WELL BORING LOG

												I	Page 1 o	f	2			
Boring	g/Well N	Jumber	r: HES-2	4		Permit Number:												
Okalo	acooch	iee Slo	ough Stat	te Fores	št													
Projec	t Name:	C-139	9 Regiona	l Study		Boreho	le S	tart Dat	e:	10/15/09	Borehole Start	Time:	8:30	Х	am	pm		
						End Date:				10/15/09	End '	Гime:	3:00	-	am	χm		
Enviro	onmenta		actor: S Corp.			Geolog	ist's	s Name:		Environment vid Schulte			nental To	al Technician's Name:				
Drillir	ng Comp				Paveme	ent Thic	knes	ss (inch						rehole Depth (feet):				
		Drill F	ro	ļ			lon			6			90					
Drillir	Apparen	t Borehol	le DTW (in fe	eet	Me	Measured Well DTW (in feet after			OVA (list model and check type):								
Sonic Drill from soil moistur						ire contei	nt):	3	V	water recharges in well): 3			NA FID PID					
Disposition of Drill Cuttings [check method(s)]: Drum Spread Backfill Stock														pile Other				
(describe if other or multiple items are checked): Samples taken off site for examination																		
Borehole Completion (check one): X Well Grout Bentonite Backfill Other (describe)																		
Shallow well pumped dry and Deep well pumped at 1.5 gpm with 3/8 inch dia tubing - Above Ground protective casings																		
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA		Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)					Moisture Content		Notes:		
PH	0-2	24	NA	NA	NA	NA		0-2			fine to mediium yellowish orang	U	ıles	D		h to Water HES- = 7.29' w/ TOC 2.37' ags		
sc	2-10	96	NA	NA	NA	NA		2-10	Soft-light gray to light tan limestone interbedded was coarse limestone sand (oolites) with traces of very fine to medium grained quartz sand					w		h to Water HES- = 3.94' w/ TOC 1.8' ags		
SC	10-15	60	NA	NA	NA	NA		10-15	Soft-grayish tan sandy (coarse to very fine grained quartz sand) marl with traces of coarse to fine phosphatic sand					S		t of 0.02 slot well en set from 8 to 10 feet		
sc	15-18	36	NA	NA	NA	NA		15-18	quartz fragme	oft-grayish tan sandy (coarse to very fine grained uartz sand) marl with some small to large shell agments and cemeted sand/shell nodules, and aces of coarse to fine phosphatic sand								
sc	18-20	24	NA	NA	NA	NA		18-20	Firm-light gray marl with traces of fine to very fine grained quartz sand and very small shell fragments					М				
sc	20-25	60	NA	NA	NA	NA	/	20-25	Firm-gray marl with dark gray mottling and traces fine to very fine grained quartz sand					М				
sc	25-30	60	NA	NA	NA	NA	/	25-30	Same a	Same as above M								
sc	30-35	60	NA	NA	NA	NA	/	30-35	Firm-gray marl with dark gray mottling with some small shell fragments and traces fine to very fine grained quartz sand									
sc	35-40	60	NA	NA	NA	NA	/	35-40	Soft-gray marl with tan mottling and traces of fine to very fine grained quartz sand W									
sc	40-45	60	NA	NA	NA	NA	/	40-45	Soft-tan with dark gray mottlijng marl with traces of fine to very fine grained quartz sand and dark gray fine phosphatic sand									
sc	45-50	60	NA	NA	NA	NA		45-50	to very	Soft-tan with dark gray mottlijng marl with some fine to very fine grained quartz sand and dark gray fine phosphatic sand								

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

WELL BORING LOG

]	Page 2 o	f	2		
Boring	g/Well N	Number	r: HES-2	24		Permit Number:												
Okalo	acooch	nee Slo	ough Sta	te Fore	st													
Project Name: C-139 Regional Study Bor								tart Dat	e:	10/15/09	Borehole Start	Time:	8:30	X	am	pm		
							F	End Dat	e:	10/15/09	End 7	Γime:	3:00	am x m				
Enviro	onmenta					Geolog	ist':	s Name:				Environr	nental T	al Technician's Name:				
			S Corp.							vid Schulte				NA				
Drillir	ng Comp		.		Paveme	ent Thicl			es):	Borehole Diameter (inches): 6			Borehole Depth (feet):					
Drillir	ng Metho	Drill F	ro	Annaren	t Borehol		lon		Mar	asured Well DTW	OVA (list model and check type):							
Dillilli	-	ic Drill			oil moistu			3		water recharges in well): 3				NA FID PID				
Dispo	sition of	Drill (Cuttings [check m	ethod(s)]:		Drui	n	Spread	Backfill		Stockpil	e	Ot	her		
(descr	ibe if ot	her or	multiple i	tems are	checked	d):	Sa	mples	taken c	off site for exam	mination							
Boreh	ole Con	pletio	n (check o	one):	X We	ell	G	rout	Bei	ntonite	Backfill	Oti	her (des	cribe)				
Sample Type	Unfiltered OVA SPT Blows (per six inches) Sample Recovery (inches) Sample Depth Interval (feet) Sample Type			Filtered OVA	Net OVA	Depth (feet)		(inclu	Sample de grain size bas and of	ers, stainin	Moisture Content		Notes:					
SC	50-55	60	NA	NA	NA	NA		50-55	Soft-tan with dark gray mottlijng marl with some fine to very fine grained quartz sand and dark gray fine phosphatic sand									
SC	55-60	60	NA	NA	NA	NA		55-60	Soft-tan with gray mottling silty medium to fine grained quartz sand with some gary marl and very small shell fragements, and traces of very fine grained quartz sand									
SC	60-62	24	NA	NA	NA	NA		60-62	Same as above					S				
sc	62-65	36	NA	NA	NA	NA		62-65		rm - olive gray s grained quartz s	ne gray		s					
sc	65-68	60	NA	NA	NA	NA		65-68	Semi-firm - gray with light gray mottling silty fine to medium grained quartz sand with some gray marl and traces of coarse grained quartz sand and dark gray coarse phosphatic sand					S				
SC	68-70	24	NA	NA	NA	NA		68-70	Unconsolidated-light tan medium grained quartz sand with traces of fine to very fine grained quartz sand, small shell fragments, and dark gray medium phosphatic sand					S				
sc	70-80	120	NA	NA	NA	NA	/	70-80	Unconsolidated-light tan medium grained quartz sand with traces of fine to very fine grained quartz sand, small shell fragments, and dark gray medium phosphatic sand									
SC	80-90	120	NA	NA	NA	NA		80-90	sand wi	th some small s	in medium graine shell fragments a d quartz sand and nd	nd traces		S	well	eet of 0.02 slot screen set from 88 to 90 feet		
														s	Borin	ng Terminated @ 90'		