APPENDIX G
NOISE

This appendix describes in greater detail the noise quality issues referenced in the text and tables presented in Section 3.6 and 4.6.

Table of Contents

Supporting Tables

Table G-1 Exterior Noise Levels Generated by US 90 – Estimated Existing Levels and Predicted Year 2010 Levels at 70 Sites

Table G-2 Typical Sound Levels (Leq dBA) from Construction Equipment @ 50 Feet from Source

Supporting Figures

None

Supporting Analyses

None

Table G-2
Typical Sound Levels (Leq dBA) from Construction Equipment @ 50 feet from source

Equipment	Leq dBA
Earth Moving	
Front Loader	85
Back Hoe	80
Dozer	85
Scraper	89
Grader	85
Truck	88
Paver	89
Scarifier	83
Shovel	82
Materials Handling	
Concrete Mixer	85
Concrete Pump	82
Crane, Mobile	83
Crane, Derrick	88

Equipment	Leq dBA
Stationary	
Pump	76
Generator	81
Air Compressor	81
Impact	
Pile Driver (Impact)	101
Pile Driver (Sonic)	96
Jackhammer	88
Rock Drill	98
Other	
Saw	76
Vibrator	76
Compactor	82
Pneumatic Tool	85
Roller	74

Source: EPA, Northeast Corridor Improvement Project and other measured data.

Table G-1
Exterior Noise Levels Generated by US90 - Estimated Existing Levels Predicted Year 2010 Levels at 70 Sites

			Existing					No-Build Alternative		Build Alternatives							
Id #	Location and Facility	23 CFR 772 NAC Leq dBA	Traffic Noise Source	Facility Distance (m)	Facility Distance (ft)	Measured Leq dBA	Estimated Leq dBA	Estimated Leq dBA	Noise Impact	Facility Distance (m)	Facility Distance (ft)	Alt. 2 Estimated Leq dBA	Alt. 2 Noise Impact	Alt. 4 Estimated Leq dBA	Alt. 4 Noise Impact	Alt. 5 Estimated Leq dBA	Alt. 5 Noise Impact
1	Beauvoir - Historic structure	67	US90	44	143		65	67	NAC	44	143	69	NAC	69	NAC	69	NAC
2	Beauvoir - Historic structure	67	US90	58	191		64	66	NAC	58	191	68	NAC	68	NAC	68	NAC
3	Beauvoir - Historic structure	67	US90	37	120		67	69	NAC	37	120	71	NAC	71	NAC	71	NAC
4	Beauvoir - Administrator's residence	67	US90	54	178	62	64	66	NAC	54	178	68	NAC	69	NAC	69	NAC
5	Jefferson Davis Library & Museum	67	US90	122	400		58	61	no impact	122	400	63	no impact	63	no impact	63	no impact
6	Denny's Restaurant on US 90	72	US90	8	27		75	77	NAC	8	27	79	NAC	79	NAC	79	NAC
7	Two Loventeen - commercial	72	US90	104	342		61	63	no impact	104	342	65	no impact	66	no impact	65	no impact
8	West side of Sadler Beach Dr. - residence	67	US90	155	507	59	59	61	no impact	155	507	63	no impact	63	no impact	63	no impact
9	West side of Sadler Beach Dr. - residence	67	US90	229	750		50	52	no impact	229	750	54	no impact	54	no impact	54	no impact
10	West side of Sadler Beach Dr. - residence	67	US90	283	927		49	51	no impact	283	927	53	no impact	53	no impact	53	no impact
11	Texaco / Foodmart on North side US 90	N/A*	US90	25	82		71	74	no impact	25	82	76	no impact	76	no impact	76	no impact
12	Rodeway Inn - on Sadler Beach Dr.	67	US90	58	191		64	67	NAC	58	191	69	NAC	69	NAC	69	NAC
13	Rodeway Inn - on Sadler Beach Dr.	67	US90	102	335		60	63	no impact	102	335	65	no impact	65	no impact	65	no impact
14	Rodeway Inn - on Sadler Beach Dr.	67	US90	141	462		57	60	no impact	141	462	62	no impact	62	no impact	62	no impact
15	East side of Sadler Beach Dr. - residence	67	US90	152	500		53	55	no impact	152	500	57	no impact	57	no impact	57	no impact
16	East side of Sadler Beach Dr. - residence	67	US90	169	555		52	55	no impact	169	555	57	no impact	57	no impact	57	no impact
17	East side of Sadler Beach Dr. - residence	67	US90	209	686		51	53	no impact	209	686	55	no impact	55	no impact	55	no impact
18	East side of Sadler Beach Dr. - residence	67	US90	227	744		50	52	no impact	227	744	54	no impact	54	no impact	54	no impact
19	East side of Sadler Beach Dr. - residence	67	US90	291	955		48	51	no impact	291	955	53	no impact	53	no impact	53	no impact
20	Beauvoir Beach Apts. - office on US 90	72	US90	26	85	69	70	72	NAC	24	79	74	NAC	75	NAC	75	NAC
21	Beauvoir Beach Apts. - 6 units	67	US90	38	124		66	68	NAC	36	118	70	NAC	70	NAC	70	NAC
22	Beauvoir Beach Apts. - 4 units	67	US90	74	242		60	62	no impact	72	236	64	no impact	64	no impact	64	no impact
23	Beauvoir Beach Apts. - 6 units	67	US90	94	310		56	58	no impact	92	303	60	no impact	61	no impact	60	no impact
24	Beauvoir Beach Apts. - 4 units	67	US90	136	445		54	56	no impact	134	438	58	no impact	58	no impact	58	no impact
25	Beauvoir Beach Apts. - 6 units	67	US90	153	503		53	55	no impact	151	496	57	no impact	57	no impact	57	no impact
26	Beauvoir Beach Apts. - 4 units	67	US90	190	622		52	54	no impact	187	615	56	no impact	56	no impact	56	no impact
27	Beauvoir Beach Apts. - 6 units	67	US90	209	686		51	53	no impact	207	679	55	no impact	55	no impact	55	no impact
28	Beauvoir Beach Apts. - 4 units	67	US90	253	830		50	52	no impact	251	823	54	no impact	54	no impact	54	no impact
29	Beauvoir Beach Apts. - 6 units	67	US90	265	871		49	51	no impact	263	864	53	no impact	53	no impact	53	no impact
30	Beauvoir Beach Apts. - 4 units	67	US90	302	990		48	50	no impact	300	983	52	no impact	52	no impact	52	no impact
31	Vacant wooded lot - undeveloped	N/A*	US90	---	---		**	**	**	Site Improvements - unknown							
32	BBRH - cottage - 2 units	67	US90	20	67		68	71	NAC	Site Improvements - Existing Demolished							
33	BBRH - cottage - 1 unit	67	US90	51	167		62	64	no impact	Site Improvements - Existing Demolished							
34	BBRH - 60 units	67	US90	113	371		57	59	no impact	Site Improvements - Existing Demolished							
35	BBRH - cottage - 2 units	67	US90	234	769		51	52	no impact	Site Improvements - Existing Demolished							
36	BBRH - cottage - 2 units	67	US90	260	853		50	52	no impact	Site Improvements - Existing Demolished							
37	BBRH - Garden Apts. - 50 units	67	US90	229	750		52	54	no impact	Site Improvements - Existing Demolished							
38	BBRH - Garden West Wing - 120 units	67	US90	256	840		50	52	no impact	Site Improvements - Existing Demolished							
39	BBRH - Garden East Wing - 46 units	67	US90	266	873		51	52	no impact	Site Improvements - Existing Demolished							
40	BBRH - changing rms / swimming	67	US90	235	771		51	52	no impact	Site Improvements - Existing Demolished							
41	BBRH - snack bar @ pool area	67	US90	227	744		51	52	no impact	Site Improvements - Existing Demolished							
42	BBRH - cottage - 2 units	67	US90	210	688		52	53	no impact	Site Improvements - Existing Demolished							
43	BBRH - basketball court/playgrd.	67	US90	183	600		52	53	no impact	Site Improvements - Existing Demolished							

			Existing					No-Build Alternative		Build Alternatives							
Id #	Location and Facility	23 CFR 772 NAC Leq dBA	Traffic Noise Source	Facility Distance (m)	Facility Distance (ft)	Measured Leq dBA	Estimated Leq dBA	Estimated Leq dBA	Noise Impact	Facility Distance (m)	Facility Distance (ft)	Alt. 2 Estimated Leq dBA	Alt. 2 Noise Impact	Alt. 4 Estimated Leq dBA	Alt. 4 Noise Impact	Alt. 5 Estimated Leq dBA	Alt. 5 Noise Impact
44	BBRH - executive cottage - 1 unit	67	US90	158	518		54	55	no impact	Site Improvements - Existing Demolished							
45	BBRH - executive cottage - 2 unit	67	US90	165	542		54	55	no impact	Site Improvements - Existing Demolished							
46	BBRH - executive cottage - 2 unit	67	US90	175	573		53	54	no impact	Site Improvements - Existing Demolished							
47	BBRH - executive cottage - 2 unit	67	US90	152	499		54	55	no impact	Site Improvements - Existing Demolished							
48	BBRH - executive cottage - 2 unit	67	US90	137	449		55	56	no impact	Site Improvements - Existing Demolished							
49	BBRH - machinery shop bldg.	N/A*	US90	52	170		68	69	no impact	Site Improvements - Existing Demolished							
50	BBRH - Park East Wing - office bldg.	72	US90	90	295		62	63	no impact	Site Improvements - Existing Demolished							
51	BBRH - grounds security bldg.	72	US90	82	270		61	62	no impact	Site Improvements - Existing Demolished							
52	BBRH - Park West Wing - 11 units	67	US90	80	261		61	62	no impact	Site Improvements - Existing Demolished							
53	BBRH - main bldg. & terrace - 33 units	67	US90	24	80		73	74	NAC	Site Improvements - Existing Demolished							
54	Southern Memorial Park Cemetery	72	US90	61	200	61	63	64	no impact	59	195	65	no impact	65	no impact	65	no impact
55	Broadwater Gulf Hall exposition center	67	US90	16	51		75	75	NAC	Site Improvements - Existing Demolished							
56	Broadwater Towers Hotel - 71 rooms	67	US90	52	170		69	70	NAC	Site Improvements - Existing Demolished							
57	House of Chin Restaurant on US 90	72	US90	22	73	70	71	72	NAC	22	73	74	NAC	74	NAC	74	NAC
58	Days Inn Hotel - unit A = 48 rooms	67	US90	135	442		62	63	no impact	135	442	65	no impact	65	no impact	65	no impact
59	Days Inn Hotel - unit B = 36 rooms	67	US90	180	589		60	61	no impact	180	589	63	no impact	63	no impact	63	no impact
60	Days Inn Hotel - unit C = 48 rooms	67	US90	214	701		56	57	no impact	214	701	59	no impact	59	no impact	59	no impact
61	Days Inn Hotel - unit D = 48 rooms	67	US90	272	893		50	50	no impact	272	893	52	no impact	52	no impact	52	no impact
62	Souvenir City / T-shirt World on US 90	72	US90	11	37		76	77	NAC	11	37	78	NAC	78	NAC	78	NAC
63	Italian Restaurant	72	US90	65	213		69	69	no impact	65	213	69	no impact	69	no impact	69	no impact
64	Residential home	67	US90	145	475		56	56	no impact	145	475	58	no impact	58	no impact	58	no impact
65	Residential home	67	US90	185	607		52	53	no impact	185	607	55	no impact	55	no impact	55	no impact
66	Residential mobile home unit	67	US90	219	718		51	51	no impact	219	718	53	no impact	53	no impact	53	no impact
67	Broadwater Resort Restaurant & Lounge	72	US90	227	746		59	60	no impact	Site Improvements - Existing Demolished							
68	Harbour Master office bldg @ casino site	72	US90	274	899		57	59	no impact	Site Improvements - Existing Demolished							
69	Park area near marina @ casino site	67	US90	108	355	59	62	64	no impact	Site Improvements - Existing Demolished							
70	Boat Marina & slip facility	N/A*	US90	59	195		70	71	no impact	Site Improvements - Existing Demolished							

Source: Baker, 1999.

* CFR 7.7.2 maximum noise levels do not apply to service stations, industrial areas, storage areas and other areas having limited human use or where lowered noise levels would produce little benefit.