
Appendix A

Drilling Logs (Soil Borings, Monitoring Wells) and Trench Logs

Drilling Log

Project Name City of Mnt. Iron - USX Property		Project Number 0754-05		Boring Number B-1						
Ground Elevation		Location OD-1		Page 1 of 1						
Air Monitoring Equipment				Total Footage 11.0'						
Drilling Type HSA		Hole Size 4.25	Overburden Footage		Bedrock Footage	No. of Samples				
Drilling Company Twin Ports Testing			Driller (s) Tony Turri							
Drilling Rig			Type of Sample SS							
Date 5/15/03		To:		Field Observer (s) Brian Hayden						
Depth (Feet)	Description	Class	Blow Counts	Recov.	Run/ Time	Sample Desig.	PID (ppm)			Remarks/ Water Level
							BZ	BH	S	
1										
2	2'-3.5' 6" -Dark reddish brown fine grained sand (tailings) 6" - Ash, cinders, glass fragments		1,2,2	1					0	
3										
4										
5	4.5'-6' 7" - Same As Above (SAA) dry 7" - Light Brown clay with trace med grained sand - dry		2,3,2	1.2					0	
6										
7										
8	7'-8.5' SAA		4,9,10	1.5					0	
9										
10	9.5'-11' SAA		4,2,12	1.5					0	
11										
12										
13										
14										
15										
16										
17										

BZ - Breathing Zone, BH - Bore Hole, S - Sample

Drilling Log

Project Name City of Mnt. Iron - USX Property		Project Number 0754-05	Boring Number B-2	
Ground Elevation	Location OD-1 center		Page 1 of 1	
Air Monitoring Equipment			Total Footage 16.5'	
Drilling Type HSA	Hole Size 4.25	Overburden Footage	Bedrock Footage	No. of Samples
Drilling Company Twin Ports Testing		Driller (s) Tony Turri		
Drilling Rig		Type of Sample SS		
Date 5/15/03	To:	Field Observer (s) Brian Hayden		

Depth (Feet)	Description	Class	Blow Counts	Recov.	Run/ Time	Sample Desig.	PID (ppm)			Remarks/ Water Level
							BZ	BH	S	
1										
2	2'-3.5' Reddish brown clay with trace fine-med grained sand		2,3,6	1.2					0	
3										
4										
5	4.5'-6' Same As Above (SAA)		3,6,10	1.4					0	
6										
7										
8	7'-8.5' SAA		3,8,12	1.3					0	
9										
10	9.5'-11' SAA		4,5,10	1.4					0	
11										
12										
13	12'-13.5' SAA		2,4,7	1.2					0	
14										
15	14.5'-16' SAA		2,5,6	1.5					0	
16										
17										

BZ - Breathing Zone, BH - Bore Hole, S - Sample

Drilling Log

Project Name City of Mnt. Iron - USX Property		Project Number 0754-05		Boring Number B-3						
Ground Elevation		Location OD-1		Page 1 of 2						
Air Monitoring Equipment				Total Footage 21'						
Drilling Type HSA		Hole Size 4.25	Overburden Footage	Bedrock Footage	No. of Samples					
Drilling Company Twin Ports Testing			Driller (s) Tony Turri							
Drilling Rig			Type of Sample SS							
Date 5/15/03		To:		Field Observer (s) Brian Hayden						
Depth (Feet)	Description	Class	Blow Counts	Recov.	Run/ Time	Sample Desig.	PID (ppm)			Remarks/ Water Level
							BZ	BH	S	
1										
2	2'-3.5' Black top soil with organics, wood/plants fibers		1,0,0	0.1						0
3										
4										
5	4.5'-6' Reddish brown fine grained sand (tailings) wet		1,0,1	0.8						0
6										
7										
8	7'-8.5' SAA saturated		0,0,0	1.1						0
9										
10	9.5'-11' SAA		0,1,1	1.2						0
11										
12										
13										
14										
15	14.5'-16' SAA		0,1,0	1.2						0
16										
17										

BZ - Breathing Zone, BH - Bore Hole, S - Sample

Drilling Log Continuation

Project Name						Boring Number				
City of Mt. Iron - USX Property						B-3				
Project Number						Page				
0754-05						2 of 2				
						Date				
						0				
Depth (Feet)	Description	Class	Blow Counts	Recov.	Run/ Time	Sample Desig.	PID (ppm)			Remarks/ Water Level
							BZ	BH	S	
18										
19										
20	19.5' - 21' Greyish brown clay with trace med grained sand dry		2,4,4	1.5					0	
21	End of Boring									
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										

BZ - Breathing Zone, BH - Bore Hole, S - Sample

Drilling Log

Project Name City of Mnt. Iron - USX Property		Project Number 0754-05		Boring Number B-4						
Ground Elevation		Location OD-1		Page 1 of 1						
Air Monitoring Equipment				Total Footage 16'						
Drilling Type HSA		Hole Size 4.25		Overburden Footage		Bedrock Footage	No. of Samples			
Drilling Company Twin Ports Testing			Driller (s) Tony Turri							
Drilling Rig			Type of Sample SS							
Date 5/15/03		To:		Field Observer (s) Brian Hayden						
Depth (Feet)	Description	Class	Blow Counts	Recov.	Run/ Time	Sample Desig.	PID (ppm)			Remarks/ Water Level
							BZ	BH	S	
1	0-1.5' Reddish brown clay		2,4,4	0.8						0
2										
3										
4										
5	4.5'-6' SAA		2,3,4	1.2						0
6										
7										
8	7'-8.5' Greyish black fine grained sand with organics		2,8,13	1						0
9										
10	9.5'-11' Brown fine graind sand with silt damp		5,12,9	0.7						0
11										
12	12' - 13.5' Light brown fine grained poorly sorted sand with silt and clay damp		5,9,10	1.2						0
13										
14										
15	14.5'-16' Reddish brown clay with fine sand and silt		4,5,10	1.5						0
16										
17										

BZ - Breathing Zone, BH - Bore Hole, S - Sample

Drilling Log

Project Name City of Mnt. Iron - USX Property		Project Number 0754-05		Boring Number B-6						
Ground Elevation		Location OD-1 east side		Page 1 of 2						
Air Monitoring Equipment				Total Footage 28.5						
Drilling Type HSA		Hole Size 4.25		Overburden Footage		Bedrock Footage	No. of Samples			
Drilling Company Twin Ports Testing			Driller (s) Tony Turri							
Drilling Rig			Type of Sample SS							
Date 5/15/03		To:		Field Observer (s) Brian Hayden						
Depth (Feet)	Description	Class	Blow Counts	Recov.	Run/ Time	Sample Desig.	PID (ppm)			Remarks/ Water Level
							BZ	BH	S	
1										
2	2'-3.5' Dark reddish brown fine grained sand (tailings)		3,3,3	1.1						0
3										
4										
5	4.5'-6' Same As Above (SAA) wet		2,2,1	0.7						0
6										
7										
8	7'-8.5' SAA saturated		0,1,1	0.5						0
9										
10	9.5'-11' SAA		1,0,1	1						0
11										
12										
13	12'-13.5' SAA		0,1,1	0.6						0
14										
15	14.5'16' SAA		1,0,1	1.2						0
16										
17										

BZ - Breathing Zone, BH - Bore Hole, S - Sample

Drilling Log Continuation

Project Name							Boring Number		B-6	
City of Mnt. Iron - USX Property							Page		2 of 2	
Project Number							Date		0	
0754-05										
Depth (Feet)	Description	Class	Blow Counts	Recov.	Run/ Time	Sample Desig.	PID (ppm)			Remarks/ Water Level
							BZ	BH	S	
18	17'-18.5' SAA		1,1,1	1.2					0	
19										
20	19.5'-21' SAA with black tailings, glass and wood fragments		1,1,1	0.7					0	
21										
22	22' - 23.5' No Recovery		1,0,0	0						
23										
24										
25	24.5' - 26' 2" of ash, glass, fill material 6" Brown Clay with trace fine sand, dry		1,3,2	0.6					0	
26										
27	27' - 28.5' Brown clay trace med. Grained sand dry		2,5,10	1.4					0	
28										
29										
30										
31										
32										
33										
34										
35	34.5'-36 SAA		11,24,24	1.5					0	
36	End of boring									

BZ - Breathing Zone, BH - Bore Hole, S - Sample

Drilling Log

Project Name City of Mnt. Iron - USX Property		Project Number 0754-05		Boring Number B-7						
Ground Elevation		Location OD-1 West side		Page 1 1						
Air Monitoring Equipment				Total Footage 18.5						
Drilling Type HSA		Hole Size 4.25		Overburden Footage		Bedrock Footage		No. of Samples		
Drilling Company Twin Ports Testing			Driller (s) Tony Turri							
Drilling Rig			Type of Sample SS							
Date 5/15/03		To:		Field Observer (s) Brian Hayden						
Depth (Feet)	Description	Class	Blow Counts	Recov.	Run/ Time	Sample Desig.	PID (ppm)			Remarks/ Water Level
							BZ	BH	S	
1	2'-3.5' Greyish brown poorly sorted fine grained sand with clay and silt		2,4,5	1.0						
2										
3										
4	4.5'-6' Same As Above (SAA)		1,2,4	0.9						
5										
6	7'-8.5' grey fine grand sand with clay and trace organics		0,4,4	1.2						
7										
8										
9	9.5'-11' SAA		0,5,7	1.4						
10										
11	12'-13.5' Reddish brown clay with trace sand		4,5,6	1.5						
12										
13										
14	14.5'-16' No recovery		5,10,12	0						
15										
16	17'-18.5' Brown clay with trace med-fine grained sand		8,10,12	1.5						
17										

BZ - Breathing Zone, BH - Bore Hole, S - Sample

Drilling Log

Project Name City of Mnt. Iron - USX Property		Project Number 0754-05		Boring Number B-8						
Ground Elevation		Location OD-1 SE corner		Page 1 1						
Air Monitoring Equipment				Total Footage 16						
Drilling Type HSA		Hole Size 4.25		Overburden Footage		Bedrock Footage		No. of Samples		
Drilling Company Twin Ports Testing				Driller (s) Tony Turri						
Drilling Rig				Type of Sample SS						
Date 5/15/03		To:		Field Observer (s) Brian Hayden						
Depth (Feet)	Description	Class	Blow Counts	Recov.	Run/ Time	Sample Desig.	PID (ppm)			Remarks/ Water Level
							BZ	BH	S	
1										
2	2'-3.5' Black ash, cinders, glass fragments		0,1,1	0.2						0
3										
4										
5	4.5'-6' Same As Above (SAA)		0,1,1	0.1						0
6										
7										
8	7'-8.5' Light brown clay with trace med. grained sand dry		0,3,3	1.5						0
9										
10	9.5'-11' SAA		3,8,10	1.5						0
11										
12										
13	12'-13.5' SAA		3,7,7	1.5						0
14										
15	14.5'-16' SAA		5,6,7	1.5						0
16										
17										

BZ - Breathing Zone, BH - Bore Hole, S - Sample

Drilling Log

Project Name City of Mnt. Iron - USX Property		Project Number 0754-05		Boring Number B-9						
Ground Elevation		Location OD-1		Page 1 of 1						
Air Monitoring Equipment				Total Footage 16.5'						
Drilling Type HSA		Hole Size 4.25	Overburden Footage		Bedrock Footage	No. of Samples				
Drilling Company Twin Ports Testing			Driller (s) Tony Turri							
Drilling Rig			Type of Sample SS							
Date 5/15/03		To:		Field Observer (s) Brian Hayden						
Depth (Feet)	Description	Class	Blow Counts	Recov.	Run/ Time	Sample Desig.	PID (ppm)			Remarks/ Water Level
							BZ	BH	S	
1										
2	2'-3.5' Dark reddish brown fine grained sand (tailings)		2,3,2	0.8					0	
3										
4										
5	4.5'-6' SAA damp		1,1,1	0.4					0	
6										
7										
8	7'-8.5' SAA		1,0,1	0.5					0	
9										
10	9.5'-11' SAA (Trace cinders and ash in bottom of sampler)		1,0,1	0.2					0	
11										
12	12'-13.5' Brown clay with trace sand dry		3,3,6	0.7					0	
13										
14										
15	14.5'-16' SAA Dry		1,5,8	1.5					0	
16										
17										

BZ - Breathing Zone, BH - Bore Hole, S - Sample



Drilling Log

Project Name City of Mnt. Iron - USX Property		Project Number 0754-05		Boring Number B-10						
Ground Elevation		Location OD-1		Page 1 of 2						
Air Monitoring Equipment				Total Footage 21'						
Drilling Type HSA		Hole Size 4.25		Overburden Footage		Bedrock Footage	No. of Samples			
Drilling Company Twin Ports Testing			Driller (s) Tony Turri							
Drilling Rig			Type of Sample SS							
Date 5/15/03		To:		Field Observer (s) Brian Hayden						
Depth (Feet)	Description	Class	Blow Counts	Recov.	Run/ Time	Sample Desig.	PID (ppm)			Remarks/ Water Level
							BZ	BH	S	
1										
2	2'-3.5' Blackish brown cinders/ash		1,0,1	0.1					0	
3										
4										
5	4.5'-6' Same As Above (SAA)		2,1,3	0.4					0	
6										
7										
8	7'-8.5' SAA		1,2,1	0.1					0	
9										
10	9.5'-11' SAA damp		1,3,1	0.2					0	
11										
12	12'-13.5' Reddish brown fine grained sand (tailings) with ash, paper saturated		0,1,0	0.1						
13										
14										
15	14.5'-16' Reddish brown fine grained sand (tailings) with ash, cinders, glass saturated		0,1,0	0.3					0	
16										
17	17'-18.5' Brown clay with trace med grained sand damp		4,3,3	0.5						

BZ - Breathing Zone, BH - Bore Hole, S - Sample

Drilling Log Continuation

Project Name							Boring Number			
City of Mt. Iron - USX Property							B-10			
Project Number							Page			
0754-05							2 of 2			
							Date			
							0			
Depth (Feet)	Description	Class	Blow Counts	Recov.	Run/ Time	Sample Desig.	PID (ppm)			Remarks/ Water Level
							BZ	BH	S	
18										
19										
20	19.5' - 21' Reddish brown clay trace med grained sand dry		6,6,8	1.1					0	
21	End of Boring									
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										

BZ - Breathing Zone, BH - Bore Hole, S - Sample

Drilling Log

Project Name City of Mnt. Iron - USX Property		Project Number 0754-05		Boring Number B-11						
Ground Elevation		Location OD-1		Page 1 of 1						
Air Monitoring Equipment				Total Footage 13.5'						
Drilling Type HSA		Hole Size 4.25		Overburden Footage		Bedrock Footage	No. of Samples			
Drilling Company Twin Ports Testing			Driller (s) Tony Turri							
Drilling Rig			Type of Sample SS							
Date 5/21/03		To:		Field Observer (s) Brian Hayden						
Depth (Feet)	Description	Class	Blow Counts	Recov.	Run/ Time	Sample Desig.	PID (ppm)			Remarks/ Water Level
							BZ	BH	S	
1										
2	2'-3.5' Dark reddish brown fine grained sand (tailings)		3,2,4						0	
3										
4										
5	4.5'-6' SAA dry		1,1,1	0.4					0	
6										
7										
8	7'-8.5' SAA		1,0,1	0.5					0	
9										
10									0	
11										
12	12'-13.5' Brown clay with trace sand dry		3,10,6	1.4					0	
13										
14										
15										
16										
17										

BZ - Breathing Zone, BH - Bore Hole, S - Sample

Drilling Log

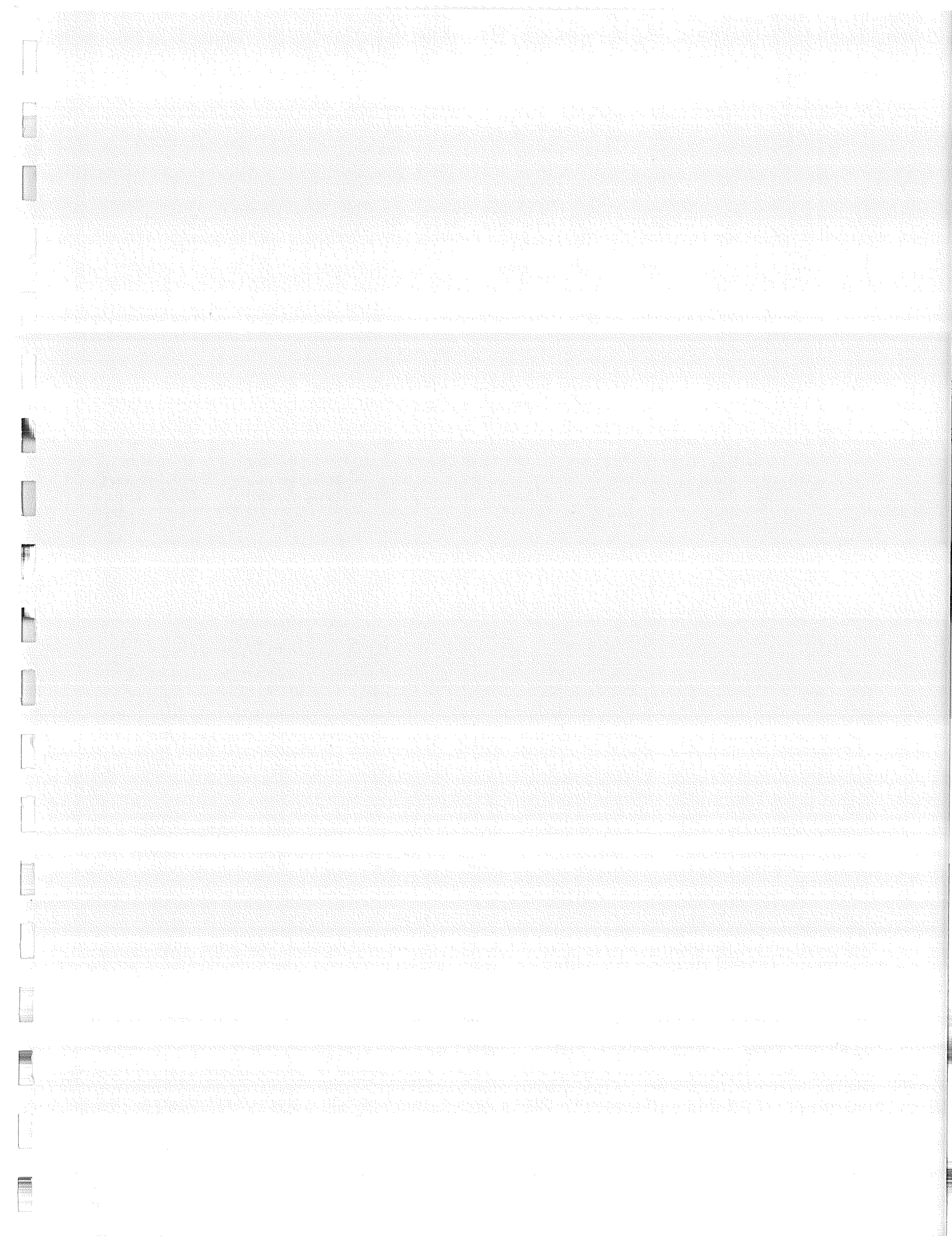
Project Name City of Mt. Iron - USX Property			Project Number 0754-05		Boring Number B-12					
Ground Elevation		Location OD-1			Page 1 of 2					
Air Monitoring Equipment					Total Footage 26'					
Drilling Type HSA		Hole Size 4.25		Overburden Footage		Bedrock Footage	No. of Samples			
Drilling Company Twin Ports Testing			Driller (s) Tony Turri							
Drilling Rig			Type of Sample SS							
Date 5/15/03		To:		Field Observer (s) Brian Hayden						
Depth (Feet)	Description	Class	Blow Counts	Recov.	Run/ Time	Sample Desig.	PID (ppm)			Remarks/ Water Level
							BZ	BH	S	
1										
2	2'-3.5' Dark reddish brown fine grained sand (tailings)		2,4,4	0.2					0	
3										
4										
5	4.5'-6' Same As Above (SAA) wet		2,3,2	1.2					0	
6										
7										
8	7'-8.5' SAA saturated		2,1,3	0.6					0	
9										
10	9.5'-11' SAA		2,3,1	1.2					0	
11										
12										
13										
14										
15	14.5'16' SAA		2,3,4	1.5					0	
16										
17										

BZ - Breathing Zone, BH - Bore Hole, S - Sample

Drilling Log Continuation

Project Name							Boring Number			
City of Mt. Iron - USX Property							B-12			
Project Number							Page			
0754-05							2 of 2			
							Date			
							0			
Depth (Feet)	Description	Class	Blow Counts	Recov.	Run/ Time	Sample Desig.	PID (ppm)			Remarks/ Water Level
							BZ	BH	S	
18	17'-18.5' Brown clay trace med. Grained sand, dry		3,5,4	1.3					0	
19										
20	19.5' - 21' SAA		2,4,6	1.4					0	
21										
22	22' - 23.5' SAA		5,4,2	1.2					0	
23										
24										
25	24.5' - 26' SAA End of boring		6,5,3	1.2					0	
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										

BZ - Breathing Zone, BH - Bore Hole, S - Sample



Drilling Log

Project Name City of Mnt. Iron - USX Property		Project Number 0754-05		Boring Number MW-1						
Ground Elevation		Location OD-1 east side		Page 1 of 2						
Air Monitoring Equipment				Total Footage 21'						
Drilling Type HSA		Hole Size 4.25		Overburden Footage		Bedrock Footage	No. of Samples			
Drilling Company Twin Ports Testing			Driller (s) Tony Turri							
Drilling Rig			Type of Sample SS							
Date 5/21/02		To:		Field Observer (s) Brian Hayden						
Depth (Feet)	Description	Class	Blow Counts	Recov.	Run/ Time	Sample Desig.	PID (ppm)			Remarks/ Water Level
							BZ	BH	S	
1										
2	2'-3.5' Dark reddish brown fine grained sand (tailings)		2,8,4	0.2						0
3										
4										
5	4.5'-6' Same As Above (SAA) saturated		2,6,2	0.8						0
6										
7										
8										
9										
10	9.5'-11' SAA		2,5,4	1						0
11										
12										
13										
14										
15	14.5'16' SAA		2,3,1	0.5						0
16										
17										

BZ - Breathing Zone, BH - Bore Hole, S - Sample

Drilling Log Continuation

Project Name						Boring Number				
City of Mt. Iron - USX Property						MW-1				
Project Number						Page				
0754-05						2 of 2				
						Date				
						0				
Depth (Feet)	Description	Class	Blow Counts	Recov.	Run/ Time	Sample Desig.	PID (ppm)			Remarks/ Water Level
							BZ	BH	S	
18										
19										
20	19.5'-21' greyish brown clay		2,4,6,	0.5					0	
21	end of boring									
22	10' PVC 10 slot screen set at 12.3'									
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										

BZ - Breathing Zone, BH - Bore Hole, S - Sample

Drilling Log

Project Name City of Mnt. Iron - USX Property		Project Number 0754-05		Boring Number MW-2						
Ground Elevation		Location OD-1 southeast corner		Page 1 of 2						
Air Monitoring Equipment				Total Footage 14.5'						
Drilling Type HSA		Hole Size 4.25		Overburden Footage		Bedrock Footage		No. of Samples		
Drilling Company Twin Ports Testing				Driller (s) Tony Turri						
Drilling Rig				Type of Sample SS						
Date 5/22/02		To:		Field Observer (s) Brian Hayden						
Depth (Feet)	Description	Class	Blow Counts	Recov.	Run/ Time	Sample Desig.	PID (ppm)			Remarks/ Water Level
							BZ	BH	S	
1										
2	2'-3.5' Dark reddish brown fine grained sand (tailings)		3,1,5	0.2						0
3										
4										
5	4.5'-6' Same As Above (SAA)		2,4,3,	0.5						0
6										
7										
8										
9										
10	9.5'-11' SAA saturated		3,2,1,	0.8						0
11										
12										
13										
14										
15	14.5'16' SAA		3,1,2	1						0
16	10' PVC 10 slot screen set at 14.5'									
17										

BZ - Breathing Zone, BH - Bore Hole, S - Sample

Drilling Log

Project Name City of Mt. Iron - USX Property		Project Number 0754-05		Boring Number MW-3 A & B						
Ground Elevation		Location OD-1 east side		Page 1 of 2						
Air Monitoring Equipment				Total Footage 22'						
Drilling Type HSA		Hole Size 4.25	Overburden Footage	Bedrock Footage	No. of Samples					
Drilling Company Twin Ports Testing			Driller (s) Tony Turri							
Drilling Rig			Type of Sample SS							
Date 5/21/03		To: 5/21/03		Field Observer (s) Brian Hayden						
Depth (Feet)	Description	Class	Blow Counts	Recov.	Run/ Time	Sample Desig.	PID (ppm)			Remarks/ Water Level
							BZ	BH	S	
1										
2	2'-3.5' Dark reddish brown fine grained sand (tailings)		1,3,2	0.5						0
3										
4										
5	4.5'-6' Same As Above (SAA) wet		1,4,2	0.7						0
6										
7										
8	7'-8.5' SAA saturated		4,1,0	0.6						0
9										
10	9.5'-11' SAA		2,1,1	0.9						0
11										
12										
13	12'-13.5' SAA		1,2,0	0.7						0
14										
15	14.5'16' SAA		4,3,2	1						0
16										
17										

BZ - Breathing Zone, BH - Bore Hole, S - Sample

Drilling Log Continuation

Project Name						Boring Number				
City of Mnt. Iron - USX Property						MW-3 A & B				
Project Number						Page				
0754-05						2 of 2				
						Date				
						5/21/03				
Depth (Feet)	Description	Class	Blow Counts	Recov.	Run/ Time	Sample Desig.	PID (ppm)			Remarks/ Water Level
							BZ	BH	S	
18	17'-18.5' Black ash/cinders glass and metal fragments		1,4,3	0.4					0	
19										
20	19.5'-21' greyish brown silty clay		1,4,5	1.2					0	
21										
22	MW-3A 10' PVC 10 slot screen set at 15'									
23	MW-3B 5' PVC 10 slot screen set at 22'									
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35	34.5'-36 SAA		11,24,24	1.5					0	
36	End of boring									

BZ - Breathing Zone, BH - Bore Hole, S - Sample

Drilling Log

Project Name City of Mt. Iron - USX Property		Project Number 0754-05		Boring Number MW-4						
Ground Elevation		Location OD-1 east side		Page 1 of 1						
Air Monitoring Equipment				Total Footage 15.5						
Drilling Type HSA		Hole Size 4.25		Overburden Footage		Bedrock Footage	No. of Samples			
Drilling Company Twin Ports Testing			Driller (s) Tony Turri							
Drilling Rig			Type of Sample SS							
Date 5/22/02		To:		Field Observer (s) Brian Hayden						
Depth (Feet)	Description	Class	Blow Counts	Recov.	Run/ Time	Sample Desig.	PID (ppm)			Remarks/ Water Level
							BZ	BH	S	
1										
2	2'-3.5' Dark reddish brown fine grained sand (tailings)		2,1,3	0.4						0
3										
4										
5	4.5'-6' Same As Above (SAA)		2,5,1	0.3						0
6										
7										
8										
9										
10	9.5'-11' SAA saturated		2,5,4	1.2						0
11										
12										
13										
14										
15	14.5'16' SAA		3,1,2	0.6						0
16	10' PVC 10 slot screen set at 15.5'									
17										

BZ - Breathing Zone, BH - Bore Hole, S - Sample

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Trench Log

Project Name City of Mnt. Iron - USX Property		Project Number 0754-05		Trench Number T-1						
Ground Elevation		Location NE corner of open dump		Page 1 of 1						
Air Monitoring Equipment				Total Footage 12'						
Drilling Type Backhoe/Excavator		Hole Size		Overburden Footage		Bedrock Footage		No. of Samples		
Drilling Company				Driller (s)						
Drilling Rig				Type of Sample Bulk						
Date 5/20/03		To:		Field Observer (s) Brian Hayden						
Depth (Feet)	Description	Class	Blow Counts	Recov.	Run/ Time	Sample Desig.	PID (ppm)			Remarks/ Water Level
							BZ	BH	S	
1	0-3' Blackish fine grained sand with ash/cinders, bottles, metal fragments, dry									
2									0	
3										
4	3'-4' Light grey ash material, dry					T1-a			0	
5	4'-7' Blackish fine grained sand with ash/cinders, bottles, metal fragments, dry									
6						T1-b			0	
7										
8	7'-12' Reddish brown clay with trace med sand, dry									
9										
10										
11	Trench terminated 12'									
12										
13										
14										
15										
16										
17										

BZ - Breathing Zone, BH - Bore Hole, S - Sample

Trench Log

Project Name City of Mt. Iron - USX Property		Project Number 0754-05		Trench Number T-2	
Ground Elevation		Location NE corner of open dump		Page 1 of 1	
Air Monitoring Equipment				Total Footage 13'	
Drilling Type Backhoe/Excavator		Hole Size	Overburden Footage	Bedrock Footage	No. of Samples
Drilling Company			Driller (s)		
Drilling Rig			Type of Sample Bulk		
Date 5/20/03		To:		Field Observer (s) Brian Hayden	

Depth (Feet)	Description	Class	Blow Counts	Recov.	Run/ Time	Sample Desig.	PID (ppm)			Remarks/ Water Level
							BZ	BH	S	
1										
2										
3										
4										
5	0-10' Reddish brown fine grained sand (tailings) saturated at approximately 6' below grade, No fill (ash, cinders) observed									
6										
7										
8										
9										
10										
11										
12	10'-13' Fill material consisting of blackish brown ash/cinders, glass fragments, metal fragments, no distinctive layering, saturated									
13	Trench terminated 13' because of cave in									
14										
15										
16										
17										

BZ - Breathing Zone, BH - Bore Hole, S - Sample

Trench Log

Project Name City of Mnt. Iron - USX Property		Project Number 0754-05	Trench Number T-3							
Ground Elevation	Location NE corner of open dump		Page 1 of 1							
Air Monitoring Equipment			Total Footage 12'							
Drilling Type Backhoe/Excavator	Hole Size	Overburden Footage	Bedrock Footage	No. of Samples						
Drilling Company		Driller (s)								
Drilling Rig		Type of Sample Bulk								
Date 5/20/03	To:	Field Observer (s) Brian Hayden								
Depth (Feet)	Description	Class	Blow Counts	Recov.	Run/ Time	Sample Desig.	PID (ppm)			Remarks/ Water Level
							BZ	BH	S	
1	0-10' Reddish brown fine grained sand (tailings) saturated at approximately 6' below grade, No fill (ash, cinders) observed									
2										
3										
4										
5										
6										
7	10'-12' Fill material consisting of blackish brown ash/cinders, glass fragments, metal fragments, no distinctive layering, saturated									
8										
9										
10	12' Wood/vegetation debris native ground surface Trench terminated 12'									
11										
12										
13										
14										
15										
16										
17										

BZ - Breathing Zone, BH - Bore Hole, S - Sample

Trench Log

Project Name City of Mt. Iron - USX Property			Project Number 0754-05		Trench Number T-4					
Ground Elevation		Location NE corner of open dump			Page 1 of 1					
Air Monitoring Equipment					Total Footage 6'					
Drilling Type Backhoe/Excavator		Hole Size	Overburden Footage		Bedrock Footage	No. of Samples				
Drilling Company				Driller (s)						
Drilling Rig				Type of Sample Bulk						
Date 5/20/03		To:		Field Observer (s) Brian Hayden						
Depth (Feet)	Description	Class	Blow Counts	Recov.	Run/ Time	Sample Desig.	PID (ppm)			Remarks/ Water Level
							BZ	BH	S	
1										
2										
3	0-5' Whitish brown cinders/ash with glass fragments/bottles, metal, bricks, no distitive layering, dry					T-4			0	
4									0	
5										
6	5-6' Reddish brown clay with trace med grained sand, dry								0	
7	Trench terminated 6'									
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										

BZ - Breathing Zone, BH - Bore Hole, S - Sample

Trench Log

Project Name City of Mt. Iron - USX Property			Project Number 0754-05		Trench Number T-5					
Ground Elevation		Location NE side of open dump			Page 1 of 1					
Air Monitoring Equipment					Total Footage 12'					
Drilling Type Backhoe/Excavator		Hole Size	Overburden Footage		Bedrock Footage	No. of Samples				
Drilling Company				Driller (s)						
Drilling Rig				Type of Sample Bulk						
Date 5/20/03		To:		Field Observer (s) Brian Hayden						
Depth (Feet)	Description	Class	Blow Counts	Recov.	Run/ Time	Sample Desig.	PID (ppm)			Remarks/ Water Level
							BZ	BH	S	
1										
2									0	
3										
4									0	
5	0-10' Blackish brown cinders/ash with glass fragments/bottles, metal, bricks, no distinctive layering, dry									
6						T-5			0	
7										
8									0	
9										
10									0	
11	10'-12' Reddish brown clay with med grained sand, dry									
12	Trench terminated 12'									
13										
14										
15										
16										
17										

BZ - Breathing Zone, BH - Bore Hole, S - Sample

Trench Log

Project Name City of Mnt. Iron - USX Property		Project Number 0754-05	Trench Number T-6							
Ground Elevation	Location West side of site		Page 1 of 1							
Air Monitoring Equipment			Total Footage 12'							
Drilling Type Backhoe/Excavator	Hole Size	Overburden Footage	Bedrock Footage	No. of Samples						
Drilling Company		Driller (s)								
Drilling Rig		Type of Sample Bulk								
Date 5/20/03	To:	Field Observer (s) Brian Hayden								
Depth (Feet)	Description	Class	Blow Counts	Recov.	Run/ Time	Sample Desig.	PID (ppm)			Remarks/ Water Level
							BZ	BH	S	
1	0-2' Dark brown sandy clay dry									
2										
3										
4	2'-6' Blackish grey organic rich clay dry									
5										
6										
7										
8	6'-12' Brown clay with med grained sand dry									
9										
10										
11										
12										
13										
14										
15										
16										
17										

BZ - Breathing Zone, BH - Bore Hole, S - Sample

Trench Log

Project Name City of Mt. Iron - USX Property			Project Number 0754-05		Trench Number T-7					
Ground Elevation		Location NE side of dump on former road			Page 1 of 1					
Air Monitoring Equipment					Total Footage 10'					
Drilling Type Backhoe/Excavator		Hole Size	Overburden Footage		Bedrock Footage	No. of Samples				
Drilling Company				Driller (s)						
Drilling Rig				Type of Sample Bulk						
Date 5/20/03		To:		Field Observer (s) Brian Hayden						
Depth (Feet)	Description	Class	Blow Counts	Recov.	Run/ Time	Sample Desig.	PID (ppm)			Remarks/ Water Level
							BZ	BH	S	
1										
2										
3	0-6' Brown sandy loam with boulders (native fill material) dry									
4										
5										
6	6' soil horizon observed									
7										
8	6'-10' Brown clay with trace med grained sand dry									
9										
10										
11										
12										
13										
14										
15										
16										
17										

BZ - Breathing Zone, BH - Bore Hole, S - Sample

Trench Log

Project Name City of Mnt. Iron - USX Property		Project Number 0754-05		Trench Number T-8						
Ground Elevation		Location SW side of open dump		Page 1 of 1						
Air Monitoring Equipment				Total Footage 12'						
Drilling Type Backhoe/Excavator		Hole Size	Overburden Footage		Bedrock Footage	No. of Samples				
Drilling Company			Driller (s)							
Drilling Rig			Type of Sample Bulk							
Date 5/20/03		To:		Field Observer (s) Brian Hayden						
Depth (Feet)	Description	Class	Blow Counts	Recov.	Run/ Time	Sample Desig.	PID (ppm)			Remarks/ Water Level
							BZ	BH	S	
1										
2										
3										
4										
5										
6	0-12' Reddish brown fine grained sand (tailings) saturated at approximately 4' below grade. No fill (ash, cinders) observed									
7										
8										
9										
10										
11										
12	Cave in at approximately 12' - trench terminated									
13										
14										
15										
16										
17										

BZ - Breathing Zone, BH - Bore Hole, S - Sample

Trench Log

Project Name City of Mnt. Iron - USX Property		Project Number 0754-05		Trench Number T-9						
Ground Elevation		Location SE side of open dump		Page 1 of 1						
Air Monitoring Equipment				Total Footage 6.5'						
Drilling Type Backhoe/Excavator		Hole Size	Overburden Footage	Bedrock Footage	No. of Samples					
Drilling Company			Driller (s)							
Drilling Rig			Type of Sample Bulk							
Date 5/20/03		To:	Field Observer (s) Brian Hayden							
Depth (Feet)	Description	Class	Blow Counts	Recov.	Run/ Time	Sample Desig.	PID (ppm)			Remarks/ Water Level
							BZ	BH	S	
1	0-2' Brown sandy clay loam									0
2										
3										0
4	2'-5' Fill material consisting of blackish brown ash/cinders, glass fragments, metal fragments, no distinctive layering, dry					T-9				
5										0
6	5'-6.5' Native reddish brown clay with trace med grained sand dry									
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										

BZ - Breathing Zone, BH - Bore Hole, S - Sample

Trench Log

Project Name City of Mnt. Iron - USX Property		Project Number 0754-05		Trench Number T-10						
Ground Elevation		Location SE side of open dump		Page 1 of 1						
Air Monitoring Equipment				Total Footage 8'						
Drilling Type Backhoe/Excavator		Hole Size	Overburden Footage	Bedrock Footage	No. of Samples					
Drilling Company			Driller (s)							
Drilling Rig			Type of Sample Bulk							
Date 5/20/03		To:		Field Observer (s) Brian Hayden						
Depth (Feet)	Description	Class	Blow Counts	Recov.	Run/ Time	Sample Desig.	PID (ppm)			Remarks/ Water Level
							BZ	BH	S	
1	0-1' Brown sandy clay loam									0
2										
3						T-10				0
4	1'-6' Fill material consisting of reddish brown ash/cinders, glass fragments, metal fragments, no distinctive layering, dry									
5										0
6	6' Native reddish brown clay with trace med grained sand dry									
7										
8	8' Termination of trench									
9										
10										
11										
12										
13										
14										
15										
16										
17										

BZ - Breathing Zone, BH - Bore Hole, S - Sample

Trench Log

Project Name City of Mnt. Iron - USX Property			Project Number 0754-05		Trench Number T-11					
Ground Elevation		Location E side of open dump			Page 1 of 1					
Air Monitoring Equipment					Total Footage 16'					
Drilling Type Backhoe/Excavator		Hole Size	Overburden Footage		Bedrock Footage	No. of Samples				
Drilling Company				Driller (s)						
Drilling Rig				Type of Sample Bulk						
Date 5/20/03		To:		Field Observer (s) Brian Hayden						
Depth (Feet)	Description	Class	Blow Counts	Recov.	Run/ Time	Sample Desig.	PID (ppm)			Remarks/ Water Level
							BZ	BH	S	
1	0-11' Fill material consisting of reddish brown ash/cinders, glass fragments, metal fragments, no distinctive layering, dry					T-11	0			
2										
3										
4										
5										
6	11' Native reddish brown clay with trace med grained sand dry						0			
7										
8										
9										
10										
11										
12	16' Termination of trench						0			
13										
14										
15										
16										
17										

BZ - Breathing Zone, BH - Bore Hole, S - Sample