-Design Investigation **DATE:** 11/6/90
SURFACE ELEV: 63.39 **DATUM:** MSL
DRILLING METHOD: Split Spoon **LOCATION:** N551895 E696295

SAMPLE LOCATION		DEPTH INCHES	SOIL DESCRIPTION
		2.0	0"-36" Loose to compact brown to dark brown m-c SAND some silt with little c gravel. Organic Material observed to a depth of 28 inches.
6	1	4.0	
		6.0	
6		8.0	
		10.0	
	2	12.0	
		14.0	
13		16.0	
		18.0	
		20.0	
11		22.0	
		24.0	
	3	26.0	
6		28.0	
		30.0	
		32.0	
9		34.0	
		36.0	

Job No. 893-6255 **GOLDER ASSOCIATES INC.** **Logged:** C. Agoglia
Checked: K. Moser

BOREHOLE LOG S-1/151

PROJECT: Industri-Plex Site Pre-Design Investigation **DATE:** 11/7/90
SURFACE ELEV: 61.79 **DATUM:** MSL
DRILLING METHOD: Split Spoon **LOCATION:** N551968 E696434

SAMPLE LOCATION		DEPTH INCHES	SOIL DESCRIPTION
		2.0	0"-4" Compact dark brown to black SAND and SILT with organic material (roots, grass).
11	1	4.0	4"-15" Compact light brown to brown m-c SAND some coarse gravel trace silt.
		6.0	
23	2	8.0	
		10.0	
		12.0	
		14.0	
51		16.0	15"-36" Compact light brown to brown m-c SAND and GRAVEL 1 to 5 cm in diameter trace cobbles.
		18.0	
56		20.0	
		22.0	
		24.0	
	3	26.0	
49		28.0	
		30.0	
		32.0	
43		34.0	
		36.0	

Job No. 893-6255 **GOLDER ASSOCIATES INC.** **Logged:** C. Agoglia
Checked: K. Moser

BOREHOLE LOG S-1/152

PROJECT: Industri-Plex Site Pre-Design Investigation **DATE:** 11/6/90
SURFACE ELEV: 67.65 **DATUM:** MSL
DRILLING METHOD: Split Spoon **LOCATION:** N552010 E696607

SAMPLE LOCATION		DEPTH INCHES	SOIL DESCRIPTION
		2.0	0"-11" Loose to compact brown m-c SAND with little silt. Organic material (grass, roots) present.
4	1	4.0	
		6.0	
		8.0	
3		10.0	
	2	12.0	11"-24" Loose to compact light brown to brown m-c SAND trace silt occasional organics (roots).
		14.0	
4		16.0	
		18.0	
		20.0	
3		22.0	
		24.0	
	3	26.0	At approximately 24", compact dark brown m-c SAND with little silt and lamae (.5 to 1mm thick) of light brown fine silt and sand.
8		28.0	
		30.0	
		32.0	
6		34.0	
		36.0	

Job No. 893-6255 **GOLDER ASSOCIATES INC.** **Logged:** C. Agoglia
Checked: K. Moser

BOREHOLE LOG S-1/153

PROJECT: Industri-Plex Site Pre-Design Investigation **DATE:** 11/6/90
SURFACE ELEV: 64.95 **DATUM:** MSL
DRILLING METHOD: Split Spoon **LOCATION:** N551959 E696799

SAMPLE LOCATION		DEPTH INCHES	SOIL DESCRIPTION
			0"-36" Loose to compact m-c SAND.
		2.0	
4	1	4.0	
		6.0	
		8.0	
4		10.0	
	2	12.0	
		14.0	
7		16.0	
		18.0	
		20.0	At approximately 20" rock fragments 1 to 3 cm in in diameter observed (quartz, plagioclase).
9		22.0	
		24.0	
	3	26.0	
17		28.0	
		30.0	
		32.0	
22		34.0	
		36.0	

Job No. 893-6255 **GOLDER ASSOCIATES INC.** **Logged:** C. Agoglia
Checked: K. Moser

BOREHOLE LOG S-1/154

PROJECT: Industri-Plex Site Pre-Design Investigation **DATE:** 11/6/90
SURFACE ELEV: 67.15 **DATUM:** MSL
DRILLING METHOD: Split Spoon **LOCATION:** N551902 E696856

SAMPLE LOCATION		DEPTH INCHES	SOIL DESCRIPTION
		2.0	0"-8" Loose dark brown to black f-m SAND with some silt and organic material (grass, roots).
4	1	4.0	
		6.0	
		8.0	8"-10" Black SILT trace fine sand with organics (roots, wood, etc.)
10		10.0	10"-36" Compact light brown to gray fine SAND some silt with black laminae .5 to 1 mm thick of silt and some fine sand.
	2	12.0	
		14.0	
23		16.0	
		18.0	
		20.0	
17		22.0	
		24.0	
	3	26.0	
20		28.0	
		30.0	
		32.0	
19		34.0	
		36.0	

Job No. 893-6255 **GOLDER ASSOCIATES INC.** **Logged:** C. Agoglia
Checked: K. Moser

BOREHOLE LOG S-1/155

PROJECT: Industri-Plex Site Pre-Design Investigation **DATE:** 11/6/90
SURFACE ELEV: 66.60 **DATUM:** MSL
DRILLING METHOD: Split Spoon **LOCATION:** N551786 E696671

SAMPLE LOCATION	DEPTH INCHES	SOIL DESCRIPTION
6 (1)	2.0, 4.0	0"-17" Compact brown to dark brown m-c SAND some silt with brick and rock fragments.
11 (2)	6.0, 8.0, 10.0	
17 (2)	12.0, 14.0, 16.0	
19 (3)	18.0, 20.0, 22.0	17"-36" Compact brown m-c SAND some to little silt with laminae .5 to 1 cm thick of light brown fine sand and silt.
23 (3)	24.0, 26.0, 28.0	
25 (3)	30.0, 32.0, 34.0, 36.0	

Job No. 893-6255 **GOLDER ASSOCIATES INC.** **Logged:** C. Agoglia
Checked: K. Moser

BOREHOLE LOG S-1/156

PROJECT: Industri-Plex Site Pre-Design Investigation **DATE:** 11/6/90
SURFACE ELEV: 67.70 **DATUM:** MSL
DRILLING METHOD: Split Spoon **LOCATION:** N551746 E696795

SAMPLE LOCATION		DEPTH INCHES	SOIL DESCRIPTION
		2.0	0"-36" Compact dark brown to black f-m SAND and SILT with occasional angular rock fragments 1cm to 3cm in diameter. Organic material (roots, grass) observed to a depth of 16 inches.
9	1	4.0	
		6.0	
		8.0	
9		10.0	
	2	12.0	
		14.0	
14		16.0	
		18.0	
		20.0	
11		22.0	
		24.0	
	3	26.0	
10		28.0	
		30.0	
		32.0	
13		34.0	
		36.0	

Job No. 893-6255 **GOLDER ASSOCIATES INC.** **Logged:** C. Agoglia
Checked: K. Moser

BOREHOLE LOG S-1/157

PROJECT: Industri-Plex Site Pre-Design Investigation **DATE:** 11/6/90
SURFACE ELEV: 70.86 **DATUM:** MSL
DRILLING METHOD: Split Spoon **LOCATION:** N551255 E697821

SAMPLE LOCATION		DEPTH INCHES	SOIL DESCRIPTION	
		2.0	0"-16"	Loose dark brown to black f-m SAND and SILT with organic material (grass, roots)
2	1	4.0		
		6.0		
		8.0		
3		10.0		
	2	12.0		
		14.0		
5		16.0		
		18.0	16"-26"	Compact light brown to brown fmc SAND little silt HNu Reading 4 ppm at 18 inches
		20.0		
7		22.0		
		24.0		
	3	26.0	26"-36"	Compact dark brown to black m SAND and SILT
11		28.0		
		30.0		
		32.0		
11		34.0		
		36.0		

Job No. 893-6255 **GOLDER ASSOCIATES INC.** **Logged:** C. Agoglia
Checked: K. Moser

BOREHOLE LOG S-1/158

PROJECT: Industri-Plex Site Pre-Design Investigation **DATE:** 11/5/90
SURFACE ELEV: 69.46 **DATUM:** MSL
DRILLING METHOD: Split Spoon **LOCATION:** N551156 E697955

SAMPLE LOCATION		DEPTH INCHES	SOIL DESCRIPTION
		2.0	0"-12" Loose to compact dark brown fmc SAND little silt trace flakes of mica some organic matter (roots, grass)
3	1	4.0	
		6.0	
		8.0	
4		10.0	
	2	12.0	
			12"-36" Loose to compact dark brown fmc SAND little Silt tract flakes of bica occasional clumps of light brown fine sand and silt.
		14.0	
4		16.0	
		18.0	
		20.0	
4		22.0	
		24.0	At 24" The clumps of f SAND and silt are not present.
	3	26.0	
6		28.0	
		30.0	
		32.0	
9		34.0	
		36.0	

Job No. 893-6255 **GOLDER ASSOCIATES INC.** **Logged:** C. Agoglia
Checked: K. Moser

BOREHOLE LOG S-1/159

PROJECT: Industri-Plex Site Pre-Design Investigation **DATE:** 11/6/90
SURFACE ELEV: 64.06 **DATUM:** MSL
DRILLING METHOD: Split Spoon **LOCATION:** N551391 E697982

SAMPLE LOCATION	DEPTH INCHES	SOIL DESCRIPTION
	2.0	0"-22" Compact dark brown f-m SAND and SILT some m gravel subrounded
4 1	4.0	
	6.0	
	8.0	
5	10.0	
2	12.0	
	14.0	
9	16.0	
	18.0	
	20.0	
17	22.0	22"-36" Compact light brown m-c SAND and m-c GRAVEL (quartz) little silt
	24.0	
3	26.0	
27	28.0	
	30.0	
	32.0	
35	34.0	
	36.0	

Job No. 893-6255 **GOLDER ASSOCIATES INC.** **Logged:** C. Agoglia
Checked: K. Moser

BOREHOLE LOG S-1/160

PROJECT: Industri-Plex Site Pre-Design Investigation **DATE:** 11/6/90
SURFACE ELEV: 62.96 **DATUM:** MSL
DRILLING METHOD: Split Spoon **LOCATION:** N551303 E698146

SAMPLE LOCATION		DEPTH INCHES	SOIL DESCRIPTION
		2.0	0"-12" Compact brown f-m SAND and SILT with organic material (grass,roots) and mica flakes
5	1	4.0	
		6.0	
7	2	8.0	
		10.0	
		12.0	12"-21" Compact dark brown to dark reddish brown m-c SAND and SILT with occasional m-c gravel quartz and hornblende
7		14.0	
		16.0	
		18.0	
8		20.0	At 21 inches dark reddish brown m-c SAND and SILT with laminae of light brown f-m sand (approx .5 cm thick)
		22.0	
		24.0	
6	3	26.0	
		28.0	
		30.0	
8		32.0	
		34.0	
		36.0	

Job No. 893-6255 **GOLDER ASSOCIATES INC.** **Logged:** C. Agoglia
Checked: K. Moser

BOREHOLE LOG S-1/161

PROJECT: Industri-Plex Site Pre-Design Investigation **DATE:** 11/5/90
SURFACE ELEV: 61.66 **DATUM:** MSL
DRILLING METHOD: Hand Auger **LOCATION:** N551214 E698334

SAMPLE LOCATION	DEPTH INCHES	SOIL DESCRIPTION
	2.0	0"-36" Dark brown to black m-c SAND and SILT with organic material (roots, grass) occasional angular quartz fragments .5 to 1 mm in diameter
1	4.0	
	6.0	
	8.0	
	10.0	
2	12.0	
	14.0	
	16.0	
	18.0	
	20.0	
	22.0	
	24.0	
3	26.0	
	28.0	
	30.0	
	32.0	
	34.0	
	36.0	

Job No. 893-6255 **GOLDER ASSOCIATES INC.** **Logged:** C. Agoglia
Checked: K. Moser

BOREHOLE LOG S-1/162

PROJECT: Industri-Plex Site Pre-Design Investigation **DATE:** 11/7/90
SURFACE ELEV: 60.36 **DATUM:** MSL
DRILLING METHOD: Split Spoon **LOCATION:** N551152 E698448

SAMPLE LOCATION	DEPTH INCHES	SOIL DESCRIPTION
1	2.0 4.0	0"-2" Loose black f SAND and SILT with organic material (roots, grass) 2"-12" Loose dark brown f-m SAND, little silt with reddish brown laminae. Occasional angular quartz grain .5 to 1 mm in diameter
2	6.0 8.0 10.0 12.0	
3	14.0 16.0 18.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0	12"-30" Loose dark reddish brown m-c SAND little silt. Coarse black hair 1-3 cm long. Hand Auger Refusal at 30 inches

Job No. 893-6255 **GOLDER ASSOCIATES INC.** **Logged:** C. Agoglia
Checked: K. Moser

BOREHOLE LOG S-1/163

PROJECT: Industri-Plex Site Pre-Design Investigation **DATE:** 11/6/90
SURFACE ELEV: 59.96 **DATUM:** MSL
DRILLING METHOD: Split Spoon **LOCATION:** N551040 E698532

SAMPLE LOCATION	DEPTH INCHES	SOIL DESCRIPTION
4 (1)	2.0, 4.0	0"-14" Loose to compact dark brown f-m-c SAND with some silt and organic material, (grass, roots)
8 (2)	6.0, 8.0, 10.0, 12.0, 14.0	
15	16.0, 18.0	14"-30" Compact light brown m-c SAND little silt with occasional subrounded quartz pebbles .5 to 3 cm in diameter
17 (3)	20.0, 22.0, 24.0, 26.0	
35	28.0, 30.0	
30	32.0, 34.0, 36.0	30"-36" Compact black m SAND and SILT like material (Coal Fines) with coarse black hair observed. Hydrocarbon and decaying organic odor observed.

Job No. 893-6255 **GOLDER ASSOCIATES INC.** **Logged:** C. Agoglia
Checked: K. Moser

BOREHOLE LOG S-1/164

PROJECT: Industri-Plex Site Pre-Design Investigation **DATE:** 11/5/90
SURFACE ELEV: 61.69 **DATUM:** MSL
DRILLING METHOD: Split Spoon **LOCATION:** N550974 E698275

SAMPLE LOCATION		DEPTH INCHES	SOIL DESCRIPTION	
		2.0	0"-12"	Loose brown f-m SAND and SILT with some organic material. Moist
1	1	4.0		
		6.0		
		8.0		
3		10.0		
	2	12.0		
			12"-24"	Loose dark brown m SAND and SILT (angular quartz grains) trace mica flakes. Hair observed - light brown coarse hair.
		14.0		
3		16.0		
		18.0		
		20.0		
6		22.0		
		24.0		
			24"-28"	Loose dark brown f-m SAND little silt light brown mottling
	3	26.0		
4		28.0		
			28"-36"	Loose black SILT or coal fines.
		30.0		
		32.0		
1		34.0		
		36.0		

Job No. 893-6255 **GOLDER ASSOCIATES INC.** **Logged:** C. Agoglia
Checked: K. Moser

BOREHOLE LOG S-1/165

PROJECT: Industri-Plex Site Pre-Design Investigation **DATE:** 11/5/90
SURFACE ELEV: 64.89 **DATUM:** MSL
DRILLING METHOD: Split Spoon **LOCATION:** N551057 E698150

SAMPLE LOCATION		DEPTH INCHES	SOIL DESCRIPTION
		2.0	0"-12" Loose dark brown to black f SAND and SILT with organic material (humas).
1	1	4.0	
		6.0	
		8.0	
1		10.0	
	2	12.0	
			12"-24" Loose light brown f-m SAND little silt, fine laminae (black and brown). Small white worms observed, alive.
		14.0	
1		16.0	
		18.0	
		20.0	
2		22.0	
		24.0	
			24"-36" Loose to compact light to dark brown m-c SAND little silt, gray and black, laminae with reddish brown staining.
	3	26.0	
3		28.0	
		30.0	
		32.0	
3		34.0	
		36.0	

Job No. 893-6255 **GOLDER ASSOCIATES INC.** **Logged:** C. Agoglia
Checked: K. Moser

BOREHOLE LOG S-1/166

PROJECT: Industri-Plex Site Pre-Design Investigation **DATE:** 11/6/90
SURFACE ELEV: 60.56 **DATUM:** MSL
DRILLING METHOD: Split Spoon **LOCATION:** N552257 E696798

SAMPLE LOCATION		DEPTH INCHES	SOIL DESCRIPTION
		2.0	0"-36" Light brown m-c SAND trace silt and mica flakes organic material, (roots, grass) observed to a depth of 12 inches.
3	1	4.0	
		6.0	
		8.0	
5		10.0	
	2	12.0	
		14.0	
9		16.0	
		18.0	
		20.0	
6		22.0	
		24.0	
	3	26.0	
13		28.0	
		30.0	
		32.0	
11		34.0	
		36.0	

Job No. 893-6255 **GOLDER ASSOCIATES INC.** **Logged:** C. Agoglia
Checked: K. Moser

BOREHOLE LOG S-1/167

PROJECT: Industri-Plex Site Pre-Design Investigation **DATE:** 11/7/90
SURFACE ELEV: 75.48 **DATUM:** MSL
DRILLING METHOD: Split Spoon **LOCATION:** N554225 E697117

SAMPLE LOCATION		DEPTH INCHES	SOIL DESCRIPTION
		2.0	0"-8" Loose brown m-c SAND little silt trace c gravel
38	1	4.0	
		6.0	
		8.0	Refusal at 8" Bedrock
		10.0	
	2	12.0	
		14.0	
		16.0	
		18.0	
		20.0	
		22.0	
		24.0	
	3	26.0	
		28.0	
		30.0	
		32.0	
		34.0	
		36.0	

Job No. 893-6255 **GOLDER ASSOCIATES INC.** **Logged:** C. Agoglia
Checked: K. Moser

BOREHOLE LOG S-1/168

PROJECT: Industri-Plex Site Pre-Design Investigation **DATE:** 11/8/90
SURFACE ELEV: 73.00 **DATUM:** MSL
DRILLING METHOD: Split Spoon **LOCATION:** N554115 E697053

SAMPLE LOCATION		DEPTH INCHES	SOIL DESCRIPTION
		2.0	0-5" Loose dark brown f-m SAND and SILT some m-c gravel
14	1	4.0	
		6.0	5"-36" Compact gray to dark gray f SAND and SILT some f-m-c gravel
		8.0	
30		10.0	
	2	12.0	
		14.0	
46		16.0	
		18.0	
		20.0	
19		22.0	
		24.0	
	3	26.0	
33		28.0	
		30.0	
		32.0	
33		34.0	
		36.0	

Job No. 893-6255 **GOLDER ASSOCIATES INC.** **Logged:** C. Agoglia
Checked: K. Moser

BOREHOLE LOG S-1/169

PROJECT: Industri-Plex Site Pre-Design Investigation **DATE:** 11/7/90
SURFACE ELEV: 69.68 **DATUM:** MSL
DRILLING METHOD: Split Spoon **LOCATION:** N554092 E697156

SAMPLE LOCATION		DEPTH INCHES	SOIL DESCRIPTION
		2.0	0"-9" Loose dark brown to gray m-c SAND and SILT some m-c gravel
11	1	4.0	
		6.0	
		8.0	
21		10.0	
	2		9"-30" Compact dark reddish brown c SAND and m-c gravel some silt
		12.0	
		14.0	
29		16.0	
		18.0	
		20.0	
78		22.0	
		24.0	
	3	26.0	
51		28.0	
		30.0	Refusal at 30" Bedrock
		32.0	
		34.0	
		36.0	

Job No. 893-6255 **GOLDER ASSOCIATES INC.** **Logged:** C. Agoglia
Checked: K. Moser

BOREHOLE LOG S-1/170

PROJECT: Industri-Plex Site Pre-Design Investigation **DATE:** 11/8/90
SURFACE ELEV: 108.48 **DATUM:** MSL
DRILLING METHOD: Split Spoon **LOCATION:** N554478 E696727

SAMPLE LOCATION		DEPTH INCHES	SOIL DESCRIPTION
		2.0	0"-7" Loose dark brown f SILT and SAND some organic material (roots and grass
1	1	4.0	
		6.0	
		8.0	7"-20" Loose to compact brown SILT and f SAND trace m-c gravel
3		10.0	
	2	12.0	
		14.0	
14		16.0	
		18.0	
		20.0	
			At 20" Refusal (Bedrock)
17		22.0	
		24.0	
	3	26.0	
20		28.0	
		30.0	
		32.0	
19		34.0	
		36.0	

Job No. 893-6255 **GOLDER ASSOCIATES INC.** **Logged:** C. Agoglia
Checked: K. Moser

BOREHOLE LOG S-1/171

PROJECT: Industri-Plex Site Pre-Design Investigation **DATE:** 11/8/90
SURFACE ELEV: 112.90 **DATUM:** MSL
DRILLING METHOD: Split Spoon **LOCATION:** N554541 E696695

SAMPLE LOCATION		DEPTH INCHES	SOIL DESCRIPTION
		2.0	0"-3" Loose black SILT some f sand with organic material (grass,roots)
6	1	4.0	3"-19" Loose to compact brown f-m SAND some silt trace f gravel trace organics (roots)
		6.0	
		8.0	
18		10.0	
	2	12.0	
		14.0	
13		16.0	
		18.0	
		20.0	
9		22.0	19"-36" Compact light brown f-m SAND some SILT little f gravel
		24.0	
	3	26.0	
14		28.0	
		30.0	
		32.0	
14		34.0	
		36.0	

Job No. 893-6255 **GOLDER ASSOCIATES INC.** **Logged:** C. Agoglia
Checked: K. Moser

APPENDIX C

CHAIN OF CUSTODY FORMS

RADIAN CORPORATION

Chain of Custody Record

PROJECT: ISRT

SITE: ISRT Woburn, MA

COLLECTED BY (Signature):

ANALYSES: Total As, Pb, Cr (SW846)

FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME	NO. OF CONTAINERS	Total As, Pb, Cr (SW846)								REMARKS	SAM ID NO. (for lab use only)
IP/S-1/164/006/1/2/1	Soil	11/5/90 / 1150	1	1									
IP/S-1/164/018/1/2/1	Soil	11/5/90 / 1150	1	1									
IP/S-1/164/036/1/2/1	Soil	11/5/90 / 1150	1	1									
IP/S-1/161/006/1/2/1	Soil	11/5/90 / 1510	1	1									
IP/S-1/161/018/1/2/1	Soil	11/5/90 / 1510	1	1									
IP/S-1/161/036/1/2/1	Soil	11/5/90 / 1510	1	1									
IP/S-1/162/006/1/2/1	Soil	11/5/90 / 1430	1	1									
IP/S-1/162/018/1/2/1	Soil	11/5/90 / 1430	1	1									
IP/S-1/162/036/1/2/1	Soil	11/5/90 / 1430	1	1									

REMARKS

RELINQUISHED BY:	DATE	TIME

RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME
[illegible signature]	11/5/90	0800	[illegible signature]	11/5/90	1730						

LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP°C	SEAL #	CONDITION
[illegible signature]	11/6/90	9:45	871791 943	[illegible signature]	11/6/90	10:00	6°C		Good

REMARKS:

4-88-30337

RADIAN CORPORATION

S7116-31

Chain of Custody Record

PROJECT: ISRT

SITE: ISRT Woburn MA

COLLECTED BY (Signature): Christopher Ayoglu

ANALYSES: Total Hg, Pb, Cr by SW846

FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME	NO. OF CONTAINERS	Total Hg, Pb, Cr by SW846								REMARKS	SAM ID NO. (for lab use only)
IP/S-1/155/006/1/2/1	Soil	11/6/90/1338	1	1									
IP/S-1/155/018/1/2/1	Soil	" "	1	1									
IP/S-1/155/036/1/2/1	Soil	" "	1	1									
IP/S-1/150/006/1/2/1	Soil	" /1445	1	1									
IP/S-1/150/018/1/2/1	Soil	" "	1	1									
IP/S-1/150/036/1/2/1	Soil	" "	1	1									
IP/S-1/156/006/1/2/1	Soil	" /1310	1	1									
IP/S-1/156/018/1/2/1	Soil	" "	1	1									
IP/S-1/156/036/1/2/1	Soil	" "	1	1									

REMARKS

RELINQUISHED BY:	DATE	TIME

RECEIVED BY	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME
Christopher Ayoglu	11/6/90	0700	Christopher Ayoglu	11/6/90	1800						

LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY	DATE	TIME	TEMP°C	SEAL #	CONDITION
[illegible]	11/7	10:15	3771 1980	[illegible]	11/7	10:15	4°C	YES	INTACT

REMARKS

4-88-30337

RADIAN CORPORATION

501031

Chain of Custody Record

PROJECT: ISRT

SITE: ISRT Woburn, MA

COLLECTED BY (Signature): Christopher Cyaglin

FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME	NO. OF CONTAINERS	Total As, Pb, Cr by SW846	REMARKS	SAM ID NO. (for lab use only)
IP/S-1/166/006/1/2/1	Soil	11/6/90/1420	1			
IP/S-1/166/018/1/2/1	"	" "	1			
IP/S-1/166/036/1/2/1	"	" "	1			
IP/S-1/166/006/1/2/MS	"	" "	1			
IP/S-1/166/018/1/2/MS	"	" "	1		ON HOLD	
IP/S-1/166/036/1/2/MS	"	" "	1			
IP/S-1/166/006/1/2/MSD	"	" "	1			
IP/S-1/166/018/1/2/MSD	"	" "	1		ON HOLD	
IP/S-1/166/036/1/2/MSD	"	" "	1			

REMARKS

RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME
Christopher Cyaglin	11/6/90	0700	Christopher Cyaglin	11/6/90	1800						

LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP°C	SEAL #	CONDITION
[illegible]	11/7	10:15	37719 1980	[illegible]	11/7	10:15	4°C	YES	INTACT

REMARKS

4-88-30337

RADIAN CORPORATION

S011032

Chain of Custody Record

PROJECT: ISRT

SITE: ISRT Woburn, MA

COLLECTED BY (Signature): Christopher Agoglia

ANALYSES: Total Hg, Pb, Cr by SW 846

FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME	NO. OF CONTAINERS	Total Hg, Pb, Cr by SW 846								REMARKS	SAM ID NO. (for lab use only)
IP/S-1/160/006/1/2/1	Soil	11/6/90/1030	1	1									
IP/S-1/160/018/1/2/1	"	" "	1	1									
IP/S-1/160/036/1/2/1	"	" "	1	1									
IP/S-1/159/006/1/2/1	"	11/6/90/1015	1	1									
IP/S-1/159/018/1/2/1	"	" "	1	1									
IP/S-1/159/036/1/2/1	"	" "	1	1									
IP/S-1/163/006/1/2/1	"	11/6/90 0920	1	1									
IP/S-1/163/018/1/2/1	"	" "	1	1									
IP/S-1/163/036/1/2/1	"	" "	1	1									

REMARKS

RELINQUISHED BY:	DATE	TIME

RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME
Christopher Agoglia	11/6/90	0700	Christopher Agoglia	11/6/90	1800						

LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP°C	SEAL #	CONDITION
Mark Chasse	11/07	10:15	8717 19 1980	Mark Chasse	11/07	1015	4°C	yes	INTACT

REMARKS:

4-88-30337

RADIAN CORPORATION

SOIL 032

Chain of Custody Record

PROJECT: ISRT

SITE: ISRT Woburn MA

COLLECTED BY (Signature): Christopher Ogoglin

ANALYSES: Total Hg, Pb, Cr by SW846

FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME	NO. OF CONTAINERS	REMARKS	SAM ID NO. (for lab use only)
IP/S-1/123/006/1/2/M	Soil	11/6/90/1520		ON HOLD	
IP/S-1/123/018/1/2/M	Soil	" "			
IP/S-1/123/036/1/2/M	Soil	" "		ON HOLD	
IP/S-1/123/006/1/2/N	Soil	" "		ON HOLD	
IP/S-1/123/018/1/2/N	Soil	" "			
IP/S-1/123/036/1/2/N	Soil	" "		ON HOLD	
IP/S-1/110/000/2/2/EB	water	11/6/90/1630			
IP/S-1/111/000/2/2/EB	water	11/6/90/0920			

REMARKS

RELINQUISHED BY:	DATE	TIME

RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME
Christopher Ogoglin	11/6/90	0700	Christopher Ogoglin	11/6/90	0700						

LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY	DATE	TIME	TEMP°C	SEAL #	CONDITION
[illegible]	11/7	10:15	871719 1960	[illegible]	11/7	10:15	4°C	YES	INTACT

REMARKS

4-88-30337

RADIAN CORPORATION

501.043

Chain of Custody Record

PROJECT: ISRT

SITE: ISRT Woburn MA

COLLECTED BY (Signature):

FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME	NO. OF CONTAINERS	Total As, Pb, Cr by SW846								REMARKS	SAM ID NO. (for lab use only)
CA IP/S-1/169/006/1/M/1	Soil	11/7/90 1440	1	1									
CA IP/S-1/169/006/1/N/1	Soil	" "	1	1									
IP/S-1/169/018/1/2/1	Soil	" "	1	1									
IP/S-1/169/036/1/2/1	Soil	" "	1	1								ID on sample has '030' not '036'	
IP/S-1/133/006/1/2/1	Soil	" 1320	1	1									
IP/S-1/133/018/1/2/1	Soil	" 1320	1	1									
IP/S-1/133/036/1/2/1	Soil	" "	1	1									
IP/S-1/131/006/1/2/1	Soil	" 1230	1	1									
IP/S-1/131/018/1/2/1	Soil	"	1	1									

REMARKS

RELINQUISHED BY:	DATE	TIME

RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME
Christopher Ayotte	11/7/90	0700	Christopher Ayotte	11/7/90	1730						

LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP°C	SEAL #	CONDITION
Michael [illegible]	11/8	1:10	8717191991	M[illegible]	11/8	1210	5°C	YES	INTACT

REMARKS:

4-88-30337

RADIAN CORPORATION

SE:10:2

Chain of Custody Record

PROJECT: ISRT

SITE: ISRT Woburn MA

COLLECTED BY (Signature): Christopher Spaglia

ANALYSES: Total Air Pb, G Exp Sw846

FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME	NO. OF CONTAINERS	Total Air Pb, G Exp Sw846								REMARKS	SAM ID NO. (for lab use only)
IP/S-1/147/036/1/1	Soil	11/7/90/1057	1	1									
IP/S-1/EB113/000/2/2/1	Water	11/7/90/1030	1	1									
IP/S-1/EB112/000/2/2/1	Water	11/7/90/0800	1	1									
IP/S-1/EB114/001/2/2/1	Water	11/7/90/1520	1	1									

REMARKS

RELINQUISHED BY:	DATE	TIME

RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME
Christopher Spaglia	11/7/90	0700	Christopher Spaglia	11/7/90	1730						

LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO	OPENED BY:	DATE	TIME	TEMP°C	SEAL #	CONDITION
[illegible]	11/9	1:20	9717191991	[illegible]	11/9	1:10	5°C	YES	INTACT

REMARKS

4-88-30337

RADIAN CORPORATION

SC'16 SS

Chain of Custody Record

PROJECT: ISRT

SITE: ISRT Woburn MA

COLLECTED BY (Signature): Christopher Ogoglin

FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME	NO. OF CONTAINERS	Total Arsenic, Cr, Pb, Sulfide	REMARKS	SAM ID NO. (for lab use only)
IP/S-1/168/006/1/2/1	Soil	11/8/90/0750	1	1		
IP/S-1/168/018/1/2/1	"	" "	1	1		
IP/S-1/168/036/1/2/1	"	" "	1	1		
IP/S-1/124/006/1/2/1	"	" 1530	1	1		
IP/S-1/124/018/1/2/1	"	" "	1	1		
IP/S-1/124/036/1/2/1	"	" "	1	1		
IP/S-1/149/006/1/2/1	"	11/8/90 1600	1	1		
IP/S-1/149/018/1/2/1	"	" "	1	1		
IP/S-1/149/036/1/2/1	"	" "	1	1		

REMARKS

RELINQUISHED BY:	DATE	TIME

RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME
Christopher Ogoglin	11/8/90	0700	Christopher Ogoglin	11/8/90	1800						

LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY	DATE	TIME	TEMP°C	SEAL #	CONDITION
[illegible]	11/9	10:30		[illegible]	11/9	1030	5°	YES	INTACT

REMARKS

Air Bill # 8717192035, 8717192002

4-88-30337

RADIAN CORPORATION

Chain of Custody Record

PROJECT: ISRT

SITE: ISRT Woburn MA

COLLECTED BY (Signature): Christopher Ogoglin

ANALYSES: Total Arsenic, Pb, Cr by SW846

FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME	NO. OF CONTAINERS	Total Arsenic, Pb, Cr by SW846	REMARKS	SAM ID NO. (for lab use only)
IP/S-1/171/036/1/D/1	Soil	11/8/90/1100	1	1		
IP/S-1/171/036/1/N/1	"	" "	1	1		
IP/S-1/171/036/1/M/1	"	" "	1	1		
IP/S-1/170/006/1/2/1	"	11/8/90/0845	1	1		
IP/S-1/170/018/1/2/1	"	" "	1	1		
IP/S-1/135/006/1/N/1	"	11/8/90/0950	1	1		
IP/S-1/135/006/1/M/1	"	" "	1	1		
IP/S-1/135/006/1/D/1	"	" "	1	1		
IP/S-1/135/006/1/2/1	"	" "	1	1		

REMARKS

RELINQUISHED BY:	DATE	TIME

RECEIVED BY	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME
Christopher Ogoglin	11/8/90	0700	Christopher Ogoglin	11/8/90	1800						

LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL #	CONDITION
[illegible]	11/9	1030		[illegible]	11/9	1030	5°	YES	INTACT

REMARKS:

4-88-30337

APPENDIX D

DATA ASSESSMENT FORMS

INDUSTRI-PLEX PRE-DESIGN INVESTIGATION

ASSESSMENT OF OVERALL DATA QUALITY
FOR TASK S-1

SECONDARY BORINGS

PERFORMED BY: Bob Glazier DATE: 1-9-91

	YES/NO/NA
1. Were the QAPjP, laboratory reports, and field documentation available to support data assessment procedures?	yes
2. Precision:	
Are DCS RPD within control limits?	yes
Are lab duplicate RPD within control limits?	NA
Are field duplicate RPD within control limits?	yes (94% in-control)
Are MS/MSD RPD within control limits?	yes*(70% in-control)
Overall assessment of precision	*The following summarizes MS/MSD RPDs by metal: As=78%, Pb=75%, Cr=60% in-control. Therefore, As and Pb precision is acceptable. Cr field duplicate precision acceptable, but MS/MSD RPDs evaluated case-by-case for each borehole.
3. Accuracy:	
Is absolute recovery within control limits for DCS?	yes
Is relative recovery within control limits for MS/MSD?	no*
Overall assessment of accuracy	MS/MSD recovery by metal is as follows: As=67% Pb=88%, Cr=50% in-control. Lead accuracy acceptable. As and Cr accuracy evaluated on a case-by-case basis for each borehole.
4. Representativeness:	
Were procedures in the FSP followed?	yes
If not, were procedural variations approved and documented?	NA
Were sample preservation procedures given in the FSP followed?	yes
Were data reported in the proper units?	yes
Was blank contamination not evident or well documented at low levels?	yes
Were field duplicates within control limits?	yes
Overall assessment of representativeness	The data are considered to be representative of site conditions.

INDUSTRI-PLEX PRE-DESIGN INVESTIGATION

ASSESSMENT OF LABORATORY PERFORMANCE
FOR TASK 5-1 (8936255.35)

LABORATORY: Radian - Sacramento REPORT # 50-11-026

VALIDATED BY: Lori Anne Hendel DATE: 910102

		YES/NO/NA
1.	Release authorization with signature present?	yes
2.	Sample identification summary/description present?	yes
3.	Analytical results present, including:	
	correct units?	yes
	detection limits?	yes
	method used?	yes
	date sampled?	yes
	date received?	yes
	date prepared?	yes
	date analyzed?	yes
	dilutions noted?	no ≠
4.	Holding times met?	yes
5.	Lab duplicate RPDs within control limits (35%)?	N/A
	Field duplicate RPDs within control limits (50%)?	N/A
6.	MS/MSD % recoveries within control limits (75-125%)?	N/A
7.	MS/MSD RPDs within control limits (50%)?	N/A
8.	Duplicate control sample (DCS) accuracy within given control limits (80-120%)?	yes
9.	DCS precision within given control limits (20%)?	yes
10.	Method blanks "clean"?	yes
11.	Chain-of-Custody present and complete with signatures and dates?	yes
12.	Name of analyst/~~supervisor~~ given? Initials	yes
13.	Procedural deviations noted?	N/A
14.	QC procedures given?	N/A

LAHendel 910102 + 910105

INDUSTRI-PLEX PRE-DESIGN INVESTIGATION

ASSESSMENT OF LABORATORY PERFORMANCE
FOR TASK S-1 (893-6255.35)

LABORATORY: Radian-Sacramento REPORT # SØ-11-Ø31

VALIDATED BY: Lori Anne Hendel DATE: 91Ø1Ø2

		YES/NO/NA
1.	Release authorization with signature present?	yes
2.	Sample identification summary/description present?	yes‡
3.	Analytical results present, including:	
	correct units?	yes
	detection limits?	yes
	method used?	yes
	date sampled?	yes
	date received?	yes
	date prepared?	yes
	date analyzed?	yes
	dilutions noted?	no ‡‡
4.	Holding times met?	yes
5.	Lab duplicate RPDs within control limits (35%)?	N/A
	Field duplicate RPDs within control limits (50%)?	N/A
6.	MS/MSD % recoveries within control limits (75-125%)?	no*
7.	MS/MSD RPDs within control limits (50%)?	no*
8.	Duplicate control sample (DCS) accuracy within given control limits (80-120%)?	yes
9.	DCS precision within given control limits (20%)?	yes
10.	Method blanks "clean"?	yes
11.	Chain-of-Custody present and complete with signatures and dates?	yes
12.	Name of analyst/~~supervisor~~ given? Initials	yes
13.	Procedural deviations noted?	N/A
14.	QC procedures given?	N/A

Lori Anne Hendel
91Ø1Ø2+91Ø1Ø5

INDUSTRI-PLEX PRE-DESIGN INVESTIGATION

ASSESSMENT OF LABORATORY PERFORMANCE
FOR TASK S-1 (893-6255.35)

LABORATORY: Radian - Sacramento REPORT # SØ-11-Ø32

VALIDATED BY: Lori Anne Hendel DATE: 91Ø1Ø2

		YES/NO/NA
1.	Release authorization with signature present?	yes
2.	Sample identification summary/description present?	yes
3.	Analytical results present, including:	
	correct units?	yes
	detection limits?	yes
	method used?	yes
	date sampled?	yes
	date received?	yes
	date prepared?	yes
	date analyzed?	yes
	dilutions noted?	no +
4.	Holding times met?	yes
5.	Lab duplicate RPDs within control limits (35%)?	N/A
	Field duplicate RPDs within control limits (50%)?	no*
6.	MS/MSD % recoveries within control limits (75-125%)?	no**
7.	MS/MSD RPDs within control limits (50%)?	no**
8.	Duplicate control sample (DCS) accuracy within given control limits (80-120%)?	yes
9.	DCS precision within given control limits (20%)?	yes
10.	Method blanks "clean"?	yes
11.	Chain-of-Custody present and complete with signatures and dates?	yes
12.	Name of analyst/~~supervisor~~ given? Initials	yes
13.	Procedural deviations noted?	no***
14.	QC procedures given?	N/A

LAHendel
91Ø1Ø2+ 91Ø1Ø5

INDUSTRI-PLEX PRE-DESIGN INVESTIGATION

ASSESSMENT OF LABORATORY PERFORMANCE
FOR TASK 5-1 (893-6255.35)

LABORATORY: Radian-Sacramento REPORT # SD-11-042

VALIDATED BY: Lori Anne Hendel DATE: 910102

		YES/NO/NA
1.	Release authorization with signature present?	yes
2.	Sample identification summary/description present?	yes ‡
3.	Analytical results present, including:	
	correct units?	yes
	detection limits?	yes
	method used?	yes
	date sampled?	yes
	date received?	yes
	date prepared?	yes
	date analyzed?	yes
	dilutions noted?	no ‡‡
4.	Holding times met?	yes
5.	Lab duplicate RPDs within control limits (35%)?	N/A
	Field duplicate RPDs within control limits (50%)?	no*
6.	MS/MSD % recoveries within control limits (75-125%)?	no**
7.	MS/MSD RPDs within control limits (50%)?	no**
8.	Duplicate control sample (DCS) accuracy within given control limits (80-120%)?	yes
9.	DCS precision within given control limits (20%)?	yes
10.	Method blanks "clean"?	yes
11.	Chain-of-Custody present and complete with signatures and dates?	yes
12.	Name of analyst/~~supervisor~~ given? Initials	yes
13.	Procedural deviations noted?	N/A
14.	QC procedures given?	N/A

Lori Anne Hendel
910102 + 910105

INDUSTRI-PLEX PRE-DESIGN INVESTIGATION

ASSESSMENT OF LABORATORY PERFORMANCE
FOR TASK S-1 (893-6255.35)

LABORATORY: RADIAN - SACRAMENTO REPORT # SØ-11-Ø55

VALIDATED BY: Lori Anne Hendel DATE: 91Ø1Ø2

		YES/NO/NA
1.	Release authorization with signature present?	yes
2.	Sample identification summary/description present?	yes
3.	Analytical results present, including:	
	correct units?	yes
	detection limits?	yes
	method used?	yes
	date sampled?	yes
	date received?	yes
	date prepared?	yes
	date analyzed?	yes
	dilutions noted?	no *
4.	Holding times met?	yes
5.	Lab duplicate RPDs within control limits (35%)?	N/A
	Field duplicate RPDs within control limits (50%)?	no*
6.	MS/MSD % recoveries within control limits (75-125%)?	no**
7.	MS/MSD RPDs within control limits (50%)?	no**
8.	Duplicate control sample (DCS) accuracy within given control limits (80-120%)?	yes
9.	DCS precision within given control limits (20%)?	yes
10.	Method blanks "clean"?	yes
11.	Chain-of-Custody present and complete with signatures and dates?	yes
12.	Name of analyst/~~supervisor~~ given? Initials	yes
13.	Procedural deviations noted?	N/A
14.	QC procedures given?	N/A

Lori Anne Hendel
91Ø1Ø2 + 91Ø1Ø5

INDUSTRI-PLEX PRE-DESIGN INVESTIGATION

ASSESSMENT OF FIELD PERFORMANCE
FOR TASK 5-1
Secondary Boreholes

SAMPLER/ORGANIZATION: Cindy Yates / Golder Associates REPORT # SO-11-026

VALIDATED BY: Bob Glazier DATE: 1-9-91

	YES/NO/NA
1. Does field documentation include:	
date/time samples collected?	yes
sample location?	yes
name of sampler?	yes
field measurements?	NA
sampling method?	yes
instruments/methods for field measurements?	NA
calibration/maintenance of field instruments?	NA
sampling containers used (COC*)?	yes *
sample preservation procedures (see COC*)?	yes *
Chain-of-Custody procedures?	yes
field quality control procedures?	yes
2. Were procedures in the Field Sampling Plan followed?	yes
If not, were procedural variances approved and documented?	NA
3. Was contamination of field blank samples not evident, or well documented at low levels?	yes
4. Are field duplicates within control limits?	yes

5. Comments: * sample containers/preservatives listed on sample Integrity Data Sheets

* Chain-of-Custody Form

C:6255:FPFORM

INDUSTRI-PLEX PRE-DESIGN INVESTIGATION

ASSESSMENT OF FIELD PERFORMANCE
FOR TASK 5-1
Secondary Boreholes

SAMPLER/ORGANIZATION: Cindy Yates / Golder Associates REPORT # SC-11-031

VALIDATED BY: Rob Glazier DATE: 1-9-91

	YES/NO/NA
1. Does field documentation include:	
date/time samples collected?	yes
sample location?	yes
name of sampler?	yes
field measurements?	NA
sampling method?	yes
instruments/methods for field measurements?	NA
calibration/maintenance of field instruments?	NA
sampling containers used (COC*)?	yes *
sample preservation procedures (see COC*)?	yes *
Chain-of-Custody procedures?	yes
field quality control procedures?	yes
2. Were procedures in the Field Sampling Plan followed?	yes
If not, were procedural variances approved and documented?	NA
3. Was contamination of field blank samples not evident, or well documented at low levels?	yes
4. Are field duplicates within control limits?	yes

5. Comments: * Sample containers/preservatives listed on Sample Integrity Data Sheets

* Chain-of-Custody Form

C:6255:FPFORM

INDUSTRI-PLEX PRE-DESIGN INVESTIGATION

ASSESSMENT OF FIELD PERFORMANCE
FOR TASK 5-1
Secondary Borings

SAMPLER/ORGANIZATION: Chris Agoglia/ Golder Associates REPORT # SO-11-055

VALIDATED BY: Bob Glazier DATE: 1-9-91

	YES/NO/NA
1. Does field documentation include:	
date/time samples collected?	yes
sample location?	yes
name of sampler?	yes
field measurements?	NA
sampling method?	yes
instruments/methods for field measurements?	NA
calibration/maintenance of field instruments?	NA
sampling containers used (COC*)?	yes*
sample preservation procedures (see COC*)?	yes *
Chain-of-Custody procedures?	yes
field quality control procedures?	yes
2. Were procedures in the Field Sampling Plan followed?	yes
If not, were procedural variances approved and documented?	NA
3. Was contamination of field blank samples not evident, or well documented at low levels?	yes
4. Are field duplicates within control limits?	yes

5. Comments: * Sample containers/preservatives listed on Sample Integrity Data Sheets

* Chain-of-Custody Form

C:6255:FPFORM

APPENDIX E

SUMMARY OF PRE-DESIGN INVESTIGATION RESULTS AND ON-SITE REMEDIAL INVESTIGATION RESULTS

SUMMARY OF SOIL SAMPLE ANALYSES

Pre-Design Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
1	006	35.5	289	39.9	No
1	018	52.1	156	9.0	No
1	030	23.2	6.9	7.5	No
2	006	23.8	355	19.5	No
2	018	72.5	165	14.6	No
2	036	9.4	54.6	16.3	No
3	006	6.9	47.6	19.7	No
4	006	49.6	453	17.4	No
4	018	104	475	17.2	No
4	018	102	687	9.3	No
4	027	183	585	6.1	No
5	006	35.2	126	17.4	No
5	018	233	705	16.9	No
5	030	215	951	13.3	No
6	006	40.1	246	9.9	No
6	018	74.4	486	6.2	No
6	026	114	611	11.5	No
7	006	9.7	253	125	No
7	018	12.3	63.9	26.0	No
7	029	6.4	202	10.0	No
8	006	12.7	1150	50.1	No
8	018	42.8	12900	12.2	No
8	027	268	1650	9.5	No
9	006	11.4	42.0	29.5	No

SUMMARY OF SOIL SAMPLE ANALYSES

Pre-Design Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
16	024	3.1	Not Detected	5.6	No
16	024	5.2	Not Detected	5.1	No
17	006	11.3	32.5	24.2	No
17	018	3.2	Not Detected	4.5	No
17	026	3.6	Not Detected	5.2	No
18	006	5.0	25.3	12.2	No
18	018	3.2	16.6	8.3	No
18	026	6.4	51.6	10.5	No
19	006	13.9	60.0	16.3	No
19	018	28.2	25.1	12.4	No
19	018	25.8	15.6	11.9	No
19	032	1110	1100	27.3	No
20	006	7.4	115	26.8	No
20	018	11.0	124	13.4	No
20	028	10.3	210	9.6	No
20	030	130	1390	7.8	No
21	006	9.0	130	18.1	No
21	018	70.6	253	19.4	No
21	018	118	267	15.9	No
21	030	64.5	409	35.3	Not Tested
22	006	136	336	24.7	No
22	018	179	347	118	No
22	036	89.2	298	22.6	No
23	006	256	646	76.6	No

SUMMARY OF SOIL SAMPLE ANALYSES

Pre-Design Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
32	006	43.0	82.4	235	No
32	011	88.8	120	275	No
33	006	7.6	121	111	No
33	018	10.3	28.2	50.8	No
33	024	9.5	87.5	58.0	No
34	006	5.4	11.5	36.7	No
34	018	18.8	76.9	148	No
34	024	11.7	29.9	129	No
35	006	24.4	76.3	88.8	No
35	018	39.8	131	218	Yes
35	032	8.2	24.3	57.4	Yes
36	006	43.5	132	251	No
36	018	18.8	96.0	281	No
36	024	24.6	94.6	267	No
37	006	53.9	133	115	No
37	006	46.2	160	139	No
38	006	69.2	94.9	116	No
38	018	17.4	191	213	Yes
38	019	6.4	Not Detected	10.1	No
39	006	7.2	11.4	275	No
39	018	9.7	Not Detected	276	No
39	030	3.9	Not Detected	34.9	Yes
40	006	11.7	29.0	702	No
40	018	11.8	21.1	473	No

SUMMARY OF SOIL SAMPLE ANALYSES

Pre-Design Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
48	024	5.6	7.4	4.3	No
49	006	11.3	36.4	15.8	No
49	018	2.5	Not Detected	10.6	No
49	032	11.6	12.6	132	No
50	006	7.4	105	122	No
50	018	8.1	85.9	111	No
50	034	1.2	8.8	10.9	No
51	006	143	1080	17.6	No
51	018	283	1560	58.6	No
51	018	423	501	20.3	No
51	020	254	1920	263	No
52	006	40.3	256	62.8	No
52	018	206	322	11.1	No
52	025	119	242	10.7	No
53	006	138	220	63.1	No
53	018	16.4	72.2	36.7	No
53	024	2.0	7.1	47.4	No
54B	006	242	4130	76.9	No
54B	018	35.9	135	26.4	No
54B	018	763	1960	54.8	No
54B	036	359	775	7.5	No
55	006	21.3	232	112	No
55	018	10.6	35.1	41.7	No
55	036	27.8	201	471	No

SUMMARY OF SOIL SAMPLE ANALYSES

Pre-Design Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
63	018	47.2	1890	8.7	No
63	036	3.2	11.7	6.7	No
64	006	114	1370	8400	No
64	018	6.6	26.3	21.1	No
64	024	6.3	12.3	4.7	No
65	006	385	3320	2870	No
65	014	20.2	3020	188	No
65	015	154	3610	192	No
65	018	513	2140	70.1	No
65	025	88.0	36.1	9.3	No
66	006	12.3	54.0	88.8	No
66	018	7.7	14.3	18.1	No
66	026	3.7	9.2	6.9	No
67	006	473	2730	33.5	No
68	006	706	6050	39.5	No
69	006	76.1	888	170	No
69	018	55.1	211	831	No
69	031	118	933	675	No
70	006	209	693	32.7	No
70	018	4.7	18.0	15.1	No
72	006	24.3	77.9	17.7	No
72	018	146	354	31.0	No
72	020	523	6300	7.7	No
73	006	1240	8000	5.7	No

SUMMARY OF SOIL SAMPLE ANALYSES

Pre-Design Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
83	018	8.8	16.0	14.7	No
83	018	7.0	19.1	11.8	No
83	032	4.4	Not Detected	7.6	No
84	006	6.3	11.2	7.5	No
84	018	7.4	Not Detected	6.3	No
84	033	4.2	6.3	5.9	No
85	006	7.8	Not Detected	13.4	No
85	018	7.3	8.8	8.6	No
85	024	10.3	13.0	6.9	No
86	006	11.0	11.9	10.2	No
86	012	8.2	7.3	9.4	No
86	036	6.5	15.5	15.2	No
87	006	8.4	Not Detected	22.7	No
87	010	6.9	9.9	24.4	No
87	036	7.8	Not Detected	19.5	No
88	006	9.2	18.4	277	No
88	006	24.1	13.5	275	No
88	018	26.0	99.1	931	Yes
88	036	9.2	10.8	315	No
89	006	37.4	125	447	No
89	018	35.5	238	755	Yes
89	019	37.0	133	615	No
89	030	34.8	183	765	No
89	030	53.4	145	1040	Yes

SUMMARY OF SOIL SAMPLE ANALYSES

Pre-Design Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
98	006	14.4	82.5	1410	No
98	018	15.3	65.2	314	Yes
98	020	24.8	49.0	822	Yes
98	036	53.0	42.9	1540	Yes
99	006	7.4	14.9	142	Yes
99	015	10.3	28.7	386	Yes
99	036	4.5	11.5	141	Yes
100	006	12.2	41.8	11.8	No
100	018	Not Detected	Not Detected	Not Detected	No
100	036	Not Detected	Not Detected	Not Detected	No
101	006	11.0	145	10.1	No
101	018	2.4	Not Detected	6.3	No
101	027	2.7	Not Detected	5.6	No
102	006	23.8	21.0	4.0	No
102	018	2.2	Not Detected	5.6	No
102	036	1.5	6.6	6.4	No
103	006	6.1	15.8	5.6	No
103	018	1.7	Not Detected	5.8	No
103	023	3.9	Not Detected	5.5	No
104	006	6.5	28.8	6.1	No
104	018	2.7	Not Detected	6.2	No
104	036	2.4	Not Detected	5.5	No
105	006	20.0	54.1	264	No
105	018	21.0	64.2	240	No

SUMMARY OF SOIL SAMPLE ANALYSES

Pre-Design Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
115	006	5.8	36.8	32.0	No
115	018	Not Detected	Not Detected	2.3	No
115	020	Not Detected	Not Detected	6.5	No
116	006	2.8	9.0	13.7	No
116	018	3.0	Not Detected	11.7	No
116	026	6.9	29.8	9.2	No
117	006	3.2	Not Detected	15.1	No
117	018	5.3	Not Detected	9.7	No
117	022	5.9	6.3	21.3	No
118	006	7.6	66.5	115	No
118	018	2.1	19.4	13.8	No
118	024	7.1	49.9	136	No
119	006	135	240	1070	No
119	006	219	199	702	No
119	018	2.7	Not Detected	33.3	No
119	024	1.7	7.9	23.3	No
120	005	15.1	41.4	80.9	No
120	006	46.5	226	23.7	No
120	016	28.3	135	89.4	No
121	006	492	1750	3270	No
121	018	821	4090	63.8	No
121	022	1420	9110	21.4	No
122	006	4.8	30	31	No
122	018	16	12	11	No

SUMMARY OF SOIL SAMPLE ANALYSES

Pre-Design Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
137	006	3.3	Not Detected	3.4	Yes
137	018	6.8	280	26	No
137	036	5.5	400	19	No
141	006	51.4	214	74.2	Yes
141	018	55.7	143	24.5	No
141	036	56.1	111	57.5	No
142	006	71.4	232	31.9	No
142	018	54.9	145	51.9	No
142	036	71.9	202	111	No
143	006	4.4	51.9	15.2	Not Applicable
143	012	3.8	61.3	14.6	Not Applicable
143	018	4.4	85.2	27.3	Not Applicable
143	027	4.7	85.8	17.0	Not Applicable
143	036	4.3	50.3	14.0	Not Applicable
144	006	28.3	23.0	22.8	Not Applicable
144	012	33.4	22.5	20.7	Not Applicable
144	018	10.7	9.2	13.3	Not Applicable
144	027	14.6	7.6	14.8	Not Applicable
144	036	16.3	63.8	26.1	Not Applicable
145	006	14.1	19.6	16.8	Not Applicable
145	012	23.8	18.3	25.6	Not Applicable
145	018	1.6	Not Detected	7.8	Not Applicable
145	027	1.3	Not Detected	8.3	Not Applicable
145	036	3.4	Not Detected	8.9	Not Applicable

SUMMARY OF SOIL SAMPLE ANALYSES

Pre-Design Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
152	006	47	100	310	Yes
152	018	28	54	120	Yes
152	036	54	100	230	No
153	006	1.9	Not Detected	4.6	No
153	018	2.4	Not Detected	5.0	No
153	036	3.6	7.1	9.6	No
154	006	Not Detected	10	12	No
154	018	Not Detected	Not Detected	5.4	No
154	036	Not Detected	Not Detected	5.4	No
155	006	67	190	1200	No
155	018	51	140	1500	Yes
155	036	12	26	1300	Yes
156	006	Not Detected	540	160	No
156	018	120	500	780	No
156	036	23	530	370	No
157	006	3.5	Not Detected	22	No
157	018	5.1	Not Detected	11	No
157	036	8.6	13	80	Yes
158	006	6.1	15	34	No
158	018	8.2	15	57	No
158	036	7.9	16	50	No
159	006	8.9	24	59	No
159	018	14	19	47	No
159	036	12	23	73	No

SUMMARY OF SOIL SAMPLE ANALYSES

Pre-Design Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
166	018	7.8	8.2	25	No
166	036	5.8	Not Detected	16	No
167	006	9.4	11	16	No
168	006	9.5	74	120	No
168	018	1.9	12	32	No
168	036	2.4	21	42	No
169	006	1.9	13	40	No
169	006	2.0	14	40	No
169	018	11	31	25	No
169	030	2.2	21	12	No
170	006	23	410	24	No
170	018	Not Detected	22	34	No
171	006	12	290	30	No
171	018	4.4	22	17	No
171	036	3.3	12	18	No
171	036	3.0	8.1	13	No
ATB-1	0-096	Not Tested	Not Tested	Not Tested	No
ATB-4	0-594	Not Tested	Not Tested	Not Tested	No
ATB-7	0-168	Not Tested	Not Tested	Not Tested	No
ATB-18	0-318	Not Tested	Not Tested	Not Tested	No
RB-1	0-024	Not Tested	Not Tested	Not Tested	No
RB-1	060-084	Not Tested	Not Tested	Not Tested	Yes
RB-1	120-336	Not Tested	Not Tested	Not Tested	No
RB-2	0-126	Not Tested	Not Tested	Not Tested	No

SUMMARY OF SOIL SAMPLE ANALYSES

Pre-Design Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
S-2/3	060-170	Not Tested	Not Tested	Not Tested	No
S-2/4	0-042	Not Tested	Not Tested	Not Tested	No
S-2/4	042-090	Not Tested	Not Tested	Not Tested	Yes
S-2/5	0-126	Not Tested	Not Tested	Not Tested	No
S-2/5	126-127	Not Tested	Not Tested	Not Tested	Yes
S-2/6	0-024	Not Tested	Not Tested	Not Tested	Yes
S-2/6	024-168	Not Tested	Not Tested	Not Tested	No
S-2/7	0-204	Not Tested	Not Tested	Not Tested	No
S-2/8	0-101	Not Tested	Not Tested	Not Tested	No
S-2/9	0-408	Not Tested	Not Tested	Not Tested	Yes
S-2/9	408-480	Not Tested	Not Tested	Not Tested	No
S-2/10	0-462	Not Tested	Not Tested	Not Tested	Yes
S-2/10	462-486	Not Tested	Not Tested	Not Tested	No
S-2/11	0-192	Not Tested	Not Tested	Not Tested	Yes
S-2/11	192-264	Not Tested	Not Tested	Not Tested	No
S-2/12	0-443	Not Tested	Not Tested	Not Tested	Yes
S-2/12	443-448	Not Tested	Not Tested	Not Tested	No
S-2/13	0-434	Not Tested	Not Tested	Not Tested	Yes
S-2/14	0-100	Not Tested	Not Tested	Not Tested	No
S-2/15	0-120	Not Tested	Not Tested	Not Tested	Yes
S-2/15	120-204	Not Tested	Not Tested	Not Tested	No
S-2/16	0-204	Not Tested	Not Tested	Not Tested	No
S-2/17	0-204	Not Tested	Not Tested	Not Tested	No
S-4/P1	0-018	Not Tested	Not Tested	Not Tested	No

SUMMARY OF SOIL SAMPLE ANALYSES

Pre-Design Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
S-4/SD-3	0-333	Not Tested	Not Tested	Not Tested	No
S-4/SD-4	0-204	Not Tested	Not Tested	Not Tested	No
S-4/T-1	0-042	Not Tested	Not Tested	Not Tested	No
S-4/T-2	0-048	Not Tested	Not Tested	Not Tested	No
S-4/T-3	0-192	Not Tested	Not Tested	Not Tested	No
S-4/T-4	0-402	Not Tested	Not Tested	Not Tested	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
2141	012	84.00	2110.00	12.10	No
2141	036	391.00	9240.00	Not Detected	No
2141	060	96.00	Not Detected	1.90	No
2242	0-090	Not Tested	Not Tested	Not Tested	No
2242	012	118.00	710.00	855.00	No
2242	036	513.00	2380.00	188.00	No
2242	060	25.00	390.00	67.00	No
2242	180-204	Not Tested	Not Tested	Not Tested	No
2244	012	493.00	2400.00	1680.00	No
2244	060	525.00	1330.00	5630.00	No
2244	084	1490.00	2600.00	6950.00	Yes
2244	132	Not Detected	Not Detected	21.30	No
2244	144-168	Not Tested	Not Tested	Not Tested	No
2335	0-048	Not Tested	Not Tested	Not Tested	No
2335	012	167.00	530.00	1670.00	No
2337	0-042	Not Tested	Not Tested	Not Tested	No
2337	012	67.00	230.00	284.00	No
2341	0-096	Not Tested	Not Tested	Not Tested	No
2341	012	454.00	1640.00	7710.00	No
2341	036	364.00	3100.00	356.00	No
2341	060	405.00	5400.00	182.00	No
2343	012	188.00	690.00	3920.00	No
2343	063	Not Detected	Not Detected	114.00	No
2345	0-066	Not Tested	Not Tested	Not Tested	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
2444	084	11.00	Not Detected	10.00	No
2446	0-168	Not Tested	Not Tested	Not Tested	No
2446	012	30.00	140.00	351.00	No
2446	060	Not Detected	Not Detected	10.70	No
2446	108	14.00	Not Detected	9.60	No
2446	180-204	Not Tested	Not Tested	Not Tested	No
2448	012	9.00	60.00	496.00	No
2448	048-120	Not Tested	Not Tested	Not Tested	No
2448	060	Not Detected	Not Detected	14.30	No
2448	084	30.00	Not Detected	58.80	No
2450	0-120	Not Tested	Not Tested	Not Tested	No
2450	012	5.00	Not Detected	124.00	No
2450	060	5.00	Not Detected	16.90	No
2450	084	37.00	70.00	60.90	No
2529	0-048	Not Tested	Not Tested	Not Tested	No
2529	012	Not Detected	Not Detected	4.80	No
2529	036	Not Detected	Not Detected	0.80	No
2531	012	419.00	1100.00	6730.00	No
2533	012	682.00	990.00	5250.00	No
2535	0-048	Not Tested	Not Tested	Not Tested	No
2535	012	115.00	480.00	631.00	No
2535	036	3.00	20.00	23.70	No
2539	012	680.00	6420.00	136.00	No
2539	036	263.00	6800.00	Not Detected	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
2630	012	34.00	Not Detected	13.00	No
2632	012	353.00	1100.00	2330.00	No
2634	0-096	Not Tested	Not Tested	Not Tested	No
2634	012	179.00	10300.00	1400.00	No
2634	060	464.00	11500.00	6.90	No
2640	006	302.00	805.00	25400.00	No
2642	0-072	Not Tested	Not Tested	Not Tested	No
2642	012	15.00	Not Detected	186.00	No
2642	036	17.00	Not Detected	345.00	No
2642	060	Not Detected	Not Detected	95.40	No
2644	012	351.00	1930.00	280.00	No
2644	060	3500.00	6500.00	63.00	No
2644	108	2690.00	4100.00	35.90	No
2646	012	661.00	3000.00	3690.00	No
2646	024-048	Not Tested	Not Tested	Not Tested	No
2646	060	622.00	1620.00	2630.00	Yes
2646	102	262.00	660.00	336.00	Yes
2646	108-120	Not Tested	Not Tested	Not Tested	No
2648	012	207.00	500.00	2180.00	No
2648	072	111.00	1590.00	15.70	No
2648	126	100.00	50.00	10.20	No
2648	192	Not Detected	Not Detected	3.30	No
2650	012	159.00	1270.00	18300.00	No
2650	072	5.00	Not Detected	15.30	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
2727	012	1060.00	1320.00	7.80	No
2727	012	1500.00	3570.00	4.00	No
2727	036	1970.00	2900.00	10.30	No
2727	036	11200.00	3000.00	10.40	No
2727	060	2760.00	8880.00	20.00	No
2727	060	930.00	210.00	20.00	No
2729	0-072	Not Tested	Not Tested	Not Tested	No
2729	012	22.00	170.00	3.20	No
2729	036	55.00	270.00	5.30	No
2731	0-048	Not Tested	Not Tested	Not Tested	No
2731	012	791.00	11000.00	6.80	No
2731	036	671.00	100.00	5.90	No
2731	060	357.00	960.00	2350.00	Yes
2733	0-096	Not Tested	Not Tested	Not Tested	No
2733	012	255.00	7050.00	37.30	No
2733	036	189.00	8430.00	122.00	No
2733	060	726.00	5000.00	637.00	No
2737	0-130	Not Tested	Not Tested	Not Tested	No
2737	012	148.00	1740.00	31.30	No
2737	036	485.00	15600.00	Not Detected	No
2737	060	1070.00	25100.00	Not Detected	No
2737	084	910.00	25800.00	Not Detected	No
2739	003	200.00	963.00	21300.00	Yes
2741	0-096	Not Tested	Not Tested	Not Tested	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
2751	378	3.00	Not Detected	1.70	No
2753	012	43.00	350.00	134.00	No
2753	060-084	Not Tested	Not Tested	Not Tested	Yes
2753	120-144	Not Tested	Not Tested	Not Tested	Yes
2753	192	349.00	60.00	2.80	No
2753	240-264	Not Tested	Not Tested	Not Tested	No
2753	303	71.00	Not Detected	Not Detected	No
2753	309	Not Detected	Not Detected	5.20	No
2755	0-072	Not Tested	Not Tested	Not Tested	No
2755	012	12.00	Not Detected	78.20	No
2755	036	8.00	Not Detected	2.20	No
2755	054	6.00	Not Detected	11.50	No
2820	009	Not Detected	Not Detected	9.90	No
2820	024-072	Not Tested	Not Tested	Not Tested	No
2820	036	Not Detected	Not Detected	14.80	No
2822	0-048	Not Tested	Not Tested	Not Tested	No
2822	012	1.00	Not Detected	5.30	No
2822	012	3.00	Not Detected	1.00	No
2824	0-048	Not Tested	Not Tested	Not Tested	No
2824	012	3.00	30.00	7.30	No
2828	0-120	Not Tested	Not Tested	Not Tested	No
2828	012	219.00	1100.00	13.80	No
2828	012	230.00	21700.00	30.00	No
2828	036	1160.00	4600.00	4.20	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
2840	036	355.00	1840.00	57.20	No
2840	060	569.00	2700.00	328.00	No
2844	0-096	Not Tested	Not Tested	Not Tested	No
2844	012	336.00	9690.00	26.80	No
2844	036	302.00	8850.00	83.90	No
2844	060	375.00	2500.00	88.50	No
2844	084	2080.00	12600.00	31.50	No
2846	012	21.00	120.00	860.00	No
2846	036	18.00	110.00	1500.00	Yes
2846	060	20.00	140.00	1290.00	Yes
2846	084	151.00	1510.00	2860.00	No
2846	108	28.00	440.00	721.00	Yes
2846	120-144	Not Tested	Not Tested	Not Tested	No
2848	012	Not Detected	Not Detected	21.10	No
2848	120-144	Not Tested	Not Tested	Not Tested	No
2854	0-072	Not Tested	Not Tested	Not Tested	No
2854	012	Not Detected	Not Detected	5.90	No
2917	0-096	Not Tested	Not Tested	Not Tested	No
2917	012	18.00	130.00	5.10	No
2917	036	7.00	50.00	5.20	No
2917	060	Not Detected	10.00	6.50	No
2917	084	Not Detected	Not Detected	9.60	No
2919	0-037	Not Tested	Not Tested	Not Tested	No
2919	012	4.00	Not Detected	8.10	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
2937	012	921.00	8700.00	120.00	No
2937	036	667.00	7800.00	1.60	No
2937	084	2800.00	3300.00	176.00	No
2939	0-096	Not Tested	Not Tested	Not Tested	No
2939	012	595.00	820.00	24.10	No
2939	036	64.00	2100.00	Not Detected	No
2939	060	1690.00	6700.00	186.00	No
2939	084	385.00	1910.00	28.00	No
2941	012	384.00	2700.00	72.80	No
2941	048-108	Not Tested	Not Tested	Not Tested	Yes
2941	060	411.00	5600.00	1170.00	Yes
2941	102	668.00	440.00	2290.00	Yes
2941	114	340.00	Not Detected	15.50	No
2943	0-120	Not Tested	Not Tested	Not Tested	No
2943	012	2320.00	33900.00	236.00	No
2943	060	260.00	1070.00	11.60	No
2943	084	6230.00	23800.00	44.10	No
2945	0-096	Not Tested	Not Tested	Not Tested	No
2945	012	57.00	390.00	224.00	No
2945	036	50.00	440.00	225.00	No
2945	060	384.00	Not Detected	58.60	No
2947	0-048	Not Tested	Not Tested	Not Tested	No
2947	012	Not Detected	Not Detected	5.50	No
3014	0-024	Not Tested	Not Tested	Not Tested	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
3036	0-120	Not Tested	Not Tested	Not Tested	No
3036	012	194.00	1890.00	393.00	No
3036	060	339.00	530.00	20.30	No
3036	084	726.00	2900.00	11.10	No
3036	108	1110.00	390.00	61.00	No
3038	0-096	Not Tested	Not Tested	Not Tested	No
3038	012	97.00	966.00	233.00	No
3038	036	132.00	5300.00	26.60	No
3038	084	4630.00	26800.00	38.00	No
3040	0-096	Not Tested	Not Tested	Not Tested	No
3040	012	231.00	2130.00	155.00	No
3040	036	269.00	5900.00	18.70	No
3040	060	105.00	3200.00	13.70	No
3042	0-096	Not Tested	Not Tested	Not Tested	No
3042	012	63.00	240.00	127.00	No
3042	060	22.00	Not Detected	31.90	No
3042	078	543.00	1400.00	58.40	No
3044	0-024	Not Tested	Not Tested	Not Tested	No
3044	012	157.00	190.00	79.50	No
3044	048-080	Not Tested	Not Tested	Not Tested	No
3044	060	90.00	160.00	6.40	No
3044	076	35.00	100.00	8.20	No
3046	0-096	Not Tested	Not Tested	Not Tested	No
3046	012	746.00	1190.00	64.70	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
3135	036	770.00	2160.00	3.60	No
3135	060	501.00	430.00	5.00	No
3135	084	970.00	1450.00	34.20	No
3137	0-088	Not Tested	Not Tested	Not Tested	No
3137	012	98.00	1250.00	75.80	No
3137	036	36.00	580.00	80.90	No
3137	060	12.00	210.00	149.00	No
3137	078	185.00	210.00	576.00	No
3137	108-126	Not Tested	Not Tested	Not Tested	No
3139	004	292.00	1710.00	96.00	No
3145	0-048	Not Tested	Not Tested	Not Tested	No
3145	012	49.00	280.00	412.00	No
3204	0-030	Not Tested	Not Tested	Not Tested	No
3204	012	Not Detected	Not Detected	62.60	No
3204	048-059	Not Tested	Not Tested	Not Tested	No
3206	012	Not Detected	Not Detected	25.50	No
3210	0-054	Not Tested	Not Tested	Not Tested	No
3210	012	3.00	Not Detected	18.40	No
3210	036	Not Detected	Not Detected	12.00	No
3212	008	4.00	80.00	11.00	No
3214	009	Not Detected	Not Detected	22.10	No
3216	005	Not Detected	Not Detected	18.40	No
3218	012	Not Detected	Not Detected	36.10	No
3218	024-036	Not Tested	Not Tested	Not Tested	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
3333	012	258.00	2700.00	11.20	No
3333	036	26.00	410.00	Not Detected	No
3333	060	106.00	410.00	Not Detected	No
3333	084	61.00	170.00	35.50	No
3333	096-118	Not Tested	Not Tested	Not Tested	No
3335	012	137.00	4600.00	14.10	No
3335	036	62.00	Not Detected	Not Detected	No
3335	060	133.00	180.00	Not Detected	No
3335	084	152.00	712.00	91.40	No
3341	012	69.00	1360.00	117.00	No
3341	035	206.00	140.00	18.80	No
3343	002	Not Detected	30.00	66.80	No
3406	012	6.00	Not Detected	28.30	No
3406	024-042	Not Tested	Not Tested	Not Tested	No
3406	048-072	Not Tested	Not Tested	Not Tested	No
3432	012	52.00	170.00	28.90	No
3432	036	59.00	855.00	Not Detected	No
3432	060	118.00	1070.00	1.80	No
3432	084	534.00	550.00	Not Detected	No
3432	096-120	Not Tested	Not Tested	Not Tested	No
3434	012	3160.00	16100.00	21.00	No
3434	036	886.00	7820.00	3.90	No
3434	060	12.00	310.00	Not Detected	No
3434	084	3100.00	3700.00	28.60	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
3539	060	226.00	620.00	7.10	No
3539	084	54.00	Not Detected	3.40	No
3539	108	50.00	Not Detected	18.40	No
3541	012	193.00	805.00	16.60	No
3541	036	79.00	220.00	15.60	No
3541	048-056	Not Tested	Not Tested	Not Tested	No
3553	012	5.00	Not Detected	403.00	No
3553	024-048	Not Tested	Not Tested	Not Tested	No
3610	006	Not Detected	Not Detected	19.80	No
3610	060	Not Detected	Not Detected	2.60	No
3610	072-114	Not Tested	Not Tested	Not Tested	No
3610	128	Not Detected	Not Detected	13.00	No
3610	168-174	Not Tested	Not Tested	Not Tested	No
3612	003	4.00	40.00	20.60	No
3612	060	Not Detected	Not Detected	2.50	No
3612	072-096	Not Tested	Not Tested	Not Tested	No
3614	012	107.00	2900.00	13.00	No
3614	042	634.00	13100.00	Not Detected	No
3614	066	133.00	2040.00	Not Detected	No
3614	078-102	Not Tested	Not Tested	Not Tested	No
3630	012	101.00	290.00	27.40	No
3630	036	220.00	300.00	1.90	No
3630	060	77.00	210.00	6.80	No
3632	012	Not Detected	70.00	377.00	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
3729	036	Not Detected	190.00	0.80	No
3729	060	5.00	30.00	4.70	No
3729	072-096	Not Tested	Not Tested	Not Tested	No
3731	010	51.00	200.00	48.10	No
3731	036	24.00	884.00	1.60	No
3731	048-072	Not Tested	Not Tested	Not Tested	No
3737	012	192.00	550.00	35.90	No
3737	036	207.00	815.00	21.00	No
3737	060	65.00	250.00	31.80	No
3737	072-096	Not Tested	Not Tested	Not Tested	No
3739	012	97.00	560.00	30.60	No
3739	036	2780.00	914.00	20.40	No
3739	060	653.00	1870.00	10.70	No
3741	012	Not Detected	Not Detected	56.90	No
3741	024-072	Not Tested	Not Tested	Not Tested	No
3743	007	Not Detected	Not Detected	28.50	No
3745	004	Not Detected	Not Detected	54.10	No
3747	0-018	Not Tested	Not Tested	Not Tested	No
3747	012	Not Detected	Not Detected	22.10	No
3747	024-032	Not Tested	Not Tested	Not Tested	No
3749	0-036	Not Tested	Not Tested	Not Tested	No
3749	012	Not Detected	Not Detected	38.80	No
3751	0-024	Not Tested	Not Tested	Not Tested	Yes
3751	012	7.00	Not Detected	1940.00	Yes

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
3836	012	44.00	665.00	34.70	No
3836	030	59.00	1140.00	19.10	No
3836	060	136.00	5300.00	16.70	No
3836	084	102.00	8210.00	42.80	No
3838	0-090	Not Tested	Not Tested	Not Tested	No
3838	012	52.00	320.00	103.00	No
3838	036	141.00	320.00	15.00	No
3838	060	198.00	420.00	63.20	No
3840	0-096	Not Tested	Not Tested	Not Tested	No
3840	012	163.00	550.00	53.40	No
3840	036	132.00	450.00	28.40	No
3840	060	58.00	320.00	37.50	No
3842	0-006	Not Tested	Not Tested	Not Tested	No
3842	004	Not Detected	Not Detected	43.70	No
3844	0-006	Not Tested	Not Tested	Not Tested	No
3844	002	Not Detected	Not Detected	42.50	No
3846	0-036	Not Tested	Not Tested	Not Tested	No
3846	012	6.00	130.00	377.00	No
3846	036	Not Detected	Not Detected	262.00	No
3848	0-085	Not Tested	Not Tested	Not Tested	No
3848	012	Not Detected	Not Detected	144.00	No
3848	060	Not Detected	20.00	41.40	No
3850	0-104	Not Tested	Not Tested	Not Tested	No
3850	012	Not Detected	30.00	291.00	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
3913	072	Not Detected	Not Detected	11.20	No
3915	0-084	Not Tested	Not Tested	Not Tested	No
3915	012	Not Detected	220.00	42.00	No
3915	036	Not Detected	40.00	24.90	No
3917	0-072	Not Tested	Not Tested	Not Tested	No
3917	012	Not Detected	40.00	30.00	No
3917	036	1.00	60.00	18.80	No
3917	060	Not Detected	40.00	19.60	No
3919	0-048	Not Tested	Not Tested	Not Tested	No
3919	012	19.00	210.00	79.00	No
3919	036	Not Detected	30.00	38.00	No
3921	0-096	Not Tested	Not Tested	Not Tested	No
3921	012	211.00	750.00	2190.00	No
3921	036	94.00	380.00	658.00	No
3921	060	418.00	1070.00	130.00	No
3923	0-072	Not Tested	Not Tested	Not Tested	No
3923	012	436.00	715.00	16.70	No
3923	036	2990.00	190.00	7.90	No
3925	0-072	Not Tested	Not Tested	Not Tested	No
3925	012	502.00	2020.00	16.10	No
3925	036	9.00	Not Detected	4.70	No
3927	0-120	Not Tested	Not Tested	Not Tested	No
3927	012	64.00	1620.00	24.20	No
3927	036	77.00	2050.00	25.80	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
3939	060	261.00	200.00	31.10	No
3941	0-007	Not Tested	Not Tested	Not Tested	No
3941	002	Not Detected	Not Detected	55.40	No
3943	0-072	Not Tested	Not Tested	Not Tested	No
3943	012	100.00	350.00	194.00	No
3943	036	205.00	660.00	89.90	No
3945	0-072	Not Tested	Not Tested	Not Tested	No
3945	012	146.00	1720.00	241.00	No
3945	036	8.00	Not Detected	6.80	No
3949	0-048	Not Tested	Not Tested	Not Tested	No
3949	012	Not Detected	10.00	121.00	No
3951	0-024	Not Tested	Not Tested	Not Tested	No
3951	012	Not Detected	Not Detected	712.00	No
3951	024-127	Not Tested	Not Tested	Not Tested	Yes
3951	072	Not Detected	30.00	5880.00	Yes
3951	120	Not Detected	Not Detected	2800.00	Yes
3953	0-024	Not Tested	Not Tested	Not Tested	No
3953	012	11.00	110.00	12400.00	No
3953	024-072	Not Tested	Not Tested	Not Tested	Yes
3953	060	6.00	Not Detected	20300.00	Yes
3953	072-109	Not Tested	Not Tested	Not Tested	No
3953	102	Not Detected	Not Detected	151.00	No
3955	0-024	Not Tested	Not Tested	Not Tested	No
3955	012	25.00	530.00	2900.00	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
4028	036	72.00	Not Detected	3.20	No
4028	060	69.00	200.00	8.90	No
4028	084	106.00	110.00	25.00	No
4030	012	67.00	520.00	142.00	No
4030	036	54.00	3000.00	0.80	No
4030	060	40.00	2600.00	0.90	No
4030	084	Not Detected	Not Detected	Not Detected	No
4034	0-096	Not Tested	Not Tested	Not Tested	No
4034	012	16.00	120.00	219.00	No
4034	036	126.00	460.00	26.80	No
4034	060	224.00	390.00	21.70	No
4036	0-096	Not Tested	Not Tested	Not Tested	No
4036	012	Not Detected	70.00	53.00	No
4036	036	72.00	340.00	Not Detected	No
4036	060	129.00	Not Detected	4.80	No
4038	012	88.00	340.00	16.80	No
4038	036	387.00	1200.00	5.10	No
4038	060	222.00	60.00	17.20	No
4038	084	4.00	Not Detected	Not Detected	No
4040	018	89.00	1910.00	42.80	No
4040	066	Not Detected	Not Detected	5.30	No
4040	099	Not Tested	Not Tested	Not Tested	No
4040	126	Not Detected	Not Detected	10.10	No
4042	0-072	Not Tested	Not Tested	Not Tested	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
4058	048-072	Not Tested	Not Tested	Not Tested	No
4058	108	Not Detected	Not Detected	29.90	Yes
4058	120-168	Not Tested	Not Tested	Not Tested	Yes
4058	174	Not Detected	Not Detected	570.00	No
4058	180-192	Not Tested	Not Tested	Not Tested	No
4060	012	20.00	Not Detected	515.00	No
4060	060-084	Not Tested	Not Tested	Not Tested	No
4060	132	5.00	Not Detected	190.00	No
4060	144-192	Not Tested	Not Tested	Not Tested	Yes
4060	186	Not Detected	Not Detected	232.00	Yes
4060	192-204	Not Tested	Not Tested	Not Tested	No
4111	012	2.00	Not Detected	17.60	No
4111	027	8.00	120.00	16.90	No
4113	006	Not Detected	100.00	20.70	No
4113	020	Not Detected	40.00	70.10	No
4113	048-072	Not Tested	Not Tested	Not Tested	No
4115	007	26.00	200.00	32.00	No
4117	0-072	Not Tested	Not Tested	Not Tested	No
4117	012	43.00	1200.00	1150.00	No
4117	036	177.00	2970.00	7700.00	No
4119	012	188.00	372.00	101.00	No
4119	036	21.00	60.00	13.60	No
4125	012	64.00	300.00	20.50	No
4127	0-120	Not Tested	Not Tested	Not Tested	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
4141	036	385.00	Not Detected	3.50	No
4141	060	806.00	1420.00	15.20	No
4143	0-072	Not Tested	Not Tested	Not Tested	No
4143	012	162.00	4100.00	69.10	No
4143	036	455.00	Not Detected	4.80	No
4145	0-049	Not Tested	Not Tested	Not Tested	No
4145	012	44.00	340.00	1360.00	No
4145	036	220.00	4200.00	11.60	No
4147	0-072	Not Tested	Not Tested	Not Tested	No
4147	012	23.00	200.00	8280.00	No
4147	036	Not Detected	Not Detected	125.00	No
4149	0-048	Not Tested	Not Tested	Not Tested	Yes
4149	012	6.00	200.00	16500.00	Yes
4149	060	Not Detected	Not Detected	48.90	No
4149	102-120	Not Tested	Not Tested	Not Tested	No
4151	012	Not Detected	Not Detected	10.50	No
4151	060-084	Not Tested	Not Tested	Not Tested	No
4151	084-240	Not Tested	Not Tested	Not Tested	Yes
4151	132	7.00	400.00	3840.00	Yes
4151	192	Not Detected	Not Detected	2630.00	Yes
4153	012	5.00	30.00	3470.00	No
4153	072	Not Detected	Not Detected	23.00	No
4155	0-030	Not Tested	Not Tested	Not Tested	No
4155	012	12.00	120.00	932.00	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
4226	060	Not Detected	Not Detected	38.10	No
4228	012	103.00	2110.00	653.00	No
4228	048-095	Not Tested	Not Tested	Not Tested	No
4228	060	Not Detected	Not Detected	14.20	No
4230	0-096	Not Tested	Not Tested	Not Tested	No
4230	012	45.00	642.00	175.00	No
4230	036	23.00	1230.00	16.60	No
4230	060	24.00	1540.00	8.50	No
4232	0-096	Not Tested	Not Tested	Not Tested	No
4232	012	50.00	Not Detected	198.00	No
4232	036	169.00	1360.00	12.70	No
4232	060	87.00	Not Detected	8.30	No
4234	0-096	Not Tested	Not Tested	Not Tested	No
4234	012	88.00	1010.00	86.50	No
4234	036	78.00	520.00	13.60	No
4234	060	20.00	Not Detected	16.40	No
4236	0-096	Not Tested	Not Tested	Not Tested	No
4236	012	678.00	2600.00	196.00	No
4236	036	793.00	2100.00	18.00	No
4236	060	216.00	898.00	155.00	No
4238	0-072	Not Tested	Not Tested	Not Tested	No
4238	012	485.00	8480.00	Not Detected	No
4238	036	362.00	12000.00	41.20	No
4238	054	Not Detected	Not Detected	210.00	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
4254	186	Not Detected	Not Detected	146.00	No
4254	196	Not Detected	Not Detected	32.10	No
4256	0-252	Not Tested	Not Tested	Not Tested	Yes
4256	012	Not Detected	Not Detected	29.50	Yes
4256	132	Not Detected	50.00	1390.00	Yes
4256	252	Not Detected	Not Detected	300.00	Yes
4309	012	1.00	Not Detected	11.90	No
4309	036	Not Detected	Not Detected	3.00	No
4311	012	Not Detected	Not Detected	56.00	No
4311	048-072	Not Tested	Not Tested	Not Tested	No
4313	0-072	Not Tested	Not Tested	Not Tested	No
4313	012	Not Detected	Not Detected	22.70	No
4313	036	4.00	Not Detected	7.60	No
4315	0-072	Not Tested	Not Tested	Not Tested	No
4315	012	6.00	Not Detected	19.00	No
4315	036	8.00	Not Detected	169.00	No
4317	0-072	Not Tested	Not Tested	Not Tested	No
4317	012	95.00	650.00	4.90	No
4317	036	64.00	510.00	1.60	No
4323	0-095	Not Tested	Not Tested	Not Tested	No
4323	012	105.00	290.00	30.90	No
4323	036	3.00	30.00	15.10	No
4323	060	Not Detected	Not Detected	8.40	No
4323	060	57.00	Not Detected	38.00	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
4337	012	335.00	1870.00	62.60	No
4337	036	625.00	3000.00	73.90	No
4337	060	Not Detected	460.00	136.00	No
4337	084	Not Detected	Not Detected	3.00	No
4339	0-096	Not Tested	Not Tested	Not Tested	No
4339	012	732.00	5100.00	4.20	No
4339	036	1080.00	15100.00	2.90	No
4339	060	11.00	Not Detected	2.90	No
4341	012	280.00	2290.00	29.30	No
4341	036	90.00	961.00	19.40	No
4341	060	Not Detected	Not Detected	3.80	No
4343	012	314.00	7340.00	19.20	No
4343	030	128.00	Not Detected	13.00	No
4345	0-048	Not Tested	Not Tested	Not Tested	No
4345	012	9.00	170.00	45.00	No
4347	012	9.00	Not Detected	358.00	No
4347	060	82.00	650.00	548.00	No
4347	108	36.00	350.00	232.00	No
4347	120-133	Not Tested	Not Tested	Not Tested	No
4351	012	9.00	Not Detected	134.00	No
4351	024-264	Not Tested	Not Tested	Not Tested	Yes
4351	132	Not Detected	Not Detected	2430.00	Yes
4351	246	Not Detected	Not Detected	267.00	Yes
4353	012	20.00	40.00	706.00	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
4414	0-072	Not Tested	Not Tested	Not Tested	No
4414	012	2.00	Not Detected	11.70	No
4414	036	3.00	Not Detected	10.30	No
4416	012	114.00	1400.00	48.00	No
4416	036	60.00	610.00	11.40	No
4424	012	173.00	710.00	13.40	No
4424	036	8.00	Not Detected	8.50	No
4426	012	87.00	Not Detected	87.10	No
4426	036	255.00	1590.00	15.70	No
4426	060	Not Detected	Not Detected	61.80	No
4428	0-096	Not Tested	Not Tested	Not Tested	No
4428	012	364.00	4200.00	43.30	No
4428	036	5130.00	8930.00	11.60	No
4428	060	615.00	Not Detected	2.30	No
4430	0-096	Not Tested	Not Tested	Not Tested	No
4430	012	Not Detected	Not Detected	36.60	No
4430	036	1110.00	8460.00	15.90	No
4430	060	4260.00	18300.00	14.20	No
4432	0-072	Not Tested	Not Tested	Not Tested	No
4432	012	159.00	610.00	1080.00	No
4432	036	6.00	Not Detected	22.40	No
4434	005	532.00	1900.00	23.40	No
4438	0-096	Not Tested	Not Tested	Not Tested	No
4438	012	303.00	620.00	21.20	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
4452	312	341.00	1160.00	3290.00	Yes
4454	012	37.00	Not Detected	70.80	No
4454	060-084	Not Tested	Not Tested	Not Tested	No
4454	084-180	Not Tested	Not Tested	Not Tested	Yes
4454	132	11.00	130.00	2970.00	Yes
4454	180	Not Detected	Not Detected	64.20	No
4454	180-198	Not Tested	Not Tested	Not Tested	No
4456	012	9.00	Not Detected	114.00	No
4456	024-132	Not Tested	Not Tested	Not Tested	Yes
4456	072	10.00	Not Detected	2040.00	Yes
4456	132	7.00	Not Detected	699.00	Yes
4456	192	Not Detected	Not Detected	631.00	No
4458	0-120	Not Tested	Not Tested	Not Tested	Yes
4458	012	24.00	110.00	259.00	Yes
4458	132	73.00	530.00	823.00	No
4458	144-220	Not Tested	Not Tested	Not Tested	Yes
4458	252	3.00	60.00	40.70	No
4458	300-306	Not Tested	Not Tested	Not Tested	No
4507	012	Not Detected	Not Detected	14.70	No
4507	036	Not Detected	Not Detected	5.10	No
4509	0-072	Not Tested	Not Tested	Not Tested	No
4509	012	3.00	Not Detected	87.00	No
4509	036	Not Detected	Not Detected	11.50	No
4512	001	7.00	Not Detected	46.00	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
4537	060	636.00	710.00	32.50	No
4537	084	703.00	580.00	169.00	No
4539	012	980.00	1730.00	16.70	No
4539	036	806.00	975.00	25.00	No
4539	060	378.00	360.00	45.40	No
4541	012	Not Detected	Not Detected	34.90	No
4541	036	80.00	150.00	83.10	No
4541	060	189.00	2100.00	19.00	No
4541	078	Not Detected	Not Detected	14.00	No
4543	002	49.00	570.00	507.00	No
4547	0-096	Not Tested	Not Tested	Not Tested	No
4547	012	32.00	140.00	306.00	No
4547	036	52.00	300.00	711.00	No
4547	060	226.00	480.00	511.00	No
4549	012	42.00	1330.00	1090.00	No
4549	072	67.00	1340.00	7.50	No
4549	132	45.00	2330.00	13.20	No
4551	012	8.00	Not Detected	1020.00	Yes
4551	072	92.00	1630.00	15000.00	No
4551	132	54.00	700.00	32200.00	No
4551	180-204	Not Tested	Not Tested	Not Tested	No
4555	012	26.00	100.00	575.00	No
4555	060-084	Not Tested	Not Tested	Not Tested	No
4555	084-192	Not Tested	Not Tested	Not Tested	Yes

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
4616	0-072	Not Tested	Not Tested	Not Tested	No
4616	012	353.00	5400.00	2.90	No
4616	036	1140.00	2130.00	4.40	No
4622	004	14.00	160.00	134.00	No
4624	0-036	Not Tested	Not Tested	Not Tested	No
4624	012	154.00	450.00	8.10	No
4626	004	54.00	150.00	141.00	No
4628	002	28.00	Not Detected	27.70	No
4630	0-096	Not Tested	Not Tested	Not Tested	No
4630	012	63.00	Not Detected	171.00	No
4630	036	Not Detected	Not Detected	256.00	No
4630	060	59.00	20.00	10.80	No
4632	0-096	Not Tested	Not Tested	Not Tested	No
4632	012	87.00	Not Detected	41.20	No
4632	036	55.00	Not Detected	46.20	No
4632	060	Not Detected	Not Detected	205.00	No
4640	012	231.00	1620.00	29.90	No
4640	060	452.00	230.00	40.20	No
4642	0-072	Not Tested	Not Tested	Not Tested	No
4642	012	72.00	3200.00	82.70	No
4642	036	1480.00	803.00	42.60	No
4644	012	133.00	2140.00	513.00	No
4644	036	264.00	4800.00	8.20	No
4644	054	147.00	2900.00	36.40	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
4715	0-096	Not Tested	Not Tested	Not Tested	No
4715	012	637.00	2700.00	15.70	No
4715	036	588.00	2900.00	7.70	No
4721	012	39.00	70.00	9.10	No
4721	030	Not Detected	Not Detected	10.10	No
4723	012	38.00	100.00	17.20	No
4725	012	21.00	Not Detected	29.60	No
4727	002	125.00	510.00	81.50	No
4729	012	Not Detected	Not Detected	301.00	No
4729	036	Not Detected	Not Detected	524.00	No
4731	012	Not Detected	260.00	190.00	No
4731	036	Not Detected	2070.00	137.00	No
4731	054	Not Detected	Not Detected	125.00	No
4731	066	11.00	Not Detected	2.00	No
4733	012	21.00	Not Detected	81.90	No
4741	0-036	Not Tested	Not Tested	Not Tested	No
4741	012	56.00	610.00	17.20	No
4743	012	249.00	1820.00	4600.00	No
4743	036	60.00	Not Detected	45.20	No
4745	0-072	Not Tested	Not Tested	Not Tested	No
4745	012	1160.00	1120.00	14.70	No
4745	036	652.00	8100.00	27.80	No
4747	012	728.00	7800.00	94.00	No
4747	048-096	Not Tested	Not Tested	Not Tested	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
4834	005	12.00	Not Detected	117.00	No
4846	0-048	Not Tested	Not Tested	Not Tested	No
4846	012	49.00	380.00	4910.00	No
4846	060	Not Detected	Not Detected	129.00	No
4846	072-096	Not Tested	Not Tested	Not Tested	No
4848	012	294.00	3700.00	25300.00	No
4848	036	309.00	4400.00	1720.00	No
4848	060	4.00	Not Detected	7.00	No
4850	0-048	Not Tested	Not Tested	Not Tested	No
4850	012	Not Detected	Not Detected	19.90	No
4852	0-048	Not Tested	Not Tested	Not Tested	No
4852	006	1200.00	20300.00	Not Detected	No
4919	012	42.00	170.00	10.80	No
4919	036	Not Detected	Not Detected	10.20	No
4921	0-060	Not Tested	Not Tested	Not Tested	No
4921	012	34.00	160.00	10.10	No
4921	036	Not Detected	Not Detected	3.80	No
4923	012	Not Detected	Not Detected	20.10	No
4925	0-037	Not Tested	Not Tested	Not Tested	No
4925	012	Not Detected	20.00	43.70	No
4927	006	Not Detected	Not Detected	37.20	No
4943	004	44.00	Not Detected	25.90	No
4945	005	10.00	Not Detected	2.40	No
4947	0-072	Not Tested	Not Tested	Not Tested	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
5044	060	Not Detected	Not Detected	1.60	No
5046	012	65.00	933.00	642.00	No
5046	036	Not Detected	Not Detected	6.60	No
5046	060	Not Detected	Not Detected	2.40	No
5048	0-037	Not Tested	Not Tested	Not Tested	No
5048	012	Not Detected	Not Detected	32.00	No
5119	0-072	Not Tested	Not Tested	Not Tested	No
5119	012	14.00	Not Detected	124.00	No
5119	036	4.00	Not Detected	4.00	No
5121	012	Not Detected	Not Detected	19.30	No
5121	028	Not Detected	Not Detected	19.00	No
5127	012	10.00	20.00	224.00	No
5129	012	18.00	140.00	100.00	No
5129	072	13.00	20.00	412.00	Yes
5129	132	12.00	60.00	415.00	Yes
5129	192	Not Detected	Not Detected	17.70	No
5129	240-246	Not Tested	Not Tested	Not Tested	No
5131	0-264	Not Tested	Not Tested	Not Tested	Yes
5131	012	58.00	320.00	1560.00	Yes
5131	132	12.00	140.00	1680.00	Yes
5131	252	Not Detected	Not Detected	50.40	Yes
5133	012	211.00	300.00	1970.00	Yes
5133	036	76.00	360.00	1150.00	Yes
5147	0-037	Not Tested	Not Tested	Not Tested	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
B-5	0-065	Not Tested	Not Tested	Not Tested	No
B-6	0-186	Not Tested	Not Tested	Not Tested	No
B-6	000	Not Detected	Not Detected	26.30	No
B-6	000	Not Detected	Not Detected	9.40	No
B-6	012	806.00	4516.00	280.00	No
B-7	0-096	Not Tested	Not Tested	Not Tested	No
B-7	000	124.00	1010.00	6300.00	No
B-7	000	13.00	Not Detected	6.10	No
B-7	036	39.00	225.00	68.00	No
B-8	0-096	Not Tested	Not Tested	Not Tested	No
B-8	012	3.00	11.00	Not Tested	No
B-9	0-096	Not Tested	Not Tested	Not Tested	No
B-9	012	118.00	86.00	637.00	No
B-9	036	12.00	Not Tested	16.00	No
B-10	0-024	Not Tested	Not Tested	Not Tested	No
B-10	024-048	Not Tested	Not Tested	Not Tested	Yes
B-10	048-070	Not Tested	Not Tested	Not Tested	No
B-10	065	126.00	100.00	2105.00	Yes
B-11	0-024	Not Tested	Not Tested	Not Tested	Yes
B-11	012	104.00	188.00	977.00	Yes
B-12	0-168	Not Tested	Not Tested	Not Tested	No
B-12	012	1026.00	8803.00	7.00	No
B-12	108	Not Tested	11.00	7.00	No
B-13	0-097	Not Tested	Not Tested	Not Tested	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
B-22	084	88.00	196.00	4956.00	Yes
B-22	107	5.00	8.00	216.00	No
B-22	120-184	Not Tested	Not Tested	Not Tested	No
B-22	176	5.00	12.00	42.00	No
B-23	0-152	Not Tested	Not Tested	Not Tested	No
B-23	000	119.00	Not Detected	3.60	No
B-23	012	237.00	445.00	1753.00	No
B-23	036	95.00	207.00	36.00	No
B-23	060	12.00	131.00	Not Tested	No
B-24	0-144	Not Tested	Not Tested	Not Tested	No
B-24	000	78.00	Not Detected	5.40	No
B-24	012	11.00	866.00	6.00	No
B-24	084	15.00	3800.00	16.00	No
B-25	0-144	Not Tested	Not Tested	Not Tested	No
B-25	000	790.00	1840.00	41.70	No
B-25	084	21.00	1875.00	135.00	No
B-26	0-186	Not Tested	Not Tested	Not Tested	No
B-26	000	24.00	Not Detected	12.40	No
B-26	000	292.00	5570.00	185.00	No
B-26	132	284.00	2018.00	202.00	No
B-27	0-348	Not Tested	Not Tested	Not Tested	Yes
B-27	000	14.00	Not Detected	16.10	No
B-27	000	21.00	60.00	115.00	No
B-27	060	64.00	555.00	4090.00	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
B-32	084	6.00	385.00	1619.00	No
B-35	0-168	Not Tested	Not Tested	Not Tested	No
B-35	000	38.00	Not Detected	2.50	No
B-35	012	1122.00	2857.00	42.00	No
B-35	028	133.00	1152.00	36.00	No
B-36	0-168	Not Tested	Not Tested	Not Tested	No
B-36	000	2070.00	Not Detected	5.90	No
B-36	012	1262.00	4660.00	10.00	No
B-36	036	1321.00	5849.00	Not Tested	No
B-36	060	1944.00	343.00	5.00	No
B-36	084	858.00	123.00	14.00	No
B-37	0-168	Not Tested	Not Tested	Not Tested	No
B-37	036	1500.00	540.00	30.00	No
B-37	108	204.00	1944.00	48.00	No
B-39	0-168	Not Tested	Not Tested	Not Tested	No
B-39	012	12.00	77.00	6.00	No
B-40	0-216	Not Tested	Not Tested	Not Tested	No
B-40	012	19.00	1010.00	10.00	No
B-40	036	Not Tested	5.00	7.00	No
B-40	060	Not Tested	6.00	7.00	No
B-41	0-168	Not Tested	Not Tested	Not Tested	No
B-41	000	52.00	Not Detected	6.30	No
B-41	012	101.00	465.00	25.00	No
B-41	036	250.00	570.00	28.00	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
B-49	006	21.00	606.00	27.00	No
B-50	0-072	Not Tested	Not Tested	Not Tested	No
B-50	012	19.00	190.00	15.00	No
B-50	032	Not Tested	10.00	21.00	No
B-51	0-024	Not Tested	Not Tested	Not Tested	No
B-51	000	Not Detected	Not Detected	70.70	No
B-51	024-054	Not Tested	Not Tested	Not Tested	Yes
B-51	028	19.00	90.00	78.00	No
B-52	0-216	Not Tested	Not Tested	Not Tested	No
B-52	060	9.00	5.00	6.00	No
B-52	132	10.00	5.00	7.00	No
B-52	180	10.00	Not Tested	9.00	No
B-53	0-192	Not Tested	Not Tested	Not Tested	No
B-53	012	410.00	1160.00	180.00	No
B-53	108	Not Tested	15.00	7.00	No
B-54	012	9.00	140.00	110.00	No
B-54	132	3.00	5.00	33.00	No
B-55	012	680.00	8200.00	12.00	No
B-55	060	782.00	871.00	22.00	No
B-55	132	73.00	27.00	19.00	No
B-56	000	45.00	Not Detected	5.60	No
B-56	036	8932.00	36408.00	68.00	No
B-56	084	1398.00	76.00	5.00	No
B-57	000	13.30	Not Detected	7.30	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
BH-9	024-180	Not Tested	Not Tested	Not Tested	Yes
BH-9	180-204	Not Tested	Not Tested	Not Tested	No
BH-9	240-264	Not Tested	Not Tested	Not Tested	No
BH-9	300-324	Not Tested	Not Tested	Not Tested	No
BH-9	360-372	Not Tested	Not Tested	Not Tested	No
BH-9	420-444	Not Tested	Not Tested	Not Tested	No
BH-9	480-492	Not Tested	Not Tested	Not Tested	No
BH-9	540-545	Not Tested	Not Tested	Not Tested	No
BH-10	0-024	Not Tested	Not Tested	Not Tested	No
BH-10	024-480	Not Tested	Not Tested	Not Tested	Yes
BH-11	0-024	Not Tested	Not Tested	Not Tested	No
BH-11	024-480	Not Tested	Not Tested	Not Tested	Yes
BH-12	0-024	Not Tested	Not Tested	Not Tested	No
BH-12	024-192	Not Tested	Not Tested	Not Tested	Yes
BH-12	192-204	Not Tested	Not Tested	Not Tested	No
BH-13	0-024	Not Tested	Not Tested	Not Tested	No
BH-13	024-174	Not Tested	Not Tested	Not Tested	Yes
BH-14	0-060	Not Tested	Not Tested	Not Tested	Yes
BH-14	060-084	Not Tested	Not Tested	Not Tested	No
BH-14	120-144	Not Tested	Not Tested	Not Tested	No
BH-14	180-204	Not Tested	Not Tested	Not Tested	No
BH-15	0-042	Not Tested	Not Tested	Not Tested	Yes
BH-15	042-180	Not Tested	Not Tested	Not Tested	No
BH-16	0-060	Not Tested	Not Tested	Not Tested	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
J/B-3	033	55.00	3000.00	16.00	No
J/B-5	054	74.00	470.00	1.00	No
J/B-6	014	42.00	470.00	12.00	No
J/B-9A	012	8.00	55.00	2.00	No
J/C-3	024	400.00	2100.00	450.00	No
J/D	000	100.00	440.00	650.00	No
J/E	000	29.00	370.00	310.00	No
J/GZ-1	024	64.00	210.00	3.00	No
J/GZ-1	078	65.00	860.00	64.00	No
J/GZ-1	104	57.00	16.00	19.00	No
J/GZ-1	132	25.00	120.00	2.00	No
J/GZ-2	024	160.00	5800.00	64.00	No
J/GZ-2	072	75.00	1100.00	360.00	No
J/GZ-2	192	13.00	15.00	6.00	No
J/GZ-4	045	620.00	870.00	15.00	No
J/GZ-5	024	270.00	14000.00	11.00	No
J/GZ-5	096	2600.00	1700.00	18.00	No
J/GZ-5	132	160.00	15.00	12.00	No
J/GZ-5	186	210.00	15.00	14.00	No
OS-1	0-120	Not Tested	Not Tested	Not Tested	No
OS-2	0-024	Not Tested	Not Tested	Not Tested	No
OS-2	120-144	Not Tested	Not Tested	Not Tested	No
OS-2	240-264	Not Tested	Not Tested	Not Tested	No
OS-3	0-024	Not Tested	Not Tested	Not Tested	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
OW-10	0-330	Not Tested	Not Tested	Not Tested	No
OW-11	0-456	Not Tested	Not Tested	Not Tested	No
OW-12	0-582	Not Tested	Not Tested	Not Tested	No
OW-13	0-060	Not Tested	Not Tested	Not Tested	No
OW-13	060-078	Not Tested	Not Tested	Not Tested	Yes
OW-13	078-324	Not Tested	Not Tested	Not Tested	No
OW-14	0-438	Not Tested	Not Tested	Not Tested	No
OW-15	0-300	Not Tested	Not Tested	Not Tested	No
OW-16	0-408	Not Tested	Not Tested	Not Tested	No
OW-22	0-160	Not Tested	Not Tested	Not Tested	No
OW-23	0-324	Not Tested	Not Tested	Not Tested	No
OW-28	0-106	Not Tested	Not Tested	Not Tested	No
SD-1	0-168	Not Tested	Not Tested	Not Tested	No
SD-2	0-180	Not Tested	Not Tested	Not Tested	Yes
SD-3	0-024	Not Tested	Not Tested	Not Tested	No
SD-3	024-180	Not Tested	Not Tested	Not Tested	Yes
SD-3	138-144	Not Tested	Not Tested	Not Tested	Yes
SD-8	0-024	Not Tested	Not Tested	Not Tested	No
SD-8	060-084	Not Tested	Not Tested	Not Tested	No
SD-8	120-144	Not Tested	Not Tested	Not Tested	No
SD-8	180-204	Not Tested	Not Tested	Not Tested	No
SD-11	060-084	Not Tested	Not Tested	Not Tested	No
SD-11	120-144	Not Tested	Not Tested	Not Tested	No
SD-15	0-095	Not Tested	Not Tested	Not Tested	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
SD-23	180-186	Not Tested	Not Tested	Not Tested	No
SD-24	0-024	Not Tested	Not Tested	Not Tested	No
SD-24	060-078	Not Tested	Not Tested	Not Tested	No
SD-24	120-126	Not Tested	Not Tested	Not Tested	No
SD-26	0-024	Not Tested	Not Tested	Not Tested	No
SD-26	060-078	Not Tested	Not Tested	Not Tested	No
SD-26	120-138	Not Tested	Not Tested	Not Tested	No
SD-26	180-198	Not Tested	Not Tested	Not Tested	No
SD-28	0-012	Not Tested	Not Tested	Not Tested	No
SD-28	060-078	Not Tested	Not Tested	Not Tested	No
SD-28	120-138	Not Tested	Not Tested	Not Tested	No
SD-29	060-084	Not Tested	Not Tested	Not Tested	No
SD-29	120-144	Not Tested	Not Tested	Not Tested	No
SD-29	180-204	Not Tested	Not Tested	Not Tested	No
SD-30	060-084	Not Tested	Not Tested	Not Tested	No
SD-30	120-144	Not Tested	Not Tested	Not Tested	No
SD-30	216-240	Not Tested	Not Tested	Not Tested	No
SD-31	060-084	Not Tested	Not Tested	Not Tested	No
SD-31	120-138	Not Tested	Not Tested	Not Tested	No
SD-31	180-204	Not Tested	Not Tested	Not Tested	No
SD-33	060-073	Not Tested	Not Tested	Not Tested	No
SD-33	120-138	Not Tested	Not Tested	Not Tested	No
SD-33	180-204	Not Tested	Not Tested	Not Tested	No
SD-38	108-216	Not Tested	Not Tested	Not Tested	Yes

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
TP-10	120	8.00	396.00	15481.00	Yes
TP-10	Unknown	Not Tested	Not Tested	Not Tested	Yes
TP-10	Unknown	10.00	227.00	44444.00	Yes
TP-11	0-012	Not Tested	Not Tested	Not Tested	No
TP-11	012-108	Not Tested	Not Tested	Not Tested	Yes
TP-11	Unknown	7.00	15.00	180.00	No
TP-12	0-132	Not Tested	Not Tested	Not Tested	No
TP-12	024	7.00	30.00	248.00	No
TP-12	054	10.00	30.00	15.00	No
TP-13	0-066	Not Tested	Not Tested	Not Tested	No
TP-13	030	8.00	Not Tested	10.00	No
TP-14	0-072	Not Tested	Not Tested	Not Tested	No
TP-14	048	3.00	136.00	145455.00	Yes
TP-14	060	4.00	10.00	20.00	No
TP-15	0-012	Not Tested	Not Tested	Not Tested	No
TP-15	012-060	Not Tested	Not Tested	Not Tested	Yes
TP-15	036	5.00	59.00	248.00	Yes
TP-16	0-120	Not Tested	Not Tested	Not Tested	No
TP-16	012	Not Tested	253.00	12121.00	No
TP-16	Unknown	50.00	Not Tested	94.00	No
TP-17	0-084	Not Tested	Not Tested	Not Tested	No
TP-17	036	743.00	1881.00	15.00	No
TP-17	042	1100.00	10400.00	Not Tested	No
TP-17	Unknown	238.00	1832.00	104.00	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
TP-30	0-054	Not Tested	Not Tested	Not Tested	No
TP-30	024	16337.00	89109.00	Not Tested	No
TP-31	0-240	Not Tested	Not Tested	Not Tested	No
TP-31	030	175.00	320.00	110.00	No
TP-31	048	2050.00	5100.00	12.00	No
TP-32	0-018	Not Tested	Not Tested	Not Tested	No
TP-32	018-048	Not Tested	Not Tested	Not Tested	Yes
TP-32	024	129.00	376.00	64.00	Yes
TP-32	048-066	Not Tested	Not Tested	Not Tested	No
TP-33	0-078	Not Tested	Not Tested	Not Tested	No
TP-33	024	67.00	3088.00	20.00	No
TP-34	0-030	Not Tested	Not Tested	Not Tested	No
TP-35	0-084	Not Tested	Not Tested	Not Tested	No
TP-35	018	21.00	93.00	1111.00	Yes
TP-36	0-008	Not Tested	Not Tested	Not Tested	No
TP-36	008-062	Not Tested	Not Tested	Not Tested	Yes
TP-36	024	8.00	15.00	99.00	Yes
TP-36	062+	Not Tested	Not Tested	Not Tested	No
TP-37	0-108	Not Tested	Not Tested	Not Tested	No
TP-38	0-084	Not Tested	Not Tested	Not Tested	No
TP-38	018	594.00	14851.00	8.0	No
TP-39	0-054	Not Tested	Not Tested	Not Tested	No
TP-40	0-072	Not Tested	Not Tested	Not Tested	No
TP-40	036	5200.00	11000.00	105.00	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
TP-53	0-078	Not Tested	Not Tested	Not Tested	No
TP-54	0-060	Not Tested	Not Tested	Not Tested	No
TP-55	0-048	Not Tested	Not Tested	Not Tested	No
TP-56	0-048	Not Tested	Not Tested	Not Tested	No
TP-57	0-048	Not Tested	Not Tested	Not Tested	No
TP-57	033	1450.00	3100.00	13000.00	No
TP-58	0-006	Not Tested	Not Tested	Not Tested	No
TP-58	006-024	Not Tested	Not Tested	Not Tested	Yes
TP-59	0-002	Not Tested	Not Tested	Not Tested	No
TP-59	002-072	Not Tested	Not Tested	Not Tested	Yes
TP-59	024	8.00	14.00	1750.00	Yes
TP-60	0-007	Not Tested	Not Tested	Not Tested	No
TP-60	007-018	Not Tested	Not Tested	Not Tested	Yes
TP-60	010	59.00	88.00	4902.00	Yes
TP-61	0-018	Not Tested	Not Tested	Not Tested	No
TP-61	018-096	Not Tested	Not Tested	Not Tested	Yes
TP-62	0-024	Not Tested	Not Tested	Not Tested	Yes
TP-63	0-037	Not Tested	Not Tested	Not Tested	No
TP-63	012	1633.00	888.00	37.00	No
TP-63	031	5556.00	22222.00	Not Tested	No
TP-64	0-007	Not Tested	Not Tested	Not Tested	No
TP-64	005	7959.00	26531.00	Not Tested	No
TP-65	0-012	Not Tested	Not Tested	Not Tested	No
TP-65	004	1485.00	23762.00	Not Tested	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
TP-85	0-084	Not Tested	Not Tested	Not Tested	No
TP-85	024	675.00	1576.00	75.00	No
TP-85	066	594.00	158.00	Not Tested	Yes
TP-86	0-070	Not Tested	Not Tested	Not Tested	No
TP-86	018	1100.00	2600.00	100.00	No
TP-87	0-113	Not Tested	Not Tested	Not Tested	No
TP-87	018	588.00	13725.00	Not Tested	No
TP-88	0-072	Not Tested	Not Tested	Not Tested	No
TP-88	027	778.00	11111.00	Not Tested	No
TP-89	0-048	Not Tested	Not Tested	Not Tested	No
TP-89	032	941.00	1980.00	198.00	No
TP-89	048-091	Not Tested	Not Tested	Not Tested	Yes
TP-89	086	1414.00	7475.00	82.00	Yes
TP-89	091-096	Not Tested	Not Tested	Not Tested	No
TP-90	0-118	Not Tested	Not Tested	Not Tested	No
TP-91	0-072	Not Tested	Not Tested	Not Tested	No
TP-91	036	796.00	1692.00	14.00	No
TP-92	0-090	Not Tested	Not Tested	Not Tested	No
TP-93	0-092	Not Tested	Not Tested	Not Tested	No
TP-93	030	Not Tested	Not Tested	Not Tested	No
TP-94	0-090	Not Tested	Not Tested	Not Tested	No
TP-94	024	743.00	218.00	2178.00	No
TP-95	0-098	Not Tested	Not Tested	Not Tested	No
TP-95	010	727.00	1313.00	303.00	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
TP-107	022	290.00	1500.00	Not Tested	No
TP-107	034	639.00	567.00	Not Tested	No
TP-108	0-114	Not Tested	Not Tested	Not Tested	No
TP-108	024	120.00	550.00	Not Tested	No
TP-109	0-060	Not Tested	Not Tested	Not Tested	No
TP-110	0-084	Not Tested	Not Tested	Not Tested	No
TP-110	012	500.00	810.00	28.00	No
TP-110	Unknown	5.00	110.00	18.00	No
TP-111	0-060	Not Tested	Not Tested	Not Tested	No
TP-111	000	Not Tested	Not Tested	10.00	No
TP-112	0-078	Not Tested	Not Tested	Not Tested	No
TP-112	Unknown	75.00	480.00	2300.00	No
TP-112	Unknown	48.00	412.00	347.00	No
TP-113	0-060	Not Tested	Not Tested	Not Tested	No
TP-113	018	14141.00	8788.00	4343.00	No
TP-113	054	17000.00	160.00	7.00	No
TP-114	0-090	Not Tested	Not Tested	Not Tested	No
TP-114	012	12.00	55.00	7.00	No
TP-114	018	2400.00	4200.00	21.00	No
TP-115	0-096	Not Tested	Not Tested	Not Tested	No
TP-116	0-102	Not Tested	Not Tested	Not Tested	No
TP-122	0-114	Not Tested	Not Tested	Not Tested	No
TP-123	0-090	Not Tested	Not Tested	Not Tested	No
TP-124	0-096	Not Tested	Not Tested	Not Tested	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
TP-144	0-066	Not Tested	Not Tested	Not Tested	No
TP-144	066-114	Not Tested	Not Tested	Not Tested	Yes
TP-145	0-078	Not Tested	Not Tested	Not Tested	No
TP-145	078-114	Not Tested	Not Tested	Not Tested	Yes
TP-146	0-108	Not Tested	Not Tested	Not Tested	No
TP-147	0-078	Not Tested	Not Tested	Not Tested	No
TP-148	0-104	Not Tested	Not Tested	Not Tested	No
TP-149	0-114	Not Tested	Not Tested	Not Tested	No
TP-150	0-101	Not Tested	Not Tested	Not Tested	No
TP-151	0-076	Not Tested	Not Tested	Not Tested	No
TP-152	0-102	Not Tested	Not Tested	Not Tested	No
TP-153	0-102	Not Tested	Not Tested	Not Tested	No
TP-154	0-102	Not Tested	Not Tested	Not Tested	No
TP-155	0-090	Not Tested	Not Tested	Not Tested	No
TP-156	0-090	Not Tested	Not Tested	Not Tested	No
TP-158	0-090	Not Tested	Not Tested	Not Tested	No
TP-159	0-030	Not Tested	Not Tested	Not Tested	No
TP-160	0-090	Not Tested	Not Tested	Not Tested	No
TP-161	0-114	Not Tested	Not Tested	Not Tested	No
TP-162	0-084	Not Tested	Not Tested	Not Tested	No
TP-165	0-078	Not Tested	Not Tested	Not Tested	No
TP-166	0-006	Not Tested	Not Tested	Not Tested	No
TP-167	0-060	Not Tested	Not Tested	Not Tested	No
TP-167	060-096	Not Tested	Not Tested	Not Tested	Yes

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
TP-178	0-012	Not Tested	Not Tested	Not Tested	No
TP-178	012-120	Not Tested	Not Tested	Not Tested	Yes
TP-179	0-012	Not Tested	Not Tested	Not Tested	No
TP-179	012-118	Not Tested	Not Tested	Not Tested	Yes
TP-180	0-096	Not Tested	Not Tested	Not Tested	No
TP-180	096-120	Not Tested	Not Tested	Not Tested	Yes
TP-181	0-120	Not Tested	Not Tested	Not Tested	No
TP-182	0-018	Not Tested	Not Tested	Not Tested	No
TP-182	018-096	Not Tested	Not Tested	Not Tested	Yes
TP-183	0-012	Not Tested	Not Tested	Not Tested	No
TP-183	012-072	Not Tested	Not Tested	Not Tested	Yes
TP-183	072-084	Not Tested	Not Tested	Not Tested	No
TP-184	0-060	Not Tested	Not Tested	Not Tested	No
TP-185	0-024	Not Tested	Not Tested	Not Tested	No
TP-185	024-102	Not Tested	Not Tested	Not Tested	Yes
TP-186	0-060	Not Tested	Not Tested	Not Tested	No
TP-186	060-108	Not Tested	Not Tested	Not Tested	Yes
TP-186	108-114	Not Tested	Not Tested	Not Tested	No
TP-187	0-030	Not Tested	Not Tested	Not Tested	No
TP-187	030-036	Not Tested	Not Tested	Not Tested	Yes
TP-187	036-096	Not Tested	Not Tested	Not Tested	No
TP-188	0-096	Not Tested	Not Tested	Not Tested	No
TP-189	0-090	Not Tested	Not Tested	Not Tested	No
TP-190	0-072	Not Tested	Not Tested	Not Tested	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
TP-215	0-048	Not Tested	Not Tested	Not Tested	No
TP-216	0-030	Not Tested	Not Tested	Not Tested	No
TP-217	0-048	Not Tested	Not Tested	Not Tested	No
TP-218	0-078	Not Tested	Not Tested	Not Tested	No
TP-218	078-108	Not Tested	Not Tested	Not Tested	Yes
TP-219	0-108	Not Tested	Not Tested	Not Tested	No
TP-220	0-090	Not Tested	Not Tested	Not Tested	No
TP-221	0-084	Not Tested	Not Tested	Not Tested	No
TP-222	0-030	Not Tested	Not Tested	Not Tested	No
TP-223	0-024	Not Tested	Not Tested	Not Tested	No
TP-223	024-084	Not Tested	Not Tested	Not Tested	Yes
TP-223	084-108	Not Tested	Not Tested	Not Tested	No
TP-227	0-030	Not Tested	Not Tested	Not Tested	No
TP-227	030-036	Not Tested	Not Tested	Not Tested	Yes
TP-227	036-096	Not Tested	Not Tested	Not Tested	No
TP-228	0-066	Not Tested	Not Tested	Not Tested	No
TP-229	0-046	Not Tested	Not Tested	Not Tested	No
TP-230	0-036	Not Tested	Not Tested	Not Tested	No
TP-231	0-024	Not Tested	Not Tested	Not Tested	No
TP-231	024-036	Not Tested	Not Tested	Not Tested	Yes
TP-231	036-048	Not Tested	Not Tested	Not Tested	No
TP-232	0-042	Not Tested	Not Tested	Not Tested	No
TP-232	042-120	Not Tested	Not Tested	Not Tested	Yes
TP-233	0-048	Not Tested	Not Tested	Not Tested	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
TP-254	0-108	Not Tested	Not Tested	Not Tested	No
TP-255	0-102	Not Tested	Not Tested	Not Tested	No
TP-256	0-096	Not Tested	Not Tested	Not Tested	No
TP-257	0-054	Not Tested	Not Tested	Not Tested	No
TP-258	0-060	Not Tested	Not Tested	Not Tested	No
TP-259	0-066	Not Tested	Not Tested	Not Tested	No
TP-260	0-060	Not Tested	Not Tested	Not Tested	No
TP-261	0-054	Not Tested	Not Tested	Not Tested	No
TP-262	0-054	Not Tested	Not Tested	Not Tested	No
TP-263	0-078	Not Tested	Not Tested	Not Tested	No
TP-264	0-078	Not Tested	Not Tested	Not Tested	No
TP-265	0-084	Not Tested	Not Tested	Not Tested	No
TP-266	0-006	Not Tested	Not Tested	Not Tested	No
TP-266	006-054	Not Tested	Not Tested	Not Tested	Yes
TP-266	054-072	Not Tested	Not Tested	Not Tested	No
TP-267	0-018	Not Tested	Not Tested	Not Tested	No
TP-267	018-090	Not Tested	Not Tested	Not Tested	Yes
TP-268	0-018	Not Tested	Not Tested	Not Tested	No
TP-268	018-102	Not Tested	Not Tested	Not Tested	Yes
TP-269	0-024	Not Tested	Not Tested	Not Tested	No
TP-269	024-078	Not Tested	Not Tested	Not Tested	Yes
TP-270	0-024	Not Tested	Not Tested	Not Tested	No
TP-270	024-078	Not Tested	Not Tested	Not Tested	Yes
TP-271	0-012	Not Tested	Not Tested	Not Tested	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
TP-286	0-036	Not Tested	Not Tested	Not Tested	No
TP-286	036-090	Not Tested	Not Tested	Not Tested	Yes
TP-287	0-108	Not Tested	Not Tested	Not Tested	No
TP-288	0-096	Not Tested	Not Tested	Not Tested	No
TP-289	0-094	Not Tested	Not Tested	Not Tested	No
TP-290	0-096	Not Tested	Not Tested	Not Tested	No
TP-291	0-084	Not Tested	Not Tested	Not Tested	No
TP-292	0-046	Not Tested	Not Tested	Not Tested	No
TP-293	0-042	Not Tested	Not Tested	Not Tested	No
TP-294	0-084	Not Tested	Not Tested	Not Tested	No
TP-295	0-090	Not Tested	Not Tested	Not Tested	No
TP-296	0-090	Not Tested	Not Tested	Not Tested	No
TP-297	0-024	Not Tested	Not Tested	Not Tested	No
TP-297	024-072	Not Tested	Not Tested	Not Tested	Yes
TP-297	072-096	Not Tested	Not Tested	Not Tested	No
TP-298	0-114	Not Tested	Not Tested	Not Tested	No
TP-299	0-102	Not Tested	Not Tested	Not Tested	No
TP-300	0-102	Not Tested	Not Tested	Not Tested	No
TP-301	0-084	Not Tested	Not Tested	Not Tested	No
TP-302	0-060	Not Tested	Not Tested	Not Tested	No
TP-303	0-096	Not Tested	Not Tested	Not Tested	No
TP-304	0-114	Not Tested	Not Tested	Not Tested	No
TP-305	0-102	Not Tested	Not Tested	Not Tested	No
TP-306	0-102	Not Tested	Not Tested	Not Tested	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
TP-325	042-102	Not Tested	Not Tested	Not Tested	Yes
TP-326	0-042	Not Tested	Not Tested	Not Tested	No
TP-326	042-096	Not Tested	Not Tested	Not Tested	Yes
TP-327	0-042	Not Tested	Not Tested	Not Tested	No
TP-327	042-114	Not Tested	Not Tested	Not Tested	Yes
TP-328	0-048	Not Tested	Not Tested	Not Tested	No
TP-328	048-090	Not Tested	Not Tested	Not Tested	Yes
TP-329	0-042	Not Tested	Not Tested	Not Tested	No
TP-329	042-096	Not Tested	Not Tested	Not Tested	Yes
TP-330	0-090	Not Tested	Not Tested	Not Tested	No
TP-331	0-090	Not Tested	Not Tested	Not Tested	No
TP-332	0-102	Not Tested	Not Tested	Not Tested	No
TP-333	0-096	Not Tested	Not Tested	Not Tested	No
TP-334	0-072	Not Tested	Not Tested	Not Tested	No
TP-334	072-096	Not Tested	Not Tested	Not Tested	Yes
TP-335	0-096	Not Tested	Not Tested	Not Tested	No
TP-336	0-096	Not Tested	Not Tested	Not Tested	No
TP-337	0-072	Not Tested	Not Tested	Not Tested	No
TP-338	055	Not Detected	13.00	Not Detected	No
TP-339	0-090	Not Tested	Not Tested	Not Tested	No
TP-340	0-078	Not Tested	Not Tested	Not Tested	No
TP-340	062	Not Detected	Not Detected	6.00	No
TP-341	0-090	Not Tested	Not Tested	Not Tested	No
TP-342	0-078	Not Tested	Not Tested	Not Tested	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
TP-365	0-084	Not Tested	Not Tested	Not Tested	No
TP-366	0-024	Not Tested	Not Tested	Not Tested	No
TP-367	0-084	Not Tested	Not Tested	Not Tested	No
TP-369	060	Not Detected	Not Detected	6.20	No
TP-370	0-060	Not Tested	Not Tested	Not Tested	No
TP-371	0-036	Not Tested	Not Tested	Not Tested	No
TP-372	0-060	Not Tested	Not Tested	Not Tested	No
TP-373	0-060	Not Tested	Not Tested	Not Tested	No
TP-374	066	4.00	Not Detected	5.50	No
TP-375	0-060	Not Tested	Not Tested	Not Tested	No
TP-376	0-084	Not Tested	Not Tested	Not Tested	No
TP-377	0-024	Not Tested	Not Tested	Not Tested	No
TP-377	024-030	Not Tested	Not Tested	Not Tested	Yes
TP-377	030-048	Not Tested	Not Tested	Not Tested	No
TP-378	0-072	Not Tested	Not Tested	Not Tested	No
TP-379	0-042	Not Tested	Not Tested	Not Tested	No
TP-380	0-046	Not Tested	Not Tested	Not Tested	No
TP-381	0-066	Not Tested	Not Tested	Not Tested	No
TP-381	056	5.00	Not Detected	10.30	No
TP-382	0-060	Not Tested	Not Tested	Not Tested	No
TP-383	0-054	Not Tested	Not Tested	Not Tested	No
TP-383	040	7.00	Not Detected	21.60	No
TP-386	0-054	Not Tested	Not Tested	Not Tested	No
TP-386	049	Not Detected	Not Detected	16.70	No

SUMMARY OF SOIL SAMPLE ANALYSES

Remedial Investigation - Borings and Test Pits

Borehole Number	Sample Depth (Inches)	Arsenic (ppm)	Lead (ppm)	Chromium (ppm)	Was Hide Residue Detected?
TP-420	024-096	Not Tested	Not Tested	Not Tested	Yes
TP-421	0-024	Not Tested	Not Tested	Not Tested	No
TP-421	024-096	Not Tested	Not Tested	Not Tested	Yes
TP-422	0-024	Not Tested	Not Tested	Not Tested	No
TP-422	024-096	Not Tested	Not Tested	Not Tested	Yes
TP-437	0-048	Not Tested	Not Tested	Not Tested	No
TP-438	0-072	Not Tested	Not Tested	Not Tested	No
TP-439	0-072	Not Tested	Not Tested	Not Tested	No
TP-440	0-048	Not Tested	Not Tested	Not Tested	No
TP-441	0-048	Not Tested	Not Tested	Not Tested	No
TP-442	0-048	Not Tested	Not Tested	Not Tested	No
TP-443	0-120	Not Tested	Not Tested	Not Tested	No
TP-444	0-084	Not Tested	Not Tested	Not Tested	No
TP-445	0-018	Not Tested	Not Tested	Not Tested	No
TP-445	018-024	Not Tested	Not Tested	Not Tested	Yes
TP-445	024-132	Not Tested	Not Tested	Not Tested	No
TP-446	0-012	Not Tested	Not Tested	Not Tested	No
TP-446	012-018	Not Tested	Not Tested	Not Tested	Yes
TP-446	018-084	Not Tested	Not Tested	Not Tested	No
TP-447	0-084	Not Tested	Not Tested	Not Tested	No
TP-448	0-060	Not Tested	Not Tested	Not Tested	No
TP-450	0-012	Not Tested	Not Tested	Not Tested	No
TP-450	012-126	Not Tested	Not Tested	Not Tested	Yes
TP-451	0-084	Not Tested	Not Tested	Not Tested	No