Client:					_		Project: SCI-823-0.00							Job No	. 0121	-3070	.03
LOG C	F: Bo	oring	B-170		_	ocation: Sta	a. 9+90.9, 70.5 ft. LT of CR 184 CL Date Drilled: 06	/12			to	(06/13/0	7			
Depth (ft)	Elev. (ft) 907.9	Blows per 6"	Recovery (in)	Sam No		Hand Penetro- meter (tsf)	WATER OBSERVATIONS: Water seepage at: Not Reported Water level at completion: 13.5' (includes drilling water0 DESCRIPTION	% Aggregate	M. Sand	% F. Sand	ON Silt	% Clay	Natur Pl	al Mois - ⊢—— Blows μ	er foot	ntent, % —— L - ○	
0 — - - -3.5	904.4	6 8 9	17	1			Medium dense brown SANDY SILT (A-4a), little gravel; damp.							О.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	·············/	
0.0		42 50/2	15	2			Severely weathered yellowish brown SILTSTONE.									\\ \	50+
——5.0—— — — —	902.9	Core 48"	Rec 48"	RQD 75%	R-1		Medium hard brown SANDSTONE interbedded with SILTSTONE; very fine to fine grained, highly weathered, argillaceous, medium bedded to massive, moderately to highly fractured.										
10 — — — — — — — — — — — — — — — — — — —		Core 120"	Rec 120"	RQD 82%	R-2		 @ 9.0'-9.8', broken. @ 10.8', 11.7', 12.6', 14.6', 14.9', 17.1', low angle fractures. @ 11.7'-12.3', partly formed high angle fracture. @ 14.0'-14.2', high angle fracture. 										
20 — — — — — — — — — — — — — — — — — — —		Core 120"	Rec 120"	RQD 82%	R-3		 @ 20.8', 21.4', 21.8', 22.9', 24.7', 26.0', 26.7', 26.6', 27.0', low angle fractures. @ 23.3'-24.1', high angle fracture. 										
- 30					$\mid \cdot \mid$		@ 29.0'-29.8', high angle fracture and broken zone.										

	TranSy				_		Project: SCI-823-0.00							Job No. 0121-3070.03
LOG C	F: Bo	ring	B-170		_	Location: Sta	a. 9+90.9, 70.5 ft. LT of CR 184 CL Date Drilled: 06	/12				to	(06/13/07
Depth (ft)	Elev. (ft)	Blows per 6"	Recovery (in)	Sam		Hand Penetro- meter (tsf)	WATER OBSERVATIONS: Water seepage at: Not Reported Water level at completion: 13.5' (includes drilling water0 DESCRIPTION	Aggregate	C. Sand	M. Sand	F. Sand	Silt	. Clay	STANDARD PENETRATION (N) Natural Moisture Content, % - PL LL Blows per foot -
<u>√30.0</u>	877.8 \877.9	B	B	Q	P		\@ 30.0', 33.1', 33.7', 35.6', 48.3', 46.0', low angle fractures.	%	%	%	%	%	%	10 20 30 40
35 —	077.3	Core 120"	Rec 120"	RQD 81%	R-4		Soft to medium hard brown and gray SANDSTONE; very fine to fine grained, highly weathered, medium bedded to massive, moderately fractured, contains few argillaceous laminations. @ 30.3'-30.5', decomposed argillaceous zone. @ 33.7'-34.3', high angle fracture. @ 34.6'-34.9', decomposed broken zone.							
40 — 	861.1	Core 120"	Rec 116"	RQD 78%	R-5		@ 41.1'-42.1', broken zone. @ 46.2', 48.9', 49.2', 49.3', 49.5', 49.9', 50.5', 52.3', 52.5', 53.2', 54.2', low angle fractures. Soft to medium hard gray SANDSTONE; very fine to fine grained,	_						
50 — 50 — 54.2 — 54.2 — 555 — 60	- - - - - - - - - - - - - - - - - - -	Core 120"	Rec 120"	RQD 69%	R-6		moderately to highly weathered, argillaceous, micaceous, thinly laminated to medium bedded, slightly fractured, formation prone to parting; contains moderate argillaceous laminations. @ 49.3'-49.5', 50.0'-50.5', high angle rust stained fractures. Soft to medium hard gray SANDSTONE interbedded with SILTSTONE; very fine to fine grained, moderately to highly weathered, argillaceous, micaceous, thinly laminated to thinly bedded, moderately to highly fractured, formation prone to parting. @ 54.3'- 59.7', numerous low angle fractures.							

Client:	TranSy	stems	, Inc.				Project: SCI-823-0.00								Job No	. 0121	-3070	.03
LOG (DF: Bo	ring	B-170		_	ocation: St	a. 9+90.9, 70.5 ft. LT of CR 184 CL Date Drilled: 06	3/12				to	(06/13/0)7			
Donth	Flore	er 6"	ry (in)	Sam No		Hand Penetro- meter	WATER OBSERVATIONS: Water seepage at: Not Reported Water level at completion: 13.5' (includes drilling water0	gate		Sand	Sand	ON_			NDARD ral Moist			
Depth (ft)	Elev. (ft) 847.8	Blows per 6"	Recovery	Drive	Press /	(tsf)	DESCRIPTION Soft to medium hard SANDSTONE interbedded with SILTSTONE	% Aggregate	% C. Sand	% M. Sa	% F. Sa	% Silt	% Clay		L ⊢ Blows p 0 20	er foot		.L 40
 65 —- 70 —-	- - - - - - - -	Core 120"	Rec 120" Rec 72"	RQD 80% RQD 90%			very fine to fine grained, moderately to highly weathered, argillaceous, arenaceous, micaceous, thinly laminated to thinly bedded, moderately to highly fractured, formation prone to parting. @ 60.0'-74.2', numerous low angle fractures. @ 65.0'-65.3', high angle fracture.	3										
75.0 - - - - 80 —	832.9						Bottom of Boring - 75.0'	-										
85 — - - - - - 90 —	- - - - -																	

Client:					_		Project: SCI-823-0.00							Job No	. 0121	-3070	.03
LOG C	F: Bo	ring	B-170		_	ocation: Sta	a. 13+76.8, 49.1 ft. LT of CR 184 CL Date Drilled: 06	/13									
Depth (ft)	Elev. (ft) 950.5	Blows per 6"	Recovery (in)	Sam _i No		Hand Penetro- meter (tsf)	WATER OBSERVATIONS: Water seepage at: Not Reported Water level at completion: 6.8' (includes drilling water) DESCRIPTION	% Aggregate		% F. Sand	N Silt	% Clay	Natui Pi	ral Mois ∟ ⊢— Blows į	per foot	ntent, % —— \ L - ○	
0 — - - - 5 —		4 4 9 22 24 48	16	1 2			Medium dense to very dense yellowish brown and light gray SANDY SILT (A-4a), little fine sand, trace gravel, trace silty clay; dry to damp.							Ω	/		○72 →
-6.0 -7.0	-944.5- -943.5-	45 50/3	18	3			Severely weathered brown SILTSTONE.										50.
10 —	940.0	Core 30"	Rec 30"	RQD 70%	R-1		Medium hard brown SANDSTONE; very fine to fine grained, highly weathered to decomposed, argillaceous, massive, highly fractured to broken.										
-	937.8	Core 60"	Rec 60"	RQD 63%	R-2		Medium hard to hard gray SANDSTONE; very fine to fine grained, moderately weathered, argillaceous, micaceous, massive, slightly										
15 — 15 May 3:25 PM 3:		Core 120"	Rec 120"	RQD 96%	R-3		fractured, contains few argillaceous laminations. @ 13.0', 14.8', 23.4', low angle fractures.										
25 — 25 — 25 — 25 — 25 — 25 — 25 — 25 —	-	Core	Rec 120"	RQD	R-4		@ 28.7', 29.2', low angle fractures.										

	TranSy				_		Project: SCI-823-0.00							Job No.	0121-	3070.	03
LOG	DF: Bo	ring	B-170			ocation: St	a. 13+76.8, 49.1 ft. LT of CR 184 CL Date Drilled: 06	3/13			A T'	<u> </u>					
			_	Sam No		Hand	WATER OBSERVATIONS: Water seepage at: Not Reported		Gi	RAD	ATIO	ON_					
Depth (ft)	Elev. (ft)	vs per 6"	Recovery (in)	Φ.	ss / Core	Penetro- meter (tsf)	Water level at completion: 6.8' (includes drilling water)	Aggregate	. Sand	M. Sand	. Sand	Silt	Clay	STANDARD I Natural Moistu PL ⊢——	ure Cont	ent, % —⊢ Li	-
	920.5	Blows ,	Rec	Drive	Press ,	. ,	DESCRIPTION	%	% C	W %	% F.	% S	%	Blows po 10 20			0
35 —	920.5	Core 120"	Rec 120"	RQD 97%			Medium hard to hard gray SANDSTONE; very fine to fine grained slightly to moderately weathered, argillaceous, micaceous, massive, slightly fractured, contains few argillaceous laminations. @ 37.0'-48.9', few to moderate argillaceous laminations. @ 37.8'-38.2', high angle fracture. @ 39.0', 40.5', 43.4', 45.7', 46.7', 47.8', 50.5', low angle fractures.										
45 — 55.0— 55.0— 60 — 5	895.5	Core 6"	Rec 120" Rec 6"	RQD 97% RQD 100%	R-7		Bottom of Boring - 55.0'	-									

Client:	TranSy	stems	, Inc.				Project: SCI-823-0.00						Job No. 0121-3	3070.03
LOG ()F: Bo	ring	B-170			ocation: Sta	a. 17+36.8, 25.2 ft. RT of CR 184 CL Date Drilled: 05	5/31						
Depth (ft)	Elev. (ft) 952.3	Blows per 6"	Recovery (in)	Sam, No		Hand Penetro- meter (tsf)	WATER OBSERVATIONS: Water seepage at: Not Reported Water level at completion: 4.7' (includes drilling water) DESCRIPTION	% Aggregate	% C. Sand	% M. Sand	% F. Sand	% Clay	STANDARD PENETR Natural Moisture Conte PL	ent, % - ● → LL
	952.0-	4 4 3 3 2 3 3 3 2 2 2 2 3 7 14 11 18 22	15	3 4			Topsoil - 4" Loose to medium dense dark brown SANDY SILT (A-4a), some fine to coarse sand, little to some gravel, trace clay; damp. @ 6.0'-12.5', orangeish brown.							
13.5—13.5—15—15—15—15—15—15—15—15—15—15—15—15—15	938.8-	9 38 50/4 50/5 44 50/3 50/3 Core 60"	9 3 Rec 60"	8 8 9 RQD 75%	R-1		Severely weathered orangeish gray SANDSTONE. Medium hard to hard gray and brown SANDSTONE; very fine to fine grained, highly weathered, argillaceous, thinly laminated to medium bedded, highly fractured.							50+C
26.5 - - - - 30	925.8						Bottom of Boring - 26.5'							

	TranSy				_		Project: SCI-823-0.00							Job I	Vo. 012	1-3070	.03
LOG	DF: Bo	ring	B-170		_	ocation: Sta	a. 17+07.6, 121.9 ft. RT of CR 184 CL Date Drilled: 06	/11		740	A T/	<u> </u>					
Depth (ft)	Elev. (ft) 912.6	Blows per 6"	Recovery (in)	Sam No		Hand Penetro- meter (tsf)	WATER OBSERVATIONS: Water seepage at: Not Reported Water level at completion: Not Reported DESCRIPTION	% Aggregate	C. Sand	% M. Sand	% F. Sand	% Silt	% Clay	STANDAF Natural Mo PL ⊢ Blow 10	isture Co	ntent, %	5 - •
5 — 5 — 10 — —11.0—		5 10 10 8 12 16 8 15 20 7 17 33 26 50/3	18	1 2 3 4 5	R-1		Medium dense to dense yellowish brown SANDY SILT (A-4a), little gravel, trace silty clay; contains rock fragments; damp. Severely weathered gray SILTSTONE. Soft to medium hard brown SANDSTONE; very fine to fine grained, highly weathered, argillaceous, massive, highly fractured. @ 13.9'-14.8', decomposed high angle fracture with infilling. @ 16.1'-16.7', high angle fracture. Bottom of Boring - 18.0'										

Client: 1	ΓranSy	/stems	, Inc.				Project: SCI-823-0.00								Job N	o. 012	1-307	0.03
LOG O	F: Bo	oring	R-558		_	Location: St	a. 629+24.7, 118.1 ft. RT of SR 823 CL Date Drilled: 05	5/26				to	()5/31/0)5			
Depth (ft)	Elev. (ft)	Blows per 6"	Recovery (in)	Sar N	/ Core		WATER OBSERVATIONS: Water seepage at: None Water level at completion: None (Prior to coring) 8.0' (Includes drilling water) DESCRIPTION	% Aggregate		M. Sand	F. Sand	Silt	Clay	Natu	ral Mois _ ⊢—	D PENE sture Co per foo	ontent,	% - (
_0.2=	984.1 983.9		Я		10		Toposil 0"	1%	%	%	%	%	%	1	0 .	20	30	40
_		2 3 5	14	1		2.5	Very stiff brown SILT AND CLAY (A-6a), some fine to coarse sand, little gravel; damp.							Ó				
5 		11 16 30	15	2		2.25	@ 3.5'-5.0', contains rock fragments.											/
6.0—	 978.1-	15 50/4	10	3		4.5+	Severely weathered brownish gray SHALE.											
10 —		50/4	3	4														
_		34 50/4	9	5														
_ _ 15 		15 35 50	18	6			@ 13.5'-15.0', gray.											08
6.0—	- 968.1 -	50/4	3	7			Brownish gray SANDSTONE fragments.	1										
17.5 20 	- 966.6 -	Core 54"	Rec 41"	RQI 20%	O R-1	*77	Medium hard brown SANDSTONE; very fine to fine grained, decomposed to highly weathered, argillaceous, micaceous, laminated to medium bedded, highly fractured to broken, iron stained fractures, contains few to moderate argillaceous laminations.											
							@ 22.0'-30.0', brownish gray. @ 24.5',26.7',27.3', high angle fractures.											
25 -		Core 120"	Rec 120"	RQI 91%	O 6 R-2	2 *88	و عربي , عربي , mgn angle fractures.											
- 30																		

	TranSy				_		Project: SCI-823-0.00						Job No.	0121-3	070.03	
LOG (F: Bo	ring	R-558		_	ocation: St	a. 629+24.7, 118.1 ft. RT of SR 823 CL Date Drilled: 05	/26			to	(05/31/05			_
Depth (ft)	Elev. (ft) 954.0	Blows per 6"	Recovery (in)	Sam No		Hand Penetro- meter (tsf)	WATER OBSERVATIONS: Water seepage at: None Water level at completion: None (Prior to coring) 8.0' (Includes drilling water) DESCRIPTION	% Aggregate	% M. Sand	% F. Sand	% Silt NO	% Clay	STANDARD F Natural Moistu PL ⊢ Blows pe 10 20	re Conte	nt, % - → LL	· .
35 — 40 — 41.3 — 45 — -	942.8	Core 120"	Rec 120"	RQD 89%	R-3	*184	Medium hard brown SANDSTONE; very fine to fine grained, decomposed to highly weathered, argillaceous, micaceous, laminated to medium bedded, highly fractured to broken, iron stained fractures; contains few to moderate argillaceous laminations. @ 38.1', high angle rust stained fracture. Medium hard to hard gray SANDSTONE; very fine to fine grained, moderately weathered, argillaceous, micaceous, thinly bedded to thickly bedded, slightly fractured; contains few argillaceous laminations.									
50.000-031 5/23/2014 5/23/	932.6-	Core 120"	Rec 120"	RQD 95%	R-5	*220	Very hard brownish orange SANDSTONE; very fine to fine grained, highly weathered, calcareous, fossiliferous, thickly bedded, slightly fractured. Hard gray SANDSTONE; highly to slightly weathered, micaceous, very thickly bedded, slightly fractured, contains iron staining.									

	TranSy						Project: SCI-823-0.00							Job No.	0121	-3070	.03
LOG	DF: Bo	ring	R-558		_	ocation: Sta	a. 629+24.7, 118.1 ft. RT of SR 823 CL Date Drilled: 05	/26			to	(05/31/0)5			
Depth (ft)	Elev. (ft) 924.0	Blows per 6"	Recovery (in)	Sam _i No		Hand Penetro- meter (tsf)	WATER OBSERVATIONS: Water seepage at: None Water level at completion: None (Prior to coring) 8.0' (Includes drilling water) DESCRIPTION	% Aggregate		% F. Sand	N Silt	% Clay	Natu P	NDARD i ral Moistu L ⊢—— Blows p 0 20	ure Con er foot	ntent, % —— L - ○	-
-62.0-							Hard gray SANDSTONE; slightly weathered, micaceous, very thickly bedded, slightly fractured, contains iron staining.										
70 — 62.0 — 65 — 65 — 65 — 65 — 65 — 65 — 65 — 6	922.1-						Bottom of Boring - 62.0'										

Client:	TranSy	stems	, Inc.				Project: SCI-823-0.00							Job No. 0121-3070.03
LOG C	OF: Bo	ring	R-560		_	ocation: Sta	a. 630+08.0, 162.3 ft. LT of SR 823 CL Date Drilled: 05	5/26						
Depth (ft)	Elev. (ft) 973.1	Blows per 6"	Recovery (in)	Sam No		Hand Penetro- meter (tsf)	WATER OBSERVATIONS: Water seepage at: None Water level at completion: None (Prior to coring) DESCRIPTION	% Aggregate	G. Sand	M. Sand	% F. Sand	% Silt	% Clay	STANDARD PENETRATION (N) Natural Moisture Content, % - ● PL ├────────────────────────────────────
-0.2 - - - - 5	972.9	2 4 7 7 50/5	14	1 2		2.25 4.5+	Topsoil - 2" Very stiff to hard brown SANDY SILT (A-4a), little clay, little gravel; contains rock fragments; damp.							50#(
		12 50/5 12 29 37 22 46 50/3 33 50/5		3 4 5 6			Severely weathered brown SHALE. @ 13.5'-19.4', gray.							50+(50+(50+(50+(
25 — - - -	950.6-	50 50/3 36 50/4 Core 120"	9 10 Rec 107"	8 9 9 RQD 65%	R-1	*321	@ 21.0'-21.8', brown, contains rust stains. Soft to medium hard brownish gray SANDSTONE; very fine to fine grained, highly weathered to decomposed, argillaceous, micaceous, thinly laminated to thinly bedded, highly fractured. @ 23.5', 24.9', high angle fractures. Medium hard gray SANDSTONE; very fine to fine grained.							50+C

Client:	TranSy	stems	, Inc.		_		Project: SCI-823-0.00							Job N	lo. 0121	-3070	.03
LOG (F: Bo	ring	R-560			ocation: St	a. 630+08.0, 162.3 ft. LT of SR 823 CL Date Drilled: 05	/26						•			
				Sam _l No		Hand	WATER OBSERVATIONS: Water seepage at: None		GI	RAD	ATIO	<u>ON</u>					
Depth (ft)	Elev. (ft)	Blows per 6"	Recovery (in)	Drive	Press / Core	Penetro- meter (tsf)	Water level at completion: None (Prior to coring) DESCRIPTION	% Aggregate	% C. Sand	% M. Sand	% F. Sand	% Silt	% Clay	Blows	s per foot	ntent, % —— \ L - ○	.L
- - - 35 —	943.0		Rec	RQD			Medium hard gray SANDSTONE; very fine to fine grained, moderately weathered, argillaceous, micaceous, medium bedded to thinly bedded, moderately fractured, contains moderate argillaceous laminations. @ 30.7', interbedded shale.							10	20 3	0 4	10
-37.5- -38.7- 40 - - - 45	935.6-	Core 120"	120"	93%	R-2	*143	Soft gray SHALE interbedded with SANDSTONE; very fine grained, highly weathered, micaceous, thinly laminated, moderately fractured. Medium hard brown SANDSTONE; very fine to fine grained, highly weathered, argillaceous, micaceous, medium bedded to thickly bedded, slightly fractured, iron stained. @ 38.7' to 41.5', contains calcareous bands.										
50 — 50 — 52.5—	920.6-	Core 120"	Rec 116"	RQD 93%	R-3	*353	@ 49.0'-52.5', gray, interbedded with siltstone, micaceous, pyritic, argillaceous, laminated.										
55 - 0121-2010-03	-						Bottom of Boring - 52.5'										

Client:					_		Project: SCI-823-0.00							Job No. 0121-3070.03
LOG C	F: Bo	ring	R-598		_	ocation: Sta	a. 657+37.3, 1.0 ft. LT of SR 823 CL Date Drilled: 6/	21/			:	<u> </u>		
Depth (ft)	Elev.	Blows per 6"	Recovery (in)	Sam No		Hand Penetro- meter (tsf)	WATER OBSERVATIONS: Water seepage at: None Water level at completion: None (prior to coring) 12.2' (includes drilling water) DESCRIPTION	% Aggregate		% M. Sand	% F. Sand	N Silt	% Clay	, –
<u>0.4</u>	782.0 -781.6-		4	7	14		¬Topsoil - 5"	- %	%	%	%	%	%	<u>10 20 30 40</u>
-		13 14 18	15	1			Very stiff brown SANDY SILT (A-4a), little gravel, trace clay; contains rock fragments; damp.							, o
5 —	<u> </u> - 	8 9 11	13	2										γ .
- -	-	6 8 8	7	3			@ 8.5'-8.9', severely weathered brown and gray SHALE fragments.							6
10 — - -	773.0	30/3					Soft brown SHALE; very fine grained, decomposed weathered, highly fractured.							507.
15 — - - - -	- 768.5-	Core 120"	Rec 120"	RQD 47%	R-1		Medium hard gray SHALE interbedded with gray fine grained SANDSTONE; very fine to fine grained, decomposed to highly weathered, micaceous, laminated to thinly bedded, highly fractured.							
20 —		Core	Rec	RQD 66%	R-2									
25 — —26.5 — —	755.5-	120"	120"	- 66% 	-		Hard gray SANDSTONE; fine grained, highly to moderately weathered, argillaceous, micaceous, laminated to thickly bedded, slightly fractured.	_						

	TranSy				_		Project: SCI-823-0.00						Job No. 0121-3070.03
LOG	OF: Bo	ring	R-598			ocation: Sta	a. 657+37.3, 1.0 ft. LT of SR 823 CL Date Drilled: 6/	21/(T	240	ATIO	<u> </u>		
Depth (ft)	Elev. (ft) 751.9	Blows per 6"	Recovery (in)	Sam No		Hand Penetro- meter (tsf)	OBSERVATIONS: Water seepage at: None Water level at completion: None (prior to coring) 12.2' (includes drilling water) DESCRIPTION	% Aggregate	% M. Sand	and	% Silt	% Clay	STANDARD PENETRATION (N) Natural Moisture Content, % - ● PL ├────────────────────────────────────
-33.5 35 - 40 - 45 - 55 -	748.5	Core 54"	Rec 54"	RQD 94%	R-3		Hard gray SANDSTONE; fine grained, highly to moderately weathered, argillaceous, micaceous, laminated to thickly bedded, slightly fractured. Bottom of Boring - 33.5'						

Client:					_		Project: SCI-823-0.00							Job No	. 0121-	3070.0	3
LOG C	F: Bo	ring	R-764		_	ocation: ST	a. 822+46.7, 107.9 ft. RT of SR 823 CL Date Drilled: 08	3/16			A T'	24.					
Depth (ft)	Elev. (ft)	Blows per 6"	Recovery (in)	Sam _l No		Hand Penetro- meter (tsf)	WATER OBSERVATIONS: Water seepage at: None Water level at completion: None (prior to coring) 8.0' (inside hollowstem augers) DESCRIPTION	% Aggregate		Sand	% F. Sand	% Silt	% Clay			ent, % - ── LL	
	780.4 -780.1- -777.4-	21 29 35 18	10	1 2		4.5+	Topsoil - 4" / 6" soil removed before drilling. Very dense brown SILT (A-4b), little clay, trace fine sand; slightly organic; damp. Hard brown SILTY CLAY (A-6b), trace fine sand; damp.		3.		3.	5.	3.	70 2		40	Ö
5 — -5.5 — - -	-774.9-	29 37 45	18	3			Severely weathered brown SHALE, arenaceous.									o o)62)82
10		12 21 50/5 14 15 21 49 50/2		5 6												X ()	50
-15.0 - - - - - - 20	765.4-	Core 120"	Rec 120"	RQD 65%	R1		Soft brown SHALE; very fine grained, highly weathered to decomposed, arenaceous, thinly laminated to laminated, highly fractured to broken. @ 18.8'-19.1', 20.2'-20.6', 20.8'-21.7', iron stained high angle fractures.										50
-23.3 -23.3 - 25	-757.1 -						Soft gray SHALE; very fine grained, highly weathered to decomposed, arenaceous, thinly laminated to laminated, mechanical fractures.	_									
- - 30		Core	Rec	RQD													

Client:					_		Project: SCI-823-0.00							Job No. 0121-3070.03
LOG C	DF: Bo	ring	R-764		_	ocation: ST	a. 822+46.7, 107.9 ft. RT of SR 823 CL Date Drilled: 08	3/16 T		240	ATIC	<u> </u>		
Depth (ft)	Elev. (ft) 750.4	Blows per 6"	Recovery (in)	Sam No		Hand Penetro- meter (tsf)	OBSERVATIONS: Water seepage at: None Water level at completion: None (prior to coring) 8.0' (inside hollowstem augers) DESCRIPTION	% Aggregate	% C. Sand		and	% Silt	% Clay	STANDARD PENETRATION (N) Natural Moisture Content, % - ● PL ├────────────────────────────────────
- - - - 35 —	-	120"	120"	91%	R2		Soft gray SHALE; very fine grained, highly weathered to decomposed, arenaceous, thinly laminated to laminated, mechanical fractures.							
40 — - - - - - - 45 —	-	Core 120"	Rec 120"	RQD 81%	R3									
50 —		Core 120"	Rec 120"	RQD 51%	R4									
55 —	-	Core	Rec	RQD										

	TranSy				_		Project: SCI-823-0.00						Job No. 0121-3070.03
LOG C	F: Bo	ring	R-764	Sam		ocation: ST	a. 822+46.7, 107.9 ft. RT of SR 823 CL Date Drilled: 09	8/16 T		ATIO	<u> </u>		Τ
Depth (ft)	Elev. (ft) 720.3	Blows per 6"	Recovery (in)	Drive		Hand Penetro- meter (tsf)	OBSERVATIONS: Water seepage at: None Water level at completion: None (prior to coring) 8.0' (inside hollowstem augers) DESCRIPTION	% Aggregate	% M. Sand		% Silt	% Clay	STANDARD PENETRATION (N) Natural Moisture Content, % - PL
- - - 65.0	715.4	120"	120"	59%			Soft gray SHALE; very fine grained, highly weathered to decomposed, arenaceous, thinly laminated to laminated, mechanical fractures.						
-65.0—	715.4						Bottom of Boring - 65.0'						

Client:					_		Project: SCI-823-0.00								Job No	. 0121	-3070	.03
LOG C	F: Bo	ring	R-790			ocation: Sta	a. 858+21.5, 130.5 ft. LT of SR 823 CL Date Drilled: 08	3/31										
Depth (ft)	Elev. (ft)	Blows per 6"	Recovery (in)	Sam _l No		Hand Penetro- meter (tsf)	WATER OBSERVATIONS: Water seepage at: None Water level at completion: None (Prior to coring) 19.5' (Includes drilling water) DESCRIPTION	Aggregate	C. Sand	∑.	F. Sand	Silt	Clay	Natur	al Mois - ⊢—	PENET ture Cor	ntent, %	- •
—	657.9	BI	Re	Ď	Pr			%	%	%	%	%	%	1			0 4	10
	657.6	7 14 33	12	1			Topsoil - 3" Hard brown SILTY CLAY (A-6b), some fine to coarse sand, little gravel; damp.	11	13		15	6	 1 		● : +			: : : : : : Q
3.0 - 5 —	654.9	14 50/6	10	2			Hard brown CLAY (A-7-6), "and" silt, trace fine to coarse sand; damp.	0	2		4	49	45		•			50+
 5.5 -	652.4	24 50/5	9	3			Hard brown SILTY CLAY (A-6b), trace fine to coarse sand; damp.	0	1		2	48	49		•			50+
8.5 _ 10 —	649.4	Core 18"	Rec 18"	RQD 25%	R1		Soft to medium hard greenish brown SHALE; very fine grained, highly weathered, argillaceous, thinly laminated to laminated, highly fractured.											
_ _ _		Core 60"	Rec 60"	RQD 73%	R2		@ 10.3', 12.0', 12.1', 12.3', 14.4', high angle fractures. @ 12.7'-12.9', sandstone beds with iron staining.											
15 — — — — — — — — — — — — — — — — — — —	643.7-	Core 120"	Rec 120"	RQD 73%	R3		Hard to very hard light to dark brown, gray SANDSTONE; fine grained, highly weathered, micaceous, medium bedded to thickly bedded, moderately to highly fractured. @ 15.0'-15.3', 17.2', 17.4'- 17.7', 21.6'-21.9', high angle fractures. @ 16.6', clay seam. @ 17.7'-20.5', light brown sandstone with interbedded shale. @ 20.5'-25.0', sandstone of varying color, pitted in some areas.											
25.0 	632.9	Core	Rec	RQD			Hard to very hard light gray SANDSTONE; very fine to fine grained, slightly weathered, micaceous, thickly bedded, moderately to highly fractured. @ 25.6', 28.0', 29.9', low angle fractures. @ 26.2'-26.4', 27.0'-27.2', high angle fractures. @ 26.8'-27.5', 28.2'-28.8', moderate argillaceous laminations.											

	TranSy				_		Project: SCI-823-0.00							Job No. 0121-3070.03
LOG (DF: Bo	ring	R-790		_	ocation: Sta	a. 858+21.5, 130.5 ft. LT of SR 823 CL Date Drilled: 08	3/31		745	A T.	<u> </u>		
Depth (ft)	Elev. (ft) 627.9	Blows per 6"	Recovery (in)	Sam		Hand Penetro- meter (tsf)	WATER OBSERVATIONS: Water seepage at: None Water level at completion: None (Prior to coring) 19.5' (Includes drilling water) DESCRIPTION	% Aggregate	C. Sand	% M. Sand	% F. Sand	% Silt	% Clay	STANDARD PENETRATION (N) Natural Moisture Content, % - PL
35.0—35.0—35.0—	-622.9	120"	120"	83%	R4		Hard brown SANDSTONE; medium grained, moderately to highly weathered, micaceous, medium bedded, moderately fractured. @ 30.2', 30.9', 31.8', low angle fractures. @ 31.9'-33.0', gray, turbidity weathering. @ 33.0'-33.2', high angle fracture. @ 34.3'-35.0', gray, broken. Bottom of Boring - 35.0'							

Client:					_		Project: SCI-823-0.00							Jo	ob No.	0121	1-3070	0.03
LOG C	F: Bo	ring I	R-794		_	<i>₋ocation:</i> Sta	i. 862+28.7, 6.5 ft. RT of SR 823 CL Date Drilled: 08 WATER	3/30 T			ATIC	24/	-					
Depth (ft)	Elev. (ft) 676.9	Blows per 6"	Recovery (in)	Sam No		Hand Penetro- meter (tsf)	OBSERVATIONS: Water seepage at: None Water level at completion: None (Prior to coring) 5.8' (Includes drilling water) DESCRIPTION	% Aggregate			F. Sand	Silt	% Clay	STANE Natural PL B. 10	Moistu	ire Coi er foot	ntent, %	% - •
0 0.5	676.4	16 18 18	17	1		4.5+	Topsoil - 6" Hard brown SILT AND CLAY (A-6a), trace fine to coarse sand; damp.	0	2	-		62			<u> </u>			
3.0 5 5.5	673.9 671.4	16 19 22	18	2		4.5	Hard brown CLAY (A-7-6), little fine to coarse sand; damp to moist.	0	1		12	40	47		•			<u> </u>
- J.J		14 14 19	18	3		3.5	Very stiff brown SANDY SILT (A-4a), some clay; damp to moist.	0	0		28	47	25		•	-1	,d	
10 10.5	666.4	6 8 8	16	4		2.0	Stiff brown SILT (A-4b), some fine sand, some clay; damp to	-							9			
-	-	⁴ 6 6 7 10	18	5		1.5	moist.	0	0		27	51	22	d		•		
15 — —15.5— —	661.4	24 26 29	17	7		4.5+	Hard brown SANDY SILT (A-4a), little gravel, little clay; damp to moist.	14	18		16	40	12	•		1	No	on-Plastic
	658.4	32 32 39	18	8			Severely weathered brown SANDSTONE argillaceous.	-										○55 →
r		50/1	1	9														50+
-	654.9	Core 96"	Rec 96"	RQD 94%	R1		Soft to medium hard gray SHALE interbedded with SANDSTONE; very fine grained, highly weathered, micaceous, laminated to thinly bedded, moderately fractured. ② 22.2', 22.5', 23.0', 23.6', low angle fractures. Soft to medium hard gray SHALE; highly weathered, micaceous, arenaceous, thinly laminated to laminated, moderately fractured. ② 27.6', 30.0', low angle fractures.											

	TranSy				_		Project: SCI-823-0.00						Job No. 0121-3070.03
LOG	OF: Bo	ring	R-794	Sam		.ocation: Sta	a. 862+28.7, 6.5 ft. RT of SR 823 CL Date Drilled: 08	3/30 T		ATIO	ON.		
Depth (ft)	Elev. (ft) 646.9	Blows per 6"	Recovery (in)	Drive		Hand Penetro- meter (tsf)	OBSERVATIONS: Water seepage at: None Water level at completion: None (Prior to coring) 5.8' (Includes drilling water) DESCRIPTION	% Aggregate	% M. Sand	% F. Sand	% Silt	% Clay	STANDARD PENETRATION (N) Natural Moisture Content, % - ● PL ├────────────────────────────────────
45 — 55 — 60 —	-644.4-	Core 60"	Rec 60"	RQD 73%	R2		Soft to medium hard gray SHALE; highly weathered, micaceous, arenaceous, thinly laminated to laminated, moderately fractured. @ 30.3', 31.3', 32.1', 32.4', low angle fractures. @ 31.6'-31.9', 34.0'-34.3', broken zones, high angle fractures. Hard gray SANDSTONE; very fine to fine grained, moderately weathered, argillaceous, micaceous, thickly bedded. @ 33.0', low angle fracture. @ 34.0'-34.2', argillaceous bed. Bottom of Boring - 35.0'						

Client:					_		Project: SCI-823-0.00								b No. 01	21-307	0.03
LOG C)F: Bo	ring	R-257		_	ocation: Sta	a. 639+00.0, 5.8 ft. LT of SR 823 CL Date Drilled: 02	2/01				to	(02/02/06			
Depth (ft)	Elev. (ft)	Blows per 6"	Recovery (in)	Sam		Hand Penetro- meter (tsf)	WATER OBSERVATIONS: Water seepage at: None Water level at completion: None (Prior to coring) 75.0' (Includes drilling water) DESCRIPTION	% Aggregate		% M. Sand	% F. Sand	% Silt	% Clay	Natural I PL + Blo	ARD PEN Moisture (Content, ————————————————————————————————————	% - • LL
0.3̂	894.7 894.4	_ F	4	7	1		``\Topsoil - 4"	0/	0/	0/	0/	0/	0/	10	20	30	40
- - -	-	3 3 4	13	1			Hard brown SILT AND CLAY (A-6a), trace fine to coarse sand; contains sandstone fragments; dry to damp.							ď			
 5.0	889.7	14		2			Severely weathered brown SANDSTONE, argillaceous.	1								$+$ \sim	
6.0 - - - 10	- 888.7-	20 50/3 Core 108"	14 Rec 108"	RQD 51%	R1	*365	Medium hard light brown SANDSTONE; fine grained, highly weathered, micaceous, thickly bedded, argillaceous, highly fractured to broken, clay infilled seams.										507
- - 141-	- 990 6						@ 12.8'-13.3', argillaceous laminations, highly weathered to decomposed.										
15 — 14.1 — — — — — — — — — — — — — — — — — — —	880.6	Core 120"	Rec 119"	RQD 86%	R2	*111	Medium hard to hard brown and gray SANDSTONE; very fine to fine grained, moderately to highly weathered, argillaceous, micaceous, massive, moderately fractured. @ 15.3', 16.6', 23.0', 23.2', 23.3', low angle fractures. @ 16.9'-17.2',17.7'-17.8',19.3' 21.1'-21.3', high angle fractures.										
- - -	-	Core	Rec	RQD			@ 25.9'-26.2', high angle fracture.										

Client:					_		Project: SCI-823-0.00						Job No. 0121-3070.03
LOG C	F: Bo	ring	R-257		_	ocation: Sta	a. 639+00.0, 5.8 ft. LT of SR 823 CL Date Drilled: 02	2/01			to	(02/02/06
Depth (ft)	Elev. (ft) 864.6	Blows per 6"	Recovery (in)	Sam No		Hand Penetro- meter (tsf)	WATER OBSERVATIONS: Water seepage at: None Water level at completion: None (Prior to coring) 75.0' (Includes drilling water) DESCRIPTION	% Aggregate	% M. Sand	% F. Sand	% Silt	% Clay	STANDARD PENETRATION (N) Natural Moisture Content, % - PL
35 — - - - - - - 40 —	004.0	120" Core 120"	120" Rec 120"	98% RQD 100%	R3	*940	Medium hard to hard brown and gray SANDSTONE; very fine to fine grained, moderately to highly weathered, argillaceous, micaceous, massive, moderately fractured. @ 41.0'-41.3', healed high angle fracture.						
45 — 	852.0	Core 120"	Rec 120"	RQD 100%	R5	*914	Medium hard to hard gray SANDSTONE; very fine to fine grained, slightly weathered, argillaceous, micaceous, slightly pyritic, massive, slightly fractured. @ 51.2'-51.5', high angle fracture, rust stained. @ 53.7', 53.9', low angle fractures, rust stained.						
55 — 		Core	Rec	RQD			@ 56.2'-56.5', 57.0'-59.1', iron staining.@ 57.5'-57.7' high angle fracture.						

Client:							Project: SCI-823-0.00						Job No. 0121-3070.03
LOG C	DF: Bo	ring	R-257	_	_	ocation: Sta	a. 639+00.0, 5.8 ft. LT of SR 823 CL Date Drilled: 02	2/01		ATIO	to	(02/02/06
Depth (ft)	Elev. (ft) 834.6	Blows per 6"	Recovery (in)	Sam No	Press / Core	Hand Penetro- meter (tsf)	OBSERVATIONS: Water seepage at: None Water level at completion: None (Prior to coring) 75.0' (Includes drilling water) DESCRIPTION	% Aggregate	% M. Sand		% Silt	% Clay	STANDARD PENETRATION (N) Natural Moisture Content, % - PL
- - - - -	-	120"	117"	95%	R6	*687	Medium hard to hard gray SANDSTONE; very fine to fine grained, slightly weathered, argillaceous, micaceous, slightly pyritic, massive, slightly fractured. @ 60.0', low angle fracture. @ 61.5'-61.8', broken zone with core loss, possible decomposed shale@ 61.8'-62.3', high angle fracture.						
		Core 120"	Rec 100"	RQD 87%	R7	*612	Medium hard gray SANDSTONE; very fine to fine grained, slightly weathered, argillaceous, laminated to thinly bedded, moderately fractured. @ 65.4'-65.7', high angle fracture. @ 66.5'-66.8', 69.9'-70.0', calcareous. @ 69.8'-70.2', 71.0'-71.7', broken zones. @ 67.0', 70.4', 70.6', 70.7', low angle fractures.						
- - - - 80.0	- - - - - - 814.7-	Core 60"	Rec 60"	RQD 100%	R8	*812	@ 79.3', low angle fracture. Bottom of Boring - 80.0'						
85 — - - - - - - 90 —	-												

Client:					_		Project: SCI-823-0.00						Job No. 0121-3070.03
LOG C	F: Bo	ring	R-257		_	ocation: Sta	a. 638+93.1, 105.2 ft. RT of SR 823 CL Date Drilled: 2/	1/06	D 4 C	ATIO	to	- 2	2/1/06
Depth (ft)	Elev. (ft) 926.5	Blows per 6"	Recovery (in)	Sam No		Hand Penetro- meter (tsf)	WATER OBSERVATIONS: Water seepage at: None Water level at completion: None (prior to coring) 62.5' (includes drilling water) DESCRIPTION	% Aggregate	% M. Sand	and	% Silt	% Clay	STANDARD PENETRATION (N) Natural Moisture Content, % - ● PL ├────────────────────────────────────
-0.3	926.2	4 3 5	14	1			Topsoil - 4" / 6" soil removed before drilling Loose brown SILT (A-4b), little fine to coarse sand, trace gravel, trace clay; contains sandstone fragments; dry.						٥
3.0 - 5	923.5	33 35 25	18	2			Very dense brown and gray SANDY SILT (A-4a), little gravel, trace clay; contains sandstone fragments; damp to moist.						
	919.5	17 50/5	11	3]								50
10 —	-	Core 84"	Rec 84"	RQD 85%	R1	*342	Medium hard to hard brown SANDSTONE; very fine to fine grained, highly weathered, argillaceous, massive, slightly to highly fractured. @ 8.0'-8.3', 8.8'-8.9', 10.4'- 10.5', broken zones. @ 12.3'-12.4', high angle fracture.						
15 —	-904.9-	Core 120"	Rec 120"	RQD 93%	R2	*1000	@ 14.4', 15.4', 17.7', low angle fractures. @ 14.7'-15.0', 17.1'-17.2', high angle fractures. Hard gray SANDSTONE; very fine to fine grained, moderately						
25 — 		Core 120"	Rec 120"	RQD 100%	R3	*899	weathered, argillaceous, massive, slightly fractured.						

Clien	t: Ti	ranSy	stems	, Inc.		_		Project: SCI-823-0.00								Job No	. 0121	-3070	.03
LOC	OI	F: Bo	ring	R-257		_	ocation: Sta	ı. 638+93.1, 105.2 ft. RT of SR 823 CL Date Drilled: 2/1	1/06				to	2	2/1/06				
					Sam No		Hand	WATER OBSERVATIONS: Water seepage at: None		GI	RAD	ATI	ON						
Dep	th	Elev.	per 6"	ery (in)		Core	Penetro- meter	Water level at completion: None (prior to coring) 62.5' (includes drilling water)	Aggregate	gud	and	Sand			Natu	al Mois	PENET ture Cor	ntent, %	5 - •
(ft)		(ft) 896.5	Blows µ	Recovery	Drive	Press /	(tsf)	DESCRIPTION	% Aggr	% C. Sand	% M. Sand	% F. S	% Silt	% Clay			per foot		L 40
								Hard gray SANDSTONE; very fine to fine grained, slightly weathered, argillaceous, massive, slightly fractured.											
	-																		
35	\dashv							@ 34.9'-35.9' rust stained.											
	-							@ 35.2', 35.5', low angle fractures.											
	-		Core 120"	Rec 120"	RQD	R4	*1352	@ 39.2', low angle fracture, argillaceous zone.											
40								G 55.2 , 16.11 d.l.gro indotalo, d.g.iido5500 25116.											
	-																		
45	=							@ 45.1'-45.2', rust stained, vuggy layer.											
								@ 45.1 -45.2 , Tust stained, vuggy layer.											
_			Core	Rec	RQD	R5	*876												
¬ ма сс: 50	_		120"	120"	100%														
3/2014																			
FILE: 0121-30/0-03 5/23						-													
55 50-0708								@ 55.0'-55.3', 55.8'-56.2', rust stained. @ 55.0', iron stained low angle fracture. @ 55.8', 55.9', low angle fractures.											
. 0121-	=		Coro	Poo	DOD.			g co.c, co.c, ion angle madance.											
60			Core 120"	Rec 120"	RQD 98%	R6	*1172	@ 59.3', argillaceous band.											

Client:					_		Project: SCI-823-0.00								Job No	. 0121	-3070	.03
LOG C	DF: Bo	ring	R-257		_	ocation: Sta	a. 638+93.1, 105.2 ft. RT of SR 823 CL Date Drilled: 2/	1/06			. 4 = 1	to	2	2/1/06				
		er 6"	y (in)	Sam No		Hand Penetro- meter	WATER OBSERVATIONS: Water seepage at: None Water level at completion: None (prior to coring) 62.5' (includes drilling water)	gate			ρι	ON			NDARD ral Moist			
Depth (ft)	Elev. (ft) 866.5	Blows per	Recovery	Drive	Press / ((tsf)	DESCRIPTION Hard gray SANDSTONE: very fine to fine grained, clightly	% Aggregate	% C. Sand	Ź.	Щ.	% Silt	% Clay	Pi	. ⊢	per foot	- O	
- - -	-						Hard gray SANDSTONE; very fine to fine grained, slightly weathered, argillaceous, massive, slightly fractured. @ 61.5'-66.9', rust stained. @ 62.1'-62.3', 62.7'-63.0'; calcareous. @ 62.4', low angle fracture.											
65 — - - -	-	Core	Rec	BOD			@ 65.8'-66.5'; high angle fracture.											
70 — - -	-	120"	120"	RQD 93%	R7	*371	@ 69.7'-70.1'; calcareous.@ 70.1', low angle fracture.@ 71.4'-75.3', rust stained.@ 71.5', 75.3', rust stained low angle fractures.											
75 — - - - 80 — -		Core 120"	Rec 120"	RQD 100%	R8	*1211												
85 — - - - - - 90		Core 120"	Rec 120"	RQD 100%	R9	*1358												

Client:					_		Project: SCI-823-0.00							Job N	o. 012	1-3070	0.03
LOG C	F: Bo	ring	R-257		_	ocation: Sta	a. 638+93.1, 105.2 ft. RT of SR 823 CL Date Drilled: 2/	1/0	- A -		to	- 2	2/1/06				
Depth (ft)	Elev. (ft) 836.4	Blows per 6"	Recovery (in)	Sam		Hand Penetro- meter (tsf)	WATER OBSERVATIONS: Water seepage at: None Water level at completion: None (prior to coring) 62.5' (includes drilling water) DESCRIPTION	% Aggregate	% M. Sand	% F. Sand	Silt Silt	% Clay	Natu P	ral Mois L ⊢— Blows	per foot	ntent, 9	% -
- - - -	-						Hard gray SANDSTONE; very fine to fine grained, slightly weathered, argillaceous, micaceous, massive, unfractured to slightly fractured.										
93.7—93.7—95—95—95—95—95—95—95—95—95—95—95—95—95—	832.8	Core 120"	Rec 120"	RQD 98%	R10	*612	Medium hard gray SANDSTONE; very fine to fine grained, slightly weathered, argillaceous, laminated to medium bedded, slightly fractured. @ 93.7'-93.8', calcareous, coarse grained. @ 95.5'-97.1', calcareous. @ 96.1'-96.2', high angle fracture.										
- - -	-	Core 72"	Rec 72"	RQD 100%	R11	*722											
	816.5						Bottom of Boring - 110.0'										

Client:					_		Project: SCI-823-0.00						Job No. 0121-3070.03
LOG C	F: Bo	ring	R-261			ocation: Sta	a. 669+11.2, 51.4 ft. LT of SR 823 CL Date Drilled: 08	3/15			to	(08/16/06
Depth (ft)	Elev. (ft) 883.7	Blows per 6"	Recovery (in)	Sam _l No		Hand Penetro- meter (tsf)	WATER OBSERVATIONS: Water seepage at: None Water level at completion: None (prior to coring) 35.4' (includes drilling water) DESCRIPTION	% Aggregate	% M. Sand	% F. Sand	% Silt	% Clay	STANDARD PENETRATION (N) Natural Moisture Content, % - PL LL Blows per foot - 10 20 30 40
	- 883.3-	3 3 5 3 14 10	16	1 2			Topsoil - 5" / 1.7' soil removed before drilling Loose brown SILT (A-4b), little fine to coarse sand, little clay; contains rock fragments; dry.						
	877.7- 873.7-	16 36 32 15 50/5	18	3 4			Severely weathered brown SANDSTONE.						
- - - 15 — - -		Core 108"	Rec 108"	RQD 70%	R-1		Medium hard to hard brown and gray SANDSTONE; very fine to fine grained, highly weathered, argillaceous, micaceous, massive, moderately fractured to broken. @ 10.0'-15.7', highly fractured to broken.						
20 —		Core 120"	Rec 120"	RQD 91%	R-2		@ 20.0',25.1', low angle fractures.@ 23.1'-23.5', high angle fracture.						
30													

Client:	TranSy	stems	, Inc.				Project: SCI-823-0.00							Job No.	0121-3070.03	3
LOG	F: Bo	ring	R-261		_	ocation: Sta	a. 669+11.2, 51.4 ft. LT of SR 823 CL Date Drilled: 08	/15				to	(08/16/06		
Depth (ft)	Elev. (ft)	s per 6"	Recovery (in)	Sam No	Sore	Hand Penetro- meter (tsf)	WATER OBSERVATIONS: Water seepage at: None Water level at completion: None (prior to coring) 35.4' (includes drilling water)	% Aggregate		M. Sand	Sand		Clay	Natural Moist	PENETRATION (ure Content, % -	
(7.5)	853.7	Blows,	Весс	Drive	Press / ((10.7)	DESCRIPTION (Section 1)		% C	% M.	% F.	% Silt	% Cl	Blows po 10 20	er foot - () 30 40	
 35 		Core 120"	Rec 120"	RQD 96%	R-3		Medium hard to hard gray SANDSTONE; very fine to fine grained, moderately to highly weathered, argillaceous, micaceous, massive, slightly fractured. @ 33.9'-34.2', high angle fracture.									
40 — - - - - 45 — - -46.7 —	837.0-	Core 120"	Rec 120"	RQD 100%	R-4		@ 40.5'-46.7', contains few argillaceous laminations.@ 41.7', pyritic.Medium hard to hard gray SANDSTONE; very fine to fine grained,									
FILE: 0121-3070-03 [5/23/2014 3:55 PM]	826.1-	Core 120"	Rec 120"	RQD 96%	R-5		moderately weathered, argillaceous, micaceous, pyritic, thinly laminated to thinly bedded, slightly fractured, contains moderate to abundant argillaceous laminations. @ 49.2'-49.3', filled fracture. Medium hard to hard gray SILTSTONE interbedded with SANDSTONE; very fine to fine grained, moderately weathered, argillaceous, micaceous, pyritic.									

Client:					_		Project: SCI-823-0.00						Job No. 0121-3070.03
LOG C	DF: Bo	ring	R-261			ocation: Sta	a. 669+11.2, 51.4 ft. LT of SR 823 CL Date Drilled: 08	3/15			to	(08/16/06
Depth (ft)	Elev. (ft) 823.6	Blows per 6"	Recovery (in)	Sam _i No		Hand Penetro- meter (tsf)	WATER OBSERVATIONS: Water seepage at: None Water level at completion: None (prior to coring) 35.4' (includes drilling water) DESCRIPTION	% Aggregate	% C. Sand	% F. Sand	% Silt	% Clay	STANDARD PENETRATION (N) Natural Moisture Content, % - ● PL ├────────────────────────────────────
- - - 65 — - -		Core 120"	Rec 120"	RQD 100%	R-6		Medium hard to hard gray SILTSTONE interbedded with SANDSTONE; very fine to fine grained, moderately weathered, argillaceous, micaceous, pyritic, thinly laminated to thinly bedded, slightly fractured. @ 65.3', low angle fracture.						
70 — - - - 75 — - -		Core 120"	Rec 120"	RQD 100%	R-7								
80 —		Core 120"	Rec 120"	RQD 100%	R-8								
90.0	793.7	Core	Rec 12" a	RQD	R-9		Bottom of Boring - 90.0'						

	TranSy				_		Project: SCI-823-0.00						Job No. 0121-3070.03
LOG (F: Bo	ring	R-261			ocation: Sta	a. 669+11.2, 51.4 ft. LT of SR 823 CL Date Drilled: 08	3/15			to		08/16/06
Depth (ft)	Elev. (ft) 793.6	Blows per 6"	Recovery (in)	Sam _l No		Hand Penetro- meter (tsf)	WATER OBSERVATIONS: Water seepage at: None Water level at completion: None (prior to coring) 35.4' (includes drilling water) DESCRIPTION	% Aggregate		% F. Sand		% Clay	STANDARD PENETRATION (N) Natural Moisture Content, % - ● PL ├────────────────────────────────────
95 —													

Client:	ΓranSy	stems	, Inc.				Project: SCI-823-0.00							Job No	o. 012	1-3070	0.03
LOG C	F: Bo	ring	R-262		_	ocation: Sta	a. 676+80.6, 115.7 ft. LT of SR 823 CL Date Drilled: 08	/23			to		08/24/0)6			
Depth (ft)	Elev. (ft) 957.3	Blows per 6"	Recovery (in)	Sam No		Hand Penetro- meter (tsf)	WATER OBSERVATIONS: Water seepage at: None Water level at completion: None (prior to coring) 100.5' (includes drilling water) DESCRIPTION	% Aggregate	% M. Sand	% F. Sand	% Silt	% Clay	Natu P	ral Mois L ⊢— Blows	PENE sture Co per foot	ntent, 9	6 - •
- - - 3.5 - 5	-957.2- -953.8-	13 50/3	18	1 2 3			Topsoil - 1" Medium dense brown SANDY SILT (A-4a), little to some clay, trace gravel; dry. Severely weathered brown SANDSTONE.							Ó,	<i></i>		50+
6.0 - - 10 — - -	951.3	Core 96"	Rec 96"	RQD 100%	R-1		Medium hard to hard brown SANDSTONE; very fine to fine grained, highly weathered, argillaceous, micaceous, massive, slightly to moderately fractured. @ 6.6',6.7',9.8', low angle, iron stained fractures.										50+
15 — - - - 20 — - - 21.6 —	- 935.7-	Core 120"	Rec 120"	RQD 100%	R-2		Medium hard to hard gray SANDSTONE; very fine to fine grained, moderately weathered, argillaceous, micaceous, massive, slightly fractured, contains few argillaceous laminations.										
25 — — — — — — —		Core 120"	Rec 120"	RQD 100%	R-3												

Client:					_		Project: SCI-823-0.00								21-3070.03
LOG C	DF: Bo	ring	R-262		_	ocation: Sta	a. 676+80.6, 115.7 ft. LT of SR 823 CL Date Drilled: 08	3/23		240		to	(08/24/06	
Depth (ft)	Elev. (ft) 927.3	Blows per 6"	Recovery (in)	Sam		Hand Penetro- meter (tsf)	WATER OBSERVATIONS: Water seepage at: None Water level at completion: None (prior to coring) 100.5' (includes drilling water) DESCRIPTION	% Aggregate	% C. Sand		% F. Sand	% Silt	% Clay	STANDARD PEN Natural Moisture PL ⊢ Blows per fo 10 20	Content, % - ●
 35 —- 40 —- 		Core 120"	Rec 120"	RQD 90%			Medium hard to hard gray SANDSTONE; very fine to fine grained, moderately weathered, argillaceous, micaceous, massive, slightly fractured, contains few argillaceous laminations. @ 34.1'-35.0', high angle fracture. @ 34.1'-35.3', iron stained zone.								
45 — — — — — — — — — — — — — — — — — — —	-	Core 120"	Rec 120"	RQD 100%	R-5										
55 —	-	Core 120"	Rec 120"	RQD 100%	R-6										

Client:					_		Project: SCI-823-0.00							Job No. 0121-3070.03
LOG C	F: Bo	ring	R-262		_	ocation: Sta	a. 676+80.6, 115.7 ft. LT of SR 823 CL Date Drilled: 08	3/23				to		08/24/06
Depth (ft)	Elev. (ft)	Blows per 6"	Recovery (in)	Sam		Hand Penetro- meter (tsf)	WATER OBSERVATIONS: Water seepage at: None Water level at completion: None (prior to coring) 100.5' (includes drilling water) DESCRIPTION	. Aggregate	C. Sand	M. Sand	F. Sand	Silt	; Clay	,
65 —	897.2	Core 120"	Rec 120"	RQD 100%			Medium hard to hard gray SANDSTONE; very fine to fine grained, slightly to moderately weathered, argillaceous, micaceous, massive, unfractured to slightly fractured, contains few argillaceous laminations. @ 60.2',74.5',74.6, thin pyrite bands.	%	%	%	%	%	%	10 20 30 40
75 — — 89.4 — 89.4		Core 120"	Rec 120"	RQD 100%	R-8		@ 74.8'-88.4', pyritic.@ 81.6'-83.8', iron stained.							
	- 867.9-	Core 120"	Rec 120"	RQD 96%	R-9		Medium hard to hard brown and gray SANDSTONE: very fine to							

	rrancy	Sterns	s, Inc.		_		Project: SCI-823-0.00							Jol	No. 012	1-3070	0.03
LOG C	F: Bo	ring	R-262		_	Location: Sta	a. 676+80.6, 115.7 ft. LT of SR 823 CL Date Drilled: 08	3/23				to		08/24/06			
				Sam No		Hand	WATER OBSERVATIONS: Water seepage at: None		G	RAE	DATI	<u>ON</u>					
Depth	Elev.	Blows per 6"	very (in)		/ Core	Penetro- meter	Water level at completion: None (prior to coring) 100.5' (includes drilling water)	% Aggregate	C. Sand	Sand	Sand		<u>></u>	Natural N	IRD PENE Noisture Co	ontent, %	6 - •
(ft)	(ft) 867.2	Вюм	Recovery	Drive	Press	(tsf)	DESCRIPTION		% C.	Z.	А.	% Silt	% Clay	Blo	ws per foo	t - O	40
- -	-						fine grained, argillaceous, micaceous, massive, slightly fractured, iron stained.										
-	-						@ 92.9',93.7',94.4', low angle fractures.										
95 	-																
- -	-																
100 —	_	Core 120"	Rec 120"	RQD 90%	R10												
_	-						@ 101.6'-102.6',109.3'-109.7', 112.1'-112.3', high angle fractures with iron staining.										
_	-						with non-stanning.										
105 	-																
-	-																
110 —	-	Core 120"	Rec 120"	RQD 94%	R11												
-	-						@ 110.9'-111.2', reworked sandstone conglomerate.										
-	-						@ 113.6'-115.1', pyritic.										
115 —																	
-	0000						@ 117.4', low angle fracture.										
—117.4— - - 120 <u>—</u>	- 839.9-	Core 120"	Rec 120"	RQD 95%	R12		Medium hard to hard gray SANDSTONE interbedded with SILTSTONE; very fine to fine grained, micaceous, thinly laminated to medium bedded, slightly fractured.										

	TranSy				_		Project: SCI-823-0.00							Job No. 0121-3070.03
LOG (DF: Bo	ring	R-262	0 Samp	_	ocation: Sta	a. 676+80.6, 115.7 ft. LT of SR 823 CL Date Drilled: 08	3/23 T			ATIC	to	(08/24/06 I
Depth (ft)	Elev. (ft) 837.2	Blows per 6"	Recovery (in)	No		Hand Penetro- meter (tsf)	OBSERVATIONS: Water seepage at: None Water level at completion: None (prior to coring) 100.5' (includes drilling water) DESCRIPTION	% Aggregate		% M. Sand	F. Sand	% Silt	% Clay	STANDARD PENETRATION (N) Natural Moisture Content, % - PL
- 125 — - - - - 130.0— - - - 135 —	837.2	Core 72"	Rec 72"	RQD 100%			Medium hard to hard gray SANDSTONE interbedded with SILTSTONE; very fine to fine grained, micaceous, thinly laminated to medium bedded, slightly fractured. @ 121.7'-122.1', high angle fracture. @ 127.6', low angle fracture. Bottom of Boring - 130.0'		%	%	%	%	%	10 20 30 40
140 — 145 — 150 —														

Client:	TranSy	stems	, Inc.		_		Project: SCI-823-0.00								Job No	. 012	I-3070	0.03
LOG C	OF: Bo	ring	R-262		_	ocation: Sta	a. 676+93.1, 173.0 ft. RT of SR 823 CL Date Drilled: 08	3/17				to	0	08/21/0)6			
Depth (ft)	Elev. (ft) 1008.5	Blows per 6"	Recovery (in)	Sam _i No		Hand Penetro- meter (tsf)	WATER OBSERVATIONS: Water seepage at: None Water level at completion: None (prior to coring) 32.4' (includes drilling water) DESCRIPTION	% Aggregate		M. Sand	% F. Sand		% Clay	Natu P	NDARD ral Moist L ⊢—— Blows p 0 2	ure Co per foot	ntent, % —— I - ○	6 - •
-0.3 - - - - 5	-1008.2-	³ ₅ ₅	10	1 2			Topsoil - 3" / 2.5' soil removed before drilling Loose brown SANDY SILT (A-4a), trace clay; contains rock fragments; damp.	45	12		6	30	7	<i>/ / /</i>	•		No	n-Plastic
-6.0 - -8.5 -9.0	-1002.5- -1000.0- -999.5-	48 32	18	3		4.5+	Hard brown SILT (A-4b), little clay, little fine to coarse sand, trace gravel; contains sandstone fragments; dry to damp. Severely weathered brown SANDSTONE argillaceous.	7	6		11	58	18		•			○80 →
10 —	-	Core 60"	Rec 60"	RQD 73%	R1		Medium hard brown SANDSTONE; very fine to fine grained, highly weathered, micaceous, argillaceous, thinly bedded, moderately to highly fractured, contains iron staining and few argillaceous laminations.											
- 15 -	_				-		@ 13.5'-14.2', high angle clay filled fracture.@ 16.0'-16.9', 18.0'-19.5', broken zone with high angle fractures.											
20 — - - -	- - - -	Core 120"	Rec 120"	RQD 65%	R2													
25.1 	- 983.4-	Core	Rec 120"	RQD 30%	R3		Medium hard brown and gray SANDSTONE; very fine to fine grained, moderately weathered, micaceous, argillaceous, thinly bedded, highly fractured to broken.	_										

	TranSy				_		Project: SCI-823-0.00							Job No. 0121-3070.03
LOG C	DF: Bo	ring	R-262		_	ocation: St	a. 676+93.1, 173.0 ft. RT of SR 823 CL Date Drilled: 08	1/17				to		08/21/06
Depth (ft)	Elev. (ft) 978.5	Blows per 6"	Recovery (in)	Sam No		Hand Penetro- meter (tsf)	WATER OBSERVATIONS: Water seepage at: None Water level at completion: None (prior to coring) 32.4' (includes drilling water) DESCRIPTION	% Aggregate	C. Sand	% M. Sand	% F. Sand	% Silt	% Clay	STANDARD PENETRATION (N) Natural Moisture Content, % - ● PL ├────────────────────────────────────
32.4 35 	976.1-	Core 120"	Rec 120"	RQD 96%	R4		Medium hard brown and gray SANDSTONE; very fine to fine grained, moderately weathered, micaceous, argillaceous, thinly bedded, highly fractured to broken. ② 31.5'-32.4', broken zone with lost recovery. Soft to medium hard gray SILTSTONE interbedded with SANDSTONE; very fine to fine grained, slightly to moderately weathered, micaceous, thinly laminated to thinly bedded, slightly fractured. ② 36.8'-37.0', high angle iron stained fracture.							
50 — 54.4—	961.5-	Core 120"	Rec 120"	RQD 100%	R5		Hard gray SANDSTONE; very fine to fine grained, slightly weathered, micaceous, argillaceous, pyritic, thinly laminated to massive, slightly fractured, contains few argillaceous laminations. Hard brown SANDSTONE; fine grained, moderately to highly							
55 — - - - 60 <u>—</u>	-	Core 120"	Rec 120"	RQD 100%	R6		weathered, micaceous, calcareous, massive, slightly to moderately fractured. @ 56.3'-56.7', vuggy.							

Client:	TranSy	stems	, Inc.		_		Project: SCI-823-0.00							Job No	. 012	-3070	0.03
LOG C	F: Bo	ring	R-262		_	ocation: Sta	a. 676+93.1, 173.0 ft. RT of SR 823 CL Date Drilled: 08	3/17			to	(08/21/0	6			
Depth (ft)	Elev. (ft) 948.4	Blows per 6"	Recovery (in)	Sam No		Hand Penetro- meter (tsf)	WATER OBSERVATIONS: Water seepage at: None Water level at completion: None (prior to coring) 32.4' (includes drilling water) DESCRIPTION	% Aggregate	G. Sand	% F. Sand	Silt Silt	% Clay	Natur PL	NDARD al Mois	ture Co per foot	ntent, %	6 - •
-62.2 	946.3-						Hard brown SANDSTONE; fine grained, moderately to highly weathered, micaceous, calcareous, massive, moderately fractured. Very hard gray SANDSTONE; very fine to fine grained, slightly weathered, micaceous, massive, slightly fractured.										
-68.0 -70 - - -	940.5	Core 120"	Rec 120"	RQD 100%	R7		Very hard gray SANDSTONE; very fine to fine grained, slightly weathered, argillaceous, micaceous, massive, slightly fractured.										
75 —		Core 120"	Rec 120"	RQD 100%	R8												
85 — - - - - 90 <u>—</u>		Core 120"	Rec 120"	RQD 100%	R9												

	TranSy				_		Project: SCI-823-0.00							Job No. 0121-3070.03
LOG C	DF: Bo	ring	R-262			ocation: Sta	a. 676+93.1, 173.0 ft. RT of SR 823 CL Date Drilled: 08	3/17				to	(08/21/06
		per 6"	(in)	Sam _i No). 	Hand Penetro- meter	WATER OBSERVATIONS: Water seepage at: None Water level at completion: None (prior to coring) 32.4' (includes drilling water)	yate			ATIO	ON		STANDARD PENETRATION (N) Natural Moisture Content, % -
Depth (ft)	Elev. (ft) 918.4	Blows pe	Recovery	Drive	Press / Core	(tsf)	DESCRIPTION	% Aggregate	% C. Sand	% M. Sand	% F. Sand	% Silt	% Clay	
95—		Core 120"	Rec 120"	RQD 100%	R10		Very hard gray SANDSTONE; very fine to fine grained, slightly weathered, argillaceous, micaceous, massive, slightly fractured, contains few argillaceous laminations.							
110 — 3:33 PM] - 3:35 PM] -		Core	Rec 120"	RQD 95%			 @ 112.0'-113.7', contains shale laminations and moderate argillaceous laminations. @ 113.5'-113.7', high angle fracture. @ 116.0'-120.0', slightly pyritic. 							
120 <u></u>		Core 120"	Rec 120"	RQD 100%	R12									

Client:					_		Project: SCI-823-0.00							Job No. 0121-3070.03
LOG C	F: Bo	ring l	R-262		_	ocation: Sta	a. 676+93.1, 173.0 ft. RT of SR 823 CL Date Drilled: 08	3/17				to		08/21/06
				Sam _l No		Hand	WATER OBSERVATIONS: Water seepage at: None		GF	RAD	ATIO	ON		
Depth (ft)	Elev. (ft)	Blows per 6"	Recovery (in)	Drive	Press / Core	Penetro- meter (tsf)	Water level at completion: None (prior to coring) 32.4' (includes drilling water)	% Aggregate	C. Sand	% M. Sand	F. Sand	Silt	Clay	STANDARD PENETRATION (N) Natural Moisture Content, % - ● PL ├── LL Blows per foot - ○
	888.3	Blc	Re	Dri	Pre		DESCRIPTION	%	%	1%	%	%	%	10 20 30 40
- - - 125 —							Very hard gray SANDSTONE; very fine to fine grained, slightly weathered, argillaceous, micaceous, massive, slightly fractured, contains few argillaceous laminations. @ 120.0'-141.0', slightly pyritic.							
130 — - - - -		Core 120"	Rec 120"	RQD 100%	R13									
135 — - - - - 140 — -		Core 120"	Rec 120"	RQD 95%	R14									
- 145 — - - - - - 150		Core	Rec 120"	RQD 100%	R15		@ 144.6'-145.7', iron staining.							

Client:							Project: SCI-823-0.00							Job No. 0121-3070.03
LOG C	F: Bo	ring	R-262		_	ocation: Sta	a. 676+93.1, 173.0 ft. RT of SR 823 CL Date Drilled: 08	3/17				to		08/21/06
Depth (ft)	Elev. (ft) 858.3	Blows per 6"	Recovery (in)	Sam _i No		Hand Penetro- meter (tsf)	WATER OBSERVATIONS: Water seepage at: None Water level at completion: None (prior to coring) 32.4' (includes drilling water) DESCRIPTION	% Aggregate	C. Sand	% M. Sand	% F. Sand	Silt	% Clay	STANDARD PENETRATION (N) Natural Moisture Content, % - ● PL ├── LL Blows per foot - ○ 10 20 30 40
155 —	-	Core 120"	Rec 120"	RQD 100%			Very hard gray SANDSTONE; very fine to fine grained, slightly weathered, argillaceous, micaceous, massive, slightly fractured, contains few argillaceous laminations.							
165 — — —169.5 — —170 — —	839.0-	Core 120"	Rec 120"	RQD 100%	R17		Hard gray SANDSTONE interbedded with SILTSTONE; very fine to fine grained, slightly weathered, massive, slightly fractured, turbidity, siltstone beds fissile after dessication. @ 170.4'-171.5', high angle fracture.							
175 — - - - - 180.0	828.5	Core 72"	Rec 72"	RQD 100%	R18		Bottom of Boring - 180.0'							

Client: ☐	ΓranSy	stems	, Inc.				Project: SCI-823-0.00							Job No	. 0121	-3070	0.03
LOG C	F: Bo	ring	R-276		_	ocation: Sta	a. 831+34.8, 30.9 ft. RT of SR 823 CL Date Drilled: 0	3/30			to	C)9/01/0	06			
Depth (ft)	Elev. (ft) 1008.2	Blows per 6"	Recovery (in)	Sam No		Hand Penetro- meter (tsf)	WATER OBSERVATIONS: Water seepage at: None Water level at completion: 112.1 DESCRIPTION	% Aggregate	M. Sand	F.	Silt	% Clay	Natu P	NDARD ral Moisi L ⊢—— Blows p	er foot	ntent, %	6 - •
	-1007.9- -1004.7-	10 15 50/5	17	1 2			Topsoil - 4" Very dense brown SILT (A-4b), some fine to coarse sand, little clay; contains sandstone fragments; dry to damp. Severely weathered brown SANDSTONE.										50+:
10 —	-1003.2-	Core 120"	Rec 120"	RQD 85%	R-1		Medium hard brown SANDSTONE; fine grained, highly weathered, argillaceous, micaceous, massive, moderately fractured, iron stained. @ 5.0'-5.2', broken. @ 11.1'-11.2', clay seam.										
20 —		Core 120"	Rec 120"	RQD 94%	R-2		@ 15.0', slightly fractured, moderately weathered.										
 -27.5 - - 30	 980.7	Core	Rec	RQD			Hard gray SANDSTONE; very fine to fine grained, moderately weathered, micaceous, argillaceous, massive, slightly fractured. @ 28.5'-29.3', brown.										

	TranSy				_		Project: SCI-823-0.00						Job No. 0121-3070.03
LOG	F: Bo	ring	R-276		_	ocation: Sta	a. 831+34.8, 30.9 ft. RT of SR 823 CL Date Drilled: 08	3/30			to	(09/01/06
Depth (ft)	Elev. (ft) 978.1	Blows per 6"	Recovery (in)	Sam _i No		Hand Penetro- meter (tsf)	WATER OBSERVATIONS: Water seepage at: None Water level at completion: 112.1 DESCRIPTION	% Aggregate	% M. Sand	% F. Sand	Silt N	% Clay	STANDARD PENETRATION (N) Natural Moisture Content, % - PL LL Blows per foot - 10 20 30 40
35 — - - - - - 40 —		120" Core 120"	120" Rec 120"	100% RQD 100%	R-3		Hard gray SANDSTONE; very fine to fine grained, moderately weathered, micaceous, argillaceous, massive, slightly fractured, contains few argillaceous laminations.						
45 — 50 —		Core 120"	Rec 120"	RQD 100%	R-5		@ 46.6'-50.8', slightly pyritic.						
55 — - - - - - 60 _		Core	Rec	RQD			@ 59.5'-59.6', high angle fracture.						

Client:					_		Project: SCI-823-0.00							Job No. 0121-3070.03
LOG C	F: Bo	ring	R-276		_	ocation: Sta	a. 831+34.8, 30.9 ft. RT of SR 823 CL Date Drilled: 08	3/30				to	(09/01/06
Depth (ft)	Elev. (ft) 948.1	Blows per 6"	Recovery (in)	Sam _l No	Press / Core	Hand Penetro- meter (tsf)	WATER OBSERVATIONS: Water seepage at: None Water level at completion: 112.1 DESCRIPTION	% Aggregate	C. Sand	% M. Sand	% F. Sand	Silt %	% Clay	STANDARD PENETRATION (N) Natural Moisture Content, % - ● PL ├────────────────────────────────────
65—		120"	120"	94%	R-6		Hard gray SANDSTONE; very fine to fine grained, slightly weathered, micaceous, argillaceous, massive, slightly fractured, contains few argillaceous laminations. @ 60.3'-60.6', 61.5'-62.1', high angle fractures.							
 70 —- 		Core 120"	Rec 120"	RQD 100%	R-7									
75 —		Core 120"	Rec 120"	RQD 100%	R-8		 @ 75.0', pyritic. @ 79.7', calcareous, vuggy. @ 79.7'-79.8', high angle fracture. @ 80.3'-85.9', few to moderate argillaceous laminations. @ 81.0'-81.3', broken. 							
84.6—84.6—85 ——84.6—85 ——84.6—85 ——84.6—85 ——85 ——85 ——85 ——85 ——85 ——85 ——85	923.6	Core	Rec	RQD			Hard brown and gray SANDSTONE; very fine to fine grained, moderately to highly weathered, micaceous, argillaceous, very thinly bedded, slightly fractured, iron stained.							

Client:					_		Project: SCI-823-0.00							Job No. 0121-3070.03
LOG C	F: Bo	ring	R-276		_	ocation: Sta	a. 831+34.8, 30.9 ft. RT of SR 823 CL Date Drilled: 08	3/30				to	(09/01/06
Depth (ft)	Elev. (ft) 918.0	Blows per 6"	Recovery (in)	Sam _l No	Press / Core	Hand Penetro- meter (tsf)	WATER OBSERVATIONS: Water seepage at: None Water level at completion: 112.1 DESCRIPTION	% Aggregate	C. Sand	% M. Sand	% F. Sand	N Silt	% Clay	STANDARD PENETRATION (N) Natural Moisture Content, % - ● PL ├────────────────────────────────────
- - - 95 —		120"	120"	100%	R-9		Hard brown and gray SANDSTONE; very fine to fine grained, moderately weathered, micaceous, argillaceous, massive, slightly fractured, iron stained, contains few argillaceous laminations. @ 91.3', 92.8', 97.0', low angle fractures.							
100 — - - - - - - -		Core 120"	Rec 120"	RQD 100%	R10									
110 —	-	Core 120"	Rec 120"	RQD 91%	R11		 @ 106.2',109.6',109.8', low angle clay filled fractures. @ 111.0'-111.3', vuggy zone. @ 111.7'-112.3', high angle rust stained fracture. 							
115 —	-	Core	Rec	RQD										

Client:					_		Project: SCI-823-0.00								. 0121-	3070.	03
LOG C	DF: Bo	ring	R-276		_	ocation: Sta	a. 831+34.8, 30.9 ft. RT of SR 823 CL Date Drilled: 08	3/30		240		to	(09/01/06			
Depth (ft)	Elev. (ft) 888.0	Blows per 6"	Recovery (in)	Sam _l No	Press / Core	Hand Penetro- meter (tsf)	WATER OBSERVATIONS: Water seepage at: None Water level at completion: 112.1 DESCRIPTION	% Aggregate	C. Sand	% M. Sand	% F. Sand	% Silt	% Clay		ture Cont	ent, % —⊢ Li	-
- - - 125 —		120"	120"	100%	R12		Hard gray SANDSTONE; fine grained, slightly weathered, micaceous, argillaceous, thinly bedded, moderately fractured. @ 122.3'-124.0', vertical fracture.										
130 — - - - - -		Core 120"	Rec 120"	RQD 100%	R13		Medium hard to hard gray SANDSTONE interbedded with SILTSTONE; very fine to fine grained, slightly weathered, micaceous, argillaceous, pyritic, very thinly bedded to thinly bedded, slightly fractured.	_									
135 — 135.5 —		Core 120"	Rec 120"	RQD 100%	R14		Hard gray SILTSTONE; slightly to moderately weathered, micaceous, arenaceous, very thinly bedded, slightly fractured, contains laminations and thin beds of SANDSTONE, becomes fissile after dessication.										
- - - 150	-	Core	Rec	RQD	R15												

	TranSy				_		Project: SCI-823-0.00						Job No. 0121-3070.03
LOG C	DF: Bo	ring	R-276			ocation: Sta	a. 831+34.8, 30.9 ft. RT of SR 823 CL Date Drilled: 08	3/30			to	(09/01/06
Depth (ft)	Elev. (ft) 858.0	Blows per 6"	Recovery (in)	Sam _l No	Press / Core	Hand Penetro- meter (tsf)	WATER OBSERVATIONS: Water seepage at: None Water level at completion: 112.1 DESCRIPTION	% Aggregate	% C. Sand	% F. Sand	% Silt	% Clay	STANDARD PENETRATION (N) Natural Moisture Content, % - ● PL ├────────────────────────────────────
- - - 155 —		120"	120"	100%			Hard gray SILTSTONE; slightly to moderately weathered, micaceous, arenaceous, very thinly bedded, slightly fractured, contains laminations and thin beds of SANDSTONE, becomes fissile after dessication.						
165 — 160 —		Core 120"	Rec 120"	RQD 100%	,R16								
170 —		Core 120"	Rec 120"	RQD 100%	R17								
- 175 — - - - - 180 —	-	Core	Rec	RQD	- R18								

	TranSy						Project: SCI-823-0.00						Job No. 0121-3070.03
LOG C	DF: Bo	ring	R-276			ocation: Sta	a. 831+34.8, 30.9 ft. RT of SR 823 CL Date Drilled: 08	3/30			to	(09/01/06
Depth (ft)	Elev. (ft) 827.9	Blows per 6"	Recovery (in)	Sam No	Press / Core	Hand Penetro- meter (tsf)	WATER OBSERVATIONS: Water seepage at: None Water level at completion: 112.1 DESCRIPTION	% Aggregate		% F. Sand	% Silt	% Clay	STANDARD PENETRATION (N) Natural Moisture Content, % - PL LL Blows per foot - 10 20 30 40
- - - 185 —		120"	120"	100%			Hard gray SILTSTONE; slightly to moderately weathered, micaceous, arenaceous, very thinly bedded, slightly fractured, contains laminations and thin beds of SANDSTONE, becomes fissile after dessication.						
190 — - 190 — - - - 195 —		Core 120"	Rec 120"	RQD 100%	R19								
200 —		Core 120"	Rec 120"	RQD 100%	R20								
205 —		Core	Rec	RQD	R21								

Client:					_		Project: SCI-823-0.00						Job No. 0121-3070.03
LOG C	F: Bo	ring	R-276			ocation: Sta	a. 831+34.8, 30.9 ft. RT of SR 823 CL Date Drilled: 08	30			to	(09/01/06
Depth (ft)	Elev. (ft) 797.9	Blows per 6"	Recovery (in)	Sam No	Press / Core	Hand Penetro- meter (tsf)	WATER OBSERVATIONS: Water seepage at: None Water level at completion: 112.1 DESCRIPTION	% Aggregate	% C. Sand	% F. Sand	% Silt	% Clay	STANDARD PENETRATION (N) Natural Moisture Content, % - PL
215—		120"	120"	100%	_		Hard gray SILTSTONE; slightly to moderately weathered, micaceous, arenaceous, very thinly bedded, slightly fractured, contains laminations and thin beds of SANDSTONE, becomes fissile after dessication.						
220 —		Core 120"	Rec 120"	RQD 100%	R22								
- -	-	Core 60"	Rec 60"	RQD 100%	R23								
235 —	- 778.2-						Bottom of Boring - 230.0'						