

Figure U.4 Phase Plots Measured by SASW Testing with 2-ft Receiver Spacing (4B4 F 43.DAT)



Figure U.5 Phase Plots Measured by SASW Testing with 3-ft Receiver Spacing (4B5_F_21.DAT)



Figure U.6 Phase Plots Measured by SASW Testing with 6-ft Receiver Spacing (4B5_F_43.DAT)



Figure U.7 Phase Plots Measured by SASW Testing with 6-ft Receiver Spacing (4B6_F_43.DAT)



Figure U.8 Phase Plots Measured by SASW Testing with 6-ft Receiver Spacing (4B7_F_43.DAT)



Figure U.9 Phase Plots Measured by SASW Testing with 9-ft Receiver Spacing (4B8_F_21.DAT)



Figure U.10 Phase Plots Measured by SASW Testing with 18-ft Receiver Spacing (4B8_F_43.DAT)



Figure U.11 Phase Plots Measured by SASW Testing with 18-ft Receiver Spacing (4B9_F_43.DAT)



Figure U.12 Phase Plots Measured by SASW Testing with 15-ft Receiver Spacing (4G1_F_21.DAT)



Figure U.13 Phase Plots Measured by SASW Testing with 15-ft Receiver Spacing (4G2_F_21.DAT)



Figure U.14 Phase Plots Measured by SASW Testing with 25-ft Receiver Spacing (4G3_F_21.DAT)



Figure U.15 Phase Plots Measured by SASW Testing with 25-ft Receiver Spacing (4G3_F_43.DAT)



Figure U.16 Phase Plots Measured by SASW Testing with 30-ft Receiver Spacing (4G1 F 43.DAT)



Figure U.17 Phase Plots Measured by SASW Testing with 30-ft Receiver Spacing (4G2_F_43.DAT)



Figure U.18 Phase Plots Measured by SASW Testing with 50-ft Receiver Spacing (4G4_F_21.DAT)

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Figure U.19 Phase Plots Measured by SASW Testing with 100-ft Receiver Spacing (4G5_F_21.DAT)

Receiver Spacing (ft)	Masking Interval	Masking Start Frequency, Hz	Masking Stop Frequency, Hz	Number of Jumps	Filename	
1	1	0	214	1	4B3_F_21.DAT	
I	2	312	800	-		
1	1	0	207	1		
I	2	306	800	-	4B4_F_2I.DAT	
	1	0	110	1		
2	2	120	155	1	4B3_F_43.DAT	
	3	404	800			
2	1	0	131	1		
2	2	244	800	-	4B4_F_43.DA1	
2	1	0	80.5	1	4D5 E 21 DAT	
2	2	127	400	-	4D5_F_21.DA1	
6	1	0	45.5	1	4D5 E 42 DAT	
0	2	98.5	400	- .	4DJ_F_43.DA1	
6	1	0	48.5	1		
0	2	108.5	400	-	JU_I_4J.DAI	
6	1	0	47.5	1		
0	2	113.5	400	-	4D7_1_43.DA1	
0	1	0	36.25	1	4D9 E 21 DAT	
9	2	76.75	200	-	4B8_F_21.DA1	
	1	0	23.75	1		
	2	93.25	110	4		
10	3	112	115.75	5	1D9 E 42 DAT	
10	4	128	132	6	4D8_F_43.DA1	
	5	146	147.75	7		
	6	199.25	200	-		
25	1	0	16.25	1	4C2 E 21 DAT	
23	2	73	100	-	405_F_21.DA1	
	1	0	18	1		
25	2	55.38	56	3	4G3_F_43.DAT	
	3	71.38	100	-		

 Table U.1
 Tables of Masking Parameters Used on Data Collected during Fourth Site

 Visit at Site B

Checked by <u>Jin-Cheng</u> Lin. Performed by Jiabei Yuan

Receiver Spacing (ft)	Masking Interval	Masking Start Frequency, Hz	Masking Stop Frequency, Hz	Number of Jumps	Filename	
30	1	0	14.62	1	4G1_F_43.DAT	
	1	0	15	1	4G2_F_43.DAT	
30	2	32.5	33.25	2		
	3	93.5	100	-		
50	1	0	8.62	1		
	2	33.25	33.75	3	4G4_F_21.DAT	
	3	77.5	100	-		
100	1	0	4.88	1		
	2	12.69	13.44	2	465 E 21 DAT	
	3	20.06	20.5	3	403_F_21.DA1	
	4	35.69	50	-		

Table U.2Tables of Masking Parameters Used on Data Collected during Fourth Site
Visit at Site B (Continued)

____ Checked by <u>Jin-Cheng</u> Lin. Vin-Cheng Lin Performed by Jiabei Yuan



Figure U.20 Experimental Dispersion Curve Measured during Fourth Site Visit at Site B at Vogtle, GA; Linear Wavelength Axis



Figure U.21 Experimental Dispersion Curve Measured during Fourth Site Visit at Site B at Vogtle, GA; Logarithmic Wavelength Axis



Figure U.22 Experimental and Theoretical Dispersion Curves from Site B in Fourth Site Visit at Vogtle, GA; Linear Wavelength Axis



Figure U.23 Experimental and Theoretical Dispersion Curves from Site B in Fourth Site Visit at Vogtle, GA; Logarithmic Wavelength Axis

Wavelength (ft)



Figure U.24 Shear Wave Velocity Profile Determined at Site B during Fourth Site Visit at Vogtle, GA

Table U.3	Profile Parameters Used to Develop Preliminary Theoretical Dispersion
	Curve at Site B in the Fourth Site Visit at Vogtle, GA

Layer No.	Thickness, ft	Depth to Top of Layer, ft	S-Wave Velocity, ft/s	Assumed Poisson's Ratio	P-Wave Velocity, ft/s	Assumed Total Unit Weight, pcf
1	0.5	0.0	370	0.24	633	128
2	0.5	0.5	420	0.24	718	128
3	1.5	1.0	500	0.24	855	128
4	3.5	2.5	670	0.24	1146	128
5	3.0	6.0	760	0.24	1299	128
6	4.0	9.0	900	0.24	1539	128
7	3.0	13.0	980	0.24	1676	128
8	3.0	16.0	1050	0.24	1795	128
9	4.0	19.0	1150	0.24	1966	128
10	3.0	23.0	1250	0.24	2137	128
11	8.0	26.0	1350	0.24	2308	128
12	46.0	34.0	800	0.24	1368	128
13 [#]	12.3	80.0	1900	0.42	5000	135
14* [#]	17.7	92.3	2200	0.38	5000	135
15*#	Half Space	110.0	2200	0.38	5000	135

* Layer below maximum depth of the V_S Profile.

Layer below water tatble.

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Appendix V

SASW Measurements of Fourth Site Visit at Vogtle, GA Site Location: Site C

1. Data Sheet(s)	V.2
2. Phase Plots from SASW Tests	V.4
3. Table of Masking Parameters	V.10
4. Experimental Dispersion Curves	V.12
5. Matching the Experimental and Theoretical	
Dispersion Curves	V.13
6. Shear Wave Velocity Profile	V.14
7. Table of Profile Parameters	V.14

3 -	Receiver	SASW	Data	Sheet
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Project : Vogtle	
Location : $C(SA4#3)$	
Date/(Time) : Jan , 24, 2008 (1:10 Atm :)	
Personnel: Stokoe, Yuan, Minjae.	
Recorded by : Yuan	
Checked by : Milifac	
	4
R11.D.: WT07-4.5H2-04, GB(9203) Ne	an
R21.D.: UT07-45H2-02, GE(9202 Cen	ntu
R31.D. : WT07 - 45H2-03 :656(92001 P	'a

and the second

Data Sheet #: <u>SA4井</u> }

Di	stance	(ft)	Imp	act	Impact	Bocord #	Freq. Range	Noton]	
S - R1	R1 - R2	R2 - R3	Dire	ction	Source	Necolu #	(Hz)	Notes		
1	1	2	Ø	Rev	SMALL	461	0 - 800	Sihali hanmer on plate.	soft	h'
ł	1	2	For	Rev	1	412	0 - 500			
3	3	6	For	Ø	med	413	0-400			
3	3	6	E	Rev		414	0-400			
9	q.	18	For	Rev	googe	405	6-100	hammer on NGIE		
9	9	18	For	Rev	11	466	0- 100			
1	. •	-	For	Rev			~			
		-	For	Rev			~]	
			For	Rev			ey]	
			For	Rev			~.		1	
			For	Rev			~			
	-		For	Rev					1	
			For	Rev			~			
			For	Rev			10 .			
			For	Rev	<u> </u>	·	**			
			For	Rev		-	Por 1		1	

* Autosequence 3R_SASW saves F_2/1, C_2/1, F_4/3, C_4/3, Lin_1, Lin_2, Lin_4

* Autosequence 3R_SEWPSIN saves F_2/1, Var_2, F_4/3, Var_4, Lin_1, Lin_2, Lin_4

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Project : Vogtle
Location : $G_1(SA4\#7)$
Date/(Time) : Jan 1 24 1 2008 (: ~ :)
Personnel : Stoke, Tuan: Minjae
Recorded by : Tuan
Checked by : Minjae
RII.D. : UT07-4.5H2-04, GZC92003
R21.D. : UT07-45HZ -07, GEC 92002
R31D : 12TOT - 45H2 -03 GRG 92001

3 - Receiver SASW Data Sheet



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Distance (ft)		(ft)	Impact		Impact	Record #	Freq. Range	Notos
S - R1	R1 - R2	R2 - R3	Dire	ction	Source	Record #	(Hz)	INDLES
15	.15	30	For	Ret	ballduser	461	0 - 100	
15	15	30	For	Rep	11	4G2	0-10D	-
25	25	.25	For	Re	~	4G3	0-100	
50	50		For	RE	11 .	464	0-100	
100	Ino	No. of Concession, Name	For	Rey	11	495	0-50	
			For	Rev			~	
			For	Rev			~	
			For	Rev			~	
			For	Rev			~	
			For	Rev			~	
			For	Rev			~	
			For	Rev			~	
			For	Rev			~	
			For	Rev			-	
free provide the second s			For	Rev			~	
			For	Rev			~	

* Autosequence 3R_SASW saves F_2/1, C_2/1, F_4/3, C_4/3, Lin_1, Lin_2, Lin_4

* Autosequence 3R_SEWPSIN saves F_2/1, Var_2, F_4/3, Var_4, Lin_1, Lin_2, Lin_4

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Figure V.2 Phase Plots Measured by SASW Testing with 2-ft Receiver Spacing (4C1_F_43.DAT)



Figure V.3 Phase Plots Measured by SASW Testing with 2-ft Receiver Spacing (4C2_F_43.DAT)



Figure V.4 Phase Plots Measured by SASW Testing with 3-ft Receiver Spacing (4C4_F_21.DAT)



Figure V.5 Phase Plots Measured by SASW Testing with 6-ft Receiver Spacing (4C3_F_43.DAT)



Figure V.6 Phase Plots Measured by SASW Testing with 6-ft Receiver Spacing (4C4_F_43.DAT)



Figure V.7 Phase Plots Measured by SASW Testing with 9-ft Receiver Spacing (4C5_F_21.DAT)



Figure V.8 Phase Plots Measured by SASW Testing with 9-ft Receiver Spacing (4C6_F_21.DAT)



Figure V.9 Phase Plots Measured by SASW Testing with 18-ft Receiver Spacing (4C5_F_43.DAT)



Figure V.10 Phase Plots Measured by SASW Testing with 18-ft Receiver Spacing (4C6_F_43.DAT)



Figure V.11 Phase Plots Measured by SASW Testing with 15-ft Receiver Spacing (4G1_F_21.DAT)



Figure V.12 Phase Plots Measured by SASW Testing with 15-ft Receiver Spacing (4G2_F_21.DAT)



Figure V.13 Phase Plots Measured by SASW Testing with 25-ft Receiver Spacing (4G3_F_21.DAT)



Figure V.14 Phase Plots Measured by SASW Testing with 25-ft Receiver Spacing (4G3_F_43.DAT)



Figure V.15 Phase Plots Measured by SASW Testing with 30-ft Receiver Spacing (4G1_F_43.DAT)



Figure V.16 Phase Plots Measured by SASW Testing with 30-ft Receiver Spacing (4G2_F_43.DAT)



Figure V.17 Phase Plots Measured by SASW Testing with 50-ft Receiver Spacing (4G4_F_21.DAT)



Figure V.18 Phase Plots Measured by SASW Testing with 100-ft Receiver Spacing (4G5_F_21.DAT)