EMPIRE GEO SERVICES, INC.
A SUBSIDIARY OF SJB SERVICES, INC.

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SOIL / FILL CHARACTERIZATION REPORT
PROPOSED UTILITY EXCAVATION AREAS
CERTAIN TEED MANUFACTURING PLANT & OFFICES
HANNA FURNACE SITE / UNION SHIP CANAL
CITY OF BUFFALO, NEW YORK

PREPARED FOR:

THE KROG COMPANY
4 CENTRE DRIVE
ORCHARD PARK, NEW YORK 14127

PREPARED BY:

EMPIRE GEO-SERVICES, INC.
HAMBURG, NEW YORK

PROJECT NO. BEV-04-005

TABLE OF CONTENTS

1.0 INTRODUCTION

1.1 GENERAL

This report presents the results of a Soil/Fill Characterization Program completed by Empire Geo-Services, Inc. (Empire) for the Certain Teed Manufacturing Plant and Offices being constructed at the Hanna Furnace/Union Ship Canal (Former Railroad Yard-Subparcel 1) property located in Buffalo, New York. This work was completed in accordance with Empire's proposal to The Krog Company, dated April 12, 2004. The approximate location of the project site is shown on Figure No. 1.

The Krog Company retained Empire to complete a Soil/Fill Characterization Program for the subject site to evaluate the on-site soil/fill materials within the limits of the utility excavation areas of the new building site. The Soil/Fill Characterization Program completed at the site, consisted of one hundred (100) direct push borings and laboratory analyses of three (3) composite samples and three (3) grab samples. SJB Services, Inc. (SJB), Empire's affiliated subsurface exploration drilling company, completed the direct push borings for the Soil/Fill Characterization Program.

1.2 PROJECT BACKGROUND

Previous investigations have been conducted on the Hanna Furnace Site and have indicated potential environmental concerns regarding polyaromatic hydrocarbons (PAHs), inorganic analytes, and elevated pH within the soils/fills across the site. In February 2002, Malcom Pirnie, Inc. prepared a Remedial Action Work Plan (RAWP) for a voluntary cleanup of Subparcel 1 to allow future development of the site for commercial and industrial use. As part of the RAWP, a Soil/Fill Management Plan (S/FMP) was prepared.

The S/FMP indicates that "all excavated and stockpiled soil/fill with evidence of contamination will be sampled and classified for reuse or disposal." Soil/fill with no evidence of contamination must also be characterized prior to its "use as subgrade or excavation subgrade backfill material at the site." It was expected that materials to be excavated might contain concentrations of contaminants similar to levels found in the previous investigations. Since it is possible that unsuspected contamination or localized "hot spots" may be encountered during redevelopment of the site, Site Specific Action Levels (SSALs) were established for the soil/fill at the site.

To minimize delays to the construction project, once it commenced, Empire characterized the soil/fill materials through 106 test borings in December 2003 in the areas of the planned foundation excavations. The Soil/Fill Characterization report was prepared for The Krog Co. in February 2004.

1.3 SITE DESCRIPTION

The Former Railroad Yard Area, located southeast of the Union Ship Canal, is composed of about 43 acres, of which its eastern portion is being redeveloped for the new Certain Teed Manufacturing Plant and Offices. The site has been extensively "filled" with wastes from former steel manufacturing processes including deposits of ash, brick, cinders, foundry sand, and lime.

At the time of our study, the site was under construction for the new facility.

2.0 DIRECT PUSH SAMPLING

This subsurface investigation program was developed in attempt to characterize the soil/fill materials in the areas of the planned utility excavations. It does not obviate the need for on-site monitoring of soil/fill excavations by an experienced environmental professional during excavation. The program consisted of one hundred (100) direct push borings advanced between April 13th and April 18th, 2004 by SJB. The direct push borings are designated S-1 through S-20, FP-1 through FP-51, ST-1 through ST-30, and G-1 through G-3, and their locations are shown on Figure No. 2.

The direct push borehole locations were established in the field, by Empire, using tape measurements and referencing their locations to existing site features. The locations were determined by The Krog Corp. based on the quantity of soil to be excavated for the utility installation.

The direct push boreholes were advanced to depths ranging from 3.0 feet to 8.0 feet below the existing ground surface. The direct push borings were made using a SIMKO 2400 SK-1 Direct Push Sampler and applying impacts/vibration pressure techniques. Sampling was performed continuous for the full depth of each borehole. The direct push sampling was completed in general accordance with *ASTM D6282 – Standard Guide for Direct Push Soil Sampling for Environmental Site Characterizations.*

An environmental specialist prepared the direct push boring logs based on visual observation of the recovered soil samples. The soil samples were described based on a visual estimation of the grain size distribution, along with characteristics such as color, moisture, unusual odors, etc. The direct push boring logs are presented in Appendix A.

2.1 ENVIRONMENTAL SCREENING PROCEDURE

A MSA Passport II Photoionization Detector (PID) was used to screen each sample collected. Representative samples were obtained from each sample tube and placed into a labeled wide-mouth glass vial. Each vial was sealed with aluminum foil and a screw top. At a temperature near 70 degrees Fahrenheit, each sample was screened for the presence of organic vapors using a properly calibrated PID, inserting its probe through the aluminum foil seal into the head space of the sample jar.

2.2 COMPOSITE SAMPLING PROCEDURE

Equal portions of soil/fill from five individual direct push samples were transferred to a precleaned stainless steel mixing bowl. The soils were thoroughly mixed using a precleaned stainless steel scoop and transferred to precleaned sample jars provided by PSC Analytical Services, Inc. All sampling and mixing equipment (mixing bowl and scoop) were decontaminated following each composite sample produced.

Decontamination areas including wash and rinse buckets for the disposal of expendable materials, were provided for the decontamination of drilling and field sampling equipment, and workers. Drilling equipment (sampler and rods) were steam-cleaned with a high pressure - high temperature washer prior to the start of work to prevent cross contamination between borings (every 2,000 cubic yards, between representative sampling areas). The drilling and sampling equipment were cleaned at the completion of the work to prevent any contamination from leaving the site.

Disposable protective clothing such as Tyvek® suits, nitrile gloves, and poly plastic from the decontamination area were disposed of as solid waste.

Prior to collecting the composite and grab soil samples the following steps were taken in the field:

Cleaning of Sampling Equipment - All discrete sampling devices and compositing equipment (mixing bowls and spoons) were cleaned as followed:

- Scrubbed/Brushed with tap water and non-phosphate detergent;
- Rinsed with tap water;
- Rinsed with 1% HNO3, ultrapure;
- Rinsed with tap water;
- Rinsed with methanol;
- Rinsed with acetone;
- Rinsed with methanol;
- Rinsed with deionized water;
- Air dried; and
- Wrapped in aluminum foil.

Only new direct push sample tube liners and new pre-cleaned sample containers and lids were used for sample collection and preservation.

3.0 SUBSURFACE CONDITIONS

The general stratigraphy encountered in the direct push borings consists of variable fill materials underlain predominantly by silty clay sediments. The fill soils encountered are composed of slag fragments, ash, bricks, cinders, coal, foundry sands, crushed stone fragments, wood pieces, metal fragments, and gravelly sand and silt deposits intermixed with traces of organics. Distinct layered deposits of lime were noted in some of the borings.

Free standing water was noted in many of the borings at the completion of sampling. The water in these borings may represent perched water zones with in the relatively permeable fill soils present on the site. It is possible that water may not have had sufficient time to accumulate and stabilize in the remaining borings within the time period that had elapsed following the completion of direct push sampling.

We note that groundwater conditions may fluctuate with changes in soil conditions, along with precipitation and seasonal conditions. The soil stratigraphy encountered and the groundwater conditions observed are presented on the direct push boring logs in Appendix A.

4.0 FIELD AND LABORATORY TESTING

4.1 FIELD TESTING AND RESULTS

Organic vapors were measured on each boring sample collected using a photoionization detector (PID). The PID used to measure total organic vapors in the field was a *MSA Passport PID II Organic Vapor Monitor* with a 10.6 eV light source.

The organic vapor measurements were taken on samples in the field (at ~1'intervals from the liner, to be screened and preserved) and on the headspace area of the soil sample jars following direct push sampling, in the laboratory. No PID measurements above ambient background levels (0 ppm) were detected.

4.2 LABORATORY TESTING AND RESULTS

Three (3) representative composite soil samples and three (3) grab samples were collected for analytical testing. Representative composite samples were selected from 5 locations (every 2000 cubic yards of proposed excavated soil/fill material---total 5300+/- cubic yards of soil/fill material to be removed for foundation excavations). In addition to the composite samples, discrete grab samples were taken for volatile organic compound analyses. Since there was no evidence of petroleum contamination in any of the samples and PID measurements were not above detectable limits, the grab samples were selected based upon the composition of the soils encountered, to allow for the most representative sample of the materials encountered to be sent to the laboratory for VOC analysis (for every 2,000 cubic yards of proposed excavated soil/fill).

The samples were prepared and placed into precleaned 8 oz. glass vials with teflon caps. The glass vials were labeled with the date, time, and location of the project, and placed in an ice cooler at approximately 4-degrees Celsius for transport via courier to PSC Analytical Services (PSC), a New York State Department of Health (NYSDOH) Health Laboratory Approval Program (ELAP)-certified laboratory located at 5555 North Service Road in Burlington, Ontario. Included with the samples was a chain-of custody record. Samples were analyzed using the current NYSDEC Analytical Services Protocols (ASP).

The composite samples were analyzed for the following parameters:

- Target Compound List (TCL) semi-volatile organic compounds (SVOCs);
- Pesticides;
- Polychlorinated biphenyls (PCBs);
- pH;
- Metals: arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver plus cyanide;

The grab samples were analyzed for TCL volatile organic compounds (VOCs). All samples were requested to be analyzed using current NYSDEC Analytical Services Protocols (ASP).

PSC's Laboratory Analytical Report is included in Appendix B. Tables 1 through Table No. 6 summarize the analytical results of the compounds detected in each sample submitted for analysis, and compare those data to the S/FMP SSALs.

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TABLE NO. 1-SEMI-VOLATILE ORGANIC COMPOUNDS LABORATORY ANALYTICAL SUMMARY

PARAMETER	CONCENTRATION DETECTED (PPB)	SITE SPECIFIC ACTION LEVEL (PPB)
COMPOSITE SAMPLE #4 (PRODUCED FROM DIRECT PUSH SAMPLES FP17, FP24, and FP31)		
Naphthalene	2800	50,000
Phenanthrene	800	50,000
Fluoranthene	670	50,000
Pyrene	620	50,000
Benzo (a) anthracene	390	50,000
Chrysene	460	50,000
Bis (2-ethylhexyl)phthalate	4700	50,000
Benzo (b) fluoranthene	380	50,000
Benzo (k) fluoranthene	350	50,000
Benzo (a) pyrene	370	50,000
Indeno (1,2,3-cd) pyrene	340	50,000
2-Methylnaphthalene	3200	
Benzo (ghi) perylene	320	50,000
TOTAL SVOCs	**15,400**	**500,000**
COMPOSITE SAMPLE #5 (PRODUCED FROM DIRECT PUSH SAMPLES FP36, FP46, and ST1)		
Naphthalene	1200	50,000
Phenanthrene	1100	50,000
Fluoranthene	780	50,000
Pyrene	700	50,000
Benzo (a) anthracene	450	50,000
Chrysene	800	50,000
Bis (2-ethylhexyl)phthalate	27000	50,000
Benzo (b) fluoranthene	580	50,000
Benzo (k) fluoranthene	430	50,000
Benzo (a) pyrene	340	50,000
Indeno (1,2,3-cd) pyrene	370	50,000
Benzo (ghi) perylene	360	50,000
2-Methylnaphthalene	1400	50,000
TOTAL SVOCs	**35,510**	**500,000**
COMPOSITE SAMPLE #6 (PRODUCED FROM DIRECT PUSH SAMPLES FP8, ST16, and ST29)		
Naphthalene	290	50,000
Phenanthrene	150	50,000
Fluoranthene	100	50,000
Chrysene	150	50,000
Benzo (b) fluoranthene	100	50,000
Bis(2-ethylhexyl)phthalate	2300	50,000
TOTAL SVOCs	**2,350**	**500,000**

EMPIRE GEO SERVICES, INC. A SUBSIDIARY OF SJB SERVICES, INC.	**TABLE NO. 2 -VOLATILE ORGANIC COMPOUNDS EPA METHOD 8260B LABORATORY ANALYTICAL SUMMARY-VOCs DETECTED**	
PARAMETER	**CONCENTRATION DETECTED (PPB)**	**SITE SPECIFIC ACTION LEVEL (PPB)**
GRAB SAMPLE #4 (PRODUCED FROM DIRECT PUSH SAMPLES FP24, 2'-3')		
TOTAL VOCs	**28**	**10,000**
GRAB SAMPLE #5 (PRODUCED FROM DIRECT PUSH SAMPLES ST1, 4'-5')		
TOTAL VOCs	**39**	**10,000**
GRAB SAMPLE #6 (PRODUCED FROM DIRECT PUSH SAMPLES FP8, 3'-4')		
TOTAL VOCs	**6**	**10,000**

EMPIRE GEO SERVICES, INC. A SUBSIDIARY OF SJB SERVICES, INC.	**TABLE NO. 3-PCBs LABORATORY ANALYTICAL SUMMARY-PCBs DETECTED**	
PARAMETER	**CONCENTRATION DETECTED (PPB)**	**SITE SPECIFIC ACTION LEVEL (PPB)**
COMPOSITE SAMPLE #4 (PRODUCED FROM DIRECT PUSH SAMPLES FP17, FP24, and FP31)		
TOTAL PCBS	**90**	**1,000 (0'-1') / 10,000 (below 1')**
COMPOSITE SAMPLE #5 (PRODUCED FROM DIRECT PUSH SAMPLES FP36, FP46, and ST1)		
TOTAL PCBS	**110**	**1,000 (0'-1') / 10,000 (below 1')**
COMPOSITE SAMPLE #6 (PRODUCED FROM DIRECT PUSH SAMPLES FP8, ST16, and ST29)		
TOTAL PCBs	**--**	**1,000 (0'-1') / 10,000 (below 1')**

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TABLE NO. 4-METALS
LABORATORY ANALYTICAL SUMMARY-METALS DETECTED

PARAMETER	NYSDEC TAGM VALUES* (PPM)	CONCENTRATION DETECTED (PPM)	SITE SPECIFIC ACTION LEVEL (PPM)
COMPOSITE SAMPLE # 4 (PRODUCED FROM DIRECT PUSH SAMPLES FP17, FP24, and FP31)			
Arsenic	7.5 or Site Background	**16**	**50**
Barium	300 or Site Background	**210**	**500**
Cadmium	10	**3.3**	**20**
Chromium	50	**22**	**200**
Lead	1000	**82**	**1000**
Mercury	0.1	**.34**	**1**
Selenium	2 or Site Background	**-**	**50**
Silver	Site Background	**-**	**1000**
Cyanide	1,600	**.23**	**50**
COMPOSITE SAMPLE # 5 (PRODUCED FROM DIRECT PUSH SAMPLES FP36, FP46, and ST1)			
Arsenic	7.5 or Site Background	**19**	**50**
Barium	300 or Site Background	**160**	**500**
Cadmium	10	**5.5**	**20**
Chromium	50	**34**	**200**
Lead	1000	**160**	**1000**
Mercury	0.1	**.14**	**1**
Selenium	2 or Site Background	**-**	**50**
Silver	Site Background	**-**	**1000**
Cyanide	1,600	**.22**	**50**
COMPOSITE SAMPLE # 6 (PRODUCED FROM DIRECT PUSH SAMPLES FP8, ST16, and ST29)			
Arsenic	7.5 or Site Background	**17**	**50**
Barium	300 or Site Background	**250**	**500**
Cadmium	10	**1.7**	**20**
Chromium	50	**25**	**200**
Lead	1000	**49**	**1000**
Mercury	0.1	**.10**	**1**
Selenium	2 or Site Background	**-**	**50**
Silver	Site Background	**-**	**1000**
Cyanide	1,600	**-**	**50**

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TABLE NO. 5
LABORATORY ANALYTICAL SUMMARY-PESTICIDES

PARAMETER	CONCENTRATION DETECTED (PPB)	SITE SPECIFIC ACTION LEVEL (PPB)
COMPOSITE SAMPLE # 4 (PRODUCED FROM DIRECT PUSH SAMPLES FP17, FP24, and FP31)		
Total Pesticides	**BDL**	**10,000**
COMPOSITE SAMPLE # 5 (PRODUCED FROM DIRECT PUSH SAMPLES FP36, FP46, and ST1)		
Total Pesticides	**BDL**	**10,000**
COMPOSITE SAMPLE # 6 (PRODUCED FROM DIRECT PUSH SAMPLES FP8, ST16, and ST29)		
Total Pesticides	**BDL**	**10,000**

BDL=Below Detection Limit of Analytical Methodology Used

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TABLE NO. 6
LABORATORY ANALYTICAL SUMMARY-pH

PARAMETER	CONCENTRATION DETECTED (PPM)	SITE SPECIFIC ACTION LEVEL
COMPOSITE SAMPLE # 4 (PRODUCED FROM DIRECT PUSH SAMPLES FP17, FP24, and FP31)		
pH	**10.69**	**9.0-12.5*, >12.5****
COMPOSITE SAMPLE # 5 (PRODUCED FROM DIRECT PUSH SAMPLES FP36, FP46, and ST1)		
pH	**9.89**	**9.0-12.5*, >12.5****
COMPOSITE SAMPLE # 6 (PRODUCED FROM DIRECT PUSH SAMPLES FP8, ST16, and ST29)		
pH	**11.41**	**9.0-12.5*, >12.5****

NOTE:

It should be expected that the areas in which lime deposits were encountered, the pH of the soil may exceed the results of the composite samples submitted.

As per Section 2.1 of Malcom Pirnie's Remedial Action Work Plan:

* Any soil/fill with a pH greater than 9.0 but less than 12.5 may be reused on-site but only to fill in areas below grade (as per Section 2.1 of Malcom Pirnie's Remedial Action Work Plan

** Any soil/fill with a pH higher than 12.5 is considered hazardous and therefore must be properly disposed of off-site.

5.0 DATA USABILITY SUMMARY REPORT

As required in the S/FMP, data packages were generated by the laboratory (PSC Analytical Services) for the analysis of the three composite samples and grab samples (collected between April 14th and April 16th, 2004) submitted. The data packages were sent to Data Validation Services (DVS), 120 Cobble Creek Road, P.O. Box 208, North Creek, New York 12853. A Data Usability Summary Report (DUSR) was generated by DVS and is included in Appendix C.

6.0 FINDINGS AND CONCLUSIONS

Comparison of the analytical results of this Soil/Fill Characterization Program to the SSALs of the Soil/Fill Management Plan prepared by Malcom Pirnie, Inc., indicates that the soil/fill materials analyzed are generally within the limits of the site specific action levels designated for this project, with the exception of pH.

The pH levels encountered in each of the composite samples (C-4 through C-6) exceeded 9.0, but were below 12.5. As such these soils may be reused on-site, but only as fill material below grade and may not be used as fill for utility trenches or for berm construction, as per Malcom Pirnie's Soil/Fill Management Plan. Further field-testing during construction excavation will be needed to confirm the pH of the on-site fills and to determine appropriate reuse of these materials.

This report is not an environmental evaluation of the entire site. The test results represent only those locations and depths investigated. The composite samples were produced only for a general screening of the contaminated soils and should not be used solely for determining the concentration of the contaminants.

This report has been prepared for the exclusive use of The Krog Company and their designated agents for the specific application to the subject property in accordance with generally accepted environmental practice. Should you have any questions or if we can be of further assistance, please contact our office.

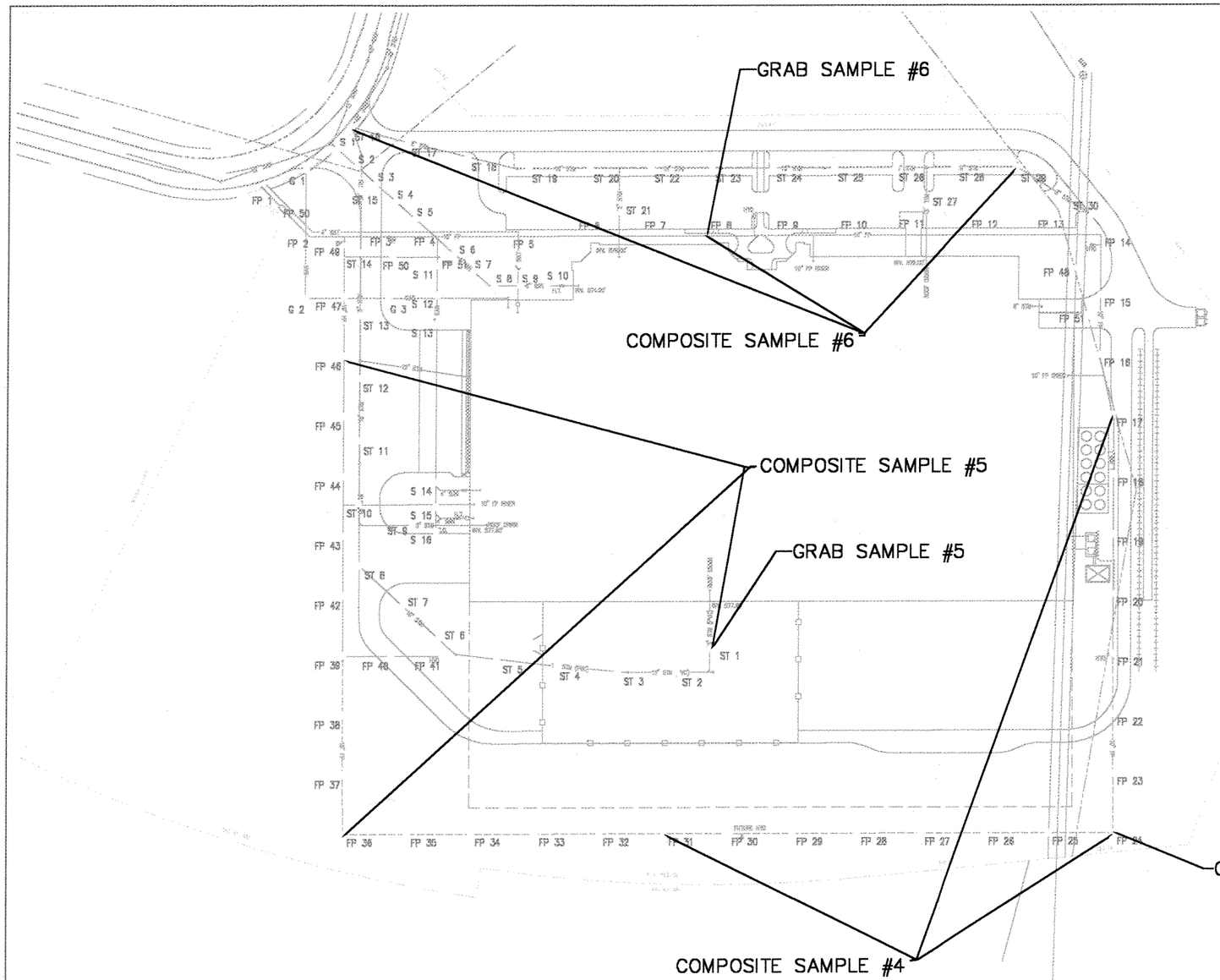
Respectfully Submitted,
EMPIRE GEO SERVICES INC.

Charles B. Guzzetta, CEI
Project Manager
Environmental Specialist

G.R.Flick, CPG
Project Report Reviewer
Geologist

FIGURES

Figure 1-Site Location Map
Figure 2-Subsurface Exploration Plan



POINTS	DEPTH
SANITARY	
S 1	8'-6"
S 2	
S 3	
S 4	
S 5	
S 6	
S 7	
S 8	
S 9	
S 10	
S 11	
S 12	
S 13	
S 14	
S 15	
S 16	
FIRE PROTECTION	
FP 1	5'-0"
FP 2	
FP 3	
FP 4	
FP 5	
FP 6	
FP 7	
FP 8	
FP 9	
FP 10	
FP 11	
FP 12	
FP 13	
FP 14	
FP 15	
FP 16	
FP 17	
FP 18	
FP 19	
FP 20	
FP 21	
FP 22	
FP 23	
FP 24	
FP 25	
FP 26	
FP 27	
FP 28	
FP 29	
FP 30	
FP 31	
FP 32	
FP 33	
FP 34	
FP 35	
FP 36	
FP 37	
FP 38	
FP 39	
FP 40	
FP 41	
FP 42	
FP 43	
FP 44	
FP 45	
FP 46	
FP 47	
FP 48	
FP 49	
FP 50	
FP 51	

POINTS	DEPTH
STORM	
ST 1	5'-0"
ST 2	
ST 3	
ST 4	
ST 5	
ST 6	
ST 7	
ST 8	
ST 9	
ST 10	
ST 11	
ST 12	
ST 13	
ST 14	
ST 15	
ST 16	
ST 17	
ST 18	
ST 19	
ST 20	
ST 21	
ST 22	
ST 23	
ST 24	
ST 25	
ST 26	
ST 27	
ST 28	
ST 29	
ST 30	
GAS	
G 1	3'-0"
G 2	
G 3	

UTILITIES – TEST BORING PLAN

1" = 60'-0"

TEST BORING POINT
ST STORM SEWER
G GAS
W DOMESTIC WATER
S SANITARY SEWER
FP FIRE PROTECTION

TRUE NORTH

JOBSITE NORTH

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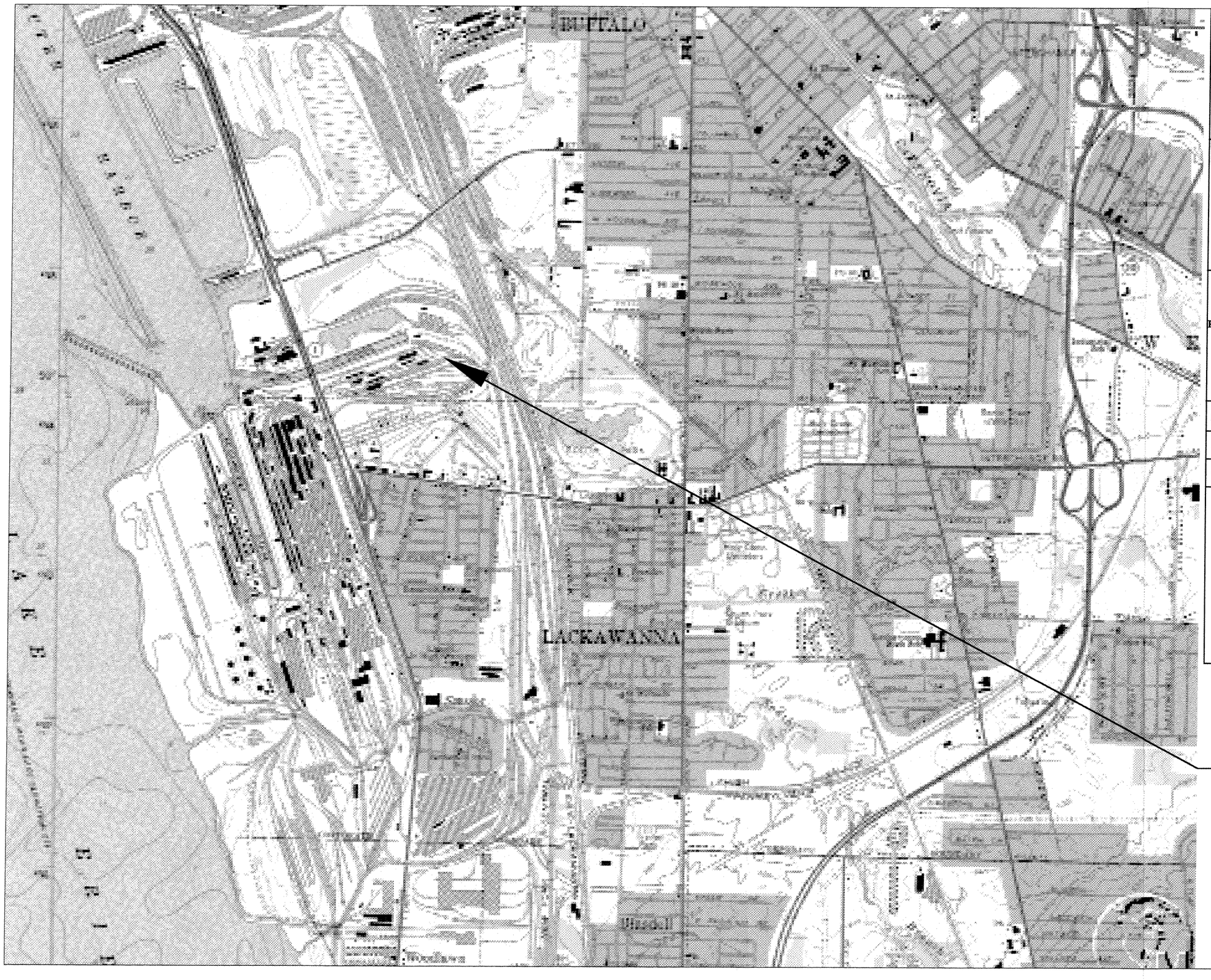
SUBSURFACE_INVESTIGATION_PLAN

CERTAIN TEED MANUFACTURING PLANT AND OFFICES
UNION SHIP CANAL/HANNA FURNACE SITE
CITY OF BUFFALO, ERIE COUNTY, NEW YORK

SCALE:	REDUCED
DATE:	8/04
DRAWN BY:	---
REV'D BY:	---
DWG. FILE:	---
PROJ. No.:	---
DRAWING No.:	2



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SITE LOCATION MAP

SOURCE
UNITED STATES GEOLOGIC SURVEY (USGS)
TOPOGRAPHIC MAP
BUFFALO, SE, NY QUADRANGLE

SOIL/FILL SAMPLING & ANALYSIS PROGRAM
PROPOSED MANUFACTURING PLANT & OFFICES
HANNA FURNACE SITE-UNION SHIP CANAL
CITY OF BUFFALO, NEW YORK

PROJ NO.: BEV-04-005	FIGURE NO.: 1
DR BY: WP	DATE: 08/23/04
CK BY: CG	SCALE: 1:80

TRUE NORTH

JOBSITE NORTH

APPENDIX A

Direct Push Logs

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-1
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG	Red-Brown CINDERS tr. roots (moist, FILL)	
2	↓	Tan-Brown f-c Sand, tr. slag, tr. lime (wet, FILL)	
4			
		Boring Complete at 5.0'	
6			Free Standing Water
			Recorded at 1.7'
8			at Boring Completion
10			MSA Passport II
			Photoionization
12			Detector (PID) used
			expressed in
14			parts-per-million (PPM)
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-2
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG ↓	Brown-Gray SLAG, tr. sand, tr. cinders (moist, FILL)	
4		Boring Complete with Sample Refusal at 3.2'	
6			No Free Standing Water Encountered at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-3
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Brown f-c SAND and Slag (moist, FILL)	
	↓	(wet)	
4			
		Boring Complete at 5.0'	
6			Free Standing Water
			Recorded at 1.5'
8			at Boring Completion
10			MSA Passport II
			Photoionization
12			Detector (PID) used
			expressed in
14			parts-per-million (PPM)
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-4
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG	Topsoil	
2		Brown CINDERS and Slag (moist, FILL)	
		Tan-Brown f-c SAND and Slag (moist, FILL)	
4	▼	Contains tr. coal, tr. brick	
	BKG		
6		Boring Complete at 5.0'	Free Standing Water Recorded at 1.5' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-5
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG	Black-Gray CINDERS and Slag (moist, FILL)	
2		Blue-Gray and Black-Gray SLAG (moist, wet)	
		Brown and Tan-Brown f-c SAND and Lime, tr. slag (moist-wet, FILL)	
4	▼		
	BKG		
6		Boring Complete at 5.0'	Free Standing Water Recorded at 2.6' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-6
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG	Topsoil	
2		Brown CINDERS, tr. slag (moist, FILL)	
		Tan-Brown f-c SAND, tr. slag (moist, FILL)	
4		(wet)	
	BKG		
6		Boring Complete at 5.0'	Free Standing Water Recorded at 2.0' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-7
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG	Black CINDERS and Gray Slag (moist, FILL)	
2		Tan-Brown f-c SAND, tr-little Slag (moist, FILL)	
		Contains tr. coal	
4			
	BKG		
6		Boring Complete at 5.0'	Free Standing Water Recorded at 4.2" at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-8
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Black-Gray SLAG and Cinders, tr. coal (moist, FILL)	
		Tan-Brown and Gray SLAG and f-c Sand (moist-wet, FILL)	
4		Blue-Gray SLAG (wet, FILL)	
	BKG		
6		Boring Complete at 5.0'	No Free Standing Water Encountered at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-9
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG	Gray Slag, tr. sand, tr. brick (moist, FILL)	
2		Gray-Black CINDERS and Slag, tr. coal (moist, FILL)	
		Tan-Brown f-c SAND and Slag, tr. lime (moist, FILL)	
4	▼	Gray-Brown Mottled Silty CLAY, tr. organics (moist)	
	BKG		
6		Boring Complete at 5.0'	No Free Standing Water Encountered at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-10
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG	Black CINDERS and Slag (moist, FILL)	
2		Tan-Brown f-c SAND and Slag (wet, FILL)	
		Contains tr. lime	
4			
	BKG		
6		Boring Complete at 5.0'	Free Standing Water Recorded at 1.5' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/14/2004
FINISHED 4/14/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-11
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Black-Brown CINDERS and Slag, tr. brick, tr. coal, tr. sand, tr. roots (moist, FILL)	
		Contains tr. Crushed Limestone (wet)	
4		Gray SLAG (wet, FILL)	
	BKG		
6		Boring Complete at 5.0'	Free Standing Water Recorded at 2.6' at Boring Completion
8			
10			
12			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/14/2004
FINISHED 4/14/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-12
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG ↓	Brown CINDERS and Slag (moist, FILL) (wet)	
4		Boring Complete with Sample Refusal at 3.0'	
6			Free Standing Water Recorded at 2.0" at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/14/2004
FINISHED 4/14/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-13
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG	Brown-Black CINDERS and Slag (moist, FILL)	
2		Gray SLAG, tr. cinders, tr. coal, tr. sand (wet, FILL)	
		Brown Silty CLAY, tr. sand, tr. organics (moist)	
4	BKG		
6		Boring Complete at 5.0'	Free Standing Water Recorded at 1.5' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/14/2004
FINISHED 4/14/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-14
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Brown-Gray f-c SAND and Slag, tr. brick (wet, FILL)	
4	↓	Gray Clayey SILT (moist, FILL)	
6	BKG	Black-Gray SLAG (wet, FILL)	
8		Boring Complete at 5.0'	Free Standing Water Recorded at 1.1' at Boring Completion
10			
12			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/14/2004
FINISHED 4/14/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-15
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Gray-Brown SLAG, tr. silt (wet, FILL)	
4	BKG		
6		Boring Complete at 5.0'	Free Standing Water Recorded at 1.0' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/14/2004
FINISHED 4/14/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-16
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG	Gray-Brown SLAG, some f-c Sand, tr. gravel (moist, FILL)	
2		Gray-Brown Clayey SILT, tr. slag (moist, FILL)	
		Brown-Gray Silty CLAY, tr. sand, tr. wood (moist)	
4			
	BKG		
6		Boring Complete at 5.0'	No Free Standing Water Encountered at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/14/2004
FINISHED 4/14/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-17
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG ↓	Brown-Gray SLAG and f-c Sand, tr. cinders (moist, FILL)	
4		(wet)	
6		Boring Complete with Refusal encountered at 4.0'	Free Standing Water Recorded at 1.2' at Boring Completion
8			
10			
12			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/14/2004
FINISHED 4/14/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-18
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG	Brown-Gray SLAG Fragments (moist, FILL)	
2		Gray SILT, some f-c Sand, tr. organics (moist, FILL)	
		Gray SLAG (moist, FILL)	
4	↓		
	BKG		
6		Boring Complete at 5.0'	Free Standing Water Recorded at 4.5' at Boring Completion
8			
10			
			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/14/2004
FINISHED 4/14/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-19
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Tan-Brown fine SAND, tr. silt (moist, FILL)	
4	↓	Brown-Black and Red-Brown CINDERS (moist, FILL)	
	BKG	Black-Gray SLAG (moist-wet, FILL)	
6		Boring Complete at 5.0'	Free Standing Water Recorded at 4.0' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/14/2004
FINISHED 4/14/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-21
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Brown Clayey SILT, tr. Sand, tr. organics (moist, FILL)	
4	▼	Tan-Brown f-c SAND and White Lime, tr. slag (moist-wet, FILL)	
6	BKG	Boring Complete at 5.0'	Free Standing Water Recorded at 4.0' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/14/2004
FINISHED 4/14/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-22
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Brown f-c SAND and Cinders, tr. slag (moist, FILL)	
4	↓	White LIME and Tan-Brown f-c Sand, tr. slag (moist, FILL)	
	BKG	Gray SLAG (moist-wet, FILL)	
6		Boring Complete at 5.0'	Free Standing Water Recorded at 2.5' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/14/2004
FINISHED 4/14/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-23
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Brown CINDERS and fine Sand, tr. slag (moist, FILL)	
4	↓	White LIME and Tan-Brown f-c Sand, tr. slag (moist-wet, FILL)	
	BKG		
6		Boring Complete at 5.0'	Free Standing Water Recorded at 3.0' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/14/2004
FINISHED 4/14/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-24
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG	Brown f-c SAND and Cinders, tr. slag (moist, FILL)	
2		White LIME and Gray Slag (moist, FILL)	
		Red-Brown CINDERS (wet, FILL)	
4		Gray-Black SLAG and Cinders (wet, FILL)	
	BKG		
6		Boring Complete at 5.0'	Free Standing Water Recorded at 1.5' at Boring Completion
8			
10			
12			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/14/2004
FINISHED 4/14/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-25
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG	TOPSOIL	
2		Red-Brown CINDERS and f-c Sand, tr. slag (moist, FILL)	
4	▼	(wet)	
	BKG	Contains numerous Slag Fragments	
6		Boring Complete at 5.0'	Free Standing Water Recorded at 3.0' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/14/2004
FINISHED 4/14/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-26
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Red-Brown CINDERS and f-c Sand, tr. slag (moist, FILL)	
4	↓	(wet)	
	BKG		
6		Boring Complete at 5.0'	Free Standing Water Recorded at 2.0' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/14/2004
FINISHED 4/14/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-27
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG ↓	Red-Brown CINDERS and f-c Sand, tr. slag (moist, FILL) (wet)	
4	BKG		
6		Boring Complete at 5.0'	Free Standing Water Recorded at 1.0' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/14/2004
FINISHED 4/14/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-28
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Brown CINDERS and f-c Sand, tr. slag (moist, FILL)	
4		(wet)	
	BKG	Gray SLAG (moist, FILL)	
6		Boring Complete at 5.0'	Free Standing Water Recorded at 1.0' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/14/2004
FINISHED 4/14/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-29
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Brown CINDERS and f-c Sand, tr. slag (moist, FILL)	
4	↓	(wet)	
	BKG		
6		Boring Complete at 5.0'	Free Standing Water Recorded at 1.5' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/14/2004
FINISHED 4/14/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-30
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG	Brown f-c SAND, little Slag, tr. gravel (moist, FILL)	
2	↓	Brown Clayey SILT, little brick, tr. slag (moist, FILL)	
		Gray-Black and Gray-Brown SLAG (moist, FILL)	
4		Boring Complete with Refusal at 3.1'	No Free Standing Water Encountered at Boring Completion
6			
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies **DRILL RIG TYPE:** SYMCO 2500

CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/14/2004
FINISHED 4/14/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-31
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Brown CINDERS and f-c Sand, numerous slag fragments (moist, FILL)	
4	↓	(moist-wet)	
6		Boring Complete with Refusal at 4.0'	No Free Standing Water Encountered at Boring Completion
8			
10			
12			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/14/2004
FINISHED 4/14/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-32
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG	Brown fine SAND, tr. silt, tr. organics (moist, FILL)	
2		Gray SLAG and f-c Sand (moist, FILL)	
4			
	BKG		
6		Boring Complete at 5.0'	Free Standing Water Recorded at 4.0' at Boring Completion
8			
10			
12			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/14/2004
FINISHED 4/14/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-33
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Brown f-c SAND and Clayey Silt, tr. brick, tr. slag (moist, FILL)	
4		Boring Complete with Refusal at 2.0'	No Free Standing Water Encountered at Boring Completion
6			
8			
10			
12			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/14/2004
FINISHED 4/14/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-33A
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Brown Silty CLAY and Clayey Silt, little f-c Sand, tr. bricks, tr. slag, tr. organics (moist, FILL)	Moved 5' East of FP-33
4	↓	Gray-Black and Blue-Gray SLAG (moist, FILL)	
6		Boring Complete with Refusal at 3.7'	No Free Standing Water Encountered at Boring Completion
8			
10			
12			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/14/2004
FINISHED 4/14/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-34
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG	Brown fine SAND, tr. roots (moist, FILL)	
2		Brown Clayey SILT and Organic Silt, tr. sand, tr. brick, tr. slag (moist, FILL)	
4			
	BKG	Gray-Brown SLAG and f-c Sand (moist, FILL)	
6		Boring Complete at 5.0'	No Free Standing Water Encountered at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/14/2004
FINISHED 4/14/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-35
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Brown f-c SAND and Slag (moist, FILL)	Fill Pile (Berm)
		Red-Brown CINDERS and Silt, numerous roots (moist, FILL)	
4		Yellow-Brown SILT, little f-c Gravel, tr. clay, tr. sand (moist, FILL)	
6	BKG	Gray-Brown SLAG, some White Lime, tr. coal, tr. brick, tr. sand (wet, FILL)	
8			
10		Boring Complete at 8.0'	Free Standing Water Recorded at 4.0' at Boring Completion
12			
14			MSA Passport II Photoionization
16			Detector (PID) used expressed in
18			parts-per-million (PPM)
20			BKG= Background
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/14/2004
FINISHED 4/14/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-36
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Brown f-c SAND, numerous Slag Fragments, tr. clay, tr. concrete, tr. brick (moist, FILL)	Fill Pile (Berm)
4			
6	BKG	Brown Clayey SILT, little f-c Sand, tr. brick Brown f-c SAND and Cinders, numerous Slag Fragments (moist)	
8			
10		Boring Complete at 8.0'	No Free Standing Water Encountered at Boring Completion
12			
14			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
16			
18			
20			BKG= Background
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/14/2004
FINISHED 4/14/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-37
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Brown f-c SAND, Black Cinders, tr. shale, tr. coal, tr. slag (moist, FILL)	
4		Brown Clayey SILT, numerous brick fragments, tr. slag (moist, FILL)	
	BKG	Gray CONCRETE (FILL)	
6		Boring Complete at 5.0'	No Free Standing Water Encountered at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/14/2004
FINISHED 4/14/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-38
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG	Brown f-c SAND, tr. Gravel, tr. silt, tr. slag (moist, FILL)	
2		Red-Brown CINDERS, tr. slag (moist, FILL)	
		Brown Clayey SILT, tr. Brick, tr. gravel, tr. sand (moist, FILL)	
4	▼	Red-Brown CINDERS and Silt, tr. sand, tr. slag (moist-wet, FILL)	
	BKG		
6		Boring Complete at 5.0'	Free Standing Water Recorded at 3.5' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/14/2004
FINISHED 4/14/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-39
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Red-Brown f-c SAND and Cinders, little f-c Slag Fragments (moist, FILL)	
4	↓	White LIME and Gray-Brown Slag, tr. Sand (wet, FILL)	
	BKG		
6		Boring Complete at 5.0'	Free Standing Water Recorded at 2.5' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/14/2004
FINISHED 4/14/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-40
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Brown f-c SAND, tr. Silt, tr. Slag (moist, FILL)	
		Contains little f-c Gravel	
4	▼	White LIME and Gray Slag Fragments (wet, FILL)	
	BKG		
6		Boring Complete at 5.0'	Free Standing Water Recorded at 1.0' at Boring Completion
8			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
10			
12			
14			BKG= Background
16			
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/14/2004
FINISHED 4/14/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-41
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	White-Gray and Brown f-c SAND, Lime, and slag fragments (moist-wet, FILL)	
4	BKG	Bluish-Gray SLAG and White Lime (wet, FILL)	
6		Boring Complete at 5.0'	Free Standing Water Recorded at 0.5' at Boring Completion
8			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
10			
12			
14			BKG= Background
16			
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/14/2004
FINISHED 4/14/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-42
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Brown CINDERS and f-m Sand, tr. slag (wet, FILL)	
4	↓	Tan-Brown f-c SAND and White Lime, tr. slag (wet, FILL)	
6	BKG	Boring Complete at 5.0'	Free Standing Water Recorded at 0.5' at Boring Completion MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM) BKG= Background
8			
10			
12			
14			
16			
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies **DRILL RIG TYPE:** SYMCO 2500 **CLASSIFIED BY:** C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/14/2004
FINISHED 4/14/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-43
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Red-Brown CINDERS, some fine Sand, numerous slag fragments	
		Gray SLAG and Lime, tr. sand (wet, FILL)	
4	↓	White LIME and Tan-Brown f-c Sand (wet, FILL)	
	BKG		
6		Boring Complete at 5.0'	Free Standing Water Recorded at 0.5' at Boring Completion
8			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
10			
12			
14			BKG= Background
16			
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-44
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2		Red-Brown CINDERS and White Ash, tr. slag (wet, FILL)	
4		Contains numerous Slag Fragments, tr. lime	
6		Boring Complete at 5.0'	Free Standing Water Recorded at 0.5' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-45
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG	Black-Gray CINDERS, tr. slag (moist, FILL)	
2	↓	Becomes Red-Brown (wet)	
		Brown f-c SAND and Slag (wet, FILL)	
4		White LIME, tr. slag (wet, FILL)	
	BKG		
6		Boring Complete at 5.0'	Free Standing Water Recorded at 1.0' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-46
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Gray SLAG, little f-c Sand (moist, FILL)	
		Brown-Gray CINDERS, tr. brick, tr. slag (wet, FILL)	
4		White LIME and Slag (wet, FILL)	
	BKG		
6		Boring Complete at 5.0'	Free Standing Water Recorded at 1.3' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-47
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Brown f-c SAND, Slag Fragments, tr. brick, tr. cinders (most-wet, FILL)	
		Black COAL (wet, FILL)	
4	▼	Gray SLAG, tr. sand, tr. cinders, tr. lime (wet, FILL)	
	BKG		
6		Boring Complete at 5.0'	Free Standing Water Encountered at 1.0' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-48
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Brown f-c SAND and Slag, tr. lime (moist, FILL)	
4	↓	(wet)	
6		Boring Complete at 5.0'	Free Standing Water Recorded at 2.0' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-49
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG	Red-Brown CINDERS and Slag (moist, FILL)	
2		Tan-Brown f-c SAND and Slag, tr. lime (wet, FILL)	
		Blue-Gray SLAG and White Lime, little f-c Sand (wet, FILL)	
4		Contains tr. coal, tr. brick	
	BKG		
6		Boring Complete at 5.0'	Free Standing Water Recorded at 1.1' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-50
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Brown f-c SAND and Slag, tr. lime (moist, FILL)	
4	▼	(wet)	
		Boring Complete at 5.0'	
6			Free Standing Water
			Recorded at 2.0'
8			at Boring Completion
10			MSA Passport II
			Photoionization
12			Detector (PID) used
			expressed in
14			parts-per-million (PPM)
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. FP-51
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG	Red-Brown CINDERS and Slag (moist, FILL)	
2		Tan-Brown f-c SAND and Slag, tr. lime (wet, FILL)	
		Blue-Gray SLAG and White Lime, little f-c Sand (wet, FILL)	
4	▼	Contains tr. coal, tr. brick	
	BKG		
6		Boring Complete at 5.0'	Free Standing Water Recorded at 1.1' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. G-1
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG ▼	Topsoil	
2		Tan-Brown f-c SAND, occasional Blue-Gray Slag layers, tr. lime (moist-wet, FILL)	
4		Boring Complete at 3.0'	No Free Standing Water Encountered at Boring Completion
6			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
8			BKG= Background
10			
12			
14			
16			
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. G-2
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG	Topsoil	
2	↓	Brown CINDERS and f-c Sand, tr. slag (moist, FILL)	
		White LIME and Slag (wet FILL)	
4		Blue-Gray SLAG (wet, FILL)	
		Boring Complete at 3.0'	
6			Free Standing Water
			Recorded at 1.0'
8			at Boring Completion
10			MSA Passport II
			Photoionization
12			Detector (PID) used
			expressed in
14			parts-per-million (PPM)
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. G-3
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG ↓	Brown f-c SAND and Slag (moist, FILL) (wet)	
4		Boring Complete at 3.0'	
6			Free Standing Water Encountered at 1.4' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies **DRILL RIG TYPE:** SYMCO 2500

CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. ST-1
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Black-Brown CINDERS, tr. slag (moist-wet, FILL)	
		(wet)	
4		Becomes Red-Brown	
	BKG		
6		Boring Complete at 5.0'	Free Standing Water Encountered at 0.7' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. ST-2
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Brown f-c SAND and slag, tr. cinders (moist, FILL)	
		Black-Gray SLAG (wet, FILL)	
4		Red-Brown CINDERS (wet, FILL)	
	BKG		
6		Boring Complete at 5.0'	Free Standing Water Encountered at 0.9' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. ST-3
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG	Gray SLAG, tr. sand (moist, FILL)	
2		Tan-Brown f-c SAND, tr. lime, tr. slag	
4			
	BKG		
6		Boring Complete at 5.0'	Free Standing Water Recorded at 1.0' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. ST-4
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG	Brown f-c SAND and Slag (moist, FILL)	
2		Red-Brown CINDERS, tr. slag (wet, FILL)	
		Gray SLAG and f-c Sand, tr. cinders, tr. lime (wet, FILL)	
4		Brown f-c SAND and Lime (wet, FILL)	
	BKG		
6		Boring Complete at 5.0'	Free Standing Water Recorded at 1.5' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. ST-5
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG	Brown f-c SAND and Lime, tr. slag (moist, FILL)	
2	↓	(wet)	
		White LIME (wet, FILL)	
4		Brown-Gray SLAG (wet, FILL)	
	BKG		
6		Boring Complete at 5.0'	Free Standing Water Recorded at 2.0' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. ST-6
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG	Brown f-c SAND and Slag (moist-wet, FILL)	
2		(wet)	
		Gray SLAG, tr. lime, tr. sand (wet, FILL)	
4		Brown f-c SAND and Lime, tr. slag (wet, FILL)	
	BKG	White LIME (wet, FILL)	
6		Boring Complete at 5.0'	Free Standing Water Recorded at 6.5' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. ST-7
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG	Gray SLAG and Red-Brown CINDERS (moist, FILL)	
2	↓	Tan-Brown f-c SAND, little f-c Slag Fragments, tr. silt (moist, FILL)	
		Contains tr. lime (wet)	
4		Gray-Brown SLAG (wet, FILL)	
	BKG		
6		Boring Complete at 5.0'	Free Standing Water Recorded at 1.5' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. ST-8
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG	Brown-Gray SLAG, little f-c Sand (wet, FILL)	
2		White LIME and Blue-Gray SLAG, tr. sand (wet, FILL)	
4	▼		
	BKG		
6		Boring Complete at 5.0'	Free Standing Water Recorded at 0.4' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. ST-9
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG	Brown-Gray SLAG, little f-c Sand (wet, FILL)	
2	↓	White LIME and Blue-Gray SLAG, tr. sand (wet, FILL)	
4			
	BKG		
6		Boring Complete at 5.0'	Free Standing Water Recorded at 0.4' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. ST-10
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Brown-Gray SLAG, little f-c Sand (wet, FILL)	
4	↓	White LIME and Blue-Gray SLAG, tr. sand (wet, FILL)	
	BKG		
6		Boring Complete at 5.0'	Free Standing Water Recorded at 0.4' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. ST-11
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG	Topsoil	
2		Red-Brown CINDERS tr. slag (wet, FILL)	
		Brown f-c SAND, tr. slag (wet, FILL)	
4		White LIME and Blue-Gray Slag (wet, FILL)	
	BKG		
6		Boring Complete at 5.0'	Free Standing Water Recorded at 0.5' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. ST-12
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG	Red-Brown CINDERS, tr. slag (moist, FILL)	
2	▼	Gray SLAG, some Cinders, tr. Lime (wet, FILL)	
4		Boring Complete with Sample Refusal at 3.1'	
6			Free Standing Water Recorded at 1.8' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. ST-13
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG	Topsoil	
2		Brown CINDERS, and Slag, tr. brick (moist, FILL)	
		Brown f-c SAND and Slag (moist, FILL)	
4		Black-Gray SLAG (wet, FILL)	
	BKG	White LIME, tr. Slag (wt, FILL)	
6		Boring Complete at 5.0'	Free Standing Water Encountered at 3.2' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. ST-14
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG ↓	Brown f-c SAND and Cinders, tr. slag (moist, FILL) Becomes Tan-Brown (wet)	
4		Blue Gray SLAG and White Lime, tr. sand (wet, FILL)	
6		Boring Complete at 5.0'	Free Standing Water Recorded at 2.5' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. ST-15
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG	Topsoil	
2		Red-Brown CINDERS, tr. slag (moist, FILL)	
		Tan-Brown f-c SAND, tr. slag, tr. lime (moist, FILL	
4		Blue Gray SLAG and White Lime, tr. sand (wet, FILL)	
		Boring Complete at 5.0'	
6			Free Standing Water
			Recorded at 3.0'
8			at Boring Completion
10			MSA Passport II
			Photoionization
12			Detector (PID) used
			expressed in
14			parts-per-million (PPM)
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. ST-17
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Blue-Green and Gray SLAG (moist, FILL)	
		Tan-Brown f-c SAND (moist, FILL)	
4		Brown CINDERS, tr. slag (moist-wet, FILL)	
6	BKG	Tan-Brown f-c SAND and Slag (wet, FILL)	
		Boring Complete at 5.0'	Free Standing Water Recorded at 2.6' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. ST-18
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG	Gray SLAG, tr. cinders (moist, FILL)	
2		Brown CINDERS and f-c Sand, tr. slag (moist, FILL)	
4		Tan-Brown f-c SAND, tr. slag, tr. lime (wet, FILL)	
		Boring Complete with Sampler Refusal Encountered at 4.0'	
6			Free Standing Water
			Recorded at 2.8' at
8			Boring Completion
10			MSA Passport II
			Photoionization
12			Detector (PID) used
			expressed in
14			parts-per-million (PPM)
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. ST-19
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Brown CINDERS and f-c Sand, tr. slag (moist, FILL)	
4	↓	Tan-Brown f-c SAND and Slag, tr. lime (moist, FILL) (wet)	
	BKG		
6		Boring Complete at 5.0'	Free Standing Water Recorded at 3.2' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. ST-20
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Tan-Brown f-c SAND, some Slag, tr. lime	
4	▼	White LIME and f-c Sand, tr. slag (wet, FILL)	
6	BKG	Boring Complete at 5.0'	MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
8			
10			BKG= Background
12			Free Standing Water Recorded at 2.9' at Boring Completion
14			
16			
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. ST-21
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG	Brown f-c SAND and Cinders, tr. slag (moist, FILL)	
2		Gray SLAG (moist, FILL)	
		Tan-Brown f-c SAND and Slag, tr. lime (wet, FILL)	
4			
	BKG		
6		Boring Complete at 5.0'	MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
8			
10			
12			BKG= Background
14			Free Standing Water Recorded at 2.5' at Boring Completion
16			
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. ST-22
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG	Brown-Gray and Blue-Gray SLAG (moist, FILL)	
2		Boring Complete with Sampler Refusal at 1.0'	No Free Standing Water Encountered at Boring Completion
4			
6			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
8			
10			
12			BKG= Background
14			
16			
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. ST-23
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Brown-Gray SLAG and f-c Sand, tr. brick, tr. cinders (moist-wet, FILL)	
4	↓	Gray-Brown Silty CLAY, tr. slag, tr. wood (moist, FILL)	
	BKG		
6		Boring Complete at 5.0'	MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
8			
10			
12			BKG= Background
14			Free Standing Water Recorded at 1.7' at Boring Completion
16			
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. ST-24
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Brown-Gray SLAG, Cinders, and Sand, tr. brick, tr. metal fragments (moist, FILL)	
4	▼	(wet)	
	BKG		
6		Boring Complete at 5.0'	MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
8			
10			
12			BKG= Background
14			Free Standing Water Recorded at 2.5' at Boring Completion
16			
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. ST-25
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Brown-Gray SLAG and f-c Sand, tr. brick, tr. cinders, tr. ash, tr. roots (moist, FILL)	
		(wet)	
4		Gray-Brown and olive-Gray Mottled Clayey Silt, tr. organics	
	BKG		
6		Boring Complete at 5.0'	MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
8			
10			
12			BKG= Background
14			Free Standing Water Recorded at 2.1' at Boring Completion
16			
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. ST-26
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Brown-Gray SLAG and f-c Sand, tr. cinders (moist, FILL)	
4	▼	(wet)	
	BKG		
6		Boring Complete at 5.0'	MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
8			
10			
12			BKG= Background
14			Free Standing Water Recorded at 3.0' at Boring Completion
16			
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies **DRILL RIG TYPE:** SYMCO 2500 **CLASSIFIED BY:** C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. ST-27
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Brown f-c SAND and Slag (moist, FILL)	
4		Black CINDERS and Slag (wet, FILL)	
	BKG	Contains tr. coal	
6		Boring Complete at 5.0'	MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
8			
10			
12			BKG= Background
14			Free Standing Water Recorded at 3.5' at Boring Completion
16			
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. ST-28
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG	Black COAL and Gray Slag (moist, FILL)	
2		Brown Clayey SILT, tr. sand, tr. slag (moist, FILL)	
4		Gray Crushed LIMESTONE Fragments (moist, FILL)	
	BKG		
6		Boring Complete at 5.0'	No Free Standing Water Encountered at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. ST-29
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG ↓	Gray Crushed LIMESTONE and Slag (moist, FILL) Contains tr. concrete fragments Gray SLAG and Lime (moist, FILL)	
4			No Free Standing Water Encountered at Boring Completion
6			
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. ST-30
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Brown CINDERS and Slag, tr. sand, tr. silt, tr. brick (wet, FILL)	
4	▼	Yellow Brick Fragments and Gray Slag (wet, FILL)	
6	BKG	Boring Complete with Sample Spoon Refusal encountered at 4.6'	Free Standing Water Recorded at 0.8' at Boring Completion
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. S-1
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Orange-Brown SLAG and Cinders (moist, FILL)	
4	↓	Becomes White with Tan-Brown f-c Sand	
6	BKG	Becomes Blue-Gray	
8	↓	Contains occasional Lime Layers	
10		Boring Complete at 8.0'	MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			Free Standing Water Recorded at 3.5' at Boring Completion
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. S-2
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Tan-Brown f-c SAND and Slag, tr. coal (moist, FILL)	
4		(wet)	
6	BKG	Blue-Gray SLAG and Lime (wet, FILL)	
8			
10		Boring Complete at 8.0'	MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			Free Standing Water Recorded at 2.0' at Boring Completion
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. S-3
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG	Brown CINDERS and f-c Sand, tr. roots (moist, FILL)	
2		Blue-Green SLAG and Lime (moist, FILL)	
4		Tan-Brown f-c SAND and Slag, tr. lime (wet, FILL)	
	BKG	Blue SLAG (wet, FILL)	
6			
		Contains tr. lime, tr. cinders	
8			
		Boring Complete at 8.0'	
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			Free Standing Water Recorded at 1.7' at Boring Completion
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. S-4
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG	Brown CINDERS and f-c Sand, tr. roots (moist, FILL)	
2		Blue-Green SLAG and Lime (moist, FILL)	
4		Tan-Brown f-c SAND and Slag, tr. lime (wet, FILL)	
	BKG	Blue SLAG (wet, FILL)	
6			
		Contains tr. lime, tr. cinders	
8			
		Boring Complete at 8.0'	
10			MSA Passport II
			Photoionization
12			Detector (PID) used
			expressed in
14			parts-per-million (PPM)
16			BKG= Background
18			Free Standing Water
			Recorded at 2.1' at
20			Boring Completion
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. S-5
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG	Brown CINDERS and f-c Sand, tr. roots (moist, FILL)	
2		Blue-Green SLAG and Lime (moist, FILL)	
4		Tan-Brown f-c SAND and Slag, tr. lime (wet, FILL)	
		Blue SLAG (wet, FILL)	
6		Contains tr. lime, tr. cinders	
8		Boring Complete at 8.0'	
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			Free Standing Water Recorded at 1.7' at Boring Completion
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. S-6
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Black-Brown CINDERS, tr. roots (moist, FILL)	
4		White LIME and f-c Sand (moist-wet, FILL)	
6		(wet)	
8		Boring Complete at 6.0'	
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			Free Standing Water Recorded at 2.0' at Boring Completion
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. S-7
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	TOPSOIL Gray-Brown SLAG and Cinders (moist, FILL)	
4			
6	BKG	White LIME and Gray Slag (wet, FILL)	
8			
10		Boring Complete at 8.0'	MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM) BKG= Background Free Standing Water Recorded at 1.9' at Boring Completion
12			
14			
16			
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. S-8
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Brown-Gray SLAG and f-c Sand (moist, FILL)	
4	↓	Contains occasional Black Cinder Layer (wet)	
6	BKG	White LIME and Slag (wet, FILL)	
8	↓		
10		Boring Complete at 8.0'	MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			BKG= Background
16			
18			Free Standing Water Recorded at 2.8' at Boring Completion
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. S-9
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG	Brown-Gray SLAG and f-c Sand, tr. lime (moist, FILL)	
2	BKG		
4			
	BKG	(wet)	
6		White LIME and Blue-Green Slag (wet, FILL)	
8			
		Boring Complete at 8.0'	
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			Free Standing Water Recorded at 2.2' at Boring Completion
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. S-10
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Tan-Brown SLAG and f-c Sand, tr. cinders (moist, FILL)	
		Black-Brown CINDERS, tr. slag (wet, FILL)	
4		Blue-Green SLAG, tr. lime (wet, FILL)	
6	BKG		
8			
10		Boring Complete at 8.0'	MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			Free Standing Water Recorded at 2.3' at Boring Completion
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. S-11
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Brown-Gray SLAG, tr. - little f-c Sand, tr. cinders (moist, FILL)	
4		(wet)	
6		Contains tr. lime White LIME and Blue-Green Slag (wet, FILL)	
8			
10		Boring Complete at 8.0'	MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			Free Standing Water Encountered at Boring Completion
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. S-12
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Gray SLAG (moist, FILL)	
		Brown CINDERS and Black Coal (moist, FILL)	
4		White LIME and Blue-Gray Slag (wet, FILL)	
6	BKG		
8			
10		Boring Complete at 8.0'	MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			Free Standing Water Recorded at 1.5' at Boring Completion
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. S-13
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	Brown-Gray SLAG and f-c Sand, tr. cinders (moist, FILL)	
4		Tan-Brown f-c SAND and Slag (moist-wet, FILL)	
6	BKG	White and Blue-Gray SLAG and Lime (wet, FILL)	Free Standing Water Recorded at 2.0' at Boring Completion.
8			
10		Boring Complete at 8.0'	MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			Free Standing Water Recorded at 2.0' at Boring Completion
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. S-14
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	TOPSOIL	
		Tan-Brown f-c SAND (wet, FILL)	
4		Gray-Brown SLAG and f-c Sand, tr. lime (wet, FILL)	
6	BKG		
8			
10		Boring Complete at 8.0'	MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			Free Standing Water Recorded at Ground Surface at Boring Completion.
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. S-15
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
PROJ. NO.: BEV-04-005
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
	BKG	TOPSOIL	
2	↓	Brown CINDERS (moist, FILL)	
		Gray SLAG and Crushed Limestone (wet, FILL)	
4		Boring Complete with Sample Refusal Encountered at 3.0'	Free Standing Water Recorded at 2.0' at Boring Completion.
6			
8			
10			MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist

METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

DATE:
STARTED 4/15/2004
FINISHED 4/15/2004
SHEET 1 OF 1

SJB SERVICES, INC.
DIRECT PUSH LOG

HOLE NO. S-16
SURF. ELEV N/A
G.W. DEPTH See Notes

PROJECT: Certain Teed Corporation-New Manufacturing Plant & Offices
LOCATION: Former Railroad Yard Area (Subparcel 1)-Union Ship Canal
PROJ. NO.: BEV-04-005
City of Buffalo, Erie County, New York

DEPTH FT.	PID READING	SOIL OR ROCK CLASSIFICATION	NOTES
2	BKG	TOPSOIL Brown f-c SAND and Cinders, tr. slag (wet, FILL)	
4		White-Gray SLAG and Lime (wet, FILL)	
6	BKG	Becomes Blue-Green	
8			
10		Boring Complete at 8.0'	MSA Passport II Photoionization Detector (PID) used expressed in parts-per-million (PPM)
12			
14			
16			BKG= Background
18			Free Standing Water Recorded at 1.0' at Boring Completion.
20			
22			
24			
26			
28			
30			
32			

DRILLER: M.Matthies
DRILL RIG TYPE: SYMCO 2500
CLASSIFIED BY: C.Guzzetta
Environmental Specialist
METHOD OF INVESTIGATION: DIRECT PUSH SAMPLING

APPENDIX B

PSC's Laboratory Analytical Report

PASC - Certificate of Analysis

			C-4	C-4	C-4	C-4	C-5	C-6
Client ID:			(Compoiste)	(Compoiste)	(Compoiste)	(Compoiste)	(Compoiste)	(Compoiste)
Lab No.:			020226 04	020226 04	020226 04	020226 04	020227 04	020228 04
Date Sampled:			14-Apr-2004	14-Apr-2004	14-Apr-2004	14-Apr-2004	15-Apr-2004	16-Apr-2004
Component	MDL	Units		Duplicate	M. Spike	MS % Rec.		
Soil pH measured in water			10.69	-	-	-	9.89	11.41
Cyanide total	100	ug/kg	230 J	-	-	-	220 J	< J
Mercury	40	ug/kg	340 J	-	-	-	140 J	110 J
Arsenic	1000	ug/kg	16000 J	17000	39000	91	19000 J	17000 J
Barium	500	"	210000	220000	260000	88	160000	250000
Cadmium	500	"	3300	3400	25000	88	5500	1700
Chromium	500	"	22000	23000	63000	81	34000	25000
Lead	1000	"	82000	81000	120000	84	160000	49000
Selenium	1000	"	<2000	<2000	24000	94	<2000	<
Silver	500	"	<	<	24000	93	<	<

Cyanide via SW846 9012
Mercury via SW846 7471
Metals via SW846 6010

	Client ID:		C-4 (Composite)	C-4 (Composite)	C-4 (Composite)	C-4 (Composite)	C-4 (Composite)	C-5 (Composite)	C-6 (Composite)
	Lab No.:		020226 04	020226 04	020226 04	020226 04	020226 04	020227 04	020228 04
	Date Sampled:		14-Apr-2004	14-Apr-2004	14-Apr-2004	14-Apr-2004	14-Apr-2004	15-Apr-2004	16-Apr-2004
Component	MDL	Units		M. Spike	MS % Rec.	MS Dup	MSD % Rec.		
Aldrin	4.0	ug/kg	< 14 J	21	48	24	57	< 13 J	< <9 J
a-BHC	3.0	"	< J	19	46	23	55	<	< <9
b-BHC	5.0	"	<	29	69	23	77	<	<
g-BHC (Lindane)	2.0	"	< J	20	47	23	54	<	<
d-BHC	4.0	"	< J	20	46	22	52	<	<
a-Chlordane	5.0	"	< J	28	67	31	74	<	<
g-Chlordane	6.0	"	<	27	64	30	71	<	<
Isodrin	4.0	"	<	25	58	27	65	<	<
p,p'-DDD	6.0	"	<	33	76	33	77	<	<
p,p'-DDE	4.0	"	<	35	83	38	91	<	<
p,p'-DDT	9.0	"	< J	22	53	25	59	<	<10.0
Dieldrin	6.0	"	<	27	64	30	70	<	< <9
a-Endosulfan	3.0	"	<	26	62	29	68	<	<
b-Endosulfan	8.0	"	<	29	67	32	75	<	<9.0
Endosulfan Sulfate	5.0	"	<	23	54	27	63	<	<
Endrin	3.0	"	<	35	82	38	89	<8.0	<
Endrin Ketone	5.0	"	<	25	59	27	64	<	<
Endrin Aldehyde	4.0	"	< J	17	39	12	28	< J	< J
Heptachlor	4.0	"	< J	23	54	28	67	<	<
Heptachlor Epoxide	3.0	"	< J	24	56	26	61	<	<
Methoxychlor	25	"	<	120	69	130	74	<	<27
Mirex	7.0	"	<	66	77	71	84	<	<8.0 < 9
Toxaphene	100	"	<	NS	-	NS	-	<	<
Surrogate Recoveries		%							
4,4'-Dibromooctaflourobiphenyl			54	56	56	63	63	68	66
Decachlorobiphenyl			85	78	78	84	84	82	73

Pesticides via SW846 8081

Component	Client ID: / Lab No.: / Date Sampled:	MDL	Units	C-4 (Composite) 020226 04 14-Apr-2004	C-5 (Composite) 020227 04 15-Apr-2004	C-6 (Composite) 020228 04 16-Apr-2004	C-6 (Composite) 020228 04 16-Apr-2004 M. Spike	C-6 (Composite) 020228 04 16-Apr-2004 MS % Rec.	C-6 (Composite) 020228 04 16-Apr-2004 MS Dup	C-6 (Composite) 020228 04 16-Apr-2004 MSD % Rec.
Aroclor-1016		38	ug/kg	< <205	< <160	<43 <230	510	86	690	100
Aroclor-1221		41	"	<	<	<47	<	<	<	<
Aroclor-1232		38	"	<	<	<43	<	<	<	<
Aroclor-1242		50	"	<	<	<57	<	<	<	<
Aroclor-1248		31	"	<	<	<35	<	<	<	<
Aroclor-1254		59	"	<	<	<67	<	<	<	<
Aroclor-1260		31	"	<	<	<35	620	110	760	110
Aroclor-1262		31	"	90 J	110 J	<35	<	<	<	<
Aroclor-1268		49	"	< <205	< <160	<	<	<	<	<
Total PCB		59	"	90	110	<67	1100	96	1500	110
Surrogate Recoveries			%							
4,4'-Dibromooctaflourobiphenyl				67	49	49	61	61	74	74
Decachlorobiphenyl				98	74	70	84	84	102	102

PCB via SW846 8082

Component	MDL	Units	G-4 (Grab FP-47) 020229 04 14-Apr-2004	G-5 (Grab ST-24) 020230 04 15-Apr-2004	G-6 (Grab FP-23) 020231 04 16-Apr-2004
Client ID:					
Lab No.:					
Date Sampled:					
Acetone	20	ug/kg	22 J	27	<30 J
Acrolein	10	"	<	< J	<15
Acrylonitrile	10	"	<	<	<15
Benzene	1.0	"	<	3.0	<2.0
Bromoform	1.0	"	<3.0	<	<5.0
Bromomethane	6.0	"	<	<	<90
2-Butanone	5.0	"	<	<	<8.0
Carbon Disulfide	1.0	"	5.0	4.0	6.0
Carbon Tetrachloride	1.0	"	<	<	<2.0
Chlorobenzene	1.0	"	<	<	<2.0
Chlorodibromomethane	1.0	"	<	<	<2.0
Chloroethane	1.0	"	<	<	<2.0
Chloroform	1.0	"	<	<	<2.0
Chloromethane	1.0	"	<	<2.0	<4.0
1,2-Dichlorobenzene	1.0	"	<3.0	<	<5.0
1,3-Dichlorobenzene	1.0	"	<3.0	<	<5.0
1,4-Dichlorobenzene	1.0	"	<3.0	<	<5.0
Dichlorobromomethane	1.0	"	<	<	<2.0
1,1-Dichloroethane	1.0	"	<	<	<2.0
1,2-Dichloroethane	1.0	"	<	<	<2.0
1,1-Dichloroethene	1.0	"	<	<	<2.0
Dichloromethane	20	"	<	<	<30
Methyl-t-butylether	1.0	"	<	<	<2.0
Ethylene Dibromide	1.0	"	<	<	<2.0
1,2-Dibromo-3-Chloropropane	5.0	"	<15	<	<23
cis-1,2-Dichloroethene	1.0	"	<	<	<2.0
trans-1,2-Dichloroethene	1.0	"	<	<	<2.0
1,2-Dichloropropane	1.0	"	<	<	<2.0
cis-1,3-Dichloropropene	1.0	"	<	<	<2.0
trans-1,3-Dichloropropene	1.0	"	<	<	<2.0
Ethylbenzene	1.0	"	<	<	<2.0
2-Hexanone	5.0	"	<	<	<8.0
4-Methyl-2-Pentanone	5.0	"	<	<	<8.0
Styrene	1.0	"	<	<	<2.0
1,1,1,2-Tetrachloroethane	1.0	"	<	<	<2.0
1,1,2,2-Tetrachloroethane	1.0	"	<3.0	<	<5.0
Tetrachloroethene	1.0	"	<	<	<2.0
Toluene	1.0	"	1.0	4.0	<2.0
1,1,1-Trichloroethane	1.0	"	<	<	<2.0
1,1,2-Trichloroethane	1.0	"	<	<	<2.0
Trichloroethene	1.0	"	<	<	<2.0
Trichlorfluoromethane	1.0	"	<	<	<2.0

Edit:
* Reporting limits for "<1" are to be: C-4 "<2.3 ug/kg"
C-5 " 2.7 "
C-6 " 3.5 "

Component	MDL	Units	Client ID: G-4 (Grab FP-47)	G-5 (Grab ST-24)	G-6 (Grab FP-23)
Lab No.: *			020229 04	020230 04	020231 04
Date Sampled:			14-Apr-2004	15-Apr-2004	16-Apr-2004
Vinyl Chloride	1.0	ug/kg	< J	<	<2.0 J
m&p-Xylene	1.0	"	<	1.0 J	<2.0
o-Xylene	1.0	"	<	<	<2.0
Isopropylbenzene	1.0	"	<3.0	<	<5.0
Surrogate Recoveries		%			
d4-1,2-Dichloroethane			75	76	81
d8-Toluene			115	98	109
Bromofluorobenzene			70	77	73
d10-Ethylbenzene			16	36	21

VOC via SW846 8260

* See edit previous page

Component	MDL	Units	C-4 (Composite)	C-5 (Composite)	C-6 (Composite)	C-6 (Composite)
Client ID:						M. Spike
Lab No.:			020226 04	020227 04	020228 04	020228 04
Date Sampled:			14-Apr-2004	15-Apr-2004	16-Apr-2004	16-Apr-2004
Phenol	270	ug/kg	~~<540~~ R	~~<540~~ R	~~<540~~ R	7800
Bis(2-chloroethyl)ether	180	"	<360	<360	<360	NS
2-Chlorophenol	480	"	~~<960~~ R	~~<960~~ R	~~<960~~ R	9600
1,3-Dichlorobenzene	200	"	<400	<400	<400	NS
1,4-Dichlorobenzene	200	"	<400	<400	<400	5200
1,2-Dichlorobenzene	200	"	<400	<400	<400	NS
Bis(2-chloroisopropyl)ether	150	"	<300	<300	<300	NS
Hexachloroethane	200	"	<400	<400	<400	NS
N-Nitroso-di-N-Propylamine	210	"	<420	<420	<420	5200
Nitrobenzene	200	"	<400	<400	<400	NS
Isophorone	400	"	<800	<800	<800	NS
2-Nitrophenol	140	"	~~<280~~ R	~~<280~~ R	~~<280~~ R	NS
2,4-Dimethylphenol	170	"	~~<340~~ R	~~<340~~ R	~~<340~~ R	NS
Bis(2-chloroethoxy)methane	130	"	<260	<260	<260	NS
2,4-Dichlorophenol	150	"	~~<300~~ R	~~<300~~ R	~~<300~~ R	NS
1,2,4-Trichlorobenzene	200	"	<400	<400	<400	5700
Naphthalene	90	"	2800	1200 J	290 J	NS
Hexachlorobutadiene	200	"	<400	<400	<400	NS
4-Chloro-3-Methylphenol	150	"	~~<300~~ R	~~<300~~ R	~~<300~~ R	4000
Hexachlorocyclopentadiene	200	"	<400	<400	<400	NS
2,4,6-Trichlorophenol	120	"	~~<240~~ R	~~<240~~ R	~~<240~~ R	NS
2-Chloronaphthalene	340	"	<680	<680	<680	NS
Acenaphthylene	40	"	<80	<80	<80	NS
Dimethyl phthalate	110	"	<220	<220	<220	NS
2,6-Dinitrotoluene	60	"	<120	<120	<120	NS
Acenaphthene	70	"	<140	<140	<140	6300
2,4-Dinitrophenol	480	"	~~<960~~ R	~~<960~~ R	~~<960~~ R	NS
2,4-Dinitrotoluene	220	"	<440	<440	<440	6600
4-Nitrophenol	170	"	~~<340~~ R	~~<340~~ R	~~<340~~ R	2200
Fluorene	60	"	<120	<120	<120	NS
4-Chlorophenylphenylether	90	"	<180	<180	<180	NS
Diethyl phthalate	110	"	<220	<220	<220	NS
4,6-Dinitro-2-methylphenol	160	"	~~<320~~ R	~~<320~~ R	~~<320~~ R	NS
N-Nitrosodiphenylamine	190	"	<380	<380	<380	NS
4-Bromophenylphenylether	40	"	<80	<80	<80	NS
Hexachlorobenzene	200	"	<400	<400	<400	NS
Pentachlorophenol	310	"	~~<620~~ R	~~<620~~ R	~~<620~~ R	NS
Phenanthrene	30	"	800 J	1100 J	150 J	NS
Anthracene	60	"	<120	<120	<120	NS
Di-n-butyl phthalate	110	"	<220	<220	<220	NS
Fluoranthene	50	"	670 J	780 J	100 J	NS
Pyrene	60	"	620 J	700 J	<120	7000
Benzyl butyl phthalate	100	"	<200	<200	<200	NS
3,3-Dichlorobenzidine	340	"	<680	<680	<680	NS
Benzo(a)anthracene	50	"	390 J	450 J	<100	NS
Chrysene	60	"	460 J	800 J	150 J	NS
Bis(2-ethylhexyl)phthalate	750	"	4700	27000	2300	NS
Di-n-octyl phthalate	110	"	<220	<220	<220	NS
Benzo(b)fluoranthene	40	"	380 J	580 J	100 J	NS
Benzo(k)fluoranthene	40	"	350 J	430 J	<80	NS

* Edit: Reporting limits for "<" in C-4 to 1700 ug/kg

" " C-5 1400 "

" " C-10 1900 "

PASC - Certificate of Analysis

	Client ID:		C-4 (Composite)	C-5 (Composite)	C-6 (Composite)	C-6 (Composite)
	Lab No.:		020226 04	020227 04	020228 04	020228 04
	Date Sampled:		14-Apr-2004	15-Apr-2004	16-Apr-2004	16-Apr-2004
Component	**MDL**	**Units**				M/Spike
Benzo(a)pyrene	50	ug/kg	370 J	340 J	<100	NS
Indeno(1,2,3-cd)pyrene	60	"	340 J	370 J	<120	NS
Dibenzo(a,h)anthracene	60	"	<120	<120	<120	NS
Benzo(ghi)perylene	50	"	320 J	360 J	<100	NS
N-Nitrosodimethylamine	1000	"	<2000	<2000	<2000	NS
Aniline	500	"	<1000	<1000	<1000	NS
Benzyl alcohol	500	"	<1000	<1000	<1000	NS
Carbazole	500	"	<1000	<1000	<1000	NS
2-Methylphenol	500	"	~~<1000 R~~	~~<1000 R~~	~~<1000 R~~	NS
3&4-Methylphenol	500	"	~~<1000 R~~	~~<1000 R~~	~~<1000 R~~	NS
Benzoic acid	500	"	~~<1000 R~~	~~<1000 R~~	~~<1000 R~~	NS
4-Chloroaniline	500	"	<1000	<1000	<1000	NS
2-Methylnaphthalene	340	"	3200	1400	<680	NS
2,4,5-Trichlorophenol	100	"	~~<200 R~~	~~<200 R~~	~~<200 R~~	NS
2-Nitroaniline	500	"	<1000	<1000	<1000	NS
3-Nitroaniline	500	"	<1000	<1000	<1000	NS
Dibenzofuran	500	"	<1000	<1000	<1000	NS
Benzidine	500	"	<1000 J	<1000 J	<1000 J	NS
4-Nitroaniline	500	"	<1000	<1000	<1000	NS
Surrogate Recoveries		%				
2-Fluorophenol			9.0	7.0	29	39
d5-Phenol			28	27	51	62
d5-Nitrobenzene			80	92	80	77
2-Fluorobiphenyl			90	109	88	91
2,4,6-Tribromophenol			11	9.0	16	23
d14-p-Terphenyl			95	124	107	107

SVOC via SW846 8270

* See edit prev. page

APPENDIX C

Data Validation Report

Data Validation Services

120 Cobble Creek Road P. O. Box 208
North Creek, N. Y. 12853
Phone 518-251-4429
Facsimile 518-251-4428

July 26, 2004

Charles Guzzetta
Empire Geo-Services, Inc.
5167 South Park Ave.
Hamburg, NY 14075

RE: Validation of Hanna Furnace site data packages
PSC Nos. 4D0713

Dear Mr. Guzzetta:

Review has been completed for the data packages generated by PSC Analytical Services that pertain to six soil samples collected 4/15/04 and 4/16/04 at the Hanna Furnace site. Three grab samples were analyzed for volatiles, and three composite samples were analyzed for TCL semivolatiles, TCL pesticides, PCBs, TAL metals, and cyanide. Analysis methods used are those of the USEPA SW846 methods EPA8260B, EPA8270C, EPA8081, EPA8082, EPA6010B, EPA7471A, and EPA9012A.

This Data Usability Summary Report is primarily generated from review of the QC summary form information, with full review of sample raw data, and limited review of associated QC raw data. The validation has been performed in accordance with the 1997 NYSDEC DUSR Guidance document. The data have been reviewed for application of validation qualifiers, with guidance from the USEPA National Functional Guidelines for (In)Organic CLP Data Review, with consideration for the requirements of the specific analytical methodologies. The following items were reviewed:

* Data Completeness
* Case Narrative
* Custody Documentation
* Holding Times
* Surrogate and Internal Standard Recoveries
* Matrix Spike Recoveries and Duplicate Correlations
* Preparation/Calibration Blanks
* Laboratory Control Samples (LCS)/Matrix Spike Blanks (MSB)
* Instrumental Tunes
* Calibration/CRI Standards
* ICP Serial Dilution
* ICP Interference Check Samples
* Method Compliance
* Sample Result Verification

Those items showing deficiencies are discussed in the following sections of this report. All others were found to be acceptable as outlined in the above-mentioned validation procedures, and as applicable for the methodology. Unless noted specifically in the following text, reported results are substantiated by the raw data, and generated in compliance with project requirements.

In summary, most reported results are usable, although organic reporting limits have been edited upward, and all of the metals results and some of the organic results are qualified as estimated in value. However, results for acid analytes in the semivolatile fractions of two of the three samples are not usable. These issues are addressed in the following narrative.

Copies of the laboratory case narrative and resubmission communications are attached to this text, and should be reviewed in conjunction with this report. Also included in this submission are copies of the laboratory sample results tables with recommended qualifiers and edits applied in red ink.

General

Reported results for PCBs were revised to correct a transcription/calculation error in detected values. Only these revised results (attached) should be used.

Sample results were reported using MDLs as reporting limits. In accordance with the analytical methodologies for the organic analyses, the reporting limits on the attached sample results forms have been edited upward to reflect the concentration corresponding to response at the lowest point of the instrument linearity determinations. Detected organic results with concentrations below those adjusted limits have been qualified as estimated in value because they are below the established linear range of the instrument.

Solids content of the samples were not reported on the sample report forms, although the determinations were made and results were reported on a dry weight basis. Metals and cyanide results are determined from air-dried samples, rather than with the solids determination that is referenced for dry weight reporting in the metals preparation method.

Volatile Analyses by EPA 8260B

Samples G-4 and G-6 exhibited outlying low recoveries for the surrogate standard d10-ethylbenzene (16% and 21%) and responses below 50% for the internal standard d4-1,4-dichlorobenzene. Therefore, all volatile results for these two samples are qualified as estimated ("J", "UJ", or "<J"). These outlying responses should have been discussed in the laboratory case narrative.

Initial and continuing calibration standards show responses within protocol and validation guidelines, with the exception of the responses for acrolein (RRF of 0.014 and 75%D). Reporting limit values for this compound in the samples are considered estimated ("UJ"), with a low bias.

Holding times and instrument tunes were acceptable. Method blanks show no contamination.

No sample matrix spikes were processed. The matrix spiked blank shows acceptable recoveries. Project Soil matrix spikes recoveries were acceptable in a previous sampling event.

Semivolatile Analyses by EPA 8270C

Samples C-4 and C-5 each show recoveries below 10% for one or more acid surrogate standard. Therefore, results of acid analytes (i.e. phenolics) reporting no detection in are rejected ("R"; not usable) in those samples. Detected results for the acid compounds are qualified as estimated ("J"), with a low bias. Per protocol, the laboratory should have reextracted the samples to either provide acceptable data or show that the failure was due to sample matrix. These outliers should have been discussed in the laboratory case narrative.

Holding times, and instrument tune, and internal standard responses were acceptable. Method blanks show no contamination.

Initial and continuing calibration standards show responses within protocol and validation guidelines, with the exception of the response for benzidine (RRF 0.046 and 42%RSD). Reporting limit values for that analyte are therefore qualified as estimated ("UJ"), with a low bias.

Sample matrix spikes of C-6 show acceptable accuracy and precision. Spiked blanks show acceptable recoveries and duplicate correlations for the ten analytes evaluated.

TCL Pesticides and PCBs by EPA 8081 and 8082

Please see the corrected results for PCBs, which are included within the qualified attachments. Additionally, the detected values have been qualified as estimated ("J") because they are below the established linearity of the system.

Due to noncompliant low recoveries in the associated spiked blank, results for aldrin (64%, below 70%) and endrin aldehyde (40%, below 47%) in the samples are qualified as estimated ("UJ"), and have a low bias. These outliers should have been addressed in the laboratory case narrative and flagged as outlying in the data package.

Sample pesticide matrix spikes of C-4 show low recoveries for nine of the pesticides. These outliers should have been addressed in the laboratory case narrative and flagged as outlying in the data package. The results for these pesticides on the sample report form for C-4 have been qualified as estimated ("UJ"), and have a low bias.

Holding times and surrogate recoveries are acceptable. Method blanks show no contamination.

The sample matrix spikes of Aroclors 1016 and 1260 and pesticide on C-6 show acceptable accuracy and precision.

Initial and continuing calibration determinations were performed on Aroclors 1016 and 1260. Although not reported in the data packages, chromatograms of the other Aroclor mixtures were provided on request for comparison to sample data.

Metals and Cyanide Analyses by EPA 6010B, 7471A, and 9012A

All detected metals and cyanide detected results are qualified as estimated, with a possible low bias, due to use of air dried sample (rather than a true solid determination).

The matrix spike and duplicate of C-4 show acceptable accuracy and precision, with the exception of the recoveries for antimony (68%). Results for that element are considered additionally estimated. LCS recoveries were within acceptable ranges.

Calibration and CRI standards show good recoveries. Blanks show no contamination above CRDL.

No ICP serial dilution evaluation was performed.

Quarterly/Annual instrumental parameter summaries required of the ASP deliverables are not available.

Data Completeness

The data package was not generated in accordance with the NYSDEC ASP Category B deliverables, but included most items necessary for the validation review. Independent verification of reported values and reporting limits is not possible with the information provided in the data package. Additional clarifications were required, and included some obtained during review of data for prior sampling events. The data packages do not include some of the items specified as necessary during validation review of prior events at this site.

Errors noted on data package formwork are not detailed within this report unless directly affecting sample reported results.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,

Judy Harry

VALIDATION QUALIFIER DEFINITIONS

DATA QUALIFIER DEFINITIONS

ORGANIC

The following definitions provide brief explanations of the national qualifiers assigned to results in the data review process. If the Regions choose to use additional qualifiers, a complete explanation of those qualifiers should accompany the data review.

U - **The analyte was analyzed for, but was not detected above the reported sample quantitation limit.**

J - **The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.**

N - **The analysis indicates the present of an analyte for which there is presumptive evidence to make a "tentative identification."**

NJ - **The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.**

UJ - **The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.**

R - **The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.**

DATA QUALIFIER DEFINITIONS INORGANIC

The following definitions provide brief explanations of the national qualifiers assigned to results in the data review process. If the Regions choose to use additional qualifiers, a complete explanation of those qualifiers should accompany the data review.

U	-	**The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.**
J	-	**The associated value is an estimated quantity.**
R	-	**The data are unusable. (Note: Analyte may or may not be present.)**
UJ	-	**The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.**

LABORATORY SAMPLE IDs AND CASE NARRATIVES

PROJECT NARRATIVE

PSC Analytical Services Inc (Burlington ON)
PASCI Project: AN031794
PASCI Submission #:4D0713

Client: Empire Geo-Services Inc.
Client Project: BEU-03-040,04-004

I. SAMPLE RECEIPT/ANALYSIS

a) Sample Listing

Philip ID	Client Sample ID	Date Sampled	Date Received	Date Prepped	Run Date	Initial Calibration
Pesticides via SW846 Method 8081						
020226 04	C-4 (Composite)	04/04/14	04/04/19	04/04/21	04/04/29	04/04/29
020227 04	C-5 (Composite)	04/04/15	04/04/19	04/04/21	04/04/29	04/04/29
020228 04	C-6 (Composite)	04/04/16	04/04/19	04/04/21	04/04/29	04/04/29
PCB via SW846 Method 8082						
020226 04	C-4 (Composite)	04/04/14	04/04/19	04/04/21	04/04/25	04/04/25
020227 04	C-5 (Composite)	04/04/15	04/04/19	04/04/21	04/04/25	04/04/25
020228 04	C-6 (Composite)	04/04/16	04/04/19	04/04/21	04/04/25	04/04/25
Semi-volatiles via SW846 Method 8270						
020226 04	C-4 (Composite)	04/04/14	04/04/19	04/04/20	04/04/23	04/04/22
020227 04	C-5 (Composite)	04/04/15	04/04/19	04/04/20	04/04/23	04/04/22
020228 04	C-6 (Composite)	04/04/16	04/04/19	04/04/20	04/04/23	04/04/22
Volatiles via SW846 Method 8260						
020229 04	G-4 (Grab FP-47)	04/04/14	04/04/19	04/04/23	04/04/23	04/04/23
020230 04	G-5 (Grab ST-24)	04/04/15	04/04/19	04/04/23	04/04/23	04/04/23
020231 04	G-6 (Grab FP-23)	04/04/16	04/04/19	04/04/23	04/04/23	04/04/23

Run Date is defined as the date of injection of the last calibration standard (12 hour or less) prior to the samples analyzed within that run sequence. Therefore the time of calibration injection that defines the run date is always within 12 hours of the time of sample injection.

b) Shipping Problems: none encountered

c) Documentation Problems: none encountered

II. SAMPLE PREP:

No problems encountered

III. SAMPLE ANALYSIS:

See also comments within the appropriate Certificate of Analysis.

a) Hold Times: all within recommended hold times

b) Instrument Calibration: all within control limits

5/6/04

cahm

c) Surrogate/Internal Recoveries: except where noted otherwise, all within control limits

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. In addition, I certify, that to the best of my knowledge and belief, the data as reported are true and accurate. Release of the data contained in this data package has been authorized by the cognizant laboratory official or his/her designee, as verified by this signature.

M. Challis

Mike Challis, Project Manager

JUN 10 2004

Date

5/6/04

cahm

PROJECT NARRATIVE

PSC Analytical Services Inc (Burlington ON)
PASCI Project: AN031794
PASCI Submission #:4D0713

Client: Empire Geo-Services Inc.
Client Project: BEU-03-040,04-004

I. SAMPLE RECEIPT/ANALYSIS

a) Sample Listing

Philip ID	Client Sample ID	Date Sampled	Date Received	Date Prepped	Run Date
Cyanide via SW846 Method 9010					
020226 04	C-4 (Composite)	04/04/14	04/04/19	04/04/21	04/04/26
020227 04	C-5 (Composite)	04/04/15	04/04/19	04/04/21	04/04/26
020228 04	C-6 (Composite)	04/04/16	04/04/19	04/04/21	04/04/26
pH via SW846 Method 9045					
020226 04	C-4 (Composite)	04/04/14	04/04/19	04/04/21	04/04/23
020227 04	C-5 (Composite)	04/04/15	04/04/19	04/04/21	04/04/23
020228 04	C-6 (Composite)	04/04/16	04/04/19	04/04/21	04/04/23
Mercury via SW846 Method 7471					
020226 04	C-4 (Composite)	04/04/14	04/04/19	04/04/22	04/04/22
020227 04	C-5 (Composite)	04/04/15	04/04/19	04/04/22	04/04/22
020228 04	C-6 (Composite)	04/04/16	04/04/19	04/04/22	04/04/22
RCRA Metals via SW846 Method 6010					
020226 04	C-4 (Composite)	04/04/14	04/04/19	04/04/21	04/04/23
020227 04	C-5 (Composite)	04/04/15	04/04/19	04/04/21	04/04/23
020228 04	C-6 (Composite)	04/04/16	04/04/19	04/04/21	04/04/23

Run Date is defined as the date of injection of the last calibration standard (12 hour or less) prior to the samples analyzed within that run sequence. Therefore the time of calibration injection that defines the run date is always within 12 hours of the time of sample injection.

b) Shipping Problems: none encountered

c) Documentation Problems: none encountered

II. SAMPLE PREP:

No problems encountered

III. SAMPLE ANALYSIS:

See also comments within the appropriate Certificate of Analysis.

a) Hold Times: all within recommended hold times

b) Instrument Calibration: all within control limits

5/6/04

cahm

c) Surrogate/Internal Recoveries: except where noted otherwise, all within control limits

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. In addition, I certify, that to the best of my knowledge and belief, the data as reported are true and accurate. Release of the data contained in this data package has been authorized by the cognizant laboratory official or his/her designee, as verified by this signature.

M. C

Mike Challis, Project Manager

JUN 1 0 2004

Date

cahm

5/6/04

RESUBMISSION COMMUNICATIONS

Data Validation Services

120 Cobble Creek Road P. O. Box 208
North Creek, NY 12853
Phone (518) 251-4429
Facsimile (518) 251-4428

Facsimile Transmission

TO: Mike Challis/Cheryl-Anne Miller

COMPANY: PSC

FAX NUMBER: 905 332 9169

FROM: Judy Harry

DATE: 07-19-04

No. of pages (including cover): 1

COMMENTS: RE: Empire GeoServices Hanna Furnace site
PSC Package No. 4D0713

In deriving the quantitative values for Aroclor 1262 in the samples and Aroclor 1260 in the spikes, it is observed that the "800" Aroclor 1260 standard was used in the calculations as a concentration of 400 ng/mL, but the "400" Aroclor 1262 standard was also used as a concentration of 400 ng/mL. Additionally, the calibration factors reported on the Form 6G (pg. 493) are similarly inconsistent in that the Aroclor 1262 ("400") uses areas from the "400" but the areas for Aroclors 1016 and 1260 (also saying "400") use the "800" areas. Please clarify in writing, and produce any corrected results or forms that may apply.

The results for Aroclor 1262 reported for the project samples were derived with a transcription error in the area/response factors used for the congener at 23.48' on the primary column (pg. 540). Please provide corrected results for the samples.

An expedited reply to the numbers above would be greatly appreciated. Please also send copies of all communications to Chuck Guzetta at Empire GeoServices.

PSC ANALYTICAL SERVICES Inc.

July 21st, 2004

Ms. Judy Harry
Data Validation Services
120 Cobble Creek Rd.
P.O Box 208
North Creek, NY
12853

Re: Empire Geo-Services 4D0713 Hanna Furnace Site

Dear Ms Harry:

Is response to your fax dated July 19,2004.

There was a transcription error made on the area count for the PCB peak @ 23.48 minutes. An area of 4647 was inadvertently entered instead of 9647. All affected calculation sheets and Form 1's have been corrected and a revised package will be couriered to you in the next day or so.

The five point calibration consists of aroclors 1016 & 1260 each at a concentration of 400 ng/mL, thus the reference to 800 in the standard identification. As a result 400 ng/mL for each would be used in the Form 6G. All single aroclor standards are at 400 ng/mL.

If you have any further questions please do not hesitate to contact me

Regards,

Mike Challlis
Senior Project Manager – PSC Analytical Services, Burlington

5555 NORTH SERVICE ROAD, BURLINGTON, ONTARIO, CANADA L7L 5H7 T 905 332 8788 F 905 332 9169 W www.pscanalytical.com

PSC ANALYTICAL SERVICES Inc.

Certificate of Analysis

CLIENT INFORMATION

Attention:	Chuck Guzzetta
Client Name:	Empire Geo-Services Inc.
Project:	BEU-03-040,04-004
Project Desc:	Hanna Furnace Site
Address:	5167 South Park Ave. Hamburg, NY 14075
Fax Number:	716-649-8051
Phone Number:	716-649-8110

LABORATORY INFORMATION

Contact:	Mike Challis, B.Sc, C.Chem.
Project:	AN031794
Date Received:	19-Apr-2004
Date Reported:	05-May-2004
Revised:	21-Jul-2004
Submission No.:	4D0713
Sample No.:	020225-020231

NOTES: ***"-" = not analysed "<" = less than Method Detection Limit (MDL) 'NA' = no data available***
LOQ can by determined for all analytes by multiplying the appropriate MDL X 3.33
Solids data is based on dry weight except for biota analyses.
Organic analyses are not corrected for extraction recovery standards except for isotope dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)
The enclosed copy of the Chain of Custody Record may contain information necessary for the interpretation of the data.

Methods used by PSC Analytical Services are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Twentieth Edition. Other methods are based on the principles of MISA or EPA methodologies. New York State: ELAP Identification Number 10756.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at PSC Analytical Services for a period of three weeks from receipt of data or as per contract.

COMMENTS: **Revised to correct PCB 1262 Response Factor Error**

Certified by: M. Challis

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QUALIFIED REPORT FORMS

PASC - Certificate of Analysis

Client ID:			C-4 (Compoiste)	C-4 (Compoiste)	C-4 (Compoiste)	C-4 (Compoiste)	C-5 (Compoiste)	C-6 (Compoiste)
Lab No.:			020226 04	020226 04	020226 04	020226 04	020227 04	020228 04
Date Sampled:			14-Apr-2004	14-Apr-2004	14-Apr-2004	14-Apr-2004	15-Apr-2004	16-Apr-2004
Component	**MDL**	**Units**		Duplicate	M. Spike	MS % Rec.		
Soil pH measured in water			10.69	-	-	-	9.89	11.41
Cyanide total	100	ug/kg	230 J	-	-	-	220 J	< J
Mercury	40	ug/kg	340 J	-	-	-	140 J	110 J
Arsenic	1000	ug/kg	16000 J	17000	39000	91	19000 J	17000 J
Barium	500	"	210000	220000	260000	88	160000	250000
Cadmium	500	"	3300	3400	25000	88	5500	1700
Chromium	500	"	22000	23000	63000	81	34000	25000
Lead	1000	"	82000	81000	120000	84	160000	49000
Selenium	1000	"	<2000	<2000	24000	94	<2000	<
Silver	500	"	<	<	24000	93	<	<

Cyanide via SW846 9012
Mercury via SW846 7471
Metals via SW846 6010

PASC - Certificate of Analysis

Component	MDL	Units	C-4 (Compoiste) 020226 04 14-Apr-2004	C-4 (Compoiste) 020226 04 14-Apr-2004 M. Spike	C-4 (Compoiste) 020226 04 MS % Rec.	C-4 (Compoiste) 020226 04 MS Dup	C-4 (Compoiste) 020226 04 MSD % Rec.	C-5 (Compoiste) 020227 04 15-Apr-2004	C-6 (Compoiste) 020228 04 16-Apr-2004
Client ID:									
Lab No.:									
Date Sampled:									
Aldrin	4.0	ug/kg	<	21	48	24	57	<	<
a-BHC	3.0	"	<	19	46	23	55	<	<
b-BHC	5.0	"	<	29	69	23	77	<	<
g-BHC (Lindane)	2.0	"	<	20	47	23	54	<	<
d-BHC	4.0	"	<	20	46	22	52	<	<
a-Chlordane	5.0	"	<	28	67	31	74	<	<
g-Chlordane	6.0	"	<	27	64	30	71	<	<
Isodrin	4.0	"	<	25	58	27	65	<	<
p,p'-DDD	6.0	"	<	33	76	33	77	<	<
p,p'-DDE	4.0	"	<	35	83	38	91	<	<
p,p'-DDT	9.0	"	<	22	53	25	59	<	<10.0
Dieldrin	6.0	"	<	27	64	30	70	<	<
a-Endosulfan	3.0	"	<	26	62	29	68	<	<
b-Endosulfan	8.0	"	<	29	67	32	75	<	<9.0
Endosulfan Sulfate	5.0	"	<	23	54	27	63	<	<
Endrin	3.0	"	<	35	82	38	89	<8.0	<
Endrin Ketone	5.0	"	<	25	59	27	64	<	<
Endrin Aldehyde	4.0	"	<	17	39	12	28	<	<
Heptachlor	4.0	"	<	23	54	28	67	<	<
Heptachlor Epoxide	3.0	"	<	24	56	26	61	<	<
Methoxychlor	25	"	<	120	69	130	74	<	<27
Mirex	7.0	"	<	66	77	71	84	<	<8.0
Toxaphene	100	"	<	NS	-	NS	-	<	<
Surrogate Recoveries		%							
4,4'-Dibromooctaflourobiphenyl			54	56	56	63	63	68	66
Decachlorobiphenyl			85	78	78	84	84	82	73

Pesticides via SW846 8081

PASC - Certificate of Analysis

			C-4	C-5	C-6	C-6	C-6	C-6	C-6
	Client ID:		(Composite)	(Composite)	(Composite)	(Composite)	(Composite)	(Composite)	(Composite)
	Lab No.:		020226 04	020227 04	020228 04	020228 04	020228 04	020228 04	020228 04
	Date Sampled:		14-Apr-2004	15-Apr-2004	16-Apr-2004	16-Apr-2004	16-Apr-2004	16-Apr-2004	16-Apr-2004
Component	**MDL**	**Units**				M. Spike	MS % Rec.	MS Dup	MSD % Rec.
Aroclor-1016	38	ug/kg	< 205	< 160	<43 < 230	510	86	690	100
Aroclor-1221	41	"	<	<	<47	<	<	<	<
Aroclor-1232	38	"	<	<	<43	<	<	<	<
Aroclor-1242	50	"	<	<	<57	<	<	<	<
Aroclor-1248	31	"	<	<	<35	<	<	<	<
Aroclor-1254	59	"	<	<	<67	<	<	<	<
Aroclor-1260	31	"	<	<	<35	620	110	760	110
Aroclor-1262	31	"	90 J	110 J	<35	<	<	<	<
Aroclor-1268	49	"	< <205	< <160	<	<	<	<	<
Total PCB	59	"	90	110	<67	1100	96	1500	110
Surrogate Recoveries		%							
4,4'-Dibromooctaflourobiphenyl			67	49	49	61	61	74	74
Decachlorobiphenyl			98	74	70	84	84	102	102

PCB via SW846 8082

	Client ID:	G-4 (Grab FP-47)	G-5 (Grab ST-24)	G-6 (Grab FP-23)
	Lab No.:	020229 04	020230 04	020231 04
	Date Sampled:	14-Apr-2004	15-Apr-2004	16-Apr-2004
Component	MDL Units			
Acetone	20 ug/kg	22 J	27	<30 J
Acrolein	10 "	<	< J	<15
Acrylonitrile	10 "	<	<	<15
Benzene	1.0 "	<	3.0	<2.0
Bromoform	1.0 "	<3.0	<	<5.0
Bromomethane	6.0 "	<	<	<90
2-Butanone	5.0 "	<	<	<8.0
Carbon Disulfide	1.0 "	5.0	4.0	6.0
Carbon Tetrachloride	1.0 "	<	<	<2.0
Chlorobenzene	1.0 "	<	<	<2.0
Chlorodibromomethane	1.0 "	<	<	<2.0
Chloroethane	1.0 "	<	<	<2.0
Chloroform	1.0 "	<	<	<2.0
Chloromethane	1.0 "	<	<2.0	<4.0
1,2-Dichlorobenzene	1.0 "	<3.0	<	<5.0
1,3-Dichlorobenzene	1.0 "	<3.0	<	<5.0
1,4-Dichlorobenzene	1.0 "	<3.0	<	<5.0
Dichlorobromomethane	1.0 "	<	<	<2.0
1,1-Dichloroethane	1.0 "	<	<	<2.0
1,2-Dichloroethane	1.0 "	<	<	<2.0
1,1-Dichloroethene	1.0 "	<	<	<2.0
Dichloromethane	20 "	<	<	<30
Methyl-t-butylether	1.0 "	<	<	<2.0
Ethylene Dibromide	1.0 "	<	<	<2.0
1,2-Dibromo-3-Chloropropane	5.0 "	<15	<	<23
cis-1,2-Dichloroethene	1.0 "	<	<	<2.0
trans-1,2-Dichloroethene	1.0 "	<	<	<2.0
1,2-Dichloropropane	1.0 "	<	<	<2.0
cis-1,3-Dichloropropene	1.0 "	<	<	<2.0
trans-1,3-Dichloropropene	1.0 "	<	<	<2.0
Ethylbenzene	1.0 "	<	<	<2.0
2-Hexanone	5.0 "	<	<	<8.0
4-Methyl-2-Pentanone	5.0 "	<	<	<8.0
Styrene	1.0 "	<	<	<2.0
1,1,1,2-Tetrachloroethane	1.0 "	<	<	<2.0
1,1,2,2-Tetrachloroethane	1.0 "	<3.0	<	<5.0
Tetrachloroethene	1.0 "	<	<	<2.0
Toluene	1.0 "	1.0	4.0	<2.0
1,1,1-Trichloroethane	1.0 "	<	<	<2.0
1,1,2-Trichloroethane	1.0 "	<	<	<2.0
Trichloroethene	1.0 "	<	<	<2.0
Trichlorfluoromethane	1.0 "	<	<	<2.0

Edit:
* Reporting limits for "<1" are to be: C-4 "<2.3 ug/kg"
C-5 " 2.7 "
C-6 " 3.5 "

Component	MDL	Units	Client ID: G-4 (Grab FP-47)	G-5 (Grab ST-24)	G-6 (Grab FP-23)
			Lab No.: 020229 04	020230 04	020231 04
			Date Sampled: 14-Apr-2004	15-Apr-2004	16-Apr-2004
Vinyl Chloride	1.0	ug/kg	< J	<	<2.0 J
m&p-Xylene	1.0	"	<	1.0 J	<2.0
o-Xylene	1.0	"	<	<	<2.0
Isopropylbenzene	1.0	"	<3.0	<	<5.0
Surrogate Recoveries		%			
d4-1,2-Dichloroethane			75	76	81
d8-Toluene			115	98	109
Bromofluorobenzene			70	77	73
d10-Ethylbenzene			16	36	21

VOC via SW846 8260

* See edit previous page

PASC - Certificate of Analysis

	Client ID:		C-4 (Composite)	C-5 (Composite)	C-6 (Composite)	C-6 (Composite)
	Lab No.:		020226 04	020227 04	020228 04	020228 04
	Date Sampled:		14-Apr-2004	15-Apr-2004	16-Apr-2004	16-Apr-2004
Component	**MDL**	**Units**				M/ Spike
Benzo(a)pyrene	50	ug/kg	370 J	340 J	<100	NS
Indeno(1,2,3-cd)pyrene	60	"	340 J	370 J	<120	NS
Dibenzo(a,h)anthracene	60	"	<120	<120	<120	NS
Benzo(ghi)perylene	50	"	320 J	360 J	<100	NS
N-Nitrosodimethylamine	1000	"	<2000	<2000	<2000	NS
Aniline	500	"	<1000	<1000	<1000	NS
Benzyl alcohol	500	"	<1000	<1000	<1000	NS
Carbazole	500	"	<1000	<1000	<1000	NS
2-Methylphenol	500	"	~~<1000~~ R	~~<1000~~ R	~~<1000~~ R	NS
3&4-Methylphenol	500	"	~~<1000~~ R	~~<1000~~ R	~~<1000~~ R	NS
Benzoic acid	500	"	~~<1000~~ R	~~<1000~~ R	~~<1000~~ R	NS
4-Chloroaniline	500	"	<1000	<1000	<1000	NS
2-Methylnaphthalene	340	"	3200	1400	<680	NS
2,4,5-Trichlorophenol	100	"	~~<200~~ R	~~<200~~ R	~~<200~~ R	NS
2-Nitroaniline	500	"	<1000	<1000	<1000	NS
3-Nitroaniline	500	"	<1000	<1000	<1000	NS
Dibenzofuran	500	"	<1000	<1000	<1000	NS
Benzidine	500	"	<1000 J	<1000 J	<1000 J	NS
4-Nitroaniline	500	"	<1000	<1000	<1000	NS
Surrogate Recoveries		%				
2-Fluorophenol			9.0	7.0	29	39
d5-Phenol			28	27	51	62
d5-Nitrobenzene			80	92	80	77
2-Fluorobiphenyl			90	109	88	91
2,4,6-Tribromophenol			11	9.0	16	23
d14-p-Terphenyl			95	124	107	107

SVOC via SW846 8270

* See edit prev. page