Key for Shallow Overburden Borehole and Sample Ids

Golder Borehole ID	Corresponding Site Number in Field Notes	ID on Laboratory Results
SOSH-01	1	SH01
SOSH-02	2	SH02
SOSH-03	3	SH03
SOSH-04	4	SH04
SOSH-05	5	SH05
SOSH-06	6	SH06
SOSH-07	7	SH07
SOSH-08	8	SH08
SOSH-09	9	SH09
SOSH-10	10	SH10
SOSH-11	11	No analyses performed
SOSH-12	12	SH12
SOSH-13	13	SH13
SOSH-14	14	No analyses performed
SOSH-15	15	SH15
SOSH-16	16	SH16
SOSH-17	17	SH17
SOSH-18	18	SH18
SOSH-19	19	No analyses performed
SOSH-20	20	SH20
SOSH-21	21	No analyses performed
SOSH-22	22	SH22
SOSH-23	23	SH23
SOSH-24	24	SH24
SOSH-25	25	SH25
SOSH-26	26	SH26
SOSH-27	27	SH27
SOSH-28	28	SH28
SOSH-29	29	SH29
SOSH-30	30	No analyses performed
SOSH-31	31	No analyses performed
SOSH-32	32	No analyses performed
SOSH-33	33	No analyses performed
SOSH-34	34	No analyses performed
SOSH-35	35	No analyses performed
SOSH-36	36	No analyses performed
SOSH-37	37	No analyses performed
SOSH-38	38	No analyses performed
SOSH-40	40	SH40
SOSH-41	41	SH41
SOSH-42	42	SH42
SOSH-43	43	SH43
SOSH-45	45	SH45
SOSH-46	46	SH46
SOSH-47	47	No analyses performed
SOSH-49	49	No analyses performed
SOSH-50	50	No analyses performed
SOSH-51	51	No analyses performed
SOSH-52	52	No analyses performed
SOSH-53	53	No analyses performed

SITE NO: 1

	Easting	Northing
TARGET:	650,660	5,190,434
ACTUAL:	650,663	5,190,427

Interval	Type	Texture	Vis. Salts	Color
000024	unconsolidated/weathered	C/CL	N	2.5Y 4/2
024038	unconsolidated/weathered	C/CL+	N	2.5Y 4/2
038062	unconsolidated/weathered	C	Y2	5Y 4/2
062080	unconsolidated/weathered	C	Y1	5Y 4/2
080092	unconsolidated/weathered	C	Y1	2.5Y 3/2
092110	unconsolidated/weathered	C	N	2.5Y 3/2
110118	unconsolidated/weathered	C	N	2.5Y 3/2
118126	unconsolidated/weathered	C/CL+	Y3	2.5Y 4/2
126134	unconsolidated/weathered	C/CL+	Y2	2.5Y 4/2
134146	unconsolidated/weathered	C	Y2	2.5Y 4/3
146158	unconsolidated/weathered	CL	Y1	2.5Y 4/3
158182	soft sandstone	LFS	N	2.5Y 4/3
182206	soft sandstone	LFS	N	2.5Y 4/3
206230	soft bedrock	SCL	N	2.5Y 4/3
230240	soft bedrock	SCL	N	2.5Y 3/3

Backfilled to 65 in below ground surface. Flagged.

SITE NO: 2

	Easting	Northing
TARGET:	650,847	5,190,259
ACTUAL:	650,843	5,190,259

Interval	Type	Texture	Vis. Salts	Color
000024	unconsolidated/weathered	C/CL	N	2.5Y 3/2
024048	unconsolidated/weathered	C	Y1	2.5Y 4/2
048072	unconsolidated/weathered	C/CL	Y1	2.5Y 4/3
072096	unconsolidated/weathered	C/CL	N	2.5Y 4/2
096120	unconsolidated/weathered	C/CL	Y1	2.5Y 4/3
120144	unconsolidated/weathered (some coal frags)	SiC	N	2.5Y 5/3
144168	unconsolidated/weathered	SiC	too mixed	2.5Y 5/2
168192	unconsolidated/weathered	Si(C)L	N	2.5Y 6/3
192216	unconsolidated/weathered	(Si)C	Y1	2.5Y 5/3
216240	unconsolidated/weathered	C	Y1	2.5Y 5/3

Backfilled to 60 in below ground surface. Flagged.

SITE NO: 3

	Easting	Northing
TARGET:	650,646	5,190,949
ACTUAL:	650,647	5,190,947

Interval	Type	Texture	Vis. Salts	Color
000016	unconsolidated/weathered	C/CL+	N	2.5Y 2.5/1
016036	unconsolidated/weathered	C	Y1	2.5Y 4/2
036048	unconsolidated/weathered	C	Y1	2.5Y 3/2
048060	unconsolidated/weathered/BR	C	Y2	2.5Y 3/2
060084	unconsolidated/weathered/BR	C	Y1	2.5Y 3/2
084096	Soft shale w/coal	C	Y2	2.5Y 3/2
096108	Soft shale	C	Y2	2.5Y 3/3
108128	Shale/Siltstone	C/CL	N	2.5Y 5/1
128152	Beds of sand and shale	Clayey	N	2.5Y 5/3
152172	Shale	C	N	2.5Y 4/2
172196	Siltstone	SiC	N	2.5Y 5/3
196216	Siltstone	SiC	N	2.5Y 5/3
216240	Siltstone	SiC	N	2.5Y 5/3

Heavy wet clay at this site caused some problems with augering and would likely pose some problems for soil handling equipment during salvage and replacement.

SITE NO: 4

	Easting	Northing
TARGET:	650,239	5,189,409
ACTUAL:	650,237	5,189,408

Interval	Type	Texture	Vis. Salts	Color
000024	unconsolidated/weathered	SCL	N	2.5Y 3/3
024048	unconsolidated/weathered	CL+	N	2.5Y 5/6
048072	unconsolidated/weathered	SiC	N	2.5Y 6/2
072096	unconsolidated/weathered	SiC	Y1	2.5Y 6/3
096120	unconsolidated/weathered	SiC	N	2.5Y 5/3
120144	unconsolidated/weathered	SiC	N	2.5Y 4/2
144168	Beddes SiS	SiC	N	2.5Y 4/3
168192	Beddes SiS	SiC	N	2.5Y 5/3
192216	SiSt/Shale	(Si)C	N	2.5Y 5/3
216240	SiSt/Shale	(Si)C	N	2.5Y 4/3

SITE NO: 5

	Easting	Northing
TARGET:	649,863	5,189,503
ACTUAL:	649,864	5,189,505

Interval	Type	Texture	Vis. Salts	Color
000024	unconsolidated/weathered	CL+	N	2.5Y 4/2
024036	unconsolidated/weathered	CL/C	Y1	2.5Y 4/2
036048	unconsolidated/weathered	SiC+	Y1	2.5Y 4/3
048068	unconsolidated/weathered	C+	Y1	2.5Y 3/3
068084	unconsolidated/weathered	CI	Y2	2.5Y 5/3
084096	Very soft bedrock	VFSCL	N	2.5Y 5/4
096120	Very soft bedrock	VFSL	N	2.5Y 4/4
120144	Very soft bedrock	VFSL	N	2.5Y 5/3
144168	Very soft bedrock	VFSL	N	2.5Y 5/3
168192	Very soft bedrock	VFSL	N	2.5Y 5/3
192216	soft bedrock	VFSL	N	2.5Y 5/3
216240	soft bedrock	VFSL	N	2.5Y 5/3

SITE NO: 6

	Easting	Northing
TARGET:	649,585	5,189,422
ACTUAL:	649,586	5,189,420

Interval	Type	Texture	Vis. Salts	Color
000018	unconsolidated/weathered	CL	N	2.5Y 3/2
018030	unconsolidated/weathered	SiL	Y1	2.5Y 4/3
030040	unconsolidated/weathered	(Si)L	Y1	2.5Y 4/2
040064	unconsolidated/weathered	SiCL	Y1	2.5Y 4/3
064078	soft bedrock	SiC	N	2.5Y 5/3
078102	soft bedrock	SiCL	Y1	2.5Y 4/3
102126	Shale w/coal	C	N	2.5Y3/2
126150	Shale / Siltstone	(VFS)C	Y	2.5Y 4/3
150174	Shale	VFS(C)	N	2.5Y 4/3
174198	Shale	C	N	2.5Y 4/2
198210	Shale	C	N	2.5Y 3/2
210222	Shale	C	Y2	2.5Y 4/4
222240	Shale	C	N	2.5Y 3/2

SITE NO: 7

	Easting	Northing
TARGET:	649,422	5,189,511
ACTUAL:	649,420	5,189,509

Interval	Type	Texture	Vis. Salts	Color
000024	unconsolidated/weathered	CL	N	2.5Y 3/2
024048	unconsolidated/weathered	VFSL	N	2.5Y 5/3
048072	soft bedrock	VFSL	N	2.5Y 4/3
072096	soft bedrock	C	N	2.5Y 5/3
096108	soft bedrock	C-	N	2.5Y 5/3
108120	soft bedrock	CL+	N	2.5Y 4/3
120136	soft bedrock	L+/CL-	N	2.5Y 5/3
136160	soft bedrock	L+/CL-	N	2.5Y 4/3
160184	soft bedrock	CL	N	2.5Y 4/2
184207	soft bedrock	C	N	2.5Y 3/2
207223	soft bedrock	C	N	2.5Y 4/2
223240	soft bedrock	CL	N	2.5Y 4/2

SITE NO: 8

	Easting	Northing
TARGET:	649,454	5,189,258
ACTUAL:	649,448	5,189,261

Interval	Type	Texture	Vis. Salts	Color
000012	unconsolidated/weathered	CL	N	2.5Y 3/2
012036	unconsolidated/weathered/soft bedrock	CL	N	2.5Y 6/3
036048	soft bedrock	L	N	2.5Y 5/3
048070	soft bedrock	CL/C	N	2.5Y 5/4
070076	Shale	C	N	2.5Y 4/2
076100	soft bedrock	CL+	N	2.5Y 5/3
100106	soft bedrock	CL-	N	2.5Y 5/3
106130	Shale	C	Y1	2.5Y 5/2
130136	Shale	C	Y3	2.5Y 5/2
136148	soft bedrock	VFSCL	too mixed	2.5Y 5/3
148172	soft bedrock	LS	N	2.5Y 5/3
172196	soft bedrock	LS	N	2.5Y 5/2
196204	soft bedrock	SL	N	2.5Y 5/2
204216	Shale & Hard SS	CL	Y1	2.5Y 5/2
216240	soft bedrock	SL	Y1	2.5Y 5/2

SITE NO: 9

	Easting	Northing
TARGET:	649,755	5,789,205
ACTUAL:	649,755	5,189,209

Interval	Type	Texture	Vis. Salts	Color
000014	unconsolidated/weathered	CL	N	2.5Y 3/2
014038	unconsolidated/weathered & Some Hard BR	GR-CL	N	2.5Y 5/3
038058	soft bedrock	C	Y1	2.5Y 5/3
058072	soft bedrock	C	Y1	2.5Y 5/2
072096	soft bedrock	C	Y1	2.5Y 4/2
096120	soft bedrock	VFSCL	N	2.5Y 4/2
120130	soft bedrock	CL	N	2.5Y 4/2
130154	soft bedrock	C	N	2.5Y 4/2
154170	soft bedrock	C-	Y1	2.5Y 4/3
170194	soft bedrock	VFSC	N	2.5Y 4/2
194218	soft bedrock	VFSCL	N	2.5Y 4/2
218240	soft bedrock	VFSCL	N	2.5Y 5/2

SITE NO: 10

	Easting	Northing
TARGET:	649,395	5,188,779
ACTUAL:	649,401	5,188,763

Interval	Type	Texture	Vis. Salts	Color
000024	unconsolidated/weathered	C	N	2.5Y 4/2
024048	unconsolidated/weathered	C	Y1	2.5Y 4/2
048072	unconsolidated/weathered	CL	Y1	2.5Y 3/2
072096	unconsolidated/weathered/soft bedrock	C	Y1	2.5Y 3/2
096110	unconsolidated/weathered/soft bedrock	CL	Y1	2.5Y 4/3
110128	unconsolidated/weathered/soft bedrock	LS	Saturated - free water	2.5Y 5/3
128152	unconsolidated/weathered/soft bedrock	VFSCL	too wet	2.5Y 3/2
152164	Shale	C	too wet	2.5Y 4/2
164168	No Sample	LS	Saturated	2.5Y 5/3

Excavation ended at 14 ft. A sample was not collected for 164168 due to the saturated nature of the material.

The hole was filled with one bag of betonite to a depth of 4 feet below ground surface before backfilling. Remaining cuttings were spread onsite.

SITE NO: 11

	Easting	Northing
TARGET:	649,222	5,188,949
ACTUAL:	649,223	5,188,952

Interval	Type	Texture	Vis. Salts	Color
000024	unconsolidated/weathered	CL	N	2.5Y 5/3
024048	unconsolidated/weathered/Shale	C	Y1	2.5Y 3/2
048068	Shale	C	maybe / high CaCO3	2.5Y 4/2
068088	Coal - no sample collected	--	--	--
088112	Shale	C	N	10YR 3/2
112128	Shale	C	Y1	10YR 3/2
128152	Shale	C	N	2.5Y 5/2
152176	Shale	C	Y1	2.5Y 4/2
176200	soft bedrock	VFSL+	too mixed	2.5Y 4/2
200208	soft bedrock	VFSL	N	2.5Y 4/2
208224	soft bedrock	CL	N	2.5Y 4/2
224240	Shale	C	N	2.5Y 5/2

SITE NO: 12

	Easting	Northing
TARGET:	649,216	5,189,515
ACTUAL:	649,219	5,189,515

Interval	Type	Texture	Vis. Salts	Color
000024	unconsolidated/weathered	CL+	N	2.5Y 4/2
024048	unconsolidated/weathered to soft bedrock	CL-	Y1	2.5Y 5/3
048072	soft bedrock	L	N	2.5Y 5/3
072096	soft bedrock	VFSL	N	2.5Y 5/3
096108	soft bedrock	L	N	2.5Y 5/3
108132	soft bedrock	VFSL	N	2.5Y 5/3
132156	soft bedrock	LVFS	N	2.5Y 5/3
156180	soft bedrock	LVFS	N	2.5Y 5/3
180204	soft bedrock	LVFS	N	2.5Y 5/2
204228	soft bedrock	LVFS	N	2.5Y 5/2
228240	soft bedrock	LVFS	N	2.5Y 5/3

SITE NO: 13

	Easting	Northing
TARGET:	648,994	5,189,517
ACTUAL:	648,998	5,189,517

Interval	Type	Texture	Vis. Salts	Color
000024	unconsolidated/weathered	C	N	2.5Y 3/2
024048	unconsolidated/weathered	C-	too mixed	2.5Y 4/3
048072	unconsolidated/weathered	C-	Y1	2.5Y 4/3
072096	unconsolidated/weathered	CL+	Y2	2.5Y 4/2
096108	unconsolidated/weathered	CL	Y2	2.5Y 4/2
108132	unconsolidated/weathered	CL	Y1	2.5Y 4/2
132156	unconsolidated/weathered	CL	Y1	2.5Y 4/2
156170	unconsolidated/weathered	CL-	N	2.5Y 3/2
170194	soft bedrock	SiL	N	2.5Y 7/3
194218	soft bedrock	SiL	N	2.5Y 7/4
218240	soft bedrock	L	N	2.5Y 6/4

SITE NO: 14

	Easting	Northing
TARGET:	648,759	5,188,843
ACTUAL:	648,756	5,188,844

Interval	Type	Texture	Vis. Salts	Color
000024	unconsolidated/weathered	CL+	N	2.5Y 4/3
024048	unconsolidated/weathered	CL-	Y1?	2.5Y 4/3
048072	unconsolidated/weathered/soft bedrock	SiCL	N	2.5Y 5/3
072084	unconsolidated/weathered/soft bedrock	SiL	N	2.5Y 5/3
084092	Coal - no sample collected	--	--	--
092116	soft bedrock	SiC/C	Y3	2.5Y 5/1
116132	soft bedrock	SiC/C	Y3	2.5Y 4/2
132156	soft bedrock	SiC	N	2.5Y 5/3
156172	soft bedrock	C	N	2.5Y 4/3
172196	soft bedrock	SiC/C	N	2.5Y 5/2
196204	soft bedrock	SiC/C	Y1?	2.5Y 5/2
204208	Coal - no sample collected	--	--	--
208222	soft bedrock	SiC/C	Y2	2.5Y 5/3
222240	soft bedrock	SiC/C	N	2.5Y 5/4

SITE NO: 15

	Easting	Northing
TARGET:	648,294	5,188,767
ACTUAL:	648,294	5,188,770

Interval	Type	Texture	Vis. Salts	Color
000024	unconsolidated/weathered	L	N	2.5Y 6/3
024048	unconsolidated/weathered	L	N	2.5Y 6/3
048072	unconsolidated/weathered/V soft bedrock	L	N	2.5Y 5/3
072096	unconsolidated/weathered/V soft bedrock	L	N	2.5Y 5/3
096120	unconsolidated/weathered/V soft bedrock	CL-	N	2.5Y 5/3
120144	unconsolidated/weathered/V soft bedrock	CL	N	2.5Y 5/3
144168	unconsolidated/weathered/V soft bedrock	CL	N	2.5Y 4/2
168192	unconsolidated/weathered/V soft bedrock	VFSL	N	2.5Y 4/2
192216	unconsolidated/weathered/V soft bedrock	VFSC	N	2.5Y 4/2
216240	unconsolidated/weathered/V soft bedrock	CL	N	2.5Y 4/2

Backfilled to 7 feet below ground surface. Flagged.

SITE NO: 16

	Easting	Northing
TARGET:	647,872	5,188,597
ACTUAL:	647,875	5,188,597

Interval	Type	Texture	Vis. Salts	Color
000024	unconsolidated/weathered	CL	N	2.5Y 3/2
024048	unconsolidated/weathered/soft bedrock	CL	N	2.5Y 5/3
048072	soft bedrock	CL	N	2.5Y 5/3
072096	soft bedrock	SL	N	2.5Y 5/3
096104	soft bedrock	FSCL	N	2.5Y 5/3
104128	soft bedrock	C	Y2	2.5Y 5/3
128152	soft bedrock	C	Y1	2.5Y 3/2
152176	soft bedrock	C	Y1	2.5Y 3/2
176200	soft bedrock	C	N	2.5Y 4/2
200222	soft bedrock	C	N	2.5Y 4/3
222240	soft bedrock	C	Y1	2.5Y 3/3

Backfilled to 5.5 feet below ground surface. Flagged.

SITE NO: 17

	Easting	Northing
TARGET:	650,440	5,189,566
ACTUAL:	650,441	5,189,569

Interval	Type	Texture	Vis. Salts	Color
000024	soil	CoSL+	N	2.5Y 4/3
024036	soil/gravel	CoSL+	N	2.5Y 4/3
036060	sediment	CoLS	N	2.5Y 5/4
060068	sediment	CoLS	N	2.5Y 5/4
068092	very soft bedrock	LFS	N	2.5Y 5/3
092116	very soft bedrock	LFS	N	2.5Y 5/3
116140	very soft bedrock	LFS	N	2.5Y 5/3
140164	very soft bedrock	LFS	N	2.5Y 5/4
164188	very soft bedrock	LFS	N	2.5Y 5/4
188212	very soft bedrock	LFS	N	2.5Y 5/4
212236	very soft bedrock	LFS	N	2.5Y 5/4
236240	very soft bedrock	LFS	N	2.5Y 5/4

SITE NO: 18

	Easting	Northing
TARGET:	650,175	5,189,573
ACTUAL:	650,169	5,189,575

Interval	Type	Texture	Vis. Salts	Color
000024	soil	CL	N	2.5Y 3/3
024048	soil	CL-	N	2.5Y 5/3
048072	soil	SL	N	2.5Y 5/3
072096	very soft bedrock	LFS	N	2.5Y 5/3
096120	very soft bedrock	LFS	N	2.5Y 5/3
120144	very soft bedrock	LFS	N	2.5Y 6/3
144168	very soft bedrock	LFS	N	2.5Y 5/3
168192	very soft bedrock	FSL	N	2.5Y 5/3
192216	very soft bedrock	FSL	N	2.5Y 5/3
216240	very soft bedrock	FSL	N	2.5Y 5/3

SITE NO: 19

	Easting	Northing
TARGET:	650,160	5,189,333
ACTUAL:	650,159	5,189,339

Interval	Type	Texture	Vis. Salts	Color
000024	soil	CL	N	2.5Y 5/4
024030	soil	GrCL	N	2.5Y 4/3
030054	weathered bedrock	C	Y1	2.5Y 3/1
054078	weathered bedrock	SiCL	Y1	2.5Y 4/1
078102	soft bedrock	SiCL	N	2.5Y 4/2
102122	soft bedrock	SiCL	N	2.5Y 4/3
122132	soft bedrock	SiCL	N	2.5Y 4/3
132142	soft bedrock w/ some coal	SiCL+	N	2.5Y 4/3
142148	coal	coal	coal	coal
148168	soft bedrock	C	N	2.5Y 6/2
168192	soft bedrock	CL	N	2.5Y 6/3
192216	soft bedrock	SiL	N	2.5Y 6/2
216240	soft bedrock	SiL	N	2.5Y 6/2

SITE NO: 20

	Easting	Northing
TARGET:	650,107	5,189,473
ACTUAL:	650,108	5,189,466

Interval	Type	Texture	Vis. Salts	Color
000018	soil	SiC	N	2.5Y 4/3
018032	soil	SiCL	N	2.5Y 5/2
032046	weathered bedrock	SiCL	Y3 gyp	2.5Y 5/3
046066	soft bedrock	SiCL	Y1	2.5Y 5/3
066072	soft bedrock	SiCL	N	2.5Y 5/2
072096	soft bedrock	SiL	N	2.5Y 5/2
096120	soft bedrock	SiCL	N	2.5Y 4/2
120134	soft bedrock	SiCL	N	2.5Y 5/3
134158	soft bedrock	SiCL	N	2.5Y 5/4
158182	soft bedrock	SiCL	N	2.5Y 4/2
182206	soft bedrock	SiCL	N	2.5Y 5/3
206230	soft bedrock	SiCL+	N	2.5Y 4/2
230240	soft bedrock	SiCL	N	2.5Y 5/3

SITE NO: 21

	Easting	Northing
TARGET:	650,047	5,189,358
ACTUAL:	650,042	5,189,359

Interval	Type	Texture	Vis. Salts	Color
000024	soil	CL	N	2.5Y 3/3
024248	soil	CL	N	2.5Y 4/3
048056	coal	coal	coal	coal
056080	soft bedrock	CL	Y1	2.5Y 5/3
080104	soft bedrock	SiCL	Y1	2.5Y 5/2
104128	soft bedrock	SiCL	Y1	2.5Y 5/2
128134	soft bedrock	SiCL	Y2	2.5Y 5/2
134154	soft bedrock	SiCL	N	2.5Y 5/2
154178	soft bedrock	SiCL	N	2.5Y 5/3
178190	soft bedrock	SiC	Y1	2.5Y 4/2
190214	soft bedrock	SiCL	N	2.5Y 5/2
214230	soft bedrock	SiCL	N	2.5Y 5/3
230240	soft bedrock	SiCL	N	2.5Y 5/3

SITE NO: 22

	Easting	Northing
TARGET:	650,017	5,189,260
ACTUAL:	650,014	5,189,261

Interval	Type	Texture	Vis. Salts	Color
000012	soil	CL	N	2.5Y 4/3
012024	soil	CL	N	2.5Y 6/3
024048	soft bedrock	SiCL	Y2	2.5Y 6/6
048056	soft bedrock	SiCL	Y2	2.5Y 5/4
056080	soft bedrock	SiC	Y2	2.5Y 5/3
080096	soft bedrock	SiCL	N	2.5Y 5/3
096120	soft bedrock	L	N	2.5Y 6/2
120144	soft bedrock	SiCL	N	2.5Y 5/3
144158	soft bedrock	SiCL	N	2.5Y 5/2
158170	soft bedrock	CL	N	2.5Y 5/3
170194	soft bedrock	VFCL	N	2.5Y 5/3
194218	soft bedrock	CL	N	2.5Y 4/2
218240	soft bedrock	CL	N	2.5Y 4/2

SITE NO: 23

	Easting	Northing
TARGET:	649,879	5,189,110
ACTUAL:	649,882	5,189,110

Interval	Type	Texture	Vis. Salts	Color
000024	soil	CL	N	2.5Y 3/3
024036	soil	CL	N	2.5Y 5/3
036060	weathered bedrock	CL+	Y1	2.5Y 4/2
060082	weathered bedrock	CL+	Y2	2.5Y 4/2
082096	soft bedrock	CL+	N	2.5Y 4/2
096120	soft bedrock	C	N	2.5Y 4/1
120144	soft bedrock	CL+	N	2.5Y 3/2
144168	soft bedrock	C	N	2.5Y 4/1
168182	soft bedrock	C	N	2.5Y 3/2
182188	soft bedrock	C	N	2.5Y 3/2
188196	shale w/ hard rock	C	N	10YR 3/6
196202	soft bedrock	C	N	2.5Y 4/2
202224	soft bedrock	CL	N	2.5Y 5/2
224240	soft bedrock	CL	N	2.5Y 4/2

SITE NO: 24

	Easting	Northing
TARGET:	649,871	5,189,315
ACTUAL:	649,873	5,189,315

Interval	Type	Texture	Vis. Salts	Color
000018	soil	CL	N	2.5Y 5/3
018042	weathered bedrock	CL	N	2.5Y 5/3
042066	soft bedrock	SiCL	N	2.5Y 5/3
066080	soft bedrock	CL	N	2.5Y 5/4
080096	soft bedrock	SiC	N	2.5Y 5/2
096104	soft bedrock	SiCL	N	2.5Y 5/3
104128	soft bedrock	SiL	N	2.5Y 5/3
128136	soft bedrock	SiL	N	2.5Y 5/3
136158	soft bedrock	SiC	N	2.5Y 5/3
158182	soft bedrock	CL+	N	2.5Y 4/2
182202	soft bedrock	SiCL	N	2.5Y 5/3
202226	soft bedrock	C	N	2.5Y 4/2
226240	soft bedrock	C	N	2.5Y 5/3

SITE NO: 25

	Easting	Northing
TARGET:	649,762	5,189,379
ACTUAL:	649,763	5,189,372

Interval	Type	Texture	Vis. Salts	Color
000012	soil	CL	N	2.5Y 4/3
012024	soil	SiCL	N	2.5Y 6/3
024048	weathered bedrock	SiCL	Y2	2.5Y 5/2
048064	soft bedrock	SiC	Y2	2.5Y 5/3
064074	soft bedrock	SiCL	N	2.5Y 5/3
074098	soft bedrock	SiCL	N	2.5Y 5/3
098114	soft bedrock	SiCL	N	2.5Y 5/3
114138	soft bedrock	SiCL	N	2.5Y 5/2
138162	soft bedrock	SiCL	N	2.5Y 4/2
162186	soft bedrock	SiCL	N	2.5Y 4/2
186210	soft bedrock	CL	N	2.5Y 4/2
210224	soft bedrock	C	N	2.5Y 3/2
224240	soft bedrock	C	N	2.5Y 3/2

SITE NO: 26

	Easting	Northing
TARGET:	649,745	5,189,509
ACTUAL:	649,743	5,189,517

Interval	Type	Texture	Vis. Salts	Color
000012	soil	C	N	2.5Y 4/3
012036	soil	CL	N	2.5Y 5/3
036052	weathered bedrock	SiCL	Y1	2.5Y 5/2
052076	soft bedrock	SiC	Y1	2.5Y 5/3
076100	soft bedrock	SiCL	N	2.5Y 5/3
100124	soft bedrock	SiCL	N	2.5Y 5/3
124148	soft bedrock	SiCL	N	2.5Y 5/3
148172	soft bedrock	SiCL	N	2.5Y 5/3
172196	soft bedrock	SiCL	N	2.5Y 4/2
196220	soft bedrock	SiCL	N	2.5Y 4/3
220240	soft bedrock	C	N	2.5Y 4/3

SITE NO: 27

	Easting	Northing
TARGET:	649,731	5,189,095
ACTUAL:	649,728	5,189,098

Interval	Type	Texture	Vis. Salts	Color
000024	soil	CL	N	2.5Y 4/3
024040	soil	C	N	2.5Y 4/2
040060	soft bedrock	CL-	N	2.5Y 4/2
060078	soft bedrock	C	Y2	2.5Y 4/2
078088	soft bedrock	C	Y2	2.5Y 4/2
088110	soft bedrock	SiCL	Y1	2.5Y 5/3
110134	soft bedrock	C-	N	2.5Y 5/3
134146	soft bedrock	C-	N	2.5Y 4/2
146170	soft bedrock	VFSCL	N	2.5Y 4/2
170194	soft bedrock	VFSCL	N	2.5Y 4/2
194218	soft bedrock	VFSCL	N	2.5Y 4/2
218240	soft bedrock	VFSCL	N	2.5Y 4/2

SITE NO: 28

	Easting	Northing
TARGET:	649,663	5,189,288
ACTUAL:	649,656	5,189,296

Interval	Type	Texture	Vis. Salts	Color
000012	soil	CL	N	2.5Y 4/3
012024	soil	GrCL	N	2.5Y 4/3
024048	weathered bedrock	SiCL+	Y2	2.5Y 5/3
048068	weathered bedrock	SiCL+	Y1	2.5Y 4/3
068082	hard rock	GrCL	N	2.5Y 7/3
082100	soft bedrock	CL	N	2.5Y 5/2
100106	soft bedrock	C	N	2.5Y 4/1
106120	soft bedrock	C	N	2.5Y 4/1
120144	soft bedrock	CL+	N	2.5Y 4/3
144168	soft bedrock	CL	N	2.5Y 4/3
168192	soft bedrock	SiCL	N	2.5Y 4/3
192216	soft bedrock but harder	SiCL+	N	2.5Y 4/3
216240	soft bedrock but harder	SiCL+	N	2.5Y 3/2

SITE NO: 29

	Easting	Northing
TARGET:	649,654	5,189,494
ACTUAL:	649,655	5,189,502

Interval	Type	Texture	Vis. Salts	Color
000024	soil	CL	N	2.5Y 4/3
024044	soil	CL	Y1	2.5Y 3/2
044068	weathered bedrock	SiCL	Y1	2.5Y 5/2
068084	weathered bedrock	SiCL	N	2.5Y 5/3
084108	soft bedrock	SiC	N	2.5Y 5/3
108132	soft bedrock	SiC	N	2.5Y 5/2
132156	soft bedrock	CL	N	2.5Y 5/2
156180	soft bedrock	C	N	2.5Y 4/2
180204	soft bedrock	CL	N	2.5Y 4/2
204228	soft bedrock	CL+	N	2.5Y 4/2
228240	soft bedrock	CL	N	2.5Y 4/2

SITE NO: 30

	Easting	Northing
TARGET:	649,225	5,189,346
ACTUAL:	649,227	5,189,346

Interval	Type	Texture	Vis. Salts	Color
000018	soil	CL	N	2.5Y 5/3
018026	soil	SiC	Y1	2.5Y 5/2
026048	weathered bedrock	SiCL+	N	2.5Y 5/2
048068	weathered bedrock	SiC	N	2.5Y 5/2
068092	soft bedrock	SiCL+	N	2.5Y 5/2
092100	soft bedrock	SiCL	N	2.5Y 5/2
100110	soft bedrock	SiC	N	2.5Y 5/2
110126	soft bedrock	SiCL	N	2.5Y 5/2
126150	soft bedrock	SiCL	N	2.5Y5/3
150174	soft bedrock	SiCL	N	2.5Y 5/3
174198	soft bedrock	SiCL	N	2.5Y 5/3
198222	soft bedrock	SiCL	N	2.5Y 5/3
222240	soft bedrock	SiCL	N	2.5Y 5/3

SITE NO: 31

	Easting	Northing
TARGET:	649,123	5,189,231
ACTUAL:	649,123	5,189,235

Interval	Type	Texture	Vis. Salts	Color
000024	soil	CL	N	2.5Y 4/2
024048	soil	C	Y1	2.5Y 4/2
048072	weathered bedrock	SiC	Y1	2.5Y 5/2
072096	weathered bedrock	SiCL	Y1	2.5Y 4/2
096106	soft bedrock	SiCL	Y2	2.5Y 4/2
106124	soft bedrock	SiCL	N	2.5Y 4/3
124148	soft bedrock	CL	N	2.5Y 4/4
148158	soft bedrock	SiCL	N	2.5Y 4/3
158182	soft bedrock	SiC	N	2.5Y 4/2
182204	coal	coal	coal	coal
204228	soft bedrock	C	N	2.5Y 4/2
228240	soft bedrock	CL	N	2.5Y 4/2

SITE NO: 32

	Easting	Northing
TARGET:	649,023	5,189,381
ACTUAL:	649,024	5,189,381

Interval	Type	Texture	Vis. Salts	Color
000024	soil	C	N	2.5Y 4/1
024040	soft bedrock	SiC	Y1	2.5Y 4/1
040058	soft bedrock	SiC	N	2.5Y 5/3
058074	soft bedrock	SiC	Y1	2.5Y 4/2
074098	soft bedrock	SiC	N	5Y 3/2
098122	soft bedrock	SICL+	Y2	2.5Y 3/2
122128	soft bedrock	SiC	N	2.5Y 3/2
128152	soft bedrock	SICL+	N	2.5Y 5/4
152170	soft bedrock	SiC	N	2.5Y 5/3
170194	coal	coal	coal	coal
194204	soft bedrock	C	N	2.5Y 4/2
204224	soft bedrock	SiCL	N	2.5Y 4/2
224240	soft bedrock	SiCL	N	2.5Y 4/2

SITE NO: 33

	Easting	Northing
TARGET:	648,871	5,189,373
ACTUAL:	648,871	5,189,372

Interval	Type	Texture	Vis. Salts	Color
000024	soil	SiCL+	N	2.5Y 4/2
024048	soft bedrock	SiC	Y2	2.5Y 4/3
048072	soft bedrock	SiC	N	2.5Y 4/3
072080	soft bedrock	SiC	N	2.5Y 4/2
080104	soft bedrock	SiC	N	2.5Y 4/2
104120	soft bedrock	SiC	Y1	2.5Y 4/2
120132	soft bedrock	SiC-	Y1	2.5Y 4/2
132152	soft bedrock	SiC	Y1	2.5Y 4/2
152174	soft bedrock	SiCL	N	2.5Y 5/3
174194	soft bedrock	SiC	N	2.5Y 5/3
194230	coal	coal	coal	coal
230240	soft bedrock	C	N	2.5Y 5/2

SITE NO: 34

	Easting	Northing
TARGET:	648,852	5,189,219
ACTUAL:	648,849	5,189,221

Interval	Type	Texture	Vis. Salts	Color
000024	soil	SiCL+	N	2.5Y 4/2
024048	soft bedrock	SiCL+	Y2	2.5Y 4/2
048056	soft bedrock	SiC-	Y1	2.5Y 4/2
056080	soft bedrock	SiC-	Y1	2.5Y 4/2
080092	soft bedrock	SiCL	Y1	2.5Y 4/2
092114	soft bedrock	VFSCL	Y1	2.5Y 5/2
114156	coal, bottom 6 inches wet	coal	coal	coal
156180	soft bedrock	C	N	2.5Y 5/1
180204	soft bedrock	C	N	2.5Y 3/1
204228	soft bedrock	C	N	5Y 3/1
228240	soft bedrock	C	N	5Y 3/1

SITE NO: 35

	Easting	Northing
TARGET:	648,707	5,189,302
ACTUAL:	648,707	5,189,297

Interval	Type	Texture	Vis. Salts	Color
000024	soil	SiC-	N	2.5Y 4/1
024048	soft bedrock	SiC-	N	2.5Y 4/2
048060	soft bedrock	SiC	N	2.5Y 4/2
060084	soft bedrock	SiC-	Y1	2.5Y 5/2
084108	soft bedrock	SiC-	Y1	2.5Y 5/2
108130	soft bedrock	SiCL+	N	2.5Y 5/4
130164	coal	coal	coal	coal
164188	soft bedrock	C	N	2.5Y 5/1
188192	soft bedrock	C	N	2.5Y 4/1
192196	coal saturated w/ free water	coal	coal	coal
196216	soft bedrock	C	N	2.5Y 4/1
216240	soft bedrock	C	N	2.5Y 4/1

Left open - need bentonite

SITE NO: 36

	Easting	Northing
TARGET:	648,593	5,189,425
ACTUAL:	648,596	5,189,427

Interval	Type	Texture	Vis. Salts	Color
000024	soil	SiCL	N	2.5Y 5/2
024034	soft bedrock	SiC	Y2	2.5Y 5/2
034058	soft bedrock	SiC	Y1	2.5Y 5/2
058082	soft bedrock	SiC	Y2	2.5Y 4/2
082090	coal	coal	coal	coal
090114	soft bedrock	C	Y1	2.5Y 4/1
114132	soft bedrock	C	Y1	2.5Y 4/2
132156	soft bedrock	SiCL+	N	2.5Y 4/2
156180	soft bedrock	SiCL+	N	2.5Y 4/2
180196	soft bedrock	CL+	N	2.5Y 6/6
196240	coal w/ a few thin shale beads about 2 inch thick		coal	coal

SITE NO: 37

	Easting	Northing
TARGET:		
ACTUAL:	648,450	5,188,828

Interval	Type	Texture	Vis. Salts	Color
000024	soil	CL-	N	2.5Y 5/3
024048	soft bedrock	L	N	2.5Y 5/4
048072	soft bedrock	SiCL-	N	2.5Y 5/3
072084	soft bedrock	SiCL	N	2.5Y 5/4
084106	soft bedrock	SiCL+	N	2.5Y 5/3
106130	soft bedrock	SiCL	N	2.5Y 4/2
130154	soft bedrock	SiCL+	N	2.5Y 4/3
154176	soft bedrock	SiC	N	2.5Y 4/3
176180	soft bedrock	SiC	N	2.5Y 4/2
180204	soft bedrock	SiCL+	N	2.5Y 4/2
204226	soft bedrock	SiCL+	N	2.5Y 4/3
226240	soft bedrock	VFSL	N	2.5Y 4/3

backfilled to within 5 inches of surface.
Site 37A - attempted to 84 inches
648,433 5,188,748
very hard bedrock at 84 inches, could not be penetrated, samples discarded
textures = VFSL

SITE NO: 38

	Easting	Northing
TARGET:	648,314	5,188,878
ACTUAL:	648,316	5,188,875

Interval	Type	Texture	Vis. Salts	Color
000024	soil	L	N	2.5Y 5/6
024048	weathered rock	VFSL	N	2.5Y 6/4
048072	soft bedrock	VFSL	N	2.5Y 5/4
072096	soft bedrock	VFSL	N	2.5Y 5/3
096120	soft bedrock	VFSL	N	2.5Y 4/3
120144	soft bedrock	VFSL	N	2.5Y 5/2
144168	soft bedrock	VFSL	N	2.5Y 5/3
168192	soft bedrock	VFSL	N	2.5Y 5/2
192216	soft bedrock	VFSL	N	2.5Y 4/2
216240	soft bedrock	VFSL	N	2.5Y 5/2

Backfilled to within 4 inches of surface

SITE NO: 40

	Easting	Northing
TARGET:	648,180	5,188,696
ACTUAL:	648,182	5,188,694

Interval	Type	Texture	Vis. Salts	Color
000024	soil	CL+	N	2.5Y 5/3
024048	soil	CL+	N	2.5Y 5/3
048072	unconsolidated material	CL-	N	2.5Y 5/3
072096	unconsolidated material	CL-	N	2.5Y 4/3
096112	unconsolidated material	CL+	N	2.5Y 4/3
112136	unconsolidated material	CL	N	2.5Y 5/3
136160	soft bedrock	LVFS	N	2.5Y 6/3
160168	soft bedrock	LVFS (w/ 15% fg)	N	2.5Y 5/3
168192	soft bedrock	LVFS	N	2.5Y 5/3
192216	soft bedrock	LVFS	N	2.5Y 4/4
216240	soft bedrock	LVFS	N	2.5Y 5/4

Backfilled to within 5 feet . Flagged

SITE NO: 41

	Easting	Northing
TARGET:	648,155	5,188,558
ACTUAL:	648,156	5,188,557

Interval	Type	Texture	Vis. Salts	Color
000024	soil	CL	N	2.5Y 6/2
024048	soil	CL-	N	2.5Y 6/3
048072	unconsolidated material	CL-	N	2.5Y 5/3
072096	unconsolidated material	CL	N	2.5Y 4/2
096120	soft bedrock	CL	N	2.5Y 5/2
120132	soft bedrock	CL	N	2.5Y 5/3
132156	soft bedrock	CL+	N	2.5Y 4/3
156180	soft bedrock	C	N	2.5Y 3/1
180202	soft bedrock	C	N	2.5Y 4/2
202226	soft bedrock	CL	N	2.5Y 4/2
226240	soft bedrock	C	N	2.5Y 4/3

Backfilled to within 3 feet. Flagged

SITE NO: 43

	Easting	Northing
TARGET:	648,070	5,188,729
ACTUAL:	648,072	5,188,725

Interval	Type	Texture	Vis. Salts	Color
000024	soil	C	N	2.5Y 4/2
024048	soil	CL+	Y1 w/ carbonates	2.5Y 4/2
048072	unconsolidated material	CL+	Y1 w/ carbonates	2.5Y 4/2
072096	unconsolidated material	CL+	Y1 w/ carbonates	2.5Y 4/3
096120	unconsolidated material	CL+	N	2.5Y 4/3
120144	unconsolidated material	CL+	N	2.5Y 4/3
144168	soft bedrock	L	N	2.5Y 5/4
168182	soft bedrock	CL	N	2.5Y 5/4
182206	soft bedrock	CL	N	2.5Y 5/4
206216	soft bedrock	CL	N	2.5Y 5/2
216240	soft bedrock	LFS	N	2.5Y 4/3

Backfilled to within 8 feet of ground surface. Flagged

SITE NO: 45

	Easting	Northing
TARGET:	648,003	5,188,565
ACTUAL:	648,002	5,188,568

Interval	Type	Texture	Vis. Salts	Color
000024	soil	FSL	N	2.5Y 4/3
024048	weathered bedrock	C	N	2.5Y 5/3
048072	soft bedrock	LFS	N	2.5Y 5/3
072096	soft bedrock	LFS	N	2.5Y 5/3
096102	soft bedrock	SCL	N	2.5Y 4/2
102126	soft bedrock	C	N	2.5Y 5/3
126150	soft bedrock	C	N	2.5Y 5/4
150174	soft bedrock	C	N	2.5Y 3/2
174198	soft bedrock	C	N	2.5Y 4/3
198222	soft bedrock	C	N	2.5Y 4/2
222240	soft bedrock	CL	N	2.5Y 4/2

Backfilled to surface.

SITE NO: 46

	Easting	Northing
TARGET:	647,944	5,188,767
ACTUAL:	647,945	5,188,764

Interval	Type	Texture	Vis. Salts	Color
000024	soil	CL	N	2.5Y 5/3
024048	soil	CL	N	2.5Y 5/3
048072	soil	CL	N	2.5Y 4/3
072096	unconsolidated material	CL	Y1	2.5Y 4/2
096120	unconsolidated material	CL	Y1	2.5Y 4/3
120144	unconsolidated material	CL+	Y1	2.5Y 5/3
144166	unconsolidated material	CL	Y1	2.5Y 4/3
166190	unconsolidated material	CL	Y1	2.5Y 5/2
190194	unconsolidated material	CL	Y1	2.5Y 4/3
194216	unconsolidated material	FSL	Y2	2.5Y 4/3
216240	unconsolidated material	FSL	Y2	2.5Y 4/3

Backfilled to within 9 feet of surface. Flagged

SITE NO: 47

	Easting	Northing
TARGET:	647,937	5,188,875
ACTUAL:	647,933	5,188,874

Interval	Type	Texture	Vis. Salts	Color
000024	soil	CL	N	2.5Y 4/3
024048	soil	CL	N	2.5Y 5/2
048072	soft bedrock	SCL	N	2.5Y 5/4
072096	soft bedrock	SCL	N	2.5Y 5/3
096118	soft bedrock	SCL+	N	2.5Y 5/3
118124	coal	coal	coal	coal
124134	soft bedrock	C	N	2.5Y 7/2
134154	soft bedrock	C	N	2.5Y 7/2
154178	soft bedrock	SiC	N	2.5Y 6/2
178202	soft bedrock	C	N	2.5Y 5/2
202216	soft bedrock	SiC	N	2.5Y 4/2
216240	soft bedrock	SiL	N	2.5Y 5/2

backfilled to within 1 foot of ground surface. Flagged

SITE NO: 49

	Easting	Northing
TARGET:	647,806	5,188,807
ACTUAL:	647,806	5,188,810

Interval	Type	Texture	Vis. Salts	Color
000024	soil	VFSL	N	2.5Y 5/2
024048	weathered to soft bedrock	VFSL	N; many carbonates	2.5Y 5/2
048072	soft bedrock	VFSL	N	2.5Y 5/2
072096	soft bedrock	LVFS	N	2.5Y 5/2
096120	soft bedrock	LVFS	N	2.5Y 5/2
120144	soft bedrock	LVFS	N	2.5Y 5/2
144168	soft bedrock	LVFS	N	2.5Y 5/2
168192	soft bedrock	LVFS	N	2.5Y 5/2
192216	soft bedrock	LVFS	N	2.5Y 5/2
216240	soft bedrock	LVFS	N	2.5Y 5/2

Backfilled to within 2 feet of ground surface. Flagged

SITE NO: 50

	Easting	Northing
TARGET:	648,222	5,188,946
ACTUAL:	648,218	5,188,950

Interval	Type	Texture	Vis. Salts	Color
000024	soil	CL	N	2.5Y 5/2
024048	soft bedrock	SiCL	Y1	2.5Y 4/2
048052	soft bedrock	SiCL	Y2	2.5Y 4/2
052076	soft bedrock	SiCL	N	2.5Y 5/3
076100	soft bedrock	SiCL	N	2.5Y 5/2
100110	soft bedrock	SiCL	N	2.5Y 5/3
110134	soft bedrock	SiCL	N	2.5Y 5/3
134158	soft bedrock	SiCL	N	2.5Y 5/2
158182	soft bedrock	SiCL	N	2.5Y 5/4
182202	soft bedrock	SiL	N	2.5Y 5/3
202216	soft bedrock	SiL	N	2.5Y 5/2
216240	soft bedrock	VFLS	N	2.5Y 5/2

Backfilled to within 3.5 feet of surface. Flagged

SITE NO: 51

	Easting	Northing
TARGET:	648,041	5,188,969
ACTUAL:	648,042	5,188,973

Interval	Type	Texture	Vis. Salts	Color
000024	soil	C-	N	2.5Y 4/2
024048	soil	C-	Y1	2.5Y 4/2
048054	soil	C-	Y1	2.5Y 4/3
054078	very soft bedrock	SiL	N	2.5Y 6/4
078096	very soft bedrock	Si	N	2.5Y 6/4
096108	very soft bedrock	L	N	2.5Y 6/6
108130	very soft bedrock	L	N	2.5Y 6/3
130154	very soft bedrock	L-	N	2.5Y 6/6
154178	very soft bedrock	L-	N	2.5Y 6/6
178202	very soft bedrock	L-	N	2.5Y 6/4
202216	very soft bedrock	VFSL	N	2.5Y 6/4
216240	very soft bedrock	VFSL	N	2.5Y 6/4

Backfilled to within 3.5 feet of surface. Flagged

SITE NO: 52

	Easting	Northing
TARGET:	648,421	5,188,919
ACTUAL:	649,419	5,188,919

Interval	Type	Texture	Vis. Salts	Color
000024	soil	CL+	N	2.5Y 4/2
024048	soil	SiCL+	N	2.5Y 5/2
048072	unconsolidated material	SiCL+	Y1	2.5Y 5/3
072096	unconsolidated material	CL+	Y1	2.5Y 5/3
096120	unconsolidated material	CL+	Y1	2.5Y 5/3
120144	unconsolidated material	CL+	Y1	2.5Y 5/3
144168	unconsolidated material	CL+	Y1	2.5Y 5/2
168184	unconsolidated material	CL+	Y1	2.5Y 5/2
184194	coal	coal	coal	coal
194202	soft bedrock	SiC	Y1	2.5Y 6/2
202208	soft bedrock	CL	N	2.5Y 4/2
208230	soft bedrock	SiCL	N	2.5Y 5/2
230240	soft bedrock	SiCL	N	2.5Y 5/3

Backfilled to within 5 feet. Flagged

SITE NO: 53

	Easting	Northing
TARGET:	647,850	5,188,950
ACTUAL:	647,851	5,188,950

Interval	Type	Texture	Vis. Salts	Color
000024	soil	CL	N	2.5Y 4/3
024048	soil	C	N	2.5Y 4/2
048072	soil	C	Y1	2.5Y 4/2
072096	unconsolidated material	C	Y1	2.5Y 4/2
096120	unconsolidated material	C	Y1	2.5Y 4/2
120144	unconsolidated material	C	Y1	2.5Y 4/2
144154	unconsolidated material	CL	Y1	2.5Y 4/3
154170	unconsolidated material	CL	N	2.5Y 5/2
170184	soft bedrock	CL	N	2.5Y 5/2
184198	soft bedrock	CL	N	2.5Y 5/3
198216	soft bedrock	SiCL	N	2.5Y 5/3
216240	soft bedrock	CL	N	2.5Y 5/4

Backfilled to within 7 feet of surface. Flagged

South Heart - Suitable Overburden / Cover Material Sampling
Field Notes
October 25 - 29, 2007

Coordinates are provided in: NAD 1983 UTM Zone 13 North meters

Depth intervals are six digits with the first three representing the beginning and the second three representing the end of each sample zone.

For example, the interval 048072 represents the zone from 48 to 72 inches below ground surface.

Standard abbreviations were used for all textures.

All textures are estimates that are most accurate in unconsolidated soil and less accurate in zones of soft bedrock.

Field textures are best used for assessing the relative differences between strata in the same profile.

Where textures include a separate texture in parentheses, the texture is borderline (i.e., S(C)L is SL bordering on SCL)

The + and - symbols in the texture field note the abundance of clay within the textural class where a CL+ would be nearly C and a CL- would be nearly L.

The presence of visible salts is qualified by a relative abundance ranking of 1 to 3 where soils with a value of 1 exhibited the lowest abundance of visible crystals and soils with a value of 3 exhibited the highest abundance. Soils with values of 2 and 3 are far less likely to be suitable for salvage.

Salt crystals were often found in the presence of carbonates, making it difficult to discern their abundance. In addition, the churning of soil resulting from the use of an auger for sample collection made it more difficult to observe crystals in natural fractures.

Nearly all deep strata were moist, masking the presence of salts.