

# **Soil Classification Log and Notes**

APPENDIX

**C**

**Soil Classification Log and Notes: Location Map**

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**Results:**

The attached figure, Figure 2: Subsurface Exploration Plan, is from the EmpireGeo Services, Inc. report titled Soil/Fill Characterization Report, Proposed CertainTeed Manufacturing Plant & Offices (February 2004). The figure illustrates the locations of the excavations detailed in this Appendix.

**SUBSURFACE  
 EXPLORATION PLAN**

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

PROJ NO.: BEV-03-040

FIGURE NO.: 2


DR BY: WP


DATE: 01/05/04


CK BY: CG

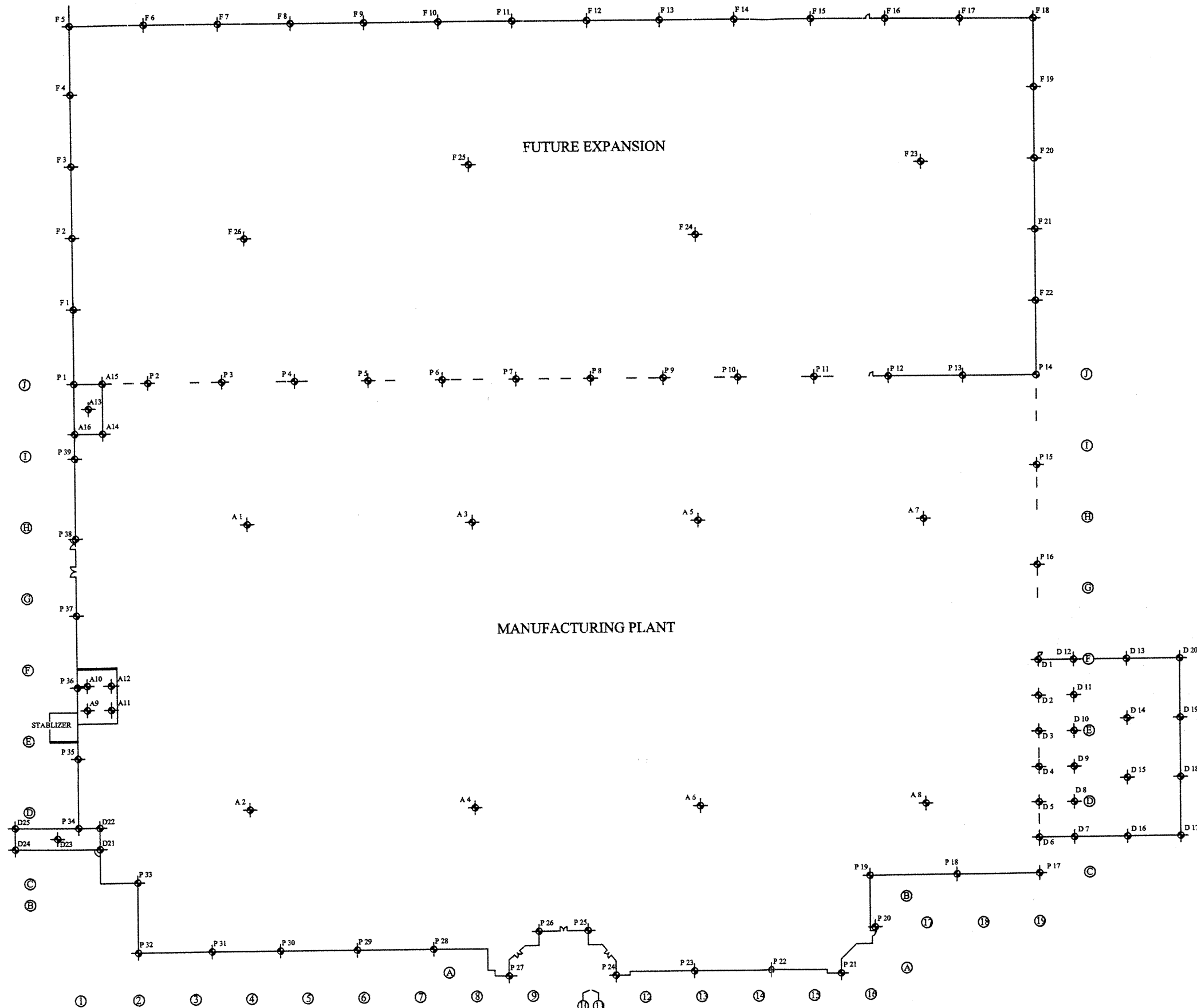
SCALE: 1:80

**NOTES:**

-  INDICATES APPROXIMATE TEST BORING LOCATION
- (A) INDICATES INTERIOR TEST BORINGS
- (P) INDICATES PERIMETER TEST BORINGS
- (D) INDICATES DOCK TEST BORINGS
- (F) INDICATES FUTURE EXPANSION TEST BORINGS

 TRUE NORTH

 JOBSITE NORTH





4 Centre Drive Orchard Park, New York 14127 Tel: 716-667-1234 Fax: 716-667-1258

- 3.4.04 Dug interior Piers I/16 → I/3  
Bottom of Holes Tamped by E. Lorenz  
w/ NPK C-6B Compactor
- 3.5.04 Dug Foundation From G/19 → J/19 } tamped  
From J/19 → J/16 }  
INT. Piers H/18 → H/3
- 3.6.04 Shut Down by building Dept.
- 3.11.04
- 3.12.04 Concrete poured in existing Holes no new digs
- 3.15.04 Dug Found. From C.7/1.3 → C.7/0.0 } tamped  
From C.7/0.0 → E/0.0 }
- 3.16.04 Dug INT. Piers G/3 → ~~G/3~~ G/7 } tamped
- 3.17.04 Dug INT Piers G/8 → G/18 } tamped  
INT. Piers F/8 → F/14 }
- 3.18.04 Dug INT. Piers F/3 → F/3 } tamped  
Dug " " E/3 → E/7 }
- No concrete ~~work~~ work on setting up wall C.7/1.3 → C.7/0.0  
C.7/0.0 → E/0.0
- 3.19.04 No concrete - pouring wall C.7/1.3 → C.7/0.0 → ~~E/0.0~~  
Digging INT Piers E/8 → E/18  
D/8 → D/13
- .22.04 No concrete Pouring footer F/0.0 → I/0.0  
Digging 4 trench F/0.0 → I.5/0.0  
INT Piers D/3 → D/3  
C/15 → C/11



# The Krog Corp.

JOB \_\_\_\_\_ KC

DATE \_\_\_\_\_ SHEET NO \_\_\_\_\_

4 Centre Drive

Orchard Park, New York 14127

Tel: 716-667-1234 Fax: 716-667-1258

3.23.04

Norcate Set-up wall F/00 → I.5/0.0  
Dig pros C9 → C3  
pros B15 → B3

3.26.04

HAZWOPER training

3.27.04

HAZWOPER training

3.29.04

HAZWOPER training

3.30.04

Norcate Set-up wall ~~F/00~~  
Poured wall J17 → J19  
J19 → H19

Lorenz - water control  
NO Digging today  
Krog - Set-up site

3.31.04

Norcate - Strip wall J17 → J19, J19 → H19

Lorenz - Dig ~~C7/1.3~~ → C7/1.3 → C1/1.3 → C2 → B2

Krog - ~~Strip~~ Poured footer C7/1.3 → C1/1.3 → C2 → B2

4.1.04

Norcate - Poured wall H19 → G19

Lorenz - Dig J16 → J14

Krog - Poured footer J16 → J14

4.2.04

~~Lorenz~~  
Norcate - Set-up: Poured wall C7/1.3 → C1/1.3 → C2 → B2

Lorenz - Water Control - Backfill H19 → G19

Krog - Water Control - Strip wall H19 → G19  
Set-up wall till strip

Soil or Rock Classification

Date	Time	Location	Classification	Notes
3.4.04	2:00pm	I-16	Gray slag	
		I-15	Gray slag	
		I-14	Gray slag	
		I-13	Gray slag	
		I-12	"	
		I-11	"	
		I-10	"	
		I-9	"	
		I-8	"	
		I-7	Brown silt Brown slag	
		I-6	"	
		I-5	"	
		I-4	"	
		I-3	"	Water present
3.5.04	9:30 AM	G19-I 19	Red-Brown clay Brown silt T. Tan foundry Sand	
	10:00	I 19-J 19	Brown silt Gray slag Tan foundry Sand	
	11:00	J19-J16	Brown silt Gray slag Tan foundry Sand	
	11:30	H-18	Gray slag	
		H-17	"	
		H-16	"	

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Soil or Rock Classification

Date	Time	Location	Classification	Notes
3.5.04	11:30	H-15	Gray Slag	
		H-14	"	
		H-13	"	
		H-12	"	
		H-11	"	
		H-10	"	
		H-9	"	
		H-8	"	
		H-7	Brown Silt Brown Slag	
		H-6	"	
		H-5	"	
		H-4	"	
		H-3	"	
3.12.04	—		No Digging Done Today	
3.15.04	9:30	C.7/0.0 to E.5/0.0	Slag Black Cinders Brown Sandy Clay	Digging started @ 9:30 NO WATER
		C.7-0.0 → C7. 1.3	Slag Black Cinders Brown Clay Sand	Water Found
		C.7/0.0 → E/0.0	Gray Slag Black Cinders	NO WATER
		E/0.0 → E.5/0.0	Gray Slag Reddish Brown Cinders	Water Found End of EXCAV. For the Day
3.16.04	9:30	G3	Br. Cinders	NO WATER
	9:45	G4	Br. Cinders / Tan Foundry Sand	NO WATER

Soil or Rock Classification

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Date	Time	Location	Classification	Notes
3.16.04	10.00	G5	Brownish Black cinders	NO WATER
"	10.15	G6	Brownish black cinders Tan Foundry Sand	NO WATER
"	10.30	G7	Brown Cinders Brown Slag	NO WATER 10.45 END of Dig for Today
3.17.04	10.45	G8	Black Brown-cinders Brown Slag	NO WATER
		G9	"	"
		G10	"	"
		G11	"	"
		G12	"	"
		G13	"	"
		G14	"	"
		G15	"	"
		G16	"	"
		G17	"	"
		G18	"	"
3.17.04	2.00	F14	Br. slag Br. cinders White Cinders	"
		F15	"	"
		F16	Brown cinders Brown Slag Gravel	"
		F17	Reddish Brown Cinders Brown Slag	"
		F18	"	"



Soil or Rock Classification

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Date	Time	Location	Classification	Notes
3-18-04	9:00	F/12	Br. & Gr Slag Br. Cinders	No water
	9:15	F/11	" "	Water Found
	9:30	F/10 & F/9	" "	No water
	10:00	F8	Br & Gr Slag Reddish Br. Cinders	Water Found
	10:15	F7	" " "	No water
	10:30	F6	Br. Slag Br. Cinders Tan Foundry Sand	No water
	11:00	F5	" " "	No water
	11:15	F4	Br Slag Br Cinders Blue Concrete	No water
	11:30	F3	Br. Slag Br cinders	No water
3-18-04	1:00 → 2:00	E3 → E8	" "	No water
3-19-04	11:00	E9 → E11	" "	No water
		E12	Br. Slag Br. Cind. Fine Slag	No water
		E13 → E15	Br. Slag Br. cind Greenish Gray slag	No water
		E16, E17, E18	Br. Slag Br & Gray Cind.	No water
	2:00	D18	Br. slag & Cind. Gray Slag	No water
		D17	Br Slag & Cind Gray Slag Tan Foundry Sand	Water Found
		D16	Br slag & Cind. Gray slag, Fine Slag	No Water
		D15	Br. Slag & Cind Gray Slag Tan foundry Sand	Water Found
		D14	Br. Slag & Cind Gray Slag	No water
		D13	Br. Slag & Cind Gray slag, Tan Foundry Sand	No water

Soil or Rock Classification

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Date	Time	Location	Classification	Notes
3.22.04	10:00	G 0.0	Brownish Black Cinders Gray Clayie Sand	Wall
"	10:00	H 0.0	Tan Sand Gray Clayie Sand	"
"	10:30	I 0.0	Gray Clayie Sand Orange Cinders, Br/B Cinders	"
"	10:30	I.5/0.0	Gray Slag, Gray Cinders Br. Cinders	"
3.23.04	10:00	C9 → C3	Brownish Black Cinders Br Slag	press
	2:00	B15 → 8	" " " "	"
3.30.04	10:00	NO Digging Today		
3.31.04	10:00	C7/1.3	Blackish/gray cinders Gray clay	
	10:30	C 1/1.3	"	Low Deck 5' Deep
	10:45	C 1/2	"	
	11:00	B 1/2	"	
4.5.04	10:30	NO New rigs		
4.6.04	2:00	I.5/0.0 → J0.0	Blue Slag Br Cinders Gray clay	Regrind hit found sensor line Little water
4.7.04				
4.8.04				
4.9.04				
4.10.04				
4.13.04				
4.14.04				
4.15.04				

Soil or Rock Classification

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Date	Time	Location	Classification	Notes
4.16.04				
4.19.04				
4.20.04				
4.21.04	2:30	A3/5	oily black Ash like cinders w/ Black Stone	oily film on water WBK stopped in area until testing complete
4.21.04		A3/4 → A3/2	Gray Slag, Gray Cinders tan Foundry Sand	
4.21.04		A3/2 → C/2	" "	
4.22.04		NO NEW DIGS		
4.23.04		North parking lot Area	Brown soil, Gray Slag, Metal Fragments, Bluish Black, Worn Metal Deposits	
4.26.04	9.15	A3/6.5 → A3/7.5	Oily black Ash like cinders w/ Black Stone, oily sheen on water at top of water sheen was silvery in appearance mud was mixed with brown stained fluid that mixed with water, silvery sheen evaporated quickly.	Oily soil was placed on plastic oily trench water was pumped to the ground
		A3/7.5 → A3/8.1	Brown slag, Brown Cinders, Metal debris, old cables, Blue slag	
		A3/8.1 → A/8.1	Brown Slag, Brown Cinders, tan Foundry sand	
		A/8.1 → A/8.5	Brown Slag, Brown Cinders, tan Foundry Sand, Blue Slag	
		A/8.5 → A.4/9	Brown Slag, Brown Cinders, tan Foundry Sand, Blue Slag	
4.27.04		NO NEW DIGS		
4.28.04		NO NEW DIGS		
4.29.04		NO NEW DIGS		
4.30.04		S.S.O. NOT on site today		

RE Lorenz came after hours & cut new line way into Blvd

### Soil or Rock Classification

Date	Time	Location	Classification	Notes
5.3.04	10:15	A/10	Brown Slag Brown Cinders Tan Foundry Sand Bluish green hard slag	
	11:00	A/12	Brown Slag Brown Cinders tan Foundry Sand Bluish green hard slag Gray clay	
	12:30	A/13.5	Br Cinders tan Foundry Sand Bluish Green Slag	
	12:45	A/15 → C/16	Brown Cinders Orange Cinders Tan Foundry Sand	
5.4.04	-	NO NEW	digs today	
5.5.04				
5.6.04	-	NO NEW	digs today	
5.7.04	-	NO NEW	digs	
5.8.04				
5.10.04		C/17	Brownish Black Cinders Gray Foundry Sand Tan Foundry Sand Gray slag	
		C/18	Brownish Black Cinders Tan Foundry Sand Gray Foundry Sand Black Slag/Cinders	HIT old PIPE (≈ 4" pipe) No Discharge seen
		C/19	Brownish Black Cinders Tan Foundry Sand Greenish Blue slag/sand	
		D/19	" " "	
		E/19	Brownish Black Cinders / soil Tan Foundry Sand Greenish Blue Slag/Sand	
		F/19	Brownish Black Cinders Tan Foundry Sand Greenish Blue Slag/Sand	HIT old PIPE (≈ 8" pipe) No Discharge seen
5.11.04		Building Footers	Completed	
5.12.04		NO NEW	digs	
5.13.04	2.30pm	C/1 retaining wall	BROWNISH CLAY, SLAG - BLACK CINDERS	

Soil or Rock Classification

Date	Time	Location	Classification	Notes
5-14-04	8:00 AM	NORTHEAST BIRM	Sand, BLACK + GRAYISH CINDERS	
5-17-04			NO NEW DIGS	
5-18-04	8.15	NORTHEAST BIRM	sand, BLACK + GRAYISH CINDERS	
5-18-04	11:00 till quit	Cut n. east Loop rd. Balance + shaping for Capping	Black + GRAYISH CINDERS	
5-19-04	1:30	Cut n. east Loop rd. Balance and shaping	Black, + GRAYISH CINDERS	
5-20-04			NO NEW DIGS	
5-21-04			NO NEW DIGS	
5-24-04	8:00	Loop rd. South east to east side of Building	BLACK CINDERS - TANISH SAND	
5-25-04		Dig for Silo Pad (East side)	Black cinders, Slag, tanish clay, sand	
5-26-04		Dig for Silo Pad (east side)	Black Cinders, Slag, tanish clay, sand	
5-27-04			NO DIGS	
5-28-04			GRADE 'N' STONE DRIVEWAYS AND PARKING LOTS NORTH	
6-1-04			" " " "	
6-2-04			" " " "	
6-3-04	1:00 PM	A.3/6 MKS KANDY, PUMPKINS	SLAG, BLACK GRAYISH CINDERS	DIGGING NORTH TO SOUTH
6-4-04	8:00 AM	" "	" "	" "
6-7-04	12:30 PM	A.3/6 MKS KANDY	SLAG BLACK CINDER BROWNISH CLAY	" "
6-7-04	8:00 AM	" "	" "	" "
6-8-04	ALL DAY	" "	" "	" " DIGGING
6-9-04	8:00 AM	MKS - North west corner	SLAG BROWNISH - GRAY CINDERS	WEST TO EAST

Soil or Rock Classification

Date	Time	Location	Classification	Notes
6.9.04	8:00AM	KANDY - Northeast Corn.	Brown soil, BLACK CINDERS	
6.10.04	8:30AM	KANDY J 8	SLAG BLACK CINDER BROWNISH SOIL	
6.10.04	8:30AM	MKS NORTHWEST CORN.	BROWNISH CLAY, SLAG BLUEISH SOIL	
6.11.04	7:30 AM	MKS - KANDY H 7 (INTERIOR OF BUILDING)	BLACKISH CINDERS, SLAG Foundry sand	Hit old concrete Hit an old chunk of iron/steel
6.14.04	7:30AM	MKS - KANDIE H 4 → north	SLAG, BROWNISH cinders tanish sand	
6.14.04	9:30AM	LORENZ - EXTERIOR OF BUILDING I 0.0	SLAG, BLACK CINDERS	
6.14.04	11:30AM	LORENZ TO H 0.0 INTERIOR I 0.0 H 0.0	SLAG, BLACK CINDERS, sand brown clay	
6.15.04	8:00AM	MKS - KANDIE H 9 GOING EAST	SLAG - BLACKISH-GRAY CINDERS - GRAYISH SOIL	
6.16.04	9:00AM	MKS KANDIE F 6 → EAST	BROWNISH SOIL, SLAG SAND	
6.17.04	7:30AM	MKS - KANDIE A.3 8.3	Brownish soil, Blueish slag Gray cinders	
6.17.04	11:00AM	MKS - KANDIE C 11	GRAYISH SLAG, BLACK-N-GRAY CINDERS. Orange sediment, sand	
6.21.04	7:30AM	MKS KANDIE A.3 4	SLAG, BLACK CINDERS	
6.22.04	9:00AM	MKS KANDIE G.3 → WEST	SAND, BLACK + BROWN CINDERS	very shallow dig
6.22.04	10:00AM	LORENZ (for Freedman) I 2	BLACK + BROWN CINDERS SAND	very shallow dig
6.23.04	11:00AM	MKS - KANDIE F 3 → DIGGING WEST	SLAG, BLACK-N-GRAY CINDERS	
6.24.04	9:00AM	MKS - KANDIE INTERIOR OF BUILDING	SLAG, BLACKISH BROWN CINDERS.	
6.24.04	10:00AM	LORENZ G/2 / F/2	SLAG, SAND, GRAVEL BROWN CINDERS	
6.24.04	11:00AM	MKS - KANDIE J 4.5 → NORTH	SLAG & BLACK SOIL, GRAY CINDERS,	

### Soil or Rock Classification

Date	Time	Location	Classification	Notes
6.25.04	8:00AM	MKS - KANDIE INTERIOR BUILDING	SLAG, BLACKISH GRAY CINDERS, BROWNISH	(CATCH BASINS)
6.28.04	8:30 AM	" "	" "	" "
6.29.04	8:00AM	MKS - KANDIE E10.0	SLAG, BLACK N GRAY CINDERS, CLAY	
6.30.04		NO NEW DIGS		
7.1.04		NO NEW DIGS		
7.2.04		NO NEW DIGS		
7.6.04	10:00AM	MKS - KANDIE INTERIOR OF Building	SLAG, BLACK and GRAY CINDERS	
7.7.04	NO	NEW DIGS		
7.8.04	11:00AM	MKS - KANDIE Northeast Corner Digging South ↓	SLAG, BLACK CINDERS orangish clay, BLUEISH GRAY	
7.9.04	7:00AM	" "	SLAG, BLACK CINDERS Foundation and concrete	
7.12.04	9:00AM	Lorenz (DIGGING for Freedman Elec.)	BLACK CINDERS (very shallow dig)	
7.13.04		NO NEW DIGS		
7.14.04		NO NEW DIGS		
7.15.04		NO NEW DIGS		
7.19.04		NO NEW DIGS		
7.20		NO NEW DIGS		
7.21		" "	" "	
7.22		" "	" "	
7.23		NO NEW DIGS		
7.26.04		NO NEW DIGS		

Soil or Rock Classification

Date	Time	Location	Classification	Notes
7/27/04		NO	NEW DIGS	
7/28/04		NO	NEW DIGS	
7/29/04		NO	NEW DIGS	
7/30/04		NO	NEW DIGS	
8/2/04		Lorenz DIGGING + STONING		retention pond, so we can pump water.
8/3/04		no	new digs	
8/4/04		no	new digs	
8/5/04		no	new digs	
8/6/04		no	new digs	
8/9/04				
8/10/04	morn.	KANDIE, DUBHOLE TO DRAIN INTO	FILL, SLAG, GRAY CINDERS	
8/11/04	morn.	KANDIE. H/19 → DIGGING SOUTH	SLAG, BLACK N GRAY CINDERS	
8/12/04	morn.	NO NEW DIGS		
8/13/04	morn.	H/19 → H/17	SLAG, GRAY + BLACK CINDERS	SHALLOW DIG
8/16/04	morn.	NO NEW DIGS		
8/17/04	morn.	Northwest corner of Jobsite, DIGGING EAST	WHITE SAND, BLACK CINDERS foundry sand, BLUE CINDERS SLAG	DIGGING SANITARY LOTS OF WATER
8/18/04	Morn.	" "	" "	" "
8/19/04	morn.	" "	" "	" "
8/20/04	morn.	" "	" "	" "
8/23/04	morn.		BLACK CINDER, SLAG. BLUISH CINDERS	" "



### Soil or Rock Classification

Date	Time	Location	Classification	Notes
8/24	morn.	Northwest corner	BLACK CINDERS, SAND BLUE CLAY, SLAB	DIGGING EAST
8/25	morn.	C/18 EXT.	SAND, white cinders BLUE CLAY, SLAB	" "
8/26	morn.	A/16 (EXT.)	SAND, POPCORN SLAB, BLUE + GRAY CINDERS	" "
8/27	morn.	A/12	SAND, SLAB, BLUE + BROWN CINDERS	" "
8/31/04	morn.	A/10	Brown + Clay Blue + Black cinders, SLAB, small amount of popcorn slag	" "
9/1/04	morn.	A.3/6	Clay, BLACK N GRAY CINDERS SLAB,	
9/2/04	morn.	South east corner - (EXT.)	Blue slag, TAN + BROWN cinders, sand	Digging North
9/3/04	morn	" "	" "	" "
9/7/04	morn.	D.5/0.0	GRAY CINDERS, SLAB CLAY	" "
9/8/04	morn.	North east corner (Ext)	" "	" "
9/9/04		no new	diggs (everything flooded)	
9/10/04		no new	diggs	
9/13/04	morn.	Kandey - north drive	Cleaner Slag, Clay.	Digging west
9/13/04	mid morn.	Lorenz - for freedman east driveway	Blueish slag Black cinders	Short digg to UT pole
9/14/04	morn.	Kandey north driveway	SLAB, BLACK CINDERS	Digging west
9/16/04	morn.	A/16 (EXT.)	SLAB, BLACK N GRAY cinders	Digging near North west corner of building
9/17/04	morn.	West Driveway	" BLUEISH CINDERS	Digging South
9/20/04	10:25 AM	" "	Brown topsoil, SLAB, white Cinders + Black cinders	" "
9/21/04	morn.	South west corner	Foundry sand, Blueish white Slag, Black cinders	Digging South west
9/22/04	11:00 AM	West drive way	Blueish white Slag, some popcorn slag, Black, TAN cinders	Digging towards the Building

### Soil or Rock Classification

Date	Time	Location	Classification	Notes
9/23/04	morn.	West driveway near load docks	White Slag, Black and tan cinders	Digging near load docks
9/24/04	morn.	North west corner	Slag, Black, Blue+tan Cinders	Digging near west driveway.
9/27/04		no new	digs	
9/28/04				
10/29/04				
10/30/04	Lorenz morn.	new r. road. near east birm	Dirt, Dark clay, gravel.	Digging Piers for r. road
11/30/04	Lorenz 1:00pm	Pump house. North west corn.	Blue slag, clay. Sand. Brown cinders	Shallow dig 3 FT 6"
01/1/04		no new	digs	
01/4/04	KANDEY MORN	West loading Docks	Slag, Blue + white cinders, clay	Catch Basins
10/5/04	" "	" "	" "	Catch Basins
10/6/04	10:00 AM	" "	Slag, Blue - white - Black cinders, some gravel	Catch Basins
10/7/04		no new	digs	
01/8/04	Kandey	Northwest corner of site	Blue slag, Brown cinders Brown Soil	Storm sewers
10/11/04	Kandey	" "	" "	" "
10/14/04	Kandey	West driveway, Digging towards northwest corner of building	Blue + white Slag, white and Black cinders	" "
10/15/04	Kandey 11:00am	North driveway	White Slag, LIGHT BROWN DIRT Sand, gray clay.	" "
01/18/04	Kandey morn.	" "	Blue + white Slag, Sand. tan cinders, some clay	Shallow dig, minimal water.
10/19/04	" "	" "	SLAG, BLACK CINDERS, CLAY	Shallow dig, no water at all.
10/26/04		North driveway (northeast corner)	CLAY	" "
01/21/04	Kandey morn.	Northwest corner	Blue + Tan Slag Black cinders	Storm sewers

Soil or Rock Classification

Date	Time	Location	Classification	Notes
10/22/04	Kandey morn.	Southwest corner	SLAG, BLACK CINDERS, DIET	STORM SEWER
10/25/04	" "	" "	Tan slag, black and white cinders, sand	" "
10/26/04	" "	Southwest corner (digging east)	SLAG, some popcorn slag, foundry sand, Blue cinders	" "
10/27/04	" "	middle of South Parking lot	SLAG, BLACK, GRAY, TAN cinders, dark brown clay	" "
10/28/04	Kandey morn.	Northeast corner. Digging south	SLAG, BLACK N GRAY CINDERS, some gravel	" "
10/29/04	Kandey morn.	North driveway Digging towards office area	Blue n Gray slag, Brown soil white cinders, Dark Black cinders	" "
11/1/04	Kandey morn.	Pump house	Dark slag, Blue + white slag, Black, blue, gray cinders, Foundry sand	Pumphouse
11/2/04	Kandy morn	near Pumphouse	" "	Pumphouse
11/3/04	Kandey morn	" "	" "	" "
11/4/04	Kandey morn.	middle of South Parking lot	Slag, Dark Brown Clay sand, white cinders	Storm sewer
11/5/04	Kandey morn.	" "	Slag, Dark Brown clay black cinders	Storm Sewer
11/8/04		no new digs		
11/9/04	Kandey morn	West driveway	Slag, Black n tan cinders	Catch Basin
11/10/04	Kandey morn	Southwest corner	slag, some popcorn slag, Brown cinders, sand	
11/11/04		no new digs		
11/12/04	Kandey morn.	West driveway near load docks	slag, black and gray cinders	
		Intrusive	Work complete.	