

# **APPENDICIES**

**APPENDIX A**  
**SOUND LEVELS TABLE**

**Route 29 Widening Project  
Sound Levels Table**

**CNE**

1

2

3

4

5

Receptor Site

Site Representation

Criteria

Existing (2017)

Future Build  
(2043)

A

A-001	Church*	66 (51)	66 (41)	68 (43)
A-002	One Residence	66	69	67
A-003	One Residence	66	69	70
A-004	One Residence	66	57	59
A-005	One Residence	66	60	61
A-006	One Residence	66	59	60
A-007	One Residence	66	58	60
A-008	One Residence	66	57	58
A-009	One Residence	66	58	59
A-010	One Residence	66	59	60
A-011	One Residence	66	60	61
A-TR01	Trail	66	58	59
A-TR02	Trail	66	58	60
A-TR03	Trail	66	58	59
A-TR04	Trail	66	57	58
A-TR05	Trail	66	56	57
A-TR06	Trail	66	56	56
A-TR07	Trail	65	55	56
A-TR08	Trail	65	55	55
A-TR09	Trail	66	56	56
A-TR10	Trail	66	56	56
A-TR11	Trail	66	59	60
A-TR12 ***	Trail	66	66	67

B-001	One Residence	66	66	67
B-002	One Residence	66	65	65
B-003	One Residence	66	64	64
B-004	One Residence	66	63	63
B-005	One Residence	66	62	62
B-006	One Residence	66	65	66
B-007	One Residence	66	62	63
B-008	One Residence	66	60	60
B-009	One Residence	66	57	58
B-010	One Residence	66	56	57
B-011	One Residence	66	66	67
B-012	One Residence	66	62	63
B-013	One Residence	66	58	59
B-014	One Residence	66	56	57
B-015	One Residence	64	54	56
B-016	One Residence	66	56	57
B-017	One Residence	66	56	57
B-018	One Residence	66	56	57
B-019	One Residence	66	56	56
B-020	One Residence	65	55	56
B-021	One Residence	64	54	56
B-022	One Residence	64	54	55
B-023	One Residence	65	55	56
B-024	One Residence	66	58	59
B-025	One Residence	66	59	61
B-026	One Residence	66	61	62
B-027	One Residence	66	62	64

*Route 29 Widening Project  
Sound Levels Table*

		1	2	3	4	5
<b>CNE</b>		Receptor Site	Site Representation	Criteria	Existing (2017)	Future Build (2043)
<b>B</b>	B-028	One Residence	66	64	64	
	B-029	One Residence	66	63	64	
	B-030	One Residence	66	63	63	
	B-031	One Residence	66	63	63	
	B-032	One Residence	66	62	63	
	B-033	One Residence	66	61	62	
	B-034	One Residence	66	56	56	
	B-035	One Residence	66	56	56	
	B-036	One Residence	66	56	57	
	B-037	One Residence	66	57	58	
	B-038	One Residence	66	57	58	
	B-039	One Residence	66	59	60	
	B-040	One Residence	66	61	62	
	B-041	One Residence	66	64	65	
	B-042	One Residence	62	52	53	
	B-043	One Residence	58	48	49	
	B-044	One Residence	60	50	51	
	B-045	One Residence	61	51	52	
	B-046	One Residence	61	51	52	
	B-047	One Residence	66	57	57	
	B-048	One Residence	65	55	56	
	B-049	One Residence	65	55	55	
	B-050	One Residence	62	52	53	
	B-051	One Residence	61	51	52	
	B-052	One Residence	66	62	63	
	B-053	One Residence	66	62	62	
	B-054	One Residence	66	61	62	
	B-055	One Residence	66	61	61	
	B-056	One Residence	66	61	61	
	B-057	One Residence	66	58	57	
	B-058	One Residence	66	60	61	
	B-059	One Residence	66	60	60	
	B-060	One Residence	66	60	60	
	B-061	One Residence	56	46	48	
B-062	One Residence	58	48	49		
B-063	One Residence	58	48	49		
B-064	One Residence	58	48	49		
B-065	One Residence	59	49	50		
B-066	One Residence	58	48	48		
	C-001	One Residence	66	66	67	
	C-002	One Residence	66	65	66	
	C-003	One Residence	66	65	66	
	C-004	One Residence	66	65	66	
	C-005	One Residence	66	64	65	
	C-006	One Residence	66	63	64	
	C-007	One Residence	66	61	63	
	C-008	One Residence	66	60	62	
	C-009	One Residence	66	60	61	
	C-010	One Residence	66	59	60	
	C-011	One Residence	66	59	60	
	C-012	One Residence	66	58	60	



*Route 29 Widening Project  
Sound Levels Table*

**CNE**

1

2

3

4

5

Receptor Site

Site Representation

Criteria

Existing (2017)

Future Build  
(2043)

C

C-013	One Residence	66	58	59
C-014	One Residence	66	58	59
C-015	One Residence	66	59	60
C-016	One Residence	66	60	60
C-017	One Residence	66	61	61
C-018	One Residence	66	62	61
C-019	One Residence	66	62	61
C-020	One Residence	66	60	61
C-021	One Residence	66	60	61
C-022	One Residence	66	60	60
C-023	One Residence	66	60	60
C-024	One Residence	64	54	54
C-025	One Residence	63	53	52
C-026	One Residence	62	52	52
C-027	One Residence	62	52	53
C-028	One Residence	66	60	59
C-029	One Residence	66	57	56
C-030	One Residence	66	56	55
C-031	One Residence	64	54	54
C-032	One Residence	63	53	53
C-033	One Residence	61	51	51
C-034	One Residence	60	50	50
C-035	One Residence	59	49	50
C-036	One Residence	58	48	49
C-037	One Residence	58	48	49
C-038	One Residence	66	64	62
C-039	One Residence	66	61	60
C-040	One Residence	66	59	58
C-041	One Residence	66	57	56
C-042	One Residence	66	56	55
C-043	One Residence	64	54	53
C-044	One Residence	66	63	62
C-045	One Residence	66	59	58
C-046	One Residence	66	57	55
C-047	One Residence	64	54	53
C-048	One Residence	63	53	52
C-049	One Residence	66	63	62
C-050	One Residence	66	58	58
C-051	One Residence	66	56	55
C-052	One Residence	64	54	54
C-053	One Residence	62	52	52
C-054	One Residence	66	62	63
C-055	One Residence	66	58	59
C-056	One Residence	66	57	59
C-057	One Residence	66	56	58
C-058	One Residence	66	56	58
C-059	One Residence	66	56	58
C-060	One Residence	66	60	61
C-061	One Residence	66	60	61
C-062	One Residence	66	60	61
C-063	One Residence	66	60	61
C-064	One Residence	66	61	62

*Route 29 Widening Project  
Sound Levels Table*

**CNE**

	1	2	3	4	5
	Receptor Site	Site Representation	Criteria	Existing (2017)	Future Build (2043)
C-065	One Residence	One Residence	66	61	62
C-066	One Residence	One Residence	66	62	62
C-067	Playground	Playground	66	62	64
C-068	One Residence	One Residence	60	50	51
C-069	One Residence	One Residence	58	48	48
C-070	One Residence	One Residence	57	47	48
C-071	One Residence	One Residence	61	51	50
C-072	One Residence	One Residence	60	50	50
C-073	One Residence	One Residence	60	50	50
C-074	One Residence	One Residence	59	49	50
C-075	One Residence	One Residence	58	48	50
C-076	One Residence	One Residence	57	47	48
C-077	One Residence	One Residence	57	47	49
C-078	One Residence	One Residence	57	47	49
C-079	One Residence	One Residence	58	48	50
C-080	One Residence	One Residence	59	49	50
C-081	One Residence	One Residence	61	51	51
C-082	One Residence	One Residence	59	50	51
C-083	One Residence	One Residence	59	49	50
C-084**	One Residence	One Residence	53	43	44
C-085	One Residence	One Residence	57	47	49
C-086	One Residence	One Residence	56	46	47
C-087	One Residence	One Residence	56	46	48
C-088	One Residence	One Residence	59	49	51
C-089	One Residence	One Residence	60	50	52
C-TR01	Trail	Trail	58	48	49
C-TR02	Trail	Trail	55	45	47
C-TR03	Trail	Trail	55	45	47
C-TR04	Trail	Trail	57	47	48
C-TR05	Trail	Trail	57	47	49
C-TR06	Trail	Trail	57	47	49
C-TR07	Trail	Trail	58	48	50
C-TR08	Trail	Trail	61	51	52
C-TR09	Trail	Trail	62	52	54
C-TR10	Trail	Trail	64	54	56
C-TR11	Trail	Trail	66	57	59
C-TR12	Trail	Trail	66	59	60

D-001	One Residence	One Residence	66	66	68
D-002	One Residence	One Residence	66	66	68
D-003	One Residence	One Residence	66	68	69
D-004	One Residence	One Residence	66	67	69
D-005	One Residence	One Residence	66	67	67
D-006	One Residence	One Residence	66	67	69
D-007	One Residence	One Residence	66	67	69
D-008	One Residence	One Residence	66	66	68
D-009	One Residence	One Residence	66	65	66
D-010	One Residence	One Residence	66	62	63
D-011	One Residence	One Residence	66	60	61
D-012	One Residence	One Residence	66	63	64
D-013	One Residence	One Residence	66	64	65
D-014	One Residence	One Residence	66	61	62

*Route 29 Widening Project  
Sound Levels Table*

**CNE**

D

	1	2	3	4	5
	Receptor Site	Site Representation	Criteria	Existing (2017)	Future Build (2043)
D-015	One Residence	One Residence	66	60	61
D-016	One Residence	One Residence	66	60	61
D-017	One Residence	One Residence	66	59	61
D-018	One Residence	One Residence	66	56	57
D-019	One Residence	One Residence	66	56	58
D-020	One Residence	One Residence	66	57	58
D-021	One Residence	One Residence	63	53	55
D-022	One Residence	One Residence	64	54	55
D-023	One Residence	One Residence	61	51	51
D-024	One Residence	One Residence	62	52	53
D-025	One Residence	One Residence	62	52	54
D-026	One Residence	One Residence	61	51	53
D-027	One Residence	One Residence	57	47	49
D-028	One Residence	One Residence	56	46	47
D-029	One Residence	One Residence	56	46	47
D-030	One Residence	One Residence	62	52	52
D-031	One Residence	One Residence	66	56	57
D-032	One Residence	One Residence	66	59	60
D-033	One Residence	One Residence	66	59	60
D-034	One Residence	One Residence	66	59	60
D-035	One Residence	One Residence	66	61	62
D-036	One Residence	One Residence	66	57	58
D-037	One Residence	One Residence	65	55	56
D-038	One Residence	One Residence	63	53	54
D-039	One Residence	One Residence	62	52	54
D-040	One Residence	One Residence	64	54	55
D-041	One Residence	One Residence	65	55	56
D-042	One Residence	One Residence	66	63	64
D-043	One Residence	One Residence	66	64	65
D-044	One Residence	One Residence	66	64	66
D-045	One Residence	One Residence	66	65	67
D-046	One Residence	One Residence	66	67	69
D-047	One Residence	One Residence	66	64	65
D-048	One Residence	One Residence	66	59	60
D-049	One Residence	One Residence	66	63	65
D-050	One Residence	One Residence	63	53	55
D-051	One Residence	One Residence	66	56	58
D-052	One Residence	One Residence	60	50	52
D-053	One Residence	One Residence	60	50	51
D-054	One Residence	One Residence	57	47	48
D-055	One Residence	One Residence	58	48	49
D-056	One Residence	One Residence	60	50	50
D-057	One Residence	One Residence	59	49	51
D-058	One Residence	One Residence	58	48	49
D-059**	One Residence	One Residence	54	44	46
D-060	One Residence	One Residence	55	45	46
D-061	One Residence	One Residence	55	45	46
D-062**	One Residence	One Residence	52	42	43
D-063	One Residence	One Residence	58	48	49
D-064	One Residence	One Residence	55	45	46
D-065**	One Residence	One Residence	53	43	44
D-066**	One Residence	One Residence	53	43	44

*Route 29 Widening Project  
Sound Levels Table*

<i>Route 29 Widening Project Sound Levels Table</i>					
<b>CNE</b>	1	2	3	4	5
	Receptor Site	Site Representation	Criteria	Existing (2017)	Future Build (2043)
E	E-001	One Residence	63	53	55
	E-002	One Residence	65	55	56
	E-003	One Residence	66	59	61
	E-004	One Residence	66	58	60
	E-005	One Residence	66	57	59
	E-006	One Residence	66	57	59
	E-007	One Residence	65	55	57
	E-008	One Residence	66	56	58
F	F-001	One Residence	66	64	65
	F-002	One Residence	66	65	65
	F-003	One Residence	66	63	65
	F-004	One Residence	66	63	64
	F-005	One Residence	66	62	64
	F-006	One Residence	66	56	57
	F-007	One Residence	66	59	61
	F-008	One Residence	66	66	66
	F-009	One Residence	66	66	66
	F-010	One Residence	66	66	66
	F-011	One Residence	66	67	68
	F-012	One Residence	66	65	66
	F-013	One Residence	66	64	66
	F-014	One Residence	66	65	66
	F-015	One Residence	66	64	65
	F-016	One Residence	66	59	60
	F-017	One Residence	66	58	59
	F-018	One Residence	65	55	55
	F-019	One Residence	66	56	57
	F-020	One Residence	59	49	49
	F-021	One Residence	56	46	46
	F-022**	One Residence	55	45	46
	F-023	One Residence	65	55	56
	F-024	One Residence	60	50	52
	F-025	One Residence	56	46	47
	F-026	One Residence	60	50	51
	F-027	One Residence	59	49	50
	F-028	One Residence	58	48	50
	F-029**	One Residence	49	39	40
	F-030**	One Residence	49	39	41
	F-031**	One Residence	49	39	41
	F-032	One Residence	65	55	56
	F-033	One Residence	60	50	52
	F-034	One Residence	57	47	49
	F-035**	One Residence	53	43	44
	F-036	One Residence	57	47	48
	F-037	One Residence	66	57	57
	F-038	One Residence	65	55	56
	F-039	One Residence	63	53	54

*Route 29 Widening Project  
Sound Levels Table*

**CNE**

	1	2	3	4	5
	Receptor Site	Site Representation	Criteria	Existing (2017)	Future Build (2043)
F-040	One Residence	58	48	50	
F-041	One Residence	57	47	48	
F-042	One Residence	55	45	47	
F-043	One Residence	66	62	63	
F-044	One Residence	66	63	63	
F-045	One Residence	66	61	62	
F-046	One Residence	66	62	63	
F-047	One Residence	66	62	61	
F-048	One Residence	65	55	56	
F-049	One Residence	65	55	55	
F-050	One Residence	63	53	55	
F-051	One Residence	62	52	54	
F-052	One Residence	65	55	56	
F-053	One Residence	66	56	57	
F-054	One Residence	66	58	59	
F-055	One Residence	66	60	61	
F-056	One Residence	64	54	56	
F-057	One Residence	61	51	53	
F-058	One Residence	60	50	52	
F-059	One Residence	56	46	48	
F-060	One Residence	57	47	48	
F-061	One Residence	56	46	47	
F-062	One Residence	61	51	53	
F-063	One Residence	62	52	53	
F-064	One Residence	61	51	52	
F-065	One Residence	65	55	57	
F-066	One Residence	59	49	50	
F-067	One Residence	57	47	48	
F-068	One Residence	62	52	53	
F-069**	One Residence	49	39	41	
F-070	One Residence	66	60	61	
F-071	One Residence	66	59	61	
F-072	One Residence	66	58	60	
F-073	One Residence	65	55	56	
F-074	One Residence	60	50	52	
G-001	One Playground	66	61	59	
G-002	Shelter	65	55	57	
G-003	One Residence	66	58	59	
G-004	One Residence	66	56	57	
G-005	One Residence	60	50	51	
G-006	One Residence	60	50	51	
G-007	One Residence	58	48	51	
G-008**	One Residence	53	43	44	
G-009**	One Residence	50	40	41	
G-010**	One Residence	52	42	44	
G-011**	One Residence	48	38	39	
G-012**	One Residence	47	37	38	
G-013**	One Residence	47	37	39	

*Route 29 Widening Project  
Sound Levels Table*

**CNE**

G

	1	2	3	4	5
	Receptor Site	Site Representation	Criteria	Existing (2017)	Future Build (2043)
G-014**	One Residence	One Residence	44	34	36
G-015	One Residence	One Residence	55	45	47
G-016	One Residence	One Residence	56	46	48
G-017	One Residence	One Residence	56	46	49
G-018	One Residence	One Residence	55	45	45
G-019	One Residence	One Residence	62	52	55
G-020	One Residence	One Residence	65	55	58
G-021	One Residence	One Residence	66	58	59
G-022	One Residence	One Residence	66	56	57
G-023	One Residence	One Residence	63	53	56
G-024	One Residence	One Residence	57	47	50
G-025	One Residence	One Residence	62	52	54
G-026	One Residence	One Residence	66	59	61
G-027	One Residence	One Residence	66	65	66
G-028	One Residence	One Residence	66	65	67
G-029	One Residence	One Residence	66	66	68
G-030	One Residence	One Residence	66	58	61
G-031	One Residence	One Residence	66	65	66
G-032	One Residence	One Residence	66	62	61
G-033	One Residence	One Residence	66	58	56
G-034	Church*	Church*	66 (51)	65	63
G-035	One Residence	One Residence	65	55	54
G-036	One Residence	One Residence	63	53	52
G-037**	One Residence	One Residence	49	39	40
G-038**	One Residence	One Residence	46	36	37
G-039**	One Residence	One Residence	45	35	37
G-040**	One Residence	One Residence	47	37	37
G-041**	One Residence	One Residence	48	38	39
G-042**	One Residence	One Residence	51	41	41
G-043**	One Residence	One Residence	52	42	43
G-044**	One Residence	One Residence	53	43	47
G-045	One Residence	One Residence	56	46	43
G-046**	One Residence	One Residence	53	43	45
G-047	One Residence	One Residence	55	45	47
G-048	One Residence	One Residence	56	46	47
G-049	One Residence	One Residence	58	48	49
G-050	One Residence	One Residence	57	47	48
G-051	One Residence	One Residence	63	53	53
G-052	One Residence	One Residence	66	63	63
G-053	One Residence	One Residence	66	57	58
G-054	School*	School*	66 (51)	67	68
G-055	Active Sport Area	Active Sport Area	62	52	53
G-056	Active Sport Area	Active Sport Area	55	45	46
G-057	Active Sport Area	Active Sport Area	61	51	52
G-058	Active Sport Area	Active Sport Area	66	61	61
G-059	Active Sport Area	Active Sport Area	66	58	58
G-TR01	Trail	Trail	63	53	55
G-TR02	Trail	Trail	65	55	57
G-TR03	Trail	Trail	66	57	59

*Route 29 Widening Project  
Sound Levels Table*

	1	2	3	4	5	
<b>CNE</b>	Receptor Site	Site Representation	Criteria	Existing (2017)	Future Build (2043)	
	G-TR04	Trail	66	56	59	
	G-TR05	Trail	65	55	57	
	G-TR06	Trail	63	53	55	
	G-TR07	Trail	61	51	53	
	G-TR08	Trail	59	49	51	
	G-TR09	Trail	59	49	51	
	H	H-001	One Residence	66	65	65
		H-002	One Residence	66	60	62
		H-003	One Residence	66	61	63
H-004		One Residence	66	64	65	
H-005		One Residence	66	64	65	
H-006		One Residence	66	56	57	
H-007		One Residence	66	56	56	
H-008		One Residence	65	55	56	
H-009		One Residence	66	58	60	
H-010		One Residence	63	53	55	
H-011		One Residence	64	54	56	
H-012		One Residence	58	48	49	
H-013		One Residence	58	48	49	
H-014		One Residence	58	48	50	
H-015		One Residence	59	49	50	
H-016		One Residence	60	50	52	
H-017		One Residence	61	51	52	
H-018		One Residence	60	50	51	
H-019		One Residence	58	48	50	
H-020		One Residence	59	49	50	
H-021		One Residence	61	51	52	
H-022		One Residence	63	53	55	
H-023		One Residence	65	55	56	
H-024		One Residence	65	55	57	
H-025		One Residence	66	64	65	
H-026		One Residence	66	63	64	
H-027		Motel	72	68	69	
H-028		One Residence	61	51	52	
H-029		One Residence	62	52	53	
H-030		One Residence	62	52	53	
H-031		One Residence	62	52	53	
H-032		One Residence	64	54	55	
H-033		One Residence	66	62	63	
H-034		One Residence	66	66	67	
H-035		One Residence	59	49	50	
H-036		One Residence	62	52	53	
H-037		One Residence	66	59	60	
H-038		One Residence	66	63	63	
H-039		One Residence	66	61	62	
H-040		One Residence	66	60	61	
H-041		One Residence	66	62	63	
H-042		One Residence	66	67	68	

**Route 29 Widening Project  
Sound Levels Table**

	1	2	3	4	5
<b>CNE</b>	Receptor Site	Site Representation	Criteria	Existing (2017)	Future Build (2043)
	H-043	One Residence	66	67	68
	H-044	One Residence	66	66	67
	H-045	One Residence	66	64	65
	H-046	One Residence	66	53	54
	H-047	One Residence	66	51	51
	H-048	One Residence	66	59	60
I	I-001	One Residence	66	58	58
	I-002	One Residence	65	58	58
	I-003	One Residence	65	55	55
	I-004**	One Residence	57	47	49
	I-005	One Residence	58	48	48
	I-006	One Residence	57	47	46
	I-007**	One Residence	51	41	42
	I-008	One Residence	58	47	48
	I-009**	One Residence	60	50	51
	I-010	One Residence	57	47	48
	I-011	One Residence	55	45	45
	I-012**	One Residence	53	43	44
	I-013	One Residence	58	48	50
	I-014	One Residence	56	46	48
	I-015	One Residence	62	52	53
	I-016	One Residence	63	53	55
	I-017	One Residence	66	61	62
	I-018	One Residence	66	62	63
	I-019	One Residence	66	61	61
	I-020	One Residence	63	53	53
	I-021	One Residence	58	48	48



Noise Levels approach or exceed FHWA/VDOT Noise Abatement Criteria

\* ( )

Represents Interior Noise Level

\*\*

Noise Level is below 45 dB(A). Only roadway traffic noise was modeled for this project and therefore background included within the noise level calculation for these sites.

\*\*\*

Impacted by Local Road. Outside of the area of roadway improvements



**APPENDIX B**  
**INSERTION LOSS**

### Insertion Loss Table

*Route 29 Widening Project*

*Barrier Analysis by CNE*

1	2	3	4	5	6	7
CNE Descriptor	Barrier	Site Descriptor	Site Representation	Build (2046) Noise Level	Abated (2046) Noise Level	Net Insertion Loss
A	Barrier A	A001	Church*	67	67	0
		A002	One Residence	67	67	0
		A003	One Residence	70	59	11
		A004	One Residence	59	59	0
		A005	One Residence	61	61	0
		A006	One Residence	60	60	0
		A007	One Residence	60	60	0
		A-008	One Residence	58	58	1
		A-009	One Residence	59	58	1
		A-010	One Residence	60	60	0
		A-011	One Residence	61	61	0
		A-TR07	One Residence	56	59	-3
		A-TR08	One Residence	55	60	-4
		A-TR09	One Residence	56	59	-3
A-TR10	One Residence	56	58	-2		
A-TR11	One Residence	60	57	3		
A-TR12	One Residence	67	66	0		
		B-001	One Residence	67	66	1
		B-002	One Residence	65	65	1
		B-003	One Residence	64	64	0
		B-004	One Residence	63	63	0
		B-005	One Residence	62	62	0
		B-006	One Residence	66	56	10
		B-007	One Residence	63	53	10
		B-008	One Residence	60	52	9
		B-009	One Residence	58	52	7
		B-010	One Residence	57	53	4
		B-011	One Residence	67	56	11
		B-012	One Residence	63	52	11
		B-013	One Residence	59	50	9
		B-014	One Residence	57	49	8
		B-015	One Residence	56	48	7
		B-016	One Residence	57	54	3
		B-017	One Residence	57	54	3
		B-018	One Residence	57	54	2
		B-019	One Residence	56	54	3
		B-020	One Residence	56	54	2
		B-021	One Residence	56	53	3
		B-022	One Residence	55	53	2
		B-023	One Residence	56	55	1
		B-024	One Residence	59	59	1
		B-025	One Residence	60	60	1
		B-026	One Residence	62	62	0
		B-027	One Residence	64	63	0
		B-028	One Residence	64	64	0
		B-029	One Residence	64	64	0
		B-030	One Residence	63	63	0
		B-031	One Residence	63	63	0
		B-032	One Residence	63	62	0

### Insertion Loss Table

*Route 29 Widening Project*

*Barrier Analysis by CNE*

1	2	3	4	5	6	7
CNE Descriptor	Barrier	Site Descriptor	Site Representation	Build (2046) Noise Level	Abated (2046) Noise Level	Net Insertion Loss
<b>B</b>	<b>Barrier B</b>	B-033	One Residence	62	62	0
		B-034	One Residence	56	56	0
		B-035	One Residence	56	56	0
		B-036	One Residence	57	57	0
		B-037	One Residence	58	58	0
		B-038	One Residence	58	58	0
		B-039	One Residence	60	60	0
		B-040	One Residence	62	62	0
		B-041	One Residence	65	65	0
		B-042	One Residence	53	52	1
		B-043	One Residence	49	47	2
		B-044	One Residence	51	50	1
		B-045	One Residence	52	52	1
		B-046	One Residence	52	52	0
		B-047	One Residence	57	57	1
		B-048	One Residence	56	55	1
		B-049	One Residence	55	54	1
		B-050	One Residence	53	52	1
		B-051	One Residence	52	51	1
		B-052	One Residence	63	63	0
		B-053	One Residence	62	62	0
		B-054	One Residence	62	62	0
		B-055	One Residence	61	61	0
		B-056	One Residence	61	61	0
		B-057	One Residence	57	57	0
		B-058	One Residence	61	61	0
		B-059	One Residence	60	60	0
		B-060	One Residence	60	60	0
		B-061	One Residence	48	47	0
		B-062	One Residence	49	49	0
		B-063	One Residence	49	49	0
		B-064	One Residence	49	49	0
		B-065	One Residence	50	50	0
B-066	One Residence	48	48	0		
<b>C</b>	<b>Barrier C</b>	C-001	One Residence	67	57	11
		C-002	One Residence	66	57	9
		C-003	One Residence	66	59	7
		C-004	One Residence	66	56	10
		C-005	One Residence	65	54	10
		C-006	One Residence	64	54	10
		C-007	One Residence	63	53	9
		C-008	One Residence	62	53	9
		C-009	One Residence	61	53	8
		C-010	One Residence	60	53	7
		C-011	One Residence	60	53	7
		C-012	One Residence	60	54	6
		C-013	One Residence	59	54	5
		C-014	One Residence	59	54	5
		C-015	One Residence	60	55	5

### Insertion Loss Table

*Route 29 Widening Project*

*Barrier Analysis by CNE*

1	2	3	4	5	6	7
CNE Descriptor	Barrier	Site Descriptor	Site Representation	Build (2046) Noise Level	Abated (2046) Noise Level	Net Insertion Loss
		C-016	One Residence	60	56	4
		C-017	One Residence	61	57	4
		C-018	One Residence	61	58	3
		C-019	One Residence	61	59	2
D	Barrier D	D-001	One Residence	68	61	8
		D-002	One Residence	68	59	10
		D-003	One Residence	69	60	9
		D-004	One Residence	69	60	9
		D-005	One Residence	67	57	10
		D-006	One Residence	69	61	8
		D-007	One Residence	69	62	7
		D-008	One Residence	68	62	6
		D-009	One Residence	66	61	5
		D-010	One Residence	63	58	5
		D-011	One Residence	61	59	3
		D-012	One Residence	64	57	7
		D-013	One Residence	65	65	0
		D-014	One Residence	62	62	0
		D-015	One Residence	61	61	0
		D-016	One Residence	61	60	1
		D-017	One Residence	61	60	1
		D-018	One Residence	57	57	1
		D-019	One Residence	58	57	1
		D-020	One Residence	58	56	1
		D-021	One Residence	55	53	2
		D-022	One Residence	55	53	1
		D-023	One Residence	51	46	5
		D-024	One Residence	53	50	3
		D-025	One Residence	54	50	4
		D-026	One Residence	53	48	5
		D-027	One Residence	49	48	2
		D-028	One Residence	47	46	0
		D-029	One Residence	47	47	0
		D-030	One Residence	52	52	0
		D-031	One Residence	57	56	1
		D-032	One Residence	60	60	0
		D-033	One Residence	60	59	0
		D-034	One Residence	60	60	0
		D-035	One Residence	62	62	0
		D-036	One Residence	58	58	0
		D-037	One Residence	56	55	0
		D-038	One Residence	54	54	0
		D-039	One Residence	54	53	0
		D-040	One Residence	55	55	0
		D-041	One Residence	56	56	0
		D-042	One Residence	64	64	0
		D-043	One Residence	65	65	0
		D-044	One Residence	66	66	0
		D-045	One Residence	67	67	0

### Insertion Loss Table

*Route 29 Widening Project*

*Barrier Analysis by CNE*

1	2	3	4	5	6	7
CNE Descriptor	Barrier	Site Descriptor	Site Representation	Build (2046) Noise Level	Abated (2046) Noise Level	Net Insertion Loss
		D-046	One Residence	69	69	0
		D-047	One Residence	65	65	0
		D-048	One Residence	60	60	0
		D-049	One Residence	65	65	0
		D-050	One Residence	55	54	1
		D-051	One Residence	58	58	0
		D-052	One Residence	52	51	0
		D-053	One Residence	51	50	1
		D-054	One Residence	48	48	1
		D-055	One Residence	49	49	0
		D-056	One Residence	50	50	1
		D-057	One Residence	51	50	1
		D-058	One Residence	49	48	1
		D-059	One Residence	46	43	2
		D-060	One Residence	46	43	3
		D-061	One Residence	46	46	0
		D-062	One Residence	43	43	0
		D-063	One Residence	49	49	0
D-064	One Residence	46	45	1		
D-065	One Residence	44	43	1		
D-066	One Residence	44	44	1		
F	Barrier F *	F-006	One Residence	57	55	2
		F-007	One Residence	61	58	3
		F-008	One Residence	66	60	6
		F-009	One Residence	66	60	7
		F-010	One Residence	66	59	7
		F-020	One Playground	49	49	0
		F-021	One Residence	46	46	0
		F-022	One Residence	46	46	0
		F-023	One Residence	56	56	0
		F-024	One Residence	52	52	0
		F-025	One Residence	47	47	0
		F-026	One Residence	51	51	0
		F-027	One Residence	50	50	0
		F-028	One Residence	50	48	2
		F-029	One Residence	40	39	1
		F-030	One Residence	41	40	1
		F-031	One Residence	41	40	1
		F-032	One Residence	56	55	2
		F-033	One Residence	52	50	2
		F-034	One Residence	49	46	3
		F-035	One Residence	44	42	2
		F-036	One Residence	48	47	1
		F-037	One Residence	57	53	4
		F-038	One Residence	56	52	4
		F-039	One Residence	54	51	3
		F-040	One Residence	50	47	3
F-041	One Residence	48	45	3		
F-042	One Residence	47	44	3		

### Insertion Loss Table

*Route 29 Widening Project*

*Barrier Analysis by CNE*

1	2	3	4	5	6	7
CNE Descriptor	Barrier	Site Descriptor	Site Representation	Build (2046) Noise Level	Abated (2046) Noise Level	Net Insertion Loss
		F-043	One Residence	63	58	5
		F-044	One Residence	63	60	4
		F-045	One Residence	62	62	0
		F-046	One Residence	63	63	0
		F-047	One Residence	61	61	0
		F-048	One Residence	56	51	5
		F-049	One Residence	55	55	0
		F-050	One Residence	55	50	6
		F-051	One Residence	54	52	2
		F-052	One Residence	56	55	2
		F-056	One Residence	56	57	-1
		F-057	One Residence	53	59	-6
		F-058	One Residence	52	61	-9
		F-059	One Residence	48	50	-2
		F-060	One Residence	48	48	0
G		G-003	One Residence	59	59	0
		G-004	One Residence	57	57	0
		G-005	One Residence	51	51	0
		G-006	One Residence	51	51	0
		G-007	One Residence	51	51	0
		G-008	One Residence	44	44	0
		G-009	One Residence	41	40	1
		G-010	One Residence	44	41	4
		G-011	One Residence	39	39	1
		G-012	One Residence	38	38	1
		G-013	One Residence	39	38	1
		G-014	One Residence	36	35	1
		G-015	One Residence	47	41	6
		G-016	One Residence	48	45	3
		G-017	One Residence	49	43	6
		G-018	One Residence	45	44	1
		G-019	One Residence	55	49	6
		G-020	One Residence	58	49	9
		G-021	One Residence	59	50	9
		G-022	One Residence	57	52	6
		G-023	One Residence	56	50	5
		G-024	One Residence	50	45	5
		G-025	One Residence	54	46	8
		G-026	One Residence	61	55	6
		G-027	One Residence	66	59	7
		G-028	One Residence	67	55	12
		G-029	One Residence	68	56	11
		G-030	One Residence	61	50	10
		G-031	One Residence	66	57	9
		G-032	One Residence	61	55	6
		G-033	One Residence	56	52	4
		G-034	Church*	65 (40)	60	3
		G-035	One Residence	54	50	3
		G-036	One Residence	52	50	3

### Insertion Loss Table

*Route 29 Widening Project*

*Barrier Analysis by CNE*

1	2	3	4	5	6	7
CNE Descriptor	Barrier	Site Descriptor	Site Representation	Build (2046) Noise Level	Abated (2046) Noise Level	Net Insertion Loss
		G-037	One Residence	40	39	1
		G-038	One Residence	37	37	1
		G-039	One Residence	37	36	1
		G-040	One Residence	37	37	0
		G-041	One Residence	39	38	0
		G-042	One Residence	41	41	0
		G-043	One Residence	43	43	0
		G-044	One Residence	47	46	1
		G-045	One Residence	43	42	0
		G-046	One Residence	45	44	1
		G-047	One Residence	47	46	1
G-048	One Residence	47	46	1		
H	Barrier H1	H-028	One Residence	52	51	1
		H-029	One Residence	53	51	2
		H-030	One Residence	53	51	2
		H-031	One Residence	53	51	2
		H-032	One Residence	55	53	3
		H-033	One Residence	63	55	9
		H-034	One Residence	67	60	7
	Barrier H2	H-035	One Residence	50	49	2
		H-036	One Residence	53	53	0
		H-037	One Residence	60	59	1
		H-038	One Residence	63	63	1
		H-039	One Residence	62	61	1
		H-040	One Residence	61	59	2
		H-041	One Residence	63	60	3
		H-042	One Residence	68	63	5
		H-043	One Residence	68	63	5
		H-044	One Residence	67	60	7
		H-045	One Residence	65	59	5
H-046	One Residence	54	51	3		
H-047	One Residence	51	49	2		
H-048	One Residence	60	58	1		
	Noise Levels approach or exceed FHWA/VDOT Noise Abatement Criteria					
	Insertion Losses are considered "feasible".					
	Insertion Losses are 7 dB(A) or greater					
* Barrier/ Berm System						

**APPENDIX C**  
**WARRANTED, FEASIBLE, & REASONABLE WORKSHEETS**



**VDOT Highway Traffic Noise Abatement  
Warranted, Feasible, and Reasonable Worksheet**

Note: Not all questions apply depending on the design phase which may cause differing answers between preliminary and final design phase. Answers to the questions may change depending on the design phase of the

Date:	21-Jan-20
Project No. and UPC:	UPC 110329; Task Order ID: 46803-01
County:	Fairfax County, Virginia
District:	
Barrier System ID:	Barrier A
Community Name and/or CNE#	CNE A
Noise Abatement Category(s)	B, C
Design phase:	Final design

**Warranted**

- |    |   |     |
|----|---|-----|
| 1  | Community Documentation (if applicable)   |     |
| a. | Date community was permitted. (Per 23CFR 772 this is the date the building permit was   | NA  |
| b. | Date of approval for the Categorical Exclusion (CE), Record of Decision (ROD), or Finding   | NA  |
| c. | Does the date in 1.a precede the date in 1.b? If yes, proceed to Warranted Item 2. If no, consideration of noise abatement is not warranted. Proceed to "Decision" block and answer | NA  |
| 2  | Criteria requiring consideration of noise abatement   |     |
| a. | Project causes design year noise levels to approach or exceed the Noise Abatement Criteria?   | Yes |
| b. | Project causes a substantial noise increase of 10 dB(A) or more?  | Yes |

**Feasibility**

- |    |  |     |
|----|--|-----|
| 1  | Impacted receptor units  |     |
| a. | Number of impacted receptor units:   | 4   |
| b. | Number of impacted receptor units receiving 5 dB(A) or more insertion loss (IL):               | 1   |
| c. | Percentage of impacted receptor units receiving 5 dB(A) or more IL                             | 25% |
| d. | Is the percentage 50 or greater?   | No  |
| 2  | Will placement of the noise barrier cause engineering or safety conflicts, e.g drainage issues | No  |
| 3  | Will placement of the noise barrier restrict access to vehicular or pedestrian travel?         | No  |
| 4  | Will placement of the noise barrier conflict with existing utility locations?                  | No  |

**Reasonableness**

**1 Surface Area (Square foot)-Benefit Factors**

a. Surface Area (Total square foot) of the proposed noise barrier. (ft <sup>2</sup> )	2,716 SF
b. Impacted noise sensitive receptor(s) receiving 5 dB(A) IL or more.	1
c. Non-impacted noise sensitive receptor(s) receiving 5 dB(A) IL or more.	0
d. Total number of benefited receptors.	1
e. Surface Area per benefited receptor unit. (ft <sup>2</sup> /BR)	2,716 SF/BR
f. Is (1e) less than or equal to the maximum square feet per benefited receptor (MaxSF/BR)	No
g. Does the barrier provide an IL of at least 7 dB(A) for at least one impacted receptor in the	No

**2 Additional Noise Barrier Details**

a. Length of the proposed noise barrier. (ft)	247 ft
b. Height range of the proposed noise barrier. (ft)	11.0 ft
c. Average height of the proposed noise barrier. (ft)	11.00 ft
d. Cost per square foot. (\$/ft <sup>2</sup> )	\$42/SF
e. Total Barrier Cost (\$)	\$114,072
f. Barrier Material	Absorptive

**3 Community Desires Related to the Barrier**

Do at least 50 percent of the benefited receptor unit owner(s) and renters desire the noise barrier? If yes, continue to "decision" block. If no, the barrier can be considered not to be reasonable. Proceed to "decision" block and answer "no" to reasonableness question. As the reason for this decision, state that "The majority of the impacted receptor unit owners do not desire the barrier."

**Decision**

Is the Noise Barrier(s) WARRANTED?	Yes
Is the Noise Barrier(s) FEASIBLE?	Yes
Is the Noise Barrier(s) REASONABLE?	No

Additional Reasons for Decision:

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**VDOT Highway Traffic Noise Abatement  
Warranted, Feasible, and Reasonable Worksheet**

Note: Not all questions apply depending on the design phase which may cause differing answers between preliminary and final design phase. Answers to the questions may change depending on the design phase of the

Date:	21-Jan-20
Project No. and UPC:	UPC 110329; Task Order ID: 46803-01
County:	Fairfax County, Virginia
District:	
Barrier System ID:	Barrier B
Community Name and/or CNE#	CNE B
Noise Abatement Category(s)	B
Design phase:	Final design

**Warranted**

- |    |   |     |
|----|---|-----|
| 1  | Community Documentation (if applicable)   |     |
| a. | Date community was permitted. (Per 23CFR 772 this is the date the building permit was   | NA  |
| b. | Date of approval for the Categorical Exclusion (CE), Record of Decision (ROD), or Finding   | NA  |
| c. | Does the date in 1.a precede the date in 1.b? If yes, proceed to Warranted Item 2. If no, consideration of noise abatement is not warranted. Proceed to "Decision" block and answer | NA  |
| 2  | Criteria requiring consideration of noise abatement   |     |
| a. | Project causes design year noise levels to approach or exceed the Noise Abatement Criteria?   | Yes |
| b. | Project causes a substantial noise increase of 10 dB(A) or more?  | Yes |

**Feasibility**

- |    |  |     |
|----|--|-----|
| 1  | Impacted receptor units  |     |
| a. | Number of impacted receptor units:   | 3   |
| b. | Number of impacted receptor units receiving 5 dB(A) or more insertion loss (IL):               | 2   |
| c. | Percentage of impacted receptor units receiving 5 dB(A) or more IL                             | 67% |
| d. | Is the percentage 50 or greater?   | Yes |
| 2  | Will placement of the noise barrier cause engineering or safety conflicts, e.g drainage issues | No  |
| 3  | Will placement of the noise barrier restrict access to vehicular or pedestrian travel?         | No  |
| 4  | Will placement of the noise barrier conflict with existing utility locations?                  | No  |

**Reasonableness**

**1 Surface Area (Square foot)-Benefit Factors**

a. Surface Area (Total square foot) of the proposed noise barrier. (ft <sup>2</sup> )	8,015 SF
b. Impacted noise sensitive receptor(s) receiving 5 dB(A) IL or more.	2
c. Non-impacted noise sensitive receptor(s) receiving 5 dB(A) IL or more.	7
d. Total number of benefited receptors.	9
e. Surface Area per benefited receptor unit. (ft <sup>2</sup> /BR)	891 SF/BR
f. Is (1e) less than or equal to the maximum square feet per benefited receptor (MaxSF/BR)	Yes
g. Does the barrier provide an IL of at least 7 dB(A) for at least one impacted receptor in the	Yes

**2 Additional Noise Barrier Details**

a. Length of the proposed noise barrier. (ft)	544 ft
b. Height range of the proposed noise barrier. (ft)	11-17 ft
c. Average height of the proposed noise barrier. (ft)	14.74 ft
d. Cost per square foot. (\$/ft <sup>2</sup> )	\$42/SF
e. Total Barrier Cost (\$)	\$336,630
f. Barrier Material	Absorptive

**3 Community Desires Related to the Barrier**

Do at least 50 percent of the benefited receptor unit owner(s) and renters desire the noise barrier? If yes, continue to "decision" block. If no, the barrier can be considered not to be reasonable. Proceed to "decision" block and answer "no" to reasonableness question. As the reason for this decision, state that "The majority of the impacted receptor unit owners do not desire the barrier."

**Decision**

Is the Noise Barrier(s) WARRANTED?	Yes
Is the Noise Barrier(s) FEASIBLE?	Yes
Is the Noise Barrier(s) REASONABLE?	Yes

Additional Reasons for Decision:

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**VDOT Highway Traffic Noise Abatement  
Warranted, Feasible, and Reasonable Worksheet**

Note: Not all questions apply depending on the design phase which may cause differing answers between preliminary and final design phase. Answers to the questions may change depending on the design phase of the

Date:	21-Jan-20
Project No. and UPC:	UPC 110329; Task Order ID: 46803-01
County:	Fairfax County, Virginia
District:	
Barrier System ID:	Barrier C
Community Name and/or CNE#	CNE C
Noise Abatement Category(s)	B, C
Design phase:	Final design

**Warranted**

- |    |   |     |
|----|---|-----|
| 1  | Community Documentation (if applicable)   |     |
| a. | Date community was permitted. (Per 23CFR 772 this is the date the building permit was   | NA  |
| b. | Date of approval for the Categorical Exclusion (CE), Record of Decision (ROD), or Finding   | NA  |
| c. | Does the date in 1.a precede the date in 1.b? If yes, proceed to Warranted Item 2. If no, consideration of noise abatement is not warranted. Proceed to "Decision" block and answer | NA  |
| 2  | Criteria requiring consideration of noise abatement   |     |
| a. | Project causes design year noise levels to approach or exceed the Noise Abatement Criteria?   | Yes |
| b. | Project causes a substantial noise increase of 10 dB(A) or more?  | Yes |

**Feasibility**

- |    |  |      |
|----|--|------|
| 1  | Impacted receptor units  |      |
| a. | Number of impacted receptor units:   | 4    |
| b. | Number of impacted receptor units receiving 5 dB(A) or more insertion loss (IL):               | 4    |
| c. | Percentage of impacted receptor units receiving 5 dB(A) or more IL                             | 100% |
| d. | Is the percentage 50 or greater?   | Yes  |
| 2  | Will placement of the noise barrier cause engineering or safety conflicts, e.g drainage issues | No   |
| 3  | Will placement of the noise barrier restrict access to vehicular or pedestrian travel?         | No   |
| 4  | Will placement of the noise barrier conflict with existing utility locations?                  | No   |

**Reasonableness**

**1 Surface Area (Square foot)-Benefit Factors**

a. Surface Area (Total square foot) of the proposed noise barrier. (ft <sup>2</sup> )	13,339 SF
b. Impacted noise sensitive receptor(s) receiving 5 dB(A) IL or more.	4
c. Non-impacted noise sensitive receptor(s) receiving 5 dB(A) IL or more.	11
d. Total number of benefited receptors.	15
e. Surface Area per benefited receptor unit. (ft <sup>2</sup> /BR)	889 SF/BR
f. Is (1e) less than or equal to the maximum square feet per benefited receptor (MaxSF/BR)	Yes
g. Does the barrier provide an IL of at least 7 dB(A) for at least one impacted receptor in the	Yes

**2 Additional Noise Barrier Details**

a. Length of the proposed noise barrier. (ft)	801 ft
b. Height range of the proposed noise barrier. (ft)	16-17 ft
c. Average height of the proposed noise barrier. (ft)	16.65 ft
d. Cost per square foot. (\$/ft <sup>2</sup> )	\$42/SF
e. Total Barrier Cost (\$)	\$560,238
f. Barrier Material	Absorptive

**3 Community Desires Related to the Barrier**

Do at least 50 percent of the benefited receptor unit owner(s) and renters desire the noise barrier? If yes, continue to "decision" block. If no, the barrier can be considered not to be reasonable. Proceed to "decision" block and answer "no" to reasonableness question. As the reason for this decision, state that "The majority of the impacted receptor unit owners do not desire the barrier."

**Decision**

Is the Noise Barrier(s) WARRANTED?	Yes
Is the Noise Barrier(s) FEASIBLE?	Yes
Is the Noise Barrier(s) REASONABLE?	Yes

Additional Reasons for Decision:

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**VDOT Highway Traffic Noise Abatement  
Warranted, Feasible, and Reasonable Worksheet**

Note: Not all questions apply depending on the design phase which may cause differing answers between preliminary and final design phase. Answers to the questions may change depending on the design phase of the

Date:	21-Jan-20
Project No. and UPC:	UPC 110329; Task Order ID: 46803-01
County:	Fairfax County, Virginia
District:	
Barrier System ID:	Barrier D
Community Name and/or CNE#	CNE D
Noise Abatement Category(s)	B
Design phase:	Final design

**Warranted**

- |    |   |     |
|----|---|-----|
| 1  | Community Documentation (if applicable)   |     |
| a. | Date community was permitted. (Per 23CFR 772 this is the date the building permit was   | NA  |
| b. | Date of approval for the Categorical Exclusion (CE), Record of Decision (ROD), or Finding   | NA  |
| c. | Does the date in 1.a precede the date in 1.b? If yes, proceed to Warranted Item 2. If no, consideration of noise abatement is not warranted. Proceed to "Decision" block and answer | NA  |
| 2  | Criteria requiring consideration of noise abatement   |     |
| a. | Project causes design year noise levels to approach or exceed the Noise Abatement Criteria?   | Yes |
| b. | Project causes a substantial noise increase of 10 dB(A) or more?  | Yes |

**Feasibility**

- |    |  |     |
|----|--|-----|
| 1  | Impacted receptor units  |     |
| a. | Number of impacted receptor units:   | 12  |
| b. | Number of impacted receptor units receiving 5 dB(A) or more insertion loss (IL):               | 9   |
| c. | Percentage of impacted receptor units receiving 5 dB(A) or more IL                             | 75% |
| d. | Is the percentage 50 or greater?   | Yes |
| 2  | Will placement of the noise barrier cause engineering or safety conflicts, e.g drainage issues | No  |
| 3  | Will placement of the noise barrier restrict access to vehicular or pedestrian travel?         | No  |
| 4  | Will placement of the noise barrier conflict with existing utility locations?                  | No  |

**Reasonableness**

**1 Surface Area (Square foot)-Benefit Factors**

a. Surface Area (Total square foot) of the proposed noise barrier. (ft <sup>2</sup> )	17,595 SF
b. Impacted noise sensitive receptor(s) receiving 5 dB(A) IL or more.	9
c. Non-impacted noise sensitive receptor(s) receiving 5 dB(A) IL or more.	4
d. Total number of benefited receptors.	13
e. Surface Area per benefited receptor unit. (ft <sup>2</sup> /BR)	1,353 SF/BR
f. Is (1e) less than or equal to the maximum square feet per benefited receptor (MaxSF/BR)	Yes
g. Does the barrier provide an IL of at least 7 dB(A) for at least one impacted receptor in the	Yes

**2 Additional Noise Barrier Details**

a. Length of the proposed noise barrier. (ft)	1,122 ft
b. Height range of the proposed noise barrier. (ft)	10-17 ft
c. Average height of the proposed noise barrier. (ft)	15.68 ft
d. Cost per square foot. (\$/ft <sup>2</sup> )	\$42/SF
e. Total Barrier Cost (\$)	\$738,990
f. Barrier Material	Absorptive

**3 Community Desires Related to the Barrier**

Do at least 50 percent of the benefited receptor unit owner(s) and renters desire the noise barrier? If yes, continue to "decision" block. If no, the barrier can be considered not to be reasonable. Proceed to "decision" block and answer "no" to reasonableness question. As the reason for this decision, state that "The majority of the impacted receptor unit owners do not desire the barrier."

**Decision**

Is the Noise Barrier(s) WARRANTED?	Yes
Is the Noise Barrier(s) FEASIBLE?	Yes
Is the Noise Barrier(s) REASONABLE?	Yes

Additional Reasons for Decision:

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**VDOT Highway Traffic Noise Abatement  
Warranted, Feasible, and Reasonable Worksheet**

Note: Not all questions apply depending on the design phase which may cause differing answers between preliminary and final design phase. Answers to the questions may change depending on the design phase of the

Date:	21-Jan-20
Project No. and UPC:	UPC 110329; Task Order ID: 46803-01
County:	Fairfax County, Virginia
District:	
Barrier System ID:	Barrier F Barrier/Berm System
Community Name and/or CNE#	CNE F
Noise Abatement Category(s)	B
Design phase:	Final design

**Warranted**

- |    |   |     |
|----|---|-----|
| 1  | Community Documentation (if applicable)   |     |
| a. | Date community was permitted. (Per 23CFR 772 this is the date the building permit was   | NA  |
| b. | Date of approval for the Categorical Exclusion (CE), Record of Decision (ROD), or Finding   | NA  |
| c. | Does the date in 1.a precede the date in 1.b? If yes, proceed to Warranted Item 2. If no, consideration of noise abatement is not warranted. Proceed to "Decision" block and answer | NA  |
| 2  | Criteria requiring consideration of noise abatement   |     |
| a. | Project causes design year noise levels to approach or exceed the Noise Abatement Criteria?   | Yes |
| b. | Project causes a substantial noise increase of 10 dB(A) or more?  | Yes |

**Feasibility**

- |    |  |      |
|----|--|------|
| 1  | Impacted receptor units  |      |
| a. | Number of impacted receptor units:   | 3    |
| b. | Number of impacted receptor units receiving 5 dB(A) or more insertion loss (IL):               | 3    |
| c. | Percentage of impacted receptor units receiving 5 dB(A) or more IL                             | 100% |
| d. | Is the percentage 50 or greater?   | Yes  |
| 2  | Will placement of the noise barrier cause engineering or safety conflicts, e.g drainage issues | No   |
| 3  | Will placement of the noise barrier restrict access to vehicular or pedestrian travel?         | No   |
| 4  | Will placement of the noise barrier conflict with existing utility locations?                  | No   |

**Reasonableness**

**1 Surface Area (Square foot)-Benefit Factors**

a. Surface Area (Total square foot) of the proposed noise barrier. (ft <sup>2</sup> )	16,371 SF
b. Impacted noise sensitive receptor(s) receiving 5 dB(A) IL or more.	3
c. Non-impacted noise sensitive receptor(s) receiving 5 dB(A) IL or more.	3
d. Total number of benefited receptors.	6
e. Surface Area per benefited receptor unit. (ft <sup>2</sup> /BR)	2,729 SF/BR
f. Is (1e) less than or equal to the maximum square feet per benefited receptor (MaxSF/BR)	No
g. Does the barrier provide an IL of at least 7 dB(A) for at least one impacted receptor in the	Yes

**2 Additional Noise Barrier Details**

a. Length of the proposed noise barrier. (ft)	786 ft
b. Height range of the proposed noise barrier. (ft)	16-24 ft
c. Average height of the proposed noise barrier. (ft)	20.82 ft
d. Cost per square foot. (\$/ft <sup>2</sup> )	\$42/SF
e. Total Barrier Cost (\$)	\$687,582
f. Barrier Material	Absorptive

**3 Community Desires Related to the Barrier**

Do at least 50 percent of the benefited receptor unit owner(s) and renters desire the noise barrier? If yes, continue to "decision" block. If no, the barrier can be considered not to be reasonable. Proceed to "decision" block and answer "no" to reasonableness question. As the reason for this decision, state that "The majority of the impacted receptor unit owners do not desire the barrier."

**Decision**

Is the Noise Barrier(s) WARRANTED?	Yes
Is the Noise Barrier(s) FEASIBLE?	Yes
Is the Noise Barrier(s) REASONABLE?	No

Additional Reasons for Decision:

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**VDOT Highway Traffic Noise Abatement  
Warranted, Feasible, and Reasonable Worksheet**

Note: Not all questions apply depending on the design phase which may cause differing answers between preliminary and final design phase. Answers to the questions may change depending on the design phase of the

Date:	21-Jan-20
Project No. and UPC:	UPC 110329; Task Order ID: 46803-01
County:	Fairfax County, Virginia
District:	
Barrier System ID:	Barrier G
Community Name and/or CNE#	CNE G
Noise Abatement Category(s)	B, C, D, E
Design phase:	Final design

**Warranted**

- |    |   |     |
|----|---|-----|
| 1  | Community Documentation (if applicable)   |     |
| a. | Date community was permitted. (Per 23CFR 772 this is the date the building permit was   | NA  |
| b. | Date of approval for the Categorical Exclusion (CE), Record of Decision (ROD), or Finding   | NA  |
| c. | Does the date in 1.a precede the date in 1.b? If yes, proceed to Warranted Item 2. If no, consideration of noise abatement is not warranted. Proceed to "Decision" block and answer | NA  |
| 2  | Criteria requiring consideration of noise abatement   |     |
| a. | Project causes design year noise levels to approach or exceed the Noise Abatement Criteria?   | Yes |
| b. | Project causes a substantial noise increase of 10 dB(A) or more?  | Yes |

**Feasibility**

- |    |  |      |
|----|--|------|
| 1  | Impacted receptor units  |      |
| a. | Number of impacted receptor units:   | 4    |
| b. | Number of impacted receptor units receiving 5 dB(A) or more insertion loss (IL):               | 4    |
| c. | Percentage of impacted receptor units receiving 5 dB(A) or more IL                             | 100% |
| d. | Is the percentage 50 or greater?   | Yes  |
| 2  | Will placement of the noise barrier cause engineering or safety conflicts, e.g drainage issues | NA   |
| 3  | Will placement of the noise barrier restrict access to vehicular or pedestrian travel?         | NA   |
| 4  | Will placement of the noise barrier conflict with existing utility locations?                  | NA   |

**Reasonableness**

**1 Surface Area (Square foot)-Benefit Factors**

a. Surface Area (Total square foot) of the proposed noise barrier. (ft <sup>2</sup> )	19,236 SF
b. Impacted noise sensitive receptor(s) receiving 5 dB(A) IL or more.	4
c. Non-impacted noise sensitive receptor(s) receiving 5 dB(A) IL or more.	12
d. Total number of benefited receptors.	16
e. Surface Area per benefited receptor unit. (ft <sup>2</sup> /BR)	1,202 SF/BR
f. Is (1e) less than or equal to the maximum square feet per benefited receptor (MaxSF/BR)	Yes
g. Does the barrier provide an IL of at least 7 dB(A) for at least one impacted receptor in the	Yes

**2 Additional Noise Barrier Details**

a. Length of the proposed noise barrier. (ft)	964 ft
b. Height range of the proposed noise barrier. (ft)	19-21 ft
c. Average height of the proposed noise barrier. (ft)	19.95 ft
d. Cost per square foot. (\$/ft <sup>2</sup> )	\$42/SF
e. Total Barrier Cost (\$)	\$807,912
f. Barrier Material	Absorptive

**3 Community Desires Related to the Barrier**

Do at least 50 percent of the benefited receptor unit owner(s) and renters desire the noise barrier? If yes, continue to "decision" block. If no, the barrier can be considered not to be reasonable. Proceed to "decision" block and answer "no" to reasonableness question. As the reason for this decision, state that "The majority of the impacted receptor unit owners do not desire the barrier."

**Decision**

Is the Noise Barrier(s) WARRANTED?	Yes
Is the Noise Barrier(s) FEASIBLE?	Yes
Is the Noise Barrier(s) REASONABLE?	Yes

Additional Reasons for Decision:

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**VDOT Highway Traffic Noise Abatement  
Warranted, Feasible, and Reasonable Worksheet**

Note: Not all questions apply depending on the design phase which may cause differing answers between preliminary and final design phase. Answers to the questions may change depending on the design phase of the

Date:	21-Jan-20
Project No. and UPC:	UPC 110329; Task Order ID: 46803-01
County:	Fairfax County, Virginia
District:	
Barrier System ID:	Barrier H1
Community Name and/or CNE#	CNE H
Noise Abatement Category(s)	B
Design phase:	Final design

**Warranted**

- |    |   |     |
|----|---|-----|
| 1  | Community Documentation (if applicable)   |     |
| a. | Date community was permitted. (Per 23CFR 772 this is the date the building permit was   | NA  |
| b. | Date of approval for the Categorical Exclusion (CE), Record of Decision (ROD), or Finding   | NA  |
| c. | Does the date in 1.a precede the date in 1.b? If yes, proceed to Warranted Item 2. If no, consideration of noise abatement is not warranted. Proceed to "Decision" block and answer | NA  |
| 2  | Criteria requiring consideration of noise abatement   |     |
| a. | Project causes design year noise levels to approach or exceed the Noise Abatement Criteria?   | Yes |
| b. | Project causes a substantial noise increase of 10 dB(A) or more?  | Yes |

**Feasibility**

- |    |  |      |
|----|--|------|
| 1  | Impacted receptor units  |      |
| a. | Number of impacted receptor units:   | 1    |
| b. | Number of impacted receptor units receiving 5 dB(A) or more insertion loss (IL):               | 1    |
| c. | Percentage of impacted receptor units receiving 5 dB(A) or more IL                             | 100% |
| d. | Is the percentage 50 or greater?   | Yes  |
| 2  | Will placement of the noise barrier cause engineering or safety conflicts, e.g drainage issues | No   |
| 3  | Will placement of the noise barrier restrict access to vehicular or pedestrian travel?         | No   |
| 4  | Will placement of the noise barrier conflict with existing utility locations?                  | No   |

**Reasonableness**

**1 Surface Area (Square foot)-Benefit Factors**

a. Surface Area (Total square foot) of the proposed noise barrier. (ft <sup>2</sup> )	8,143 SF
b. Impacted noise sensitive receptor(s) receiving 5 dB(A) IL or more.	1
c. Non-impacted noise sensitive receptor(s) receiving 5 dB(A) IL or more.	1
d. Total number of benefited receptors.	2
e. Surface Area per benefited receptor unit. (ft <sup>2</sup> /BR)	4,072 SF/BR
f. Is (1e) less than or equal to the maximum square feet per benefited receptor (MaxSF/BR)	No
g. Does the barrier provide an IL of at least 7 dB(A) for at least one impacted receptor in the	Yes

**2 Additional Noise Barrier Details**

a. Length of the proposed noise barrier. (ft)	500 ft
b. Height range of the proposed noise barrier. (ft)	14-18 ft
c. Average height of the proposed noise barrier. (ft)	16.30 ft
d. Cost per square foot. (\$/ft <sup>2</sup> )	\$42/SF
e. Total Barrier Cost (\$)	\$342,006
f. Barrier Material	Absorptive

**3 Community Desires Related to the Barrier**

Do at least 50 percent of the benefited receptor unit owner(s) and renters desire the noise barrier? If yes, continue to "decision" block. If no, the barrier can be considered not to be reasonable. Proceed to "decision" block and answer "no" to reasonableness question. As the reason for this decision, state that "The majority of the impacted receptor unit owners do not desire the barrier."

**Decision**

Is the Noise Barrier(s) WARRANTED?	Yes
Is the Noise Barrier(s) FEASIBLE?	Yes
Is the Noise Barrier(s) REASONABLE?	No

Additional Reasons for Decision:

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**VDOT Highway Traffic Noise Abatement  
Warranted, Feasible, and Reasonable Worksheet**

Note: Not all questions apply depending on the design phase which may cause differing answers between preliminary and final design phase. Answers to the questions may change depending on the design phase of the

Date:	21-Jan-20
Project No. and UPC:	UPC 110329; Task Order ID: 46803-01
County:	Fairfax County, Virginia
District:	
Barrier System ID:	Barrier H2
Community Name and/or CNE#	CNE H
Noise Abatement Category(s)	B
Design phase:	Final design

**Warranted**

- |    |   |     |
|----|---|-----|
| 1  | Community Documentation (if applicable)   |     |
| a. | Date community was permitted. (Per 23CFR 772 this is the date the building permit was   | NA  |
| b. | Date of approval for the Categorical Exclusion (CE), Record of Decision (ROD), or Finding   | NA  |
| c. | Does the date in 1.a precede the date in 1.b? If yes, proceed to Warranted Item 2. If no, consideration of noise abatement is not warranted. Proceed to "Decision" block and answer | NA  |
| 2  | Criteria requiring consideration of noise abatement   |     |
| a. | Project causes design year noise levels to approach or exceed the Noise Abatement Criteria?   | Yes |
| b. | Project causes a substantial noise increase of 10 dB(A) or more?  | Yes |

**Feasibility**

- |    |  |      |
|----|--|------|
| 1  | Impacted receptor units  |      |
| a. | Number of impacted receptor units:   | 3    |
| b. | Number of impacted receptor units receiving 5 dB(A) or more insertion loss (IL):               | 3    |
| c. | Percentage of impacted receptor units receiving 5 dB(A) or more IL                             | 100% |
| d. | Is the percentage 50 or greater?   | Yes  |
| 2  | Will placement of the noise barrier cause engineering or safety conflicts, e.g drainage issues | No   |
| 3  | Will placement of the noise barrier restrict access to vehicular or pedestrian travel?         | No   |
| 4  | Will placement of the noise barrier conflict with existing utility locations?                  | No   |

**Reasonableness**

**1 Surface Area (Square foot)-Benefit Factors**

a. Surface Area (Total square foot) of the proposed noise barrier. (ft <sup>2</sup> )	8,022 SF
b. Impacted noise sensitive receptor(s) receiving 5 dB(A) IL or more.	3
c. Non-impacted noise sensitive receptor(s) receiving 5 dB(A) IL or more.	1
d. Total number of benefited receptors.	4
e. Surface Area per benefited receptor unit. (ft <sup>2</sup> /BR)	2,006 SF/BR
f. Is (1e) less than or equal to the maximum square feet per benefited receptor (MaxSF/BR)	No
g. Does the barrier provide an IL of at least 7 dB(A) for at least one impacted receptor in the	Yes

**2 Additional Noise Barrier Details**

a. Length of the proposed noise barrier. (ft)	850 ft
b. Height range of the proposed noise barrier. (ft)	10-11 ft
c. Average height of the proposed noise barrier. (ft)	10.70 ft
d. Cost per square foot. (\$/ft <sup>2</sup> )	\$42/SF
e. Total Barrier Cost (\$)	\$336,924
f. Barrier Material	Absorptive

**3 Community Desires Related to the Barrier**

Do at least 50 percent of the benefited receptor unit owner(s) and renters desire the noise barrier? If yes, continue to "decision" block. If no, the barrier can be considered not to be reasonable. Proceed to "decision" block and answer "no" to reasonableness question. As the reason for this decision, state that "The majority of the impacted receptor unit owners do not desire the barrier."

**Decision**

Is the Noise Barrier(s) WARRANTED?	Yes
Is the Noise Barrier(s) FEASIBLE?	Yes
Is the Noise Barrier(s) REASONABLE?	No

Additional Reasons for Decision:

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**APPENDIX D**  
NOISE MONITORING DATA (2018)

PASTE  
HERE  
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Address	Start Time	Measurement Time		Leq	LE	LMAX	LMIN	Ly	LN1	LN2	LN3	LN4	LN5	Over	Under	Inverse Log	Overall Leg
M01																	55.0
47	10/10/2018	11:45:08	00d 00:10.0	54.3	64.3	55.8	53.8	--	54.8	54.8	54.3	53.7	53.7	----	----	269153.5	
48	10/10/2018	11:45:18	00d 00:10.0	60.9	70.9	62.8	54.2	--	63.2	63.2	60.9	58.5	55.9	----	----	1230268.8	
49	10/10/2018	11:45:28	00d 00:10.0	59.4	69.4	63.1	55.5	--	63.4	63.4	57.5	55.7	55.3	----	----	870963.6	
50	10/10/2018	11:45:38	00d 00:10.0	55.2	65.2	57	52.9	--	57.3	57.3	55.2	53	52	----	----	331131.1	
51	10/10/2018	11:45:48	00d 00:10.0	56.9	66.9	57.5	56	--	57.7	57.7	57	56.4	55.7	----	----	489778.8	
52	10/10/2018	11:45:58	00d 00:10.0	55	65	56	54	--	55.6	55.6	55.1	54	53.8	----	----	316227.8	
53	10/10/2018	11:46:08	00d 00:10.0	52.5	62.5	55.3	50.7	--	55.4	55.4	52.5	50.7	50.6	----	----	177827.9	
54	10/10/2018	11:46:18	00d 00:10.0	51.1	61.1	53.7	50	--	53.4	53.4	51.2	49.8	49.6	----	----	128825.0	
55	10/10/2018	11:46:28	00d 00:10.0	48.3	58.3	51.4	45.6	--	51.6	51.6	47.2	45.7	45.6	----	----	67608.3	
56	10/10/2018	11:46:38	00d 00:10.0	46	56	47.2	44.9	--	47.4	47.4	45.8	45	44.9	----	----	39810.7	
57	10/10/2018	11:46:48	00d 00:10.0	49.4	59.4	51.8	47.1	--	52.1	52.1	49.2	47.4	47.1	----	----	87096.4	
58	10/10/2018	11:46:58	00d 00:10.0	54.3	64.3	55.3	51.7	--	55.7	55.7	53.9	53.5	53.1	----	----	269153.5	
59	10/10/2018	11:47:08	00d 00:10.0	53.1	63.1	54.6	51.7	--	54.7	54.7	52.6	51.9	51.6	----	----	204173.8	
60	10/10/2018	11:47:18	00d 00:10.0	54	64	54.6	53.5	--	54.9	54.9	53.9	53.5	53.3	----	----	251188.6	
61	10/10/2018	11:47:28	00d 00:10.0	57.2	67.2	59	53.2	--	59.1	59.1	57.9	53.5	53	----	----	524807.5	
62	10/10/2018	11:47:38	00d 00:10.0	56.4	66.4	57.7	55.6	--	57.4	57.4	56.5	55.7	55.6	----	----	436515.8	
63	10/10/2018	11:47:48	00d 00:10.0	55.9	65.9	56.2	55.3	--	56.3	56.3	56	55.6	55.2	----	----	389045.1	
64	10/10/2018	11:47:58	00d 00:10.0	53.7	63.7	55.3	51.5	--	54.9	54.9	54.2	51.7	51	----	----	234422.9	
65	10/10/2018	11:48:08	00d 00:10.0	59.7	69.7	64.2	50.8	--	64.3	64.3	56.7	50.2	50.2	----	----	933254.3	
66	10/10/2018	11:48:18	00d 00:10.0	52.5	62.5	53.5	50.5	--	53.7	53.7	53.1	50.8	50.4	----	----	177827.9	
67	10/10/2018	11:48:28	00d 00:10.0	55.2	65.2	56.2	53.1	--	56.3	56.3	55.6	54	52.1	----	----	331131.1	
68	10/10/2018	11:48:38	00d 00:10.0	49.4	59.4	53.1	48.1	--	51.7	51.7	48.9	48.3	47.9	----	----	87096.4	
69	10/10/2018	11:48:48	00d 00:10.0	48.4	58.4	49.2	47.3	--	49.2	49.2	48.3	47.5	47.1	----	----	69183.1	
70	10/10/2018	11:48:58	00d 00:10.0	48.1	58.1	49.4	46.4	--	49.5	49.5	48.2	46.4	46.4	----	----	64565.4	
71	10/10/2018	11:49:08	00d 00:10.0	49.6	59.6	51.5	48	--	52	52	49.5	48.1	47.9	----	----	91201.1	
72	10/10/2018	11:49:18	00d 00:10.0	51.4	61.4	51.6	51.1	--	51.7	51.7	51.5	51.1	51.1	----	----	138038.4	
73	10/10/2018	11:49:28	00d 00:10.0	51.7	61.7	52.7	50.8	--	53	53	51.5	50.8	50.7	----	----	147910.8	
74	10/10/2018	11:49:38	00d 00:10.0	49.9	59.9	50.8	49.2	--	50.6	50.6	49.9	49.2	49.2	----	----	97723.7	
75	10/10/2018	11:49:48	00d 00:10.0	49.2	59.2	50.5	48.3	--	50.3	50.3	49.1	48.7	48	----	----	83176.4	
76	10/10/2018	11:49:58	00d 00:10.0	55.6	65.6	57.8	49.7	--	58.1	58.1	55.7	52.6	51.4	----	----	363078.1	
77	10/10/2018	11:50:08	00d 00:10.0	60.5	70.5	62.3	57	--	62.9	62.9	61.3	56.6	56.2	----	----	1122018.5	
78	10/10/2018	11:50:18	00d 00:10.0	54.8	64.8	57	53.9	--	55.5	55.5	54.8	54	53.6	----	----	301995.2	
79	10/10/2018	11:50:28	00d 00:10.0	53.2	63.2	54.2	52.3	--	54.5	54.5	53.2	52.6	52.2	----	----	208929.6	
80	10/10/2018	11:50:38	00d 00:10.0	52.9	62.9	54.1	52.3	--	53.9	53.9	53	52.5	52.2	----	----	194984.5	
81	10/10/2018	11:50:48	00d 00:10.0	54.4	64.4	56.2	50.7	--	56.4	56.4	54.7	50.9	50.1	----	----	275422.9	
82	10/10/2018	11:50:58	00d 00:10.0	49.4	59.4	50.8	48.3	--	50.8	50.8	49.3	48.4	48.2	----	----	87096.4	
83	10/10/2018	11:51:08	00d 00:10.0	50.5	60.5	51.2	49.4	--	51.3	51.3	50.3	49.9	49.6	----	----	112201.8	
84	10/10/2018	11:51:18	00d 00:10.0	51.8	61.8	52.5	51	--	52.9	52.9	51.6	51.2	51.1	----	----	151356.1	
85	10/10/2018	11:51:28	00d 00:10.0	51.1	61.1	51.8	49.9	--	51.8	51.8	51.3	49.9	49.7	----	----	128825.0	
86	10/10/2018	11:51:38	00d 00:10.0	51.2	61.2	52	50.6	--	52.2	52.2	51.1	50.7	50.5	----	----	131825.7	
87	10/10/2018	11:51:48	00d 00:10.0	52.4	62.4	53.3	51	--	53.5	53.5	52.8	51.4	51.3	----	----	173780.1	
88	10/10/2018	11:51:58	00d 00:10.0	49.6	59.6	51.7	48.1	--	51.1	51.1	49.4	48.3	48.1	----	----	91201.1	
89	10/10/2018	11:52:08	00d 00:10.0	54.7	64.7	57.2	48.6	--	57.8	57.8	55	50.3	49.7	----	----	295120.9	
90	10/10/2018	11:52:18	00d 00:10.0	56.7	66.7	57.3	55.2	--	57.3	57.3	57	55.9	55.4	----	----	467735.1	
91	10/10/2018	11:52:28	00d 00:10.0	56.3	66.3	57.3	55	--	57.3	57.3	56.4	55	54.9	----	----	426579.5	
92	10/10/2018	11:52:38	00d 00:10.0	55.7	65.7	56.3	54.5	--	56.4	56.4	55.9	54.5	54.5	----	----	371535.2	
93	10/10/2018	11:52:48	00d 00:10.0	54.2	64.2	56.2	53.4	--	55.5	55.5	53.9	53.4	53.1	----	----	263026.8	
94	10/10/2018	11:52:58	00d 00:10.0	51.3	61.3	54.5	49.4	--	54	54	50.8	49.8	49.2	----	----	134896.3	
95	10/10/2018	11:53:08	00d 00:10.0	51.9	61.9	53	49.5	--	53	53	51.7	51.3	51	----	----	154881.7	
96	10/10/2018	11:53:18	00d 00:10.0	51.1	61.1	52.7	50.3	--	52.1	52.1	51	50.5	50.1	----	----	128825.0	
97	10/10/2018	11:53:28	00d 00:10.0	49.6	59.6	50.3	49	--	50.1	50.1	49.9	49	49	----	----	91201.1	
98	10/10/2018	11:53:38	00d 00:10.0	49.6	59.6	51.1	48.6	--	51.4	51.4	49.2	48.7	48.4	----	----	91201.1	
99	10/10/2018	11:53:48	00d 00:10.0	52.5	62.5	53.3	51.1	--	53.3	53.3	52.6	51.9	51.7	----	----	177827.9	
100	10/10/2018	11:53:58	00d 00:10.0	51.3	61.3	52.9	49.9	--	52.5	52.5	51.5	50.1	49.9	----	----	134896.3	
101	10/10/2018	11:54:08	00d 00:10.0	54.3	64.3	57.2	49.8	--	57.5	57.5	53	50.1	49.8	----	----	269153.5	
102	10/10/2018	11:54:18	00d 00:10.0	60.4	70.4	64.8	53.8	--	65	65	60.6	53.9	53.5	----	----	1096478.2	
103	10/10/2018	11:54:28	00d 00:10.0	52.6	62.6	53.8	51.4	--	53.7	53.7	52.4	51.7	51.4	----	----	181970.1	
104	10/10/2018	11:54:38	00d 00:10.0	54.2	64.2	55.7	51.6	--	56	56	54	52.7	52.6	----	----	263026.8	
105	10/10/2018	11:54:48	00d 00:10.0	56	66	56.7	55.3	--	56.9	56.9	56	55.3	55.3	----	----	398107.2	
106	10/10/2018	11:54:58	00d 00:10.0	55	65	55.7	54.3	--	55.8	55.8	55.1	54.4	54.3	----	----	316227.8	
107	10/10/2018	11:55:08	00d 00:10.0	55.1	65.1	56.2	53.9	--	56.5	56.5	55.2	54.2	53.4	----	----	323593.7	
108	10/10/2018	11:55:18	00d 00:10.0	54	64	55.4	53.1	--	55.4	55.4	53.9	53.2	52.9	----	----	251188.6	
109	10/10/2018	11:55:28	00d 00:10.0	56.6	66.6	57.1	53.7	--	57.2	57.2	57	55.1	54.6	----	----	457088.2	
110	10/10/2018	11:55:38	00d 00:10.0	53.2	63.2	57	51.4	--	56.3	56.3	52.1	51.4	51.3	----	----	208929.6	
111	10/10/2018	11:55:48	00d 00:10.0	52.2	62.2	52.8	51.5	--	52.8	52.8	52.4	51.7	51.3	----	----	165958.7	
112	10/10/2018	11:55:58	00d 00:10.0	50.5	60.5	51.6	49.5	--	51.3	51.3	50.7	49.6	49.1	----	----	112201.8	
113	10/10/2018	11:56:08	00d 00:10.0	51.3	61.3	52	49.5	--	52.1	52.1	51.3	50.6	49.4	----	----	134896.3	
114	10/10/2018	11:56:18	00d 00:10.0	51.4	61.4	51.8	50.9	--	51.9	51.9	51.5	51	50.9	----	----	138038.4	
115	10/10/2018	11:56:28	00d 00:10.0	52.6	62.6	53.5	50.8	--	53.9	53.9	53	51.5	50.5	----	----	181970.1	
116	10/10/2018	11:56:38	00d 00:10.0	54.3	64.3	57.8	51.3	--	58.4	58.4	52.3	51.6	51.4	----	----	269153.5	
117	10/10/2018	11:56:48	00d 00:10.0	53.9	63.9	56.1	51.6	--	56.4	56.4	53.4	51.2	51.1	----	----	245470.9	
118	10/10/2018	11:56:58	00d 00:10.0	57.2	67.2	57.6	56.1	--	57.7	57.7	57.2	56.9	56.6	----	----	524807.5	
119																	

122	10/10/2018	11:57:38	00d	00:10.0	55.1	65.1	55.8	53.8	--	55.8	55.8	55.3	54.1	53.8	----	----	323593.7
123	10/10/2018	11:57:48	00d	00:10.0	52.9	62.9	55.2	51.9	--	54.5	54.5	52.9	52.1	51.9	----	----	194984.5
124	10/10/2018	11:57:58	00d	00:10.0	53.7	63.7	55.3	51.9	--	55.4	55.4	53.8	51.9	51.8	----	----	234422.9
125	10/10/2018	11:58:08	00d	00:10.0	52.2	62.2	53	51.6	--	53.2	53.2	52.2	51.7	51.5	----	----	165958.7
126	10/10/2018	11:58:18	00d	00:10.0	51.1	61.1	52	50.4	--	52	52	51.2	50.3	50.3	----	----	128825.0
127	10/10/2018	11:58:28	00d	00:10.0	50.9	60.9	52.1	50.1	--	52.4	52.4	50.7	50.3	50.1	----	----	123026.9
128	10/10/2018	11:58:38	00d	00:10.0	52.3	62.3	53.5	50.7	--	53.5	53.5	52.2	51.3	51.2	----	----	169824.4
129	10/10/2018	11:58:48	00d	00:10.0	50.9	60.9	52.5	50.3	--	52.9	52.9	50.4	50.4	50.3	----	----	123026.9
130	10/10/2018	11:58:58	00d	00:10.0	55.5	65.5	56.1	52.5	--	56.1	56.1	55.9	54.5	53.6	----	----	354813.4
131	10/10/2018	11:59:08	00d	00:10.0	57.1	67.1	59.5	55.5	--	60.1	60.1	57	55.8	55.4	----	----	512861.4
132	10/10/2018	11:59:18	00d	00:10.0	58.7	68.7	59.5	58	--	59.7	59.7	58.8	58.1	57.8	----	----	741310.2
133	10/10/2018	11:59:28	00d	00:10.0	56.9	66.9	59.2	55.4	--	59.3	59.3	56.6	55.5	55.3	----	----	489778.8
134	10/10/2018	11:59:38	00d	00:10.0	54.8	64.8	55.4	54.2	--	55.4	55.4	55.2	54.2	54	----	----	301995.2
135	10/10/2018	11:59:48	00d	00:10.0	52.8	62.8	54.4	51.7	--	53.9	53.9	53	51.7	51.4	----	----	190546.1
136	10/10/2018	11:59:58	00d	00:10.0	54	64	55.1	52.4	--	55.2	55.2	53.9	53	51.9	----	----	251188.6
137	10/10/2018	12:00:08	00d	00:10.0	55.3	65.3	56.5	52.1	--	56.6	56.6	55.8	52.8	52	----	----	338844.2
138	10/10/2018	12:00:18	00d	00:10.0	53.3	63.3	55.4	52.3	--	54.4	54.4	53.2	52.5	52.1	----	----	213796.2
139	10/10/2018	12:00:28	00d	00:10.0	51	61	52.4	49.7	--	52.1	52.1	51.4	49.8	49.5	----	----	125892.5
140	10/10/2018	12:00:38	00d	00:10.0	50	60	50.4	49.6	--	50.5	50.5	50.1	49.7	49.5	----	----	100000.0
141	10/10/2018	12:00:48	00d	00:10.0	51	61	51.4	50.3	--	51.6	51.6	50.8	50.7	50.7	----	----	125892.5
142	10/10/2018	12:00:58	00d	00:10.0	52.5	62.5	54.5	50.7	--	54.8	54.8	52.1	51.6	50.8	----	----	177827.9
143	10/10/2018	12:01:08	00d	00:10.0	53.4	63.4	54.1	52.8	--	54.4	54.4	53.4	52.7	52.7	----	----	218776.2
144	10/10/2018	12:01:18	00d	00:10.0	53.5	63.5	54.1	52.6	--	54.2	54.2	53.4	52.9	52.7	----	----	223872.1
145	10/10/2018	12:01:28	00d	00:10.0	55.2	65.2	55.6	54	--	55.6	55.6	55.2	54.9	54.3	----	----	331131.1
146	10/10/2018	12:01:38	00d	00:10.0	58.7	68.7	62.2	55.1	--	63.1	63.1	57.6	55.8	55.2	----	----	741310.2
147	10/10/2018	12:01:48	00d	00:10.0	55.6	65.6	60	53.3	--	58.4	58.4	55.6	53.3	53	----	----	363078.1
148	10/10/2018	12:01:58	00d	00:10.0	55.2	65.2	56.5	53.3	--	56.8	56.8	55	53.7	53.6	----	----	331131.1
149	10/10/2018	12:02:08	00d	00:10.0	55.9	65.9	59.3	54.3	--	59.8	59.8	54.7	54.3	54.3	----	----	389045.1
150	10/10/2018	12:02:18	00d	00:10.0	59.5	69.5	62.6	56.5	--	64	64	57.8	56.4	56.2	----	----	891250.9
151	10/10/2018	12:02:28	00d	00:10.0	53.5	63.5	56.6	52.5	--	54.8	54.8	53.5	52.5	52.4	----	----	223872.1
152	10/10/2018	12:02:38	00d	00:10.0	52.9	62.9	54.7	51.8	--	54.8	54.8	52.4	51.9	51.7	----	----	194984.5
153	10/10/2018	12:02:48	00d	00:10.0	54.5	64.5	56.5	51.8	--	57	57	54	52.4	52.4	----	----	281838.3
154	10/10/2018	12:02:58	00d	00:10.0	55.2	65.2	57.8	52.7	--	57.1	57.1	56.5	52.5	52.1	----	----	331131.1
155	10/10/2018	12:03:08	00d	00:10.0	55.1	65.1	56.5	53.1	--	56.8	56.8	55.1	53.5	53.2	----	----	323593.7
156	10/10/2018	12:03:18	00d	00:10.0	55	65	56.4	53.9	--	56.3	56.3	55.1	53.8	53.7	----	----	316227.8
157	10/10/2018	12:03:28	00d	00:10.0	61.1	71.1	65.7	55.1	--	66.4	66.4	59.2	58.2	56.9	----	----	1288249.6
158	10/10/2018	12:03:38	00d	00:10.0	58.1	68.1	60.5	55.5	--	60.7	60.7	58.2	55.5	55.3	----	----	645654.2
159	10/10/2018	12:03:48	00d	00:10.0	57.8	67.8	58.8	55.9	--	59.1	59.1	57.9	56.9	56.8	----	----	602559.6
160	10/10/2018	12:03:58	00d	00:10.0	60.3	70.3	62.3	57.1	--	62.4	62.4	60.5	57.7	56.9	----	----	1071519.3
161	10/10/2018	12:04:08	00d	00:10.0	58.7	68.7	61.1	55.4	--	61.5	61.5	59	55.3	55	----	----	741310.2
162	10/10/2018	12:04:18	00d	00:10.0	55.7	65.7	56.9	55	--	57.2	57.2	55.7	55.1	54.8	----	----	371535.2
163	10/10/2018	12:04:28	00d	00:10.0	53.7	63.7	55.8	51.9	--	56	56	53.9	52	51.6	----	----	234422.9
164	10/10/2018	12:04:38	00d	00:10.0	50.7	60.7	52.2	50	--	51.8	51.8	50.6	50.1	50	----	----	117489.8
165	10/10/2018	12:04:48	00d	00:10.0	50.6	60.6	51.1	50	--	51.3	51.3	50.5	50.1	50	----	----	114815.4
166	10/10/2018	12:04:58	00d	00:10.0	53.1	63.1	54.8	51.1	--	55.1	55.1	53.1	51.5	51.4	----	----	204173.8
167	10/10/2018	12:05:08	00d	00:10.0	59.7	69.7	62.8	54.2	--	63.5	63.5	59.6	57.6	54.8	----	----	933254.3



108	10/10/2018	11:57:32	00d	00:10.0	60.3	70.3	62.6	57.8	--	63.1	63.1	60.2	58.2	57.7	----	----	1071519.3
109	10/10/2018	11:57:42	00d	00:10.0	53	63	59.7	49.3	--	56.7	56.7	53.1	49.3	49.1	----	----	199526.2
110	10/10/2018	11:57:52	00d	00:10.0	52.7	62.7	56.5	48.5	--	57	57	49.8	48.5	48.3	----	----	186208.7
111	10/10/2018	11:58:02	00d	00:10.0	53.6	63.6	56.7	52.3	--	56.3	56.3	52.6	52.3	52.3	----	----	229086.8
112	10/10/2018	11:58:12	00d	00:10.0	54.8	64.8	56.5	52.4	--	56.8	56.8	54.8	53.9	52.8	----	----	301995.2
113	10/10/2018	11:58:22	00d	00:10.0	52	62	54.9	49.6	--	53.8	53.8	52.2	49.6	49.2	----	----	158489.3
114	10/10/2018	11:58:32	00d	00:10.0	53.3	63.3	55.3	49.2	--	55.4	55.4	54.1	49.2	49.1	----	----	213796.2
115	10/10/2018	11:58:42	00d	00:10.0	55.5	65.5	56.5	54.6	--	56.6	56.6	55.3	54.7	54.3	----	----	354813.4
116	10/10/2018	11:58:52	00d	00:10.0	55.2	65.2	56.1	54	--	56.5	56.5	55.3	54.3	53.8	----	----	331131.1
117	10/10/2018	11:59:02	00d	00:10.0	61.3	71.3	64.5	55.8	--	64.7	64.7	60.7	57.2	56.3	----	----	1348962.9
118	10/10/2018	11:59:12	00d	00:10.0	62.3	72.3	65.4	57.7	--	65.6	65.6	61.8	58	57.4	----	----	1698243.7
119	10/10/2018	11:59:22	00d	00:10.0	56.5	66.5	58	55.1	--	58	58	56	55.2	55.1	----	----	446683.6
120	10/10/2018	11:59:32	00d	00:10.0	58.6	68.6	59.5	57.6	--	59.7	59.7	58.7	57.8	57.6	----	----	724436.0
121	10/10/2018	11:59:42	00d	00:10.0	60.3	70.3	63.8	55	--	64	64	59.1	54.8	54.2	----	----	1071519.3
122	10/10/2018	11:59:52	00d	00:10.0	53.4	63.4	55	51.8	--	54.7	54.7	54	51.8	51.6	----	----	218776.2
123	10/10/2018	12:00:02	00d	00:10.0	64.2	74.2	68.7	51.5	--	69.3	69.3	60.8	51.9	51.4	----	----	2630268.0
124	10/10/2018	12:00:12	00d	00:10.0	57.8	67.8	67.6	55.9	--	61.3	61.3	57.6	55.9	55.8	----	----	602559.6
125	10/10/2018	12:00:22	00d	00:10.0	54.9	64.9	56.3	52.1	--	56.1	56.1	55.5	52.3	51.7	----	----	309029.5
126	10/10/2018	12:00:32	00d	00:10.0	52	62	54.1	50.2	--	54.4	54.4	51.7	50.2	50	----	----	158489.3
127	10/10/2018	12:00:42	00d	00:10.0	53.1	63.1	54	52.2	--	54.2	54.2	52.9	52.6	52	----	----	204173.8
128	10/10/2018	12:00:52	00d	00:10.0	54.3	64.3	55.2	52.6	--	55.5	55.5	54.7	52.7	52.3	----	----	269153.5
129	10/10/2018	12:01:02	00d	00:10.0	55.7	65.7	57.4	54.2	--	57.6	57.6	55.5	54.2	54	----	----	371535.2
130	10/10/2018	12:01:12	00d	00:10.0	51.4	61.4	54.8	49	--	54.7	54.7	49.4	49	49	----	----	138038.4
131	10/10/2018	12:01:22	00d	00:10.0	51.9	61.9	52.5	49.3	--	52.7	52.7	52.2	50.1	49.8	----	----	154881.7
132	10/10/2018	12:01:32	00d	00:10.0	55.5	65.5	57.1	52.4	--	57.2	57.2	55.7	53.3	53.1	----	----	354813.4
133	10/10/2018	12:01:42	00d	00:10.0	58.4	68.4	58.9	57.1	--	59.2	59.2	58.4	58.1	57.5	----	----	691831.0
134	10/10/2018	12:01:52	00d	00:10.0	60.6	70.6	62.1	58.9	--	62.8	62.8	60	59.7	59.5	----	----	1148153.6
135	10/10/2018	12:02:02	00d	00:10.0	61.3	71.3	65.5	58.2	--	67	67	59.1	57.9	57.9	----	----	1348962.9
136	10/10/2018	12:02:12	00d	00:10.0	60.6	70.6	63.1	57.6	--	63.7	63.7	59.8	57.8	57.4	----	----	1148153.6
137	10/10/2018	12:02:22	00d	00:10.0	66.6	76.6	71.5	58.7	--	72.2	72.2	64.7	57	56.8	----	----	4570881.9
138	10/10/2018	12:02:32	00d	00:10.0	56.9	66.9	58.8	55.1	--	58.5	58.5	57.5	55.4	54.9	----	----	489778.8
139	10/10/2018	12:02:42	00d	00:10.0	53.5	63.5	55.2	52.9	--	54.1	54.1	53.6	52.8	52.8	----	----	223872.1
140	10/10/2018	12:02:52	00d	00:10.0	52.7	62.7	54.7	50.9	--	54.7	54.7	52.5	51.2	50.6	----	----	186208.7
141	10/10/2018	12:03:02	00d	00:10.0	55.6	65.6	57.1	51.6	--	57.5	57.5	55.6	52.7	52.2	----	----	363078.1
142	10/10/2018	12:03:12	00d	00:10.0	67.1	77.1	70.5	57	--	71.5	71.5	66.5	62.8	59.5	----	----	5128613.8
143	10/10/2018	12:03:22	00d	00:10.0	63.6	73.6	67.2	61	--	65.1	65.1	63.9	62	60.3	----	----	2290867.7
144	10/10/2018	12:03:32	00d	00:10.0	56.6	66.6	64.1	55	--	61.4	61.4	55.4	55.1	54.8	----	----	457088.2
145	10/10/2018	12:03:42	00d	00:10.0	53.4	63.4	55.4	51.8	--	54.8	54.8	53.7	51.8	51.4	----	----	218776.2
146	10/10/2018	12:03:52	00d	00:10.0	58.1	68.1	59.9	54	--	59.9	59.9	58.3	55.8	55.2	----	----	645654.2
147	10/10/2018	12:04:02	00d	00:10.0	60.4	70.4	60.9	59.6	--	61	61	60.6	59.7	59.3	----	----	1096478.2
148	10/10/2018	12:04:12	00d	00:10.0	62	72	64.3	59.3	--	65	65	62.3	59.5	58.4	----	----	1584893.2
149	10/10/2018	12:04:22	00d	00:10.0	62.4	72.4	64.9	57.9	--	65.5	65.5	62.4	58.1	57.4	----	----	1737800.8
150	10/10/2018	12:04:32	00d	00:10.0	53.7	63.7	57.9	51.8	--	55.8	55.8	53.6	52.9	50.8	----	----	234422.9
151	10/10/2018	12:04:42	00d	00:10.0	52	62	53	50.5	--	53.1	53.1	52.5	50.5	50.4	----	----	158489.3
152	10/10/2018	12:04:52	00d	00:10.0	54.4	64.4	55.9	51.7	--	56.4	56.4	54.7	51.6	51.5	----	----	275422.9
153	10/10/2018	12:05:02	00d	00:10.0	55.8	65.8	59.3	51	--	59.6	59.6	55.2	51.5	50.7	----	----	380189.4
154	10/10/2018	12:05:12	00d	00:10.0	57.8	67.8	59.7	56.3	--	59.6	59.6	57.9	56.4	55.7	----	----	602559.6
155	10/10/2018	12:05:22	00d	00:10.0	64.6	74.6	66.7	55.4	--	66.6	66.6	65.5	62	55.1	----	----	2884031.5
156	10/10/2018	12:05:32	00d	00:10.0	61.6	71.6	65.6	57.1	--	64.6	64.6	60.8	57.2	56.1	----	----	1445439.8
157	10/10/2018	12:05:42	00d	00:10.0	55.3	65.3	57.3	53.6	--	56.2	56.2	55.6	54	53.2	----	----	338844.2
158	10/10/2018	12:05:52	00d	00:01.1	53.1	53.5	54.2	53.4	--	53.1	53.1	53.1	53.1	53.1	----	----	204173.8



137	10/10/2018	11:57:36	00d	00:10.0	50	60	53.3	48.5	--	52.2	52.2	49.9	48.6	48.2	----	----	100000.0
138	10/10/2018	11:57:46	00d	00:10.0	53.3	63.3	55.3	48.9	--	55.6	55.6	53.6	49.8	49.8	----	----	213796.2
139	10/10/2018	11:57:56	00d	00:10.0	52.5	62.5	55	50.8	--	55.3	55.3	52.5	50.8	50.8	----	----	177827.9
140	10/10/2018	11:58:06	00d	00:10.0	49.9	59.9	53.4	46.1	--	53.6	53.6	47.3	46.1	45.6	----	----	97723.7
141	10/10/2018	11:58:16	00d	00:10.0	48.5	58.5	50.3	46	--	50.8	50.8	48.2	47.1	46.6	----	----	70794.6
142	10/10/2018	11:58:26	00d	00:10.0	56.4	66.4	57.9	50.3	--	58.1	58.1	56.5	55	53	----	----	436515.8
143	10/10/2018	11:58:36	00d	00:10.0	56.1	66.1	57.6	54.7	--	57.1	57.1	55.9	55.1	54.6	----	----	407380.3
144	10/10/2018	11:58:46	00d	00:10.0	60.9	70.9	65	55.1	--	65.9	65.9	60.1	58.7	55.8	----	----	1230268.8
145	10/10/2018	11:58:56	00d	00:10.0	60	70	65.4	56.5	--	65.4	65.4	58.2	56.3	55.3	----	----	1000000.0
146	10/10/2018	11:59:06	00d	00:10.0	50.5	60.5	56.5	49.2	--	53.3	53.3	49.8	49.4	48.9	----	----	112201.8
147	10/10/2018	11:59:16	00d	00:10.0	54	64	55	51.3	--	55	55	54.1	53.1	52.2	----	----	251188.6
148	10/10/2018	11:59:26	00d	00:10.0	54.5	64.5	55.9	53.3	--	56	56	54.5	53.3	53.1	----	----	281838.3
149	10/10/2018	11:59:36	00d	00:10.0	52.8	62.8	53.6	52.2	--	53.5	53.5	52.7	52.4	52	----	----	190546.1
150	10/10/2018	11:59:46	00d	00:10.0	51.6	61.6	52.6	50.5	--	52.5	52.5	51.8	50.6	50.1	----	----	144544.0
151	10/10/2018	11:59:56	00d	00:10.0	53	63	55.7	51.6	--	56.4	56.4	52.2	51.7	51.7	----	----	199526.2
152	10/10/2018	12:00:06	00d	00:10.0	53.5	63.5	56.4	51.5	--	56.5	56.5	52.6	51.7	51.4	----	----	223872.1
153	10/10/2018	12:00:16	00d	00:10.0	54.1	64.1	55	52.3	--	55.2	55.2	54.5	52.8	52.7	----	----	257039.6
154	10/10/2018	12:00:26	00d	00:10.0	54.5	64.5	55.5	53.1	--	55.6	55.6	54.6	53.9	52.4	----	----	281838.3
155	10/10/2018	12:00:36	00d	00:10.0	53.4	63.4	55.4	50.8	--	55.9	55.9	53.3	50.8	50.4	----	----	218776.2
156	10/10/2018	12:00:46	00d	00:10.0	55.7	65.7	56.8	54	--	57.1	57.1	55.6	55	54.7	----	----	371535.2
157	10/10/2018	12:00:56	00d	00:10.0	54.1	64.1	56.5	52.8	--	55.6	55.6	54.4	52.7	52.6	----	----	257039.6
158	10/10/2018	12:01:06	00d	00:10.0	46.3	56.3	53.4	42.4	--	49.8	49.8	45.5	43	42	----	----	42658.0
159	10/10/2018	12:01:16	00d	00:10.0	41.1	51.1	42.5	40.7	--	41.6	41.6	41	40.9	40.8	----	----	12882.5
160	10/10/2018	12:01:26	00d	00:10.0	47.4	57.4	51.5	41.4	--	52.1	52.1	45.6	42.1	41.8	----	----	54954.1
161	10/10/2018	12:01:36	00d	00:10.0	50.3	60.3	53	47.8	--	53.4	53.4	50	47.7	47.5	----	----	107151.9
162	10/10/2018	12:01:46	00d	00:10.0	54.2	64.2	54.9	52.6	--	55.1	55.1	54.5	52.8	52.5	----	----	263026.8
163	10/10/2018	12:01:56	00d	00:10.0	55.1	65.1	55.4	54.5	--	55.4	55.4	55.2	54.9	54.1	----	----	323593.7
164	10/10/2018	12:02:06	00d	00:10.0	52.9	62.9	54.5	52.3	--	53.7	53.7	52.9	52.5	52.3	----	----	194984.5
165	10/10/2018	12:02:16	00d	00:10.0	57	67	60.2	52.8	--	60.5	60.5	55.8	54.7	54.3	----	----	501187.2
166	10/10/2018	12:02:26	00d	00:10.0	54.8	64.8	57.1	51.4	--	57.4	57.4	54.9	51.7	50.7	----	----	301995.2
167	10/10/2018	12:02:36	00d	00:10.0	51.5	61.5	52.3	50.5	--	52.3	52.3	51.6	50.7	50.4	----	----	141253.8
168	10/10/2018	12:02:46	00d	00:10.0	52.6	62.6	54	51.5	--	54.6	54.6	52.1	51.3	51.1	----	----	181970.1
169	10/10/2018	12:02:56	00d	00:10.0	65.3	75.3	72.1	54	--	73.1	73.1	58.7	56.4	55.1	----	----	3388441.6
170	10/10/2018	12:03:06	00d	00:10.0	68.3	78.3	75.1	58.2	--	75.9	75.9	63.9	59.1	56.7	----	----	6760829.8
171	10/10/2018	12:03:16	00d	00:10.0	54.4	64.4	58.2	52.3	--	55.9	55.9	55.3	52.3	52	----	----	275422.9
172	10/10/2018	12:03:26	00d	00:10.0	53.6	63.6	54.8	51.5	--	55	55	53.5	51.4	51.3	----	----	229086.8
173	10/10/2018	12:03:36	00d	00:10.0	49.4	59.4	54.1	47.6	--	53.5	53.5	48.5	47.7	47.5	----	----	87096.4
174	10/10/2018	12:03:46	00d	00:10.0	52.7	62.7	53.5	49.2	--	53.7	53.7	53	51.2	50.6	----	----	186208.7
175	10/10/2018	12:03:56	00d	00:10.0	53.7	63.7	56.2	52.8	--	56.5	56.5	53.3	52.4	52.1	----	----	234422.9
176	10/10/2018	12:04:06	00d	00:10.0	56.6	66.6	58.4	53.1	--	58.4	58.4	56.2	54.3	53.8	----	----	457088.2
177	10/10/2018	12:04:16	00d	00:10.0	55.9	65.9	58.2	54.9	--	57.3	57.3	56.1	55.1	54.6	----	----	389045.1
178	10/10/2018	12:04:26	00d	00:10.0	58.9	68.9	60.6	55.1	--	60.9	60.9	59.4	55.7	55	----	----	776247.1
179	10/10/2018	12:04:36	00d	00:10.0	57.7	67.7	60.6	55	--	60.2	60.2	58.1	55.2	54.7	----	----	588843.7
180	10/10/2018	12:04:46	00d	00:10.0	53.3	63.3	55.8	49.3	--	55.5	55.5	54	49.2	48.9	----	----	213796.2
181	10/10/2018	12:04:56	00d	00:10.0	51.2	61.2	52.8	48.5	--	53.7	53.7	51.2	49.5	48.2	----	----	131825.7
182	10/10/2018	12:05:06	00d	00:10.0	51.8	61.8	55.2	50.2	--	55.9	55.9	51.4	50.1	49.3	----	----	151356.1
183	10/10/2018	12:05:16	00d	00:10.0	50.5	60.5	53.9	48.5	--	54.8	54.8	49	48.4	48.3	----	----	112201.8
184	10/10/2018	12:05:26	00d	00:10.0	58.3	68.3	60.9	53.9	--	61.8	61.8	57.9	56.8	55.2	----	----	676083.0
185	10/10/2018	12:05:36	00d	00:10.0	56.6	66.6	60.9	55	--	58.8	58.8	56.4	55.4	55.2	----	----	457088.2
186	10/10/2018	12:05:46	00d	00:10.0	55.4	65.4	59.5	52	--	59.7	59.7	53.7	51.7	51.2	----	----	346736.9



PASTE  
HERE  
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Address	Start Time	Measurement Time		Leq	LE	LMAX	LMIN	Ly	LN1	LN2	LN3	LN4	LN5	Over	Under	Inverse Log	Overall Leq
M04																	54.5
84	10/10/2018	11:45:01	00d	00:10.0	54.3	64.3	55.9	53	--	55.3	55.3	54.5	53.4	52.6	----	----	269153.5
85	10/10/2018	11:45:11	00d	00:10.0	48.7	58.7	53	46.9	--	51.4	51.4	47.9	47	46.8	----	----	74131.0
86	10/10/2018	11:45:21	00d	00:10.0	54.2	64.2	56.1	48.7	--	56.3	56.3	54.7	50.6	49.6	----	----	263026.8
87	10/10/2018	11:45:31	00d	00:10.0	56.4	66.4	56.8	56	--	56.9	56.9	56.5	56	56	----	----	436515.8
88	10/10/2018	11:45:41	00d	00:10.0	56.4	66.4	59	54.3	--	59.6	59.6	55.7	55.1	54.3	----	----	436515.8
89	10/10/2018	11:45:51	00d	00:10.0	62.2	72.2	65.1	58.1	--	65.3	65.3	62	57.8	57.6	----	----	1659586.9
90	10/10/2018	11:46:01	00d	00:10.0	55.9	65.9	58.1	54.8	--	57	57	55.8	55.4	54.6	----	----	389045.1
91	10/10/2018	11:46:11	00d	00:10.0	53.1	63.1	56.3	52.8	--	53.9	53.9	53.1	52.5	52.4	----	----	204173.8
92	10/10/2018	11:46:21	00d	00:10.0	53.6	63.6	55.2	52.5	--	55.6	55.6	53.3	52.5	52.2	----	----	229086.8
93	10/10/2018	11:46:31	00d	00:10.0	51.4	61.4	53	50.3	--	52.9	52.9	51.1	50.2	50.2	----	----	138038.4
94	10/10/2018	11:46:41	00d	00:10.0	53.7	63.7	54.3	51.2	--	54.3	54.3	54.1	52.6	51.8	----	----	234422.9
95	10/10/2018	11:46:51	00d	00:10.0	53.8	63.8	54.9	52.6	--	55.1	55.1	54.1	52.7	52.5	----	----	239883.3
96	10/10/2018	11:47:01	00d	00:10.0	53	63	56.1	51	--	56.8	56.8	52	51	51	----	----	199526.2
97	10/10/2018	11:47:11	00d	00:10.0	55.1	65.1	56.9	53	--	57.3	57.3	55	53.6	52.5	----	----	323593.7
98	10/10/2018	11:47:21	00d	00:10.0	52	62	53.1	50.7	--	53.3	53.3	52	51	50.4	----	----	158489.3
99	10/10/2018	11:47:31	00d	00:10.0	52.7	62.7	54.3	50.4	--	54.6	54.6	52.7	50.7	50.4	----	----	186208.7
100	10/10/2018	11:47:41	00d	00:10.0	56.3	66.3	58.8	52.1	--	59.2	59.2	57	51.9	51.8	----	----	426579.5
101	10/10/2018	11:47:51	00d	00:10.0	56.8	66.8	57.4	56.3	--	57.6	57.6	56.8	56.3	56.2	----	----	478630.1
102	10/10/2018	11:48:01	00d	00:10.0	54.7	64.7	56.5	53.1	--	55.7	55.7	55.1	53.2	53	----	----	295120.9
103	10/10/2018	11:48:11	00d	00:10.0	53.8	63.8	54.6	52.7	--	54.7	54.7	53.8	53.4	52.1	----	----	239883.3
104	10/10/2018	11:48:21	00d	00:10.0	47.2	57.2	52.7	44.6	--	50.7	50.7	46.2	44.6	44.3	----	----	52480.7
105	10/10/2018	11:48:31	00d	00:10.0	52.2	62.2	53.9	45.1	--	54	54	52.5	48.1	46.2	----	----	165958.7
106	10/10/2018	11:48:41	00d	00:10.0	53.4	63.4	54.8	50.5	--	54.9	54.9	54	50.3	50	----	----	218776.2
107	10/10/2018	11:48:51	00d	00:10.0	53	63	55.2	49.5	--	55.6	55.6	52.5	49.6	49.4	----	----	199526.2
108	10/10/2018	11:49:01	00d	00:10.0	54.2	64.2	55.3	52.7	--	55.4	55.4	54.3	52.9	52.6	----	----	263026.8
109	10/10/2018	11:49:11	00d	00:10.0	52.1	62.1	54.2	49.1	--	54.5	54.5	52.2	49.5	48.5	----	----	162181.0
110	10/10/2018	11:49:21	00d	00:10.0	50.1	60.1	52.2	48.2	--	52.7	52.7	49.5	49	47.8	----	----	102329.3
111	10/10/2018	11:49:31	00d	00:10.0	52.8	62.8	53.8	51.4	--	53.9	53.9	52.7	51.7	51.3	----	----	190546.1
112	10/10/2018	11:49:41	00d	00:10.0	52.6	62.6	53.8	51.4	--	54	54	52.6	51.6	51.4	----	----	181970.1
113	10/10/2018	11:49:51	00d	00:10.0	50.8	60.8	52	50.1	--	51.4	51.4	50.8	50.5	50	----	----	120226.4
114	10/10/2018	11:50:01	00d	00:10.0	53.3	63.3	56.7	50.4	--	57.3	57.3	51.6	51	50	----	----	213796.2
115	10/10/2018	11:50:11	00d	00:10.0	57.1	67.1	58.2	55.9	--	58.6	58.6	56.9	56.3	55.7	----	----	512861.4
116	10/10/2018	11:50:21	00d	00:10.0	57.1	67.1	59	55.5	--	59.3	59.3	56.2	55.7	55.4	----	----	512861.4
117	10/10/2018	11:50:31	00d	00:10.0	56.4	66.4	58.2	53.4	--	58.1	58.1	56.6	55.1	51.7	----	----	436515.8
118	10/10/2018	11:50:41	00d	00:10.0	49.1	59.1	53.4	47.3	--	51.3	51.3	49.3	47.7	47	----	----	81283.1
119	10/10/2018	11:50:51	00d	00:10.0	51.2	61.2	54.5	47	--	55.2	55.2	51.4	47.1	46.1	----	----	131825.7
120	10/10/2018	11:51:01	00d	00:10.0	55.2	65.2	56.8	53.4	--	57.1	57.1	55	53.2	53.1	----	----	331131.1
121	10/10/2018	11:51:11	00d	00:10.0	55.2	65.2	55.5	54.3	--	55.6	55.6	55.3	54.5	54.4	----	----	331131.1
122	10/10/2018	11:51:21	00d	00:10.0	54.7	64.7	55.2	54	--	55.3	55.3	54.8	54	53.9	----	----	295120.9
123	10/10/2018	11:51:31	00d	00:10.0	52.5	62.5	54.7	51.2	--	54.5	54.5	52.1	51.2	51.1	----	----	177827.9
124	10/10/2018	11:51:41	00d	00:10.0	50.5	60.5	51.5	49.9	--	51.3	51.3	50.5	50	49.9	----	----	112201.8
125	10/10/2018	11:51:51	00d	00:10.0	49.8	59.8	51.2	47.1	--	51.6	51.6	50.6	47.1	46.7	----	----	95499.3
126	10/10/2018	11:52:01	00d	00:10.0	50.1	60.1	52.5	47.3	--	52.7	52.7	50.1	47.9	47.3	----	----	102329.3
127	10/10/2018	11:52:11	00d	00:10.0	52.4	62.4	54.3	50.6	--	54.8	54.8	52.3	50.4	50.4	----	----	173780.1
128	10/10/2018	11:52:21	00d	00:10.0	55.8	65.8	57.4	52.7	--	57.8	57.8	56.6	52.9	52.5	----	----	380189.4
129	10/10/2018	11:52:31	00d	00:10.0	55	65	56.1	53.1	--	56.2	56.2	55.3	54.1	53.5	----	----	316227.8
130	10/10/2018	11:52:41	00d	00:10.0	54.2	64.2	55.1	53.4	--	55.1	55.1	54.1	53.6	53.2	----	----	263026.8
131	10/10/2018	11:52:51	00d	00:10.0	54.6	64.6	55.5	53.3	--	55.7	55.7	54.4	53.3	53.3	----	----	288403.2
132	10/10/2018	11:53:01	00d	00:10.0	52.2	62.2	54.5	51	--	53.2	53.2	52.3	51.2	50.7	----	----	165958.7
133	10/10/2018	11:53:11	00d	00:10.0	52.5	62.5	53.5	51.4	--	53.8	53.8	52.7	51.7	51	----	----	177827.9
134	10/10/2018	11:53:21	00d	00:10.0	51.8	61.8	52.9	50.8	--	53	53	52.1	50.7	50.6	----	----	151356.1
135	10/10/2018	11:53:31	00d	00:10.0	52.3	62.3	53.2	50.2	--	53.3	53.3	52.8	50.1	50	----	----	169824.4
136	10/10/2018	11:53:41	00d	00:10.0	53.3	63.3	53.8	52.7	--	54	54	53.2	52.9	52.7	----	----	213796.2
137	10/10/2018	11:53:51	00d	00:10.0	52.5	62.5	53.2	51.5	--	53.2	53.2	52.7	52	51.3	----	----	177827.9
138	10/10/2018	11:54:01	00d	00:10.0	52.7	62.7	53.4	51.4	--	53.4	53.4	53	52	50.9	----	----	186208.7
139	10/10/2018	11:54:11	00d	00:10.0	51.2	61.2	51.9	50.2	--	51.9	51.9	51.5	50.1	50	----	----	131825.7
140	10/10/2018	11:54:21	00d	00:10.0	51.5	61.5	51.9	51.1	--	52	52	51.4	51.1	51	----	----	141253.8
141	10/10/2018	11:54:31	00d	00:10.0	51.2	61.2	51.7	50.7	--	52	52	51.2	50.7	50.7	----	----	131825.7
142	10/10/2018	11:54:41	00d	00:10.0	52.7	62.7	53.2	51.7	--	53.5	53.5	52.6	52	52	----	----	186208.7
143	10/10/2018	11:54:51	00d	00:10.0	56.3	66.3	57.5	52.6	--	57.6	57.6	56.7	54.9	53.6	----	----	426579.5
144	10/10/2018	11:55:01	00d	00:10.0	55.1	65.1	57.6	52.8	--	57.4	57.4	54.8	52.9	52.6	----	----	323593.7
145	10/10/2018	11:55:11	00d	00:10.0	54.5	64.5	55.1	52.8	--	55.4	55.4	54.5	54.1	53.5	----	----	281838.3
146	10/10/2018	11:55:21	00d	00:10.0	53.6	63.6	55.4	52.1	--	55.7	55.7	53.5	52.3	52	----	----	229086.8
147	10/10/2018	11:55:31	00d	00:10.0	56.3	66.3	57.2	55.3	--	57.4	57.4	56.4	55.6	55.2	----	----	426579.5
148	10/10/2018	11:55:41	00d	00:10.0	57.9	67.9	58.7	56.1	--	58.9	58.9	58	56.8	55.5	----	----	616595.0
149	10/10/2018	11:55:51	00d	00:10.0	53.4	63.4	56.1	52.8	--	55.1	55.1	53.3	52.8	52.5	----	----	218776.2
150	10/10/2018	11:56:01	00d	00:10.0	52.1	62.1	53.2	51.1	--	53.1	53.1	52.6	50.9	50.8	----	----	162181.0
151	10/10/2018	11:56:11	00d	00:10.0	50.9	60.9	52.8	47	--	53.1	53.1	51.6	47.2	46.1	----	----	123026.9
152	10/10/2018	11:56:21	00d	00:10.0	47.1	57.1	49.3	45	--	49.6	49.6	46.8	45	44.9	----	----	51286.1
153	10/10/2018	11:56:31	00d	00:10.0	51.1	61.1	52.5	49.3	--	52.9	52.9	50.9	50.3	49.9	----	----	128825.0
154	10/10/2018	11:56:41	00d	00:10.0	49.4	59.4	52.7	47.3	--	52.5	52.5	48.6	47.4	47.2	----	----	87096.4
155	10/10/2018	11:56:51	00d	00:10.0	49.5	59.5	50.7	47.2	--	50.8	50.8	50.2	47.1	46.9			



159	10/10/2018	11:57:31	00d	00:10.0	52.8	62.8	55.5	51.6	--	54.6	54.6	52.6	51.8	51.2	----	----	190546.1
160	10/10/2018	11:57:41	00d	00:10.0	53.1	63.1	54.3	51.1	--	54.4	54.4	53.2	51.2	50.9	----	----	204173.8
161	10/10/2018	11:57:51	00d	00:10.0	53.5	63.5	54.9	51.1	--	55.1	55.1	53.8	50.9	50.9	----	----	223872.1
162	10/10/2018	11:58:01	00d	00:10.0	51.5	61.5	51.9	51	--	52.1	52.1	51.4	51.1	51	----	----	141253.8
163	10/10/2018	11:58:11	00d	00:10.0	51.7	61.7	52.6	50.9	--	52.8	52.8	51.5	51.1	50.7	----	----	147910.8
164	10/10/2018	11:58:21	00d	00:10.0	55.6	65.6	57	51.3	--	57.1	57.1	56.2	53.2	52.1	----	----	363078.1
165	10/10/2018	11:58:31	00d	00:10.0	55.2	65.2	56.5	54.4	--	55.9	55.9	55.5	54.5	54.3	----	----	331131.1
166	10/10/2018	11:58:41	00d	00:10.0	55.4	65.4	56.2	54.2	--	56.3	56.3	55.7	54.5	54.4	----	----	346736.9
167	10/10/2018	11:58:51	00d	00:10.0	56.9	66.9	57.9	55.1	--	58.2	58.2	57	55.4	54.7	----	----	489778.8
168	10/10/2018	11:59:01	00d	00:10.0	53.2	63.2	57.2	51.2	--	55.6	55.6	52.5	51.2	51.1	----	----	208929.6
169	10/10/2018	11:59:11	00d	00:10.0	54.9	64.9	56.2	53.1	--	56.3	56.3	55.1	53.2	53.1	----	----	309029.5
170	10/10/2018	11:59:21	00d	00:10.0	54.5	64.5	56.2	53.5	--	55.9	55.9	54.6	53.6	53.3	----	----	281838.3
171	10/10/2018	11:59:31	00d	00:10.0	54.9	64.9	56	53.7	--	56.4	56.4	54.8	54.2	53.9	----	----	309029.5
172	10/10/2018	11:59:41	00d	00:10.0	53.8	63.8	54.8	53	--	54.5	54.5	53.7	53.1	52.8	----	----	239883.3
173	10/10/2018	11:59:51	00d	00:10.0	52.9	62.9	53.6	52.2	--	53.7	53.7	52.8	52.4	51.8	----	----	194984.5
174	10/10/2018	12:00:01	00d	00:10.0	53.9	63.9	55.6	52.5	--	55.9	55.9	53.4	52.6	52.5	----	----	245470.9
175	10/10/2018	12:00:11	00d	00:10.0	54.4	64.4	55.5	53.4	--	55.2	55.2	54.5	53.4	53.2	----	----	275422.9
176	10/10/2018	12:00:21	00d	00:10.0	54.8	64.8	56	53.5	--	56.2	56.2	54.9	53.3	53.2	----	----	301995.2
177	10/10/2018	12:00:31	00d	00:10.0	52	62	53.7	51	--	52.8	52.8	52.3	51.1	50.8	----	----	158489.3
178	10/10/2018	12:00:41	00d	00:10.0	54.1	64.1	55.1	52.7	--	55.4	55.4	54.3	53	52.8	----	----	257039.6
179	10/10/2018	12:00:51	00d	00:10.0	53.4	63.4	55.1	51.8	--	55.1	55.1	53.5	51.8	51.8	----	----	218776.2
180	10/10/2018	12:01:01	00d	00:10.0	49.1	59.1	52.1	43.9	--	52.1	52.1	49.9	43.9	43.3	----	----	81283.1
181	10/10/2018	12:01:11	00d	00:10.0	42.8	52.8	43.9	42	--	43.7	43.7	42.9	42	42	----	----	19054.6
182	10/10/2018	12:01:21	00d	00:10.0	50.1	60.1	52.3	43.6	--	52.4	52.4	50.8	45.1	44.2	----	----	102329.3
183	10/10/2018	12:01:31	00d	00:10.0	51.4	61.4	52.1	50.6	--	52.1	52.1	51.5	50.8	50.4	----	----	138038.4
184	10/10/2018	12:01:41	00d	00:10.0	55.7	65.7	56.9	51.7	--	57	57	56.7	53.9	53.4	----	----	371535.2
185	10/10/2018	12:01:51	00d	00:10.0	56.2	66.2	56.9	55.4	--	56.9	56.9	56.2	55.3	55.2	----	----	416869.4
186	10/10/2018	12:02:01	00d	00:10.0	54.9	64.9	55.9	53.6	--	56	56	55.4	53.5	53.4	----	----	309029.5
187	10/10/2018	12:02:11	00d	00:10.0	57.5	67.5	60.7	53.9	--	61.4	61.4	56.5	55.9	54.5	----	----	562341.3
188	10/10/2018	12:02:21	00d	00:10.0	56.8	66.8	58.4	54.2	--	58.9	58.9	57.1	53.9	53.9	----	----	478630.1
189	10/10/2018	12:02:31	00d	00:10.0	53.3	63.3	54.2	52.4	--	54.3	54.3	53.4	52.3	52.3	----	----	213796.2
190	10/10/2018	12:02:41	00d	00:10.0	54.7	64.7	55.2	53.5	--	55.4	55.4	54.7	54.5	54.4	----	----	295120.9
191	10/10/2018	12:02:51	00d	00:10.0	57.3	67.3	59.8	55.1	--	60.3	60.3	56.8	55.2	55	----	----	537031.8
192	10/10/2018	12:03:01	00d	00:10.0	61.5	71.5	63.1	59.8	--	63.2	63.2	61.6	60	59.7	----	----	1412537.5
193	10/10/2018	12:03:11	00d	00:10.0	55	65	59.8	52.9	--	57.2	57.2	54.8	52.9	52.7	----	----	316227.8
194	10/10/2018	12:03:21	00d	00:10.0	55.1	65.1	57.8	51.9	--	57.9	57.9	55.1	52	51.3	----	----	323593.7
195	10/10/2018	12:03:31	00d	00:10.0	51.4	61.4	52.1	49.9	--	52.1	52.1	51.9	50.3	49.7	----	----	138038.4
196	10/10/2018	12:03:41	00d	00:10.0	52.1	62.1	53.3	51	--	53.5	53.5	51.8	51.1	51	----	----	162181.0
197	10/10/2018	12:03:51	00d	00:10.0	52.8	62.8	53.8	51.2	--	54	54	53.1	51.3	51.2	----	----	190546.1
198	10/10/2018	12:04:01	00d	00:10.0	57.4	67.4	59.7	53	--	59.5	59.5	57.6	54.5	53	----	----	549540.9
199	10/10/2018	12:04:11	00d	00:10.0	57	67	58.3	55.5	--	58.4	58.4	57.2	55.5	55.3	----	----	501187.2
200	10/10/2018	12:04:21	00d	00:10.0	61.8	71.8	65	55.4	--	65.5	65.5	60.8	55.6	55.5	----	----	1513561.2
201	10/10/2018	12:04:31	00d	00:10.0	58	68	64	52.1	--	62.1	62.1	57.9	52	51.8	----	----	630957.3
202	10/10/2018	12:04:41	00d	00:10.0	51.1	61.1	52.4	47.6	--	52.5	52.5	51.9	47.5	47.1	----	----	128825.0
203	10/10/2018	12:04:51	00d	00:10.0	44.9	54.9	47.6	43.5	--	46.6	46.6	45.1	43.7	43.3	----	----	30903.0
204	10/10/2018	12:05:01	00d	00:10.0	46.6	56.6	47.5	44.3	--	47.7	47.7	46.5	46	45.7	----	----	45708.8



87	10/10/2018	9:43:32	00d	00:10.0	58.3	68.3	59	57.1	--	59.5	59.5	58.2	57.6	57.3	----	----	676083.0
88	10/10/2018	9:43:42	00d	00:10.0	57.8	67.8	59.1	56.6	--	58.5	58.5	58	57.2	56.3	----	----	602559.6
89	10/10/2018	9:43:52	00d	00:10.0	55.3	65.3	57.5	54.1	--	56.6	56.6	55.3	54.5	53.7	----	----	338844.2
90	10/10/2018	9:44:02	00d	00:10.0	53.5	63.5	54.8	52.4	--	54.7	54.7	53.5	52.5	52.1	----	----	223872.1
91	10/10/2018	9:44:12	00d	00:10.0	54.6	64.6	55.8	53.4	--	56.1	56.1	54.5	53.6	53.5	----	----	288403.2
92	10/10/2018	9:44:22	00d	00:10.0	54.3	64.3	55.5	52.4	--	55.8	55.8	54.3	52.2	52	----	----	269153.5
93	10/10/2018	9:44:32	00d	00:10.0	52.4	62.4	55.6	51.2	--	55	55	52.2	51.1	51	----	----	173780.1
94	10/10/2018	9:44:42	00d	00:10.0	52.7	62.7	54	51.5	--	54.2	54.2	52.7	51.7	51.6	----	----	186208.7
95	10/10/2018	9:44:52	00d	00:10.0	54.3	64.3	55.1	53	--	55.4	55.4	54.4	53.2	53.1	----	----	269153.5
96	10/10/2018	9:45:02	00d	00:10.0	58.2	68.2	59.9	55	--	60.1	60.1	58.4	56.3	56.1	----	----	660693.4
97	10/10/2018	9:45:12	00d	00:10.0	62.1	72.1	65.3	59.9	--	66.4	66.4	60.8	60.1	60	----	----	1621810.1
98	10/10/2018	9:45:22	00d	00:10.0	60.5	70.5	63.7	57.2	--	64.4	64.4	59.8	57.5	56.6	----	----	1122018.5
99	10/10/2018	9:45:32	00d	00:10.0	56.9	66.9	57.6	56.3	--	57.6	57.6	56.9	56.4	56	----	----	489778.8
100	10/10/2018	9:45:42	00d	00:10.0	56.4	66.4	56.7	56.1	--	56.9	56.9	56.5	56.1	55.8	----	----	436515.8
101	10/10/2018	9:45:52	00d	00:10.0	56.5	66.5	57.4	53.8	--	57.5	57.5	56.9	54.4	52.8	----	----	446683.6
102	10/10/2018	9:46:02	00d	00:10.0	53.7	63.7	55.3	51.8	--	55.6	55.6	54	51.8	51.6	----	----	234422.9
103	10/10/2018	9:46:12	00d	00:10.0	56.1	66.1	57.5	54.7	--	57.9	57.9	55.8	55.4	54.6	----	----	407380.3
104	10/10/2018	9:46:22	00d	00:10.0	55.7	65.7	57.8	54.1	--	57.5	57.5	55.7	54.1	54.1	----	----	371535.2
105	10/10/2018	9:46:32	00d	00:10.0	54.4	64.4	55.8	52.6	--	55.8	55.8	54.5	52.6	52.5	----	----	275422.9
106	10/10/2018	9:46:42	00d	00:10.0	55.1	65.1	56.8	53.1	--	57	57	55.2	53	52.6	----	----	323593.7
107	10/10/2018	9:46:52	00d	00:10.0	56.2	66.2	57.1	54.3	--	57.4	57.4	56.1	54.6	54.6	----	----	416869.4
108	10/10/2018	9:47:02	00d	00:10.0	54.6	64.6	57.2	52	--	57.8	57.8	54.3	52.2	51.5	----	----	288403.2
109	10/10/2018	9:47:12	00d	00:10.0	55.6	65.6	57	52.8	--	57	57	56.3	52.5	52.4	----	----	363078.1
110	10/10/2018	9:47:22	00d	00:10.0	54.8	64.8	56.4	51.9	--	56.6	56.6	54.6	53	51.5	----	----	301995.2
111	10/10/2018	9:47:32	00d	00:10.0	56.2	66.2	56.9	55.1	--	57.1	57.1	56.2	55.7	54.7	----	----	416869.4
112	10/10/2018	9:47:42	00d	00:10.0	57.4	67.4	58.4	55.9	--	58.8	58.8	57.2	56.5	56.1	----	----	549540.9
113	10/10/2018	9:47:52	00d	00:10.0	57.1	67.1	58.2	55.8	--	58.5	58.5	57.3	56.1	55.4	----	----	512861.4
114	10/10/2018	9:48:02	00d	00:10.0	59.4	69.4	60.8	58.1	--	61.1	61.1	59.3	58.9	57.7	----	----	870963.6
115	10/10/2018	9:48:12	00d	00:10.0	57.4	67.4	58.7	56.4	--	59.1	59.1	57.4	56.3	56.1	----	----	549540.9
116	10/10/2018	9:48:22	00d	00:10.0	60.5	70.5	64.6	55.5	--	65.2	65.2	58.1	55.8	55.2	----	----	1122018.5
117	10/10/2018	9:48:32	00d	00:10.0	61.4	71.4	64.7	57.6	--	63.5	63.5	62.1	58.5	56.5	----	----	1380384.3
118	10/10/2018	9:48:42	00d	00:10.0	55	65	57.6	53.7	--	56.3	56.3	55	54.1	53.5	----	----	316227.8
119	10/10/2018	9:48:52	00d	00:10.0	56.6	66.6	57.4	55.7	--	57.6	57.6	56.5	55.8	55.7	----	----	457088.2
120	10/10/2018	9:49:02	00d	00:10.0	54.8	64.8	56.8	53.5	--	56.3	56.3	54.7	53.6	53.3	----	----	301995.2
121	10/10/2018	9:49:12	00d	00:10.0	55.5	65.5	57	53.7	--	57.1	57.1	55.4	54.3	53.8	----	----	354813.4
122	10/10/2018	9:49:22	00d	00:10.0	57.7	67.7	58.7	56	--	59	59	57.5	56.5	55.7	----	----	588843.7
123	10/10/2018	9:49:32	00d	00:10.0	59.6	69.6	63.8	56.8	--	64.5	64.5	58.6	57.5	56.2	----	----	912010.8
124	10/10/2018	9:49:42	00d	00:10.0	69.2	79.2	73.4	60	--	74.2	74.2	68.9	58.5	58.4	----	----	8317637.7
125	10/10/2018	9:49:52	00d	00:10.0	58.4	68.4	60.4	56.9	--	60.7	60.7	58.1	57.3	56.5	----	----	691831.0
126	10/10/2018	9:50:02	00d	00:10.0	58.9	68.9	59.6	57.4	--	59.7	59.7	59	58.3	58.1	----	----	776247.1
127	10/10/2018	9:50:12	00d	00:10.0	58.1	68.1	58.5	57.7	--	58.8	58.8	58	57.8	57.7	----	----	645654.2
128	10/10/2018	9:50:22	00d	00:10.0	57.8	67.8	60.2	55.6	--	60.2	60.2	57.2	55.7	55.6	----	----	602559.6
129	10/10/2018	9:50:32	00d	00:10.0	56.7	66.7	58.5	55.3	--	58.8	58.8	56.2	55.4	54.8	----	----	467735.1
130	10/10/2018	9:50:42	00d	00:10.0	58.8	68.8	60.7	56.3	--	61.2	61.2	58.1	57.4	55.7	----	----	758577.6
131	10/10/2018	9:50:52	00d	00:08.8	55.1	64.6	56.6	53.4	--	56.7	56.7	54.8	53	53	----	----	323593.7



104	10/10/2018	11:12:39	00d	00:10.0	63.4	73.4	66	59.5	--	66.4	66.4	63.2	59.5	58.7	----	----	2187761.6
105	10/10/2018	11:12:49	00d	00:10.0	61.3	71.3	63.6	57.3	--	63.7	63.7	62	57	56.6	----	----	1348962.9
106	10/10/2018	11:12:59	00d	00:10.0	60	70	64.1	52.9	--	65.2	65.2	58.8	53	52.4	----	----	1000000.0
107	10/10/2018	11:13:09	00d	00:10.0	53.1	63.1	54.4	52	--	54.8	54.8	52.7	52	52	----	----	204173.8
108	10/10/2018	11:13:19	00d	00:10.0	57	67	58.7	54.4	--	59.4	59.4	57.2	55.2	55.2	----	----	501187.2
109	10/10/2018	11:13:29	00d	00:10.0	62.4	72.4	67	55.5	--	67.9	67.9	61	55.7	54.5	----	----	1737800.8
110	10/10/2018	11:13:39	00d	00:10.0	58.6	68.6	60.5	54.6	--	60.7	60.7	59.2	54.3	53.8	----	----	724436.0
111	10/10/2018	11:13:49	00d	00:10.0	55.3	65.3	60	49.6	--	58.4	58.4	55.6	49.4	48.1	----	----	338844.2
112	10/10/2018	11:13:59	00d	00:10.0	48.5	58.5	50.7	46.3	--	51.1	51.1	48.2	46.5	46.3	----	----	70794.6
113	10/10/2018	11:14:09	00d	00:10.0	49.4	59.4	53.3	46.9	--	54	54	47.8	46.8	46.6	----	----	87096.4
114	10/10/2018	11:14:19	00d	00:10.0	56.9	66.9	58	53.3	--	58.7	58.7	56.9	55.8	55.3	----	----	489778.8
115	10/10/2018	11:14:29	00d	00:10.0	57.4	67.4	59.2	55.1	--	59.7	59.7	57.5	55.6	54.5	----	----	549540.9
116	10/10/2018	11:14:39	00d	00:10.0	59.8	69.8	62.5	58.1	--	63.2	63.2	59.2	58.3	57.6	----	----	954992.6
117	10/10/2018	11:14:49	00d	00:10.0	60	70	62.5	57.7	--	63.1	63.1	59.3	57.8	57.4	----	----	1000000.0
118	10/10/2018	11:14:59	00d	00:10.0	61.9	71.9	65	58	--	65.8	65.8	62.2	57.8	57.4	----	----	1548816.6
119	10/10/2018	11:15:09	00d	00:10.0	57.2	67.2	62	49.6	--	61.7	61.7	57.4	49.3	48.9	----	----	524807.5
120	10/10/2018	11:15:19	00d	00:10.0	55.7	65.7	59.2	49.4	--	59.9	59.9	54.7	50.7	49.9	----	----	371535.2
121	10/10/2018	11:15:29	00d	00:10.0	60.5	70.5	62.9	51.4	--	63.2	63.2	60.8	52.5	50.8	----	----	1122018.5
122	10/10/2018	11:15:39	00d	00:10.0	59.5	69.5	63.5	55.4	--	64.3	64.3	57.6	55.2	55.1	----	----	891250.9
123	10/10/2018	11:15:49	00d	00:10.0	56.1	66.1	60.6	50.5	--	59	59	56.1	50	49.4	----	----	407380.3
124	10/10/2018	11:15:59	00d	00:10.0	49.4	59.4	52.1	48.3	--	52	52	48.6	48.3	48.2	----	----	87096.4
125	10/10/2018	11:16:09	00d	00:10.0	64.7	74.7	71	48.3	--	70.9	70.9	57.9	49.6	48.5	----	----	2951209.2
126	10/10/2018	11:16:19	00d	00:10.0	51.7	61.7	63.4	48.1	--	54.9	54.9	50.8	48.5	47	----	----	147910.8
127	10/10/2018	11:16:29	00d	00:10.0	50.7	60.7	54.8	44.7	--	55.8	55.8	49	45.1	44.3	----	----	117489.8
128	10/10/2018	11:16:39	00d	00:10.0	53.3	63.3	55.2	51	--	55.5	55.5	54	50.9	50.8	----	----	213796.2
129	10/10/2018	11:16:49	00d	00:10.0	62	72	64	53.4	--	64.4	64.4	61.6	58.5	57.6	----	----	1584893.2
130	10/10/2018	11:16:59	00d	00:10.0	64.8	74.8	68.4	59	--	69.4	69.4	64.7	60	58.4	----	----	3019951.7
131	10/10/2018	11:17:09	00d	00:10.0	61.4	71.4	67.1	57.8	--	63.9	63.9	62.1	57	56.6	----	----	1380384.3
132	10/10/2018	11:17:19	00d	00:10.0	55.8	65.8	59	50.8	--	59.5	59.5	55.5	50.5	49.7	----	----	380189.4
133	10/10/2018	11:17:29	00d	00:10.0	56.2	66.2	61	49.7	--	62.2	62.2	54.8	51	48.9	----	----	416869.4
134	10/10/2018	11:17:39	00d	00:10.0	51.5	61.5	55	47.2	--	55.3	55.3	50.5	47.2	46.7	----	----	141253.8
135	10/10/2018	11:17:49	00d	00:10.0	56.3	66.3	60.8	51.4	--	62.1	62.1	54.7	51.2	51.1	----	----	426579.5
136	10/10/2018	11:17:59	00d	00:10.0	61.3	71.3	64.1	56.4	--	64.9	64.9	62	55.6	54.8	----	----	1348962.9
137	10/10/2018	11:18:09	00d	00:10.0	57.4	67.4	61.2	52.3	--	62	62	56.7	52.4	51.1	----	----	549540.9
138	10/10/2018	11:18:19	00d	00:10.0	55.7	65.7	61.3	51.6	--	62.3	62.3	52.9	51.1	51	----	----	371535.2
139	10/10/2018	11:18:29	00d	00:10.0	62.1	72.1	65.1	55.2	--	65.9	65.9	62.1	54.7	53.6	----	----	1621810.1
140	10/10/2018	11:18:39	00d	00:10.0	50.2	60.2	55.2	49.6	--	51	51	50.1	49.7	49.5	----	----	104712.9
141	10/10/2018	11:18:49	00d	00:10.0	60.9	70.9	66.6	48	--	67	67	49.4	48.5	47.8	----	----	1230268.8
142	10/10/2018	11:18:59	00d	00:10.0	63.6	73.6	68.9	54.6	--	69.4	69.4	60.9	55.9	53.4	----	----	2290867.7
143	10/10/2018	11:19:09	00d	00:10.0	56.9	66.9	59.6	53.3	--	60.4	60.4	56.1	53.3	53.2	----	----	489778.8
144	10/10/2018	11:19:19	00d	00:10.0	59.8	69.8	62.7	56.7	--	63.7	63.7	59.3	57.1	56.7	----	----	954992.6
145	10/10/2018	11:19:29	00d	00:10.0	61.5	71.5	63.4	59.3	--	64	64	60.6	59	59	----	----	1412537.5
146	10/10/2018	11:19:39	00d	00:10.0	56.9	66.9	60.6	54.6	--	58.8	58.8	57.2	55.2	54.1	----	----	489778.8
147	10/10/2018	11:19:49	00d	00:10.0	54.9	64.9	59.2	51	--	60.3	60.3	53	51	50.9	----	----	309029.5
148	10/10/2018	11:19:59	00d	00:10.0	59	69	62.4	55.8	--	62.7	62.7	58	55.6	54.9	----	----	794328.2
149	10/10/2018	11:20:09	00d	00:10.0	57.1	67.1	60.7	54.9	--	58.8	58.8	57	55	54.7	----	----	512861.4

A/C noise





142	10/10/2018	11:12:36	00d	00:10.0	60.4	70.4	61.7	59.5	--	62	62	60.2	59.6	59.5	----	----	1096478.2
143	10/10/2018	11:12:46	00d	00:10.0	63	73	65	61.5	--	65.2	65.2	62.3	61.6	61.2	----	----	1995262.3
144	10/10/2018	11:12:56	00d	00:10.0	57.8	67.8	61.7	55.9	--	60.3	60.3	57.9	56	55.8	----	----	602559.6
145	10/10/2018	11:13:06	00d	00:10.0	52.7	62.7	56	51.6	--	54.6	54.6	52.6	51.7	51.5	----	----	186208.7
146	10/10/2018	11:13:16	00d	00:10.0	58.2	68.2	60.9	52.3	--	61.2	61.2	58.6	53.6	52.8	----	----	660693.4
147	10/10/2018	11:13:26	00d	00:10.0	59.2	69.2	60.9	58.1	--	60.9	60.9	59	58	57.8	----	----	831763.8
148	10/10/2018	11:13:36	00d	00:10.0	57.2	67.2	59.1	55.6	--	59	59	57.4	55.7	55.6	----	----	524807.5
149	10/10/2018	11:13:46	00d	00:10.0	58.9	68.9	60.1	57	--	60.2	60.2	59.2	57.5	56.8	----	----	776247.1
150	10/10/2018	11:13:56	00d	00:10.0	58	68	61.3	51.2	--	61.1	61.1	57.6	51.2	50.5	----	----	630957.3
151	10/10/2018	11:14:06	00d	00:10.0	49.4	59.4	51.3	48.1	--	50.4	50.4	49.3	48.6	47.9	----	----	87096.4
152	10/10/2018	11:14:16	00d	00:10.0	56.3	66.3	58.5	48.7	--	58.9	58.9	57	51.5	50	----	----	426579.5
153	10/10/2018	11:14:26	00d	00:10.0	55.2	65.2	58.8	51.4	--	58.9	58.9	54.6	52.4	50.3	----	----	331131.1
154	10/10/2018	11:14:36	00d	00:10.0	55.8	65.8	57.3	53.7	--	57.4	57.4	56.2	53.9	53	----	----	380189.4
155	10/10/2018	11:14:46	00d	00:10.0	61.3	71.3	62.7	55.2	--	62.5	62.5	61.7	59.1	57.3	----	----	1348962.9
156	10/10/2018	11:14:56	00d	00:10.0	60.3	70.3	61.9	58.6	--	61.8	61.8	60.5	58.6	58.4	----	----	1071519.3
157	10/10/2018	11:15:06	00d	00:10.0	59.9	69.9	60.6	58.7	--	60.8	60.8	60	59.4	59	----	----	977237.2
158	10/10/2018	11:15:16	00d	00:10.0	59.6	69.6	60.2	59	--	60	60	59.7	59.1	59.1	----	----	912010.8
159	10/10/2018	11:15:26	00d	00:10.0	57.8	67.8	59.8	55.6	--	59.1	59.1	58.1	55.6	55.4	----	----	602559.6
160	10/10/2018	11:15:36	00d	00:10.0	56.6	66.6	58.2	54	--	58.2	58.2	56.5	54.4	53.5	----	----	457088.2
161	10/10/2018	11:15:46	00d	00:10.0	53.1	63.1	54.1	51.8	--	54	54	53.2	52	51.9	----	----	204173.8
162	10/10/2018	11:15:56	00d	00:10.0	57.5	67.5	60.2	53.3	--	60.7	60.7	56.9	54.9	53.5	----	----	562341.3
163	10/10/2018	11:16:06	00d	00:10.0	62.1	72.1	66.4	54.7	--	67.1	67.1	61.3	54.7	54.2	----	----	1621810.1
164	10/10/2018	11:16:16	00d	00:10.0	52.2	62.2	57	49.3	--	57.8	57.8	50.8	47.3	47.1	----	----	165958.7
165	10/10/2018	11:16:26	00d	00:10.0	46.7	56.7	49.3	45.4	--	47.8	47.8	46.8	45.7	45.3	----	----	46773.5
166	10/10/2018	11:16:36	00d	00:10.0	56.5	66.5	60.1	47	--	60.5	60.5	55.6	48.3	47.2	----	----	446683.6
167	10/10/2018	11:16:46	00d	00:10.0	62.1	72.1	63.4	60	--	63.7	63.7	62.1	61.1	60.6	----	----	1621810.1
168	10/10/2018	11:16:56	00d	00:10.0	63	73	64.9	60.8	--	65.1	65.1	62.7	60.9	60.7	----	----	1995262.3
169	10/10/2018	11:17:06	00d	00:10.0	59.3	69.3	60.9	58.1	--	60.5	60.5	59.3	58.1	57	----	----	851138.0
170	10/10/2018	11:17:16	00d	00:10.0	58.3	68.3	58.8	57.7	--	59	59	58.4	57.9	57.7	----	----	676083.0
171	10/10/2018	11:17:26	00d	00:10.0	55.8	65.8	58.5	53.6	--	58.4	58.4	55	53.6	53.4	----	----	380189.4
172	10/10/2018	11:17:36	00d	00:10.0	53.5	63.5	55.3	51.3	--	55.4	55.4	53.5	51.8	51.2	----	----	223872.1
173	10/10/2018	11:17:46	00d	00:10.0	58.2	68.2	59.5	54.9	--	59.6	59.6	59	55.6	55.1	----	----	660693.4
174	10/10/2018	11:17:56	00d	00:10.0	58	68	60.1	56.7	--	60.4	60.4	57.8	56.7	56.7	----	----	630957.3
175	10/10/2018	11:18:06	00d	00:10.0	57.6	67.6	58.9	55.9	--	59.1	59.1	57.8	55.9	55.8	----	----	575439.9
176	10/10/2018	11:18:16	00d	00:10.0	59.5	69.5	60.5	55.9	--	60.6	60.6	59.5	58.3	56.3	----	----	891250.9
177	10/10/2018	11:18:26	00d	00:10.0	58.8	68.8	60.9	57	--	61.6	61.6	58.6	56.7	56.6	----	----	758577.6
178	10/10/2018	11:18:36	00d	00:10.0	57.8	67.8	59.9	52.7	--	59.9	59.9	58.6	52.3	52	----	----	602559.6
179	10/10/2018	11:18:46	00d	00:10.0	52.1	62.1	53.2	51.1	--	53.2	53.2	52.2	50.9	50.4	----	----	162181.0
180	10/10/2018	11:18:56	00d	00:10.0	55.5	65.5	56.9	50.4	--	57.3	57.3	55.7	53.5	50.1	----	----	354813.4
181	10/10/2018	11:19:06	00d	00:10.0	55.7	65.7	56.9	54.6	--	57	57	55.8	54.6	54.5	----	----	371535.2
182	10/10/2018	11:19:16	00d	00:10.0	58	68	59.1	55.7	--	59.1	59.1	58.3	56	55.6	----	----	630957.3
183	10/10/2018	11:19:26	00d	00:10.0	57	67	58.5	56.8	--	57.4	57.4	57	56.7	56.5	----	----	501187.2
184	10/10/2018	11:19:36	00d	00:10.0	58.6	68.6	59.3	57.3	--	59.4	59.4	58.7	57.7	57.6	----	----	724436.0
185	10/10/2018	11:19:46	00d	00:10.0	57.1	67.1	57.9	56.3	--	57.9	57.9	57.3	56.4	56.2	----	----	512861.4
186	10/10/2018	11:19:56	00d	00:10.0	55.3	65.3	56.3	54	--	56.2	56.2	55.7	54.4	53.7	----	----	338844.2
187	10/10/2018	11:20:06	00d	00:10.0	59.6	69.6	62.1	54.6	--	62.5	62.5	59.8	56.2	55.6	----	----	912010.8





164	10/10/2018	11:12:37	00d	00:10.0	57.6	67.6	60.9	55.5	--	60.8	60.8	56.6	55.5	55.3	----	----	575439.9
165	10/10/2018	11:12:47	00d	00:10.0	59.5	69.5	62.3	56.3	--	62.7	62.7	59	56.8	56.1	----	----	891250.9
166	10/10/2018	11:12:57	00d	00:10.0	61.4	71.4	62.9	60.4	--	63	63	61	60.2	60.1	----	----	1380384.3
167	10/10/2018	11:13:07	00d	00:10.0	58.5	68.5	60.8	56.7	--	60.5	60.5	57.8	56.9	56.5	----	----	707945.8
168	10/10/2018	11:13:17	00d	00:10.0	55.3	65.3	56.7	54.4	--	56.2	56.2	55.2	54.5	54.4	----	----	338844.2
169	10/10/2018	11:13:27	00d	00:10.0	57.8	67.8	59.5	55.5	--	59.8	59.8	57.5	55.7	55.4	----	----	602559.6
170	10/10/2018	11:13:37	00d	00:10.0	60.7	70.7	62.1	58.7	--	62.2	62.2	60.9	59.7	57.7	----	----	1174897.6
171	10/10/2018	11:13:47	00d	00:10.0	52.1	62.1	58.7	48.9	--	56.2	56.2	50.9	49.1	48.8	----	----	162181.0
172	10/10/2018	11:13:57	00d	00:10.0	52.3	62.3	56.1	48.4	--	56.7	56.7	51.3	48.6	48.3	----	----	169824.4
173	10/10/2018	11:14:07	00d	00:10.0	56	66	58.6	50.2	--	58.8	58.8	56.6	50.4	49.7	----	----	398107.2
174	10/10/2018	11:14:17	00d	00:10.0	53.1	63.1	55.7	49.3	--	56.2	56.2	53.5	49.3	49.1	----	----	204173.8
175	10/10/2018	11:14:27	00d	00:10.0	55.7	65.7	59.8	50.8	--	60.3	60.3	53.4	50.7	50.2	----	----	371535.2
176	10/10/2018	11:14:37	00d	00:10.0	58.6	68.6	60	55.5	--	59.9	59.9	58.7	56.9	54.1	----	----	724436.0
177	10/10/2018	11:14:47	00d	00:10.0	55.4	65.4	57.6	53.3	--	57.9	57.9	55.3	53.3	53.3	----	----	346736.9
178	10/10/2018	11:14:57	00d	00:10.0	60.6	70.6	61.3	57.6	--	61.2	61.2	60.7	60.3	60.2	----	----	1148153.6
179	10/10/2018	11:15:07	00d	00:10.0	60.3	70.3	61.7	58.3	--	61.5	61.5	61	58.2	58.1	----	----	1071519.3
180	10/10/2018	11:15:17	00d	00:10.0	60.2	70.2	60.6	58.3	--	60.7	60.7	60.3	59.7	59	----	----	1047128.5
181	10/10/2018	11:15:27	00d	00:10.0	55.4	65.4	59.9	53.6	--	58.1	58.1	54.8	53.6	53.3	----	----	346736.9
182	10/10/2018	11:15:37	00d	00:10.0	52.9	62.9	54.5	52.1	--	54.4	54.4	52.7	52.1	52	----	----	194984.5
183	10/10/2018	11:15:47	00d	00:10.0	66.1	76.1	72.3	53.3	--	73.5	73.5	62.2	55.9	55.6	----	----	4073802.8
184	10/10/2018	11:15:57	00d	00:10.0	56.2	66.2	65	54.2	--	59.3	59.3	55.9	54	54	----	----	416869.4
185	10/10/2018	11:16:07	00d	00:10.0	53.2	63.2	56.1	49.9	--	55.4	55.4	53.8	50.6	49.4	----	----	208929.6
186	10/10/2018	11:16:17	00d	00:10.0	51.6	61.6	53	49.7	--	53	53	51.7	50.5	49.8	----	----	144544.0
187	10/10/2018	11:16:27	00d	00:10.0	60	70	61.7	51.5	--	61.8	61.8	60.8	55.6	54.3	----	----	1000000.0
188	10/10/2018	11:16:37	00d	00:10.0	62.6	72.6	64.5	60.1	--	64.5	64.5	62.7	60.2	59.7	----	----	1819700.9
189	10/10/2018	11:16:47	00d	00:10.0	56.1	66.1	60.1	53.6	--	58.5	58.5	56.1	53.7	53.3	----	----	407380.3
190	10/10/2018	11:16:57	00d	00:10.0	56.1	66.1	58	54.7	--	58.5	58.5	55.8	54.6	54.4	----	----	407380.3
191	10/10/2018	11:17:07	00d	00:10.0	57.5	67.5	59.2	55.6	--	59.3	59.3	57.8	55.6	55.4	----	----	562341.3
192	10/10/2018	11:17:17	00d	00:10.0	56.2	66.2	57.7	55.3	--	58	58	55.7	55.5	55.2	----	----	416869.4
193	10/10/2018	11:17:27	00d	00:10.0	56.2	66.2	57.7	55	--	57.5	57.5	56.5	55	54.9	----	----	416869.4
194	10/10/2018	11:17:37	00d	00:10.0	57.4	67.4	58.7	55	--	59	59	57.8	55.3	54.9	----	----	549540.9
195	10/10/2018	11:17:47	00d	00:10.0	57.7	67.7	59.3	55.8	--	59.5	59.5	57.7	56.3	54.9	----	----	588843.7
196	10/10/2018	11:17:57	00d	00:10.0	56.7	66.7	58.8	54.4	--	59.1	59.1	56.9	54.4	54.3	----	----	467735.1
197	10/10/2018	11:18:07	00d	00:10.0	61.7	71.7	64.1	58.8	--	64.2	64.2	61	59.4	59	----	----	1479108.4
198	10/10/2018	11:18:17	00d	00:10.0	59.4	69.4	63.7	57.3	--	62.2	62.2	59.4	58	56.7	----	----	870963.6
199	10/10/2018	11:18:27	00d	00:10.0	53.5	63.5	57.3	51.5	--	56	56	52.2	51.5	51.2	----	----	223872.1
200	10/10/2018	11:18:37	00d	00:10.0	56.8	66.8	59	53.5	--	59.2	59.2	56.8	53.6	52.9	----	----	478630.1
201	10/10/2018	11:18:47	00d	00:10.0	56.5	66.5	59	53.2	--	58.8	58.8	56.3	53	52.8	----	----	446683.6
202	10/10/2018	11:18:57	00d	00:10.0	55.6	65.6	57.3	53	--	57.8	57.8	55.7	53	52.5	----	----	363078.1
203	10/10/2018	11:19:07	00d	00:10.0	54.6	64.6	58	50.1	--	58.4	58.4	55	50	49.7	----	----	288403.2
204	10/10/2018	11:19:17	00d	00:10.0	48.3	58.3	50.1	47.4	--	49.5	49.5	48.1	47.6	47.4	----	----	67608.3
205	10/10/2018	11:19:27	00d	00:10.0	52.4	62.4	55.8	47.5	--	56.5	56.5	50.5	48.5	48	----	----	173780.1
206	10/10/2018	11:19:37	00d	00:10.0	57.5	67.5	58.4	55	--	58.5	58.5	57.5	57.1	55.6	----	----	562341.3
207	10/10/2018	11:19:47	00d	00:10.0	57.8	67.8	58.4	56.7	--	58.7	58.7	57.9	56.9	56.5	----	----	602559.6
208	10/10/2018	11:19:57	00d	00:10.0	61.2	71.2	62.4	58.3	--	62.4	62.4	61.2	60.3	59.4	----	----	1318256.7
209	10/10/2018	11:20:07	00d	00:10.0	59.6	69.6	61	57.3	--	61.1	61.1	60.4	57.3	57.2	----	----	912010.8

PASTE  
HERE  
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Address	Start Time	Measurement Time		Leq	LE	LMAX	LMIN	Ly	LN1	LN2	LN3	LN4	LN5	Over	Under	Inverse Log	Overall Leq
M09																	53.4
52	10/10/2018	11:00:05	00d 00:10.0	53.4	63.4	55.7	51.6	--	56.2	56.2	52.6	51.5	51.4	----	----	218776.2	
53	10/10/2018	11:00:15	00d 00:10.0	53.8	63.8	55.1	51.5	--	55.4	55.4	54.1	51.6	51.6	----	----	239883.3	
54	10/10/2018	11:00:25	00d 00:10.0	54.9	64.9	55.6	54.2	--	55.6	55.6	55	54.4	54	----	----	309029.5	
55	10/10/2018	11:00:35	00d 00:10.0	54	64	54.9	53.6	--	54.4	54.4	53.9	53.6	53.5	----	----	251188.6	
56	10/10/2018	11:00:45	00d 00:10.0	54.2	64.2	54.5	53.7	--	54.6	54.6	54.2	54	53.6	----	----	263026.8	
57	10/10/2018	11:00:55	00d 00:10.0	54.7	64.7	55.9	53.9	--	55.7	55.7	54.7	53.9	53.7	----	----	295120.9	
58	10/10/2018	11:01:05	00d 00:10.0	51.6	61.6	54	50.6	--	52.8	52.8	51.5	50.9	50.5	----	----	144544.0	
59	10/10/2018	11:01:15	00d 00:10.0	49.3	59.3	50.7	48.6	--	50	50	49.2	48.8	48.8	----	----	85113.8	
60	10/10/2018	11:01:25	00d 00:10.0	48.4	58.4	49.8	47.3	--	49.5	49.5	48.5	47.4	47.4	----	----	69183.1	
61	10/10/2018	11:01:35	00d 00:10.0	49.9	59.9	51.7	47.9	--	51.6	51.6	49.5	48.7	48	----	----	97723.7	
62	10/10/2018	11:01:45	00d 00:10.0	51.9	61.9	54.2	49.1	--	54.7	54.7	51.6	49.2	48.9	----	----	154881.7	
63	10/10/2018	11:01:55	00d 00:10.0	53.9	63.9	55.7	51.7	--	55.9	55.9	54.1	51.7	51.2	----	----	245470.9	
64	10/10/2018	11:02:05	00d 00:10.0	51.5	61.5	52.1	50.7	--	52.3	52.3	51.5	50.9	50.7	----	----	141253.8	
65	10/10/2018	11:02:15	00d 00:10.0	51.6	61.6	52.2	51	--	52.2	52.2	51.7	51	50.9	----	----	144544.0	
66	10/10/2018	11:02:25	00d 00:10.0	48.4	58.4	51	47.7	--	49.2	49.2	48.2	47.7	47.6	----	----	69183.1	
67	10/10/2018	11:02:35	00d 00:10.0	49.7	59.7	52.2	47.5	--	52.7	52.7	49.2	47.5	47.4	----	----	93325.4	
68	10/10/2018	11:02:45	00d 00:10.0	54.3	64.3	54.7	52.1	--	54.7	54.7	54.5	54	53.3	----	----	269153.5	
69	10/10/2018	11:02:55	00d 00:10.0	56	66	57	54.5	--	57.3	57.3	55.8	55.3	54.8	----	----	398107.2	
70	10/10/2018	11:03:05	00d 00:10.0	56.4	66.4	58.2	54.7	--	58.3	58.3	56.3	54.9	54.4	----	----	436515.8	
71	10/10/2018	11:03:15	00d 00:10.0	54.4	64.4	55.4	53.1	--	55.4	55.4	54.6	53.1	53.1	----	----	275422.9	
72	10/10/2018	11:03:25	00d 00:10.0	52.9	62.9	53.5	52.4	--	53.6	53.6	53	52.5	52.4	----	----	194984.5	
73	10/10/2018	11:03:35	00d 00:10.0	51.7	61.7	53.2	50.6	--	53.2	53.2	51.1	50.6	50.5	----	----	147910.8	
74	10/10/2018	11:03:45	00d 00:10.0	49.3	59.3	51.2	48.1	--	51.2	51.2	49	48.2	48.1	----	----	85113.8	
75	10/10/2018	11:03:55	00d 00:10.0	48.4	58.4	49.1	47	--	49.1	49.1	48.5	47.6	46.4	----	----	69183.1	
76	10/10/2018	11:04:05	00d 00:10.0	47.2	57.2	47.7	46.1	--	48	48	47.3	46.7	46.3	----	----	52480.7	
77	10/10/2018	11:04:15	00d 00:10.0	49.9	59.9	50.8	47.7	--	50.8	50.8	50.3	48.9	48.4	----	----	97723.7	
78	10/10/2018	11:04:25	00d 00:10.0	50.9	60.9	55.5	47.1	--	56	56	48.7	47	46.7	----	----	123026.9	
79	10/10/2018	11:04:35	00d 00:10.0	50.3	60.3	51	49.9	--	51.4	51.4	50.2	50	49.6	----	----	107151.9	
80	10/10/2018	11:04:45	00d 00:10.0	49.9	59.9	51.1	48.9	--	51	51	50	48.9	48.8	----	----	97723.7	
81	10/10/2018	11:04:55	00d 00:10.0	51	61	51.5	49.9	--	51.6	51.6	50.8	50.4	50.4	----	----	125892.5	
82	10/10/2018	11:05:05	00d 00:10.0	54.3	64.3	55	51.4	--	55.2	55.2	54.7	52.8	52	----	----	269153.5	
83	10/10/2018	11:05:15	00d 00:10.0	55.1	65.1	55.4	54.6	--	55.5	55.5	55.3	54.8	54.8	----	----	323593.7	
84	10/10/2018	11:05:25	00d 00:10.0	54.6	64.6	55.3	54.1	--	55	55	54.7	54.1	54.1	----	----	288403.2	
85	10/10/2018	11:05:35	00d 00:10.0	52.9	62.9	54.8	51.8	--	54.2	54.2	53	51.8	51.7	----	----	194984.5	
86	10/10/2018	11:05:45	00d 00:10.0	50.1	60.1	51.8	48.9	--	51.7	51.7	49.2	49	48.8	----	----	102329.3	
87	10/10/2018	11:05:55	00d 00:10.0	51.3	61.3	53.1	49.5	--	53.5	53.5	50.6	49.6	49.3	----	----	134896.3	
88	10/10/2018	11:06:05	00d 00:10.0	53	63	56.5	50.3	--	56.8	56.8	51.3	50.4	50.2	----	----	199526.2	
89	10/10/2018	11:06:15	00d 00:10.0	50.9	60.9	51.7	49.8	--	51.7	51.7	51	50	49.7	----	----	123026.9	
90	10/10/2018	11:06:25	00d 00:10.0	51.6	61.6	53	49.6	--	53.4	53.4	52	50	49.7	----	----	144544.0	
91	10/10/2018	11:06:35	00d 00:10.0	50.9	60.9	53.4	47.7	--	53.3	53.3	50.4	47.9	47.4	----	----	123026.9	
92	10/10/2018	11:06:45	00d 00:10.0	48.5	58.5	49.6	47.3	--	50	50	48.6	47.4	47.3	----	----	70794.6	
93	10/10/2018	11:06:55	00d 00:10.0	52	62	53.3	49.3	--	53.8	53.8	52.2	49.5	49.5	----	----	158489.3	
94	10/10/2018	11:07:05	00d 00:10.0	52.7	62.7	53.5	51.9	--	53.6	53.6	52.8	52.1	51.6	----	----	186208.7	
95	10/10/2018	11:07:15	00d 00:10.0	51.8	61.8	52.7	51	--	52.9	52.9	51.5	51	50.9	----	----	151356.1	
96	10/10/2018	11:07:25	00d 00:10.0	52.6	62.6	54.6	51.3	--	55	55	52.2	51.8	51	----	----	181970.1	
97	10/10/2018	11:07:35	00d 00:10.0	53.4	63.4	54	52.7	--	54	54	53.6	53	52.6	----	----	218776.2	
98	10/10/2018	11:07:45	00d 00:10.0	52.9	62.9	53.7	52.4	--	53.4	53.4	52.8	52.5	52.5	----	----	194984.5	
99	10/10/2018	11:07:55	00d 00:10.0	52.7	62.7	53.2	51.7	--	53.3	53.3	53	51.6	51.5	----	----	186208.7	
100	10/10/2018	11:08:05	00d 00:10.0	50.3	60.3	51.7	49.8	--	50.9	50.9	50.4	50	49.7	----	----	107151.9	
101	10/10/2018	11:08:15	00d 00:10.0	50.2	60.2	50.5	49.9	--	50.5	50.5	50.3	50	49.8	----	----	104712.9	
102	10/10/2018	11:08:25	00d 00:10.0	51.3	61.3	52.2	49.7	--	52.4	52.4	51	50.5	49.7	----	----	134896.3	
103	10/10/2018	11:08:35	00d 00:10.0	52.6	62.6	54.3	51.3	--	54.5	54.5	52	51.5	51.3	----	----	181970.1	
104	10/10/2018	11:08:45	00d 00:10.0	55	65	55.6	54.2	--	55.8	55.8	55	54.5	54.3	----	----	316227.8	
105	10/10/2018	11:08:55	00d 00:10.0	54.1	64.1	54.6	53.4	--	54.7	54.7	54.1	53.7	53.2	----	----	257039.6	
106	10/10/2018	11:09:05	00d 00:10.0	53.9	63.9	54.8	53.1	--	55	55	54	53.2	53.1	----	----	245470.9	
107	10/10/2018	11:09:15	00d 00:10.0	54.1	64.1	55	53	--	55.2	55.2	54.2	53.1	53	----	----	257039.6	
108	10/10/2018	11:09:25	00d 00:10.0	55	65	55.6	54.3	--	55.6	55.6	55.1	54.4	54.2	----	----	316227.8	
109	10/10/2018	11:09:35	00d 00:10.0	54.9	64.9	55.4	54.5	--	55.6	55.6	55	54.5	54.3	----	----	309029.5	
110	10/10/2018	11:09:45	00d 00:10.0	54.5	64.5	55.3	53.9	--	55.5	55.5	54.4	54	53.9	----	----	281838.3	
111	10/10/2018	11:09:55	00d 00:10.0	54.4	64.4	55	53.7	--	55.3	55.3	54.4	53.8	53.7	----	----	275422.9	
112	10/10/2018	11:10:05	00d 00:10.0	58.7	68.7	61	54.9	--	61.2	61.2	58.7	56.2	55.1	----	----	741310.2	
113	10/10/2018	11:10:15	00d 00:10.0	55.9	65.9	60.8	53.1	--	58.9	58.9	55	53.4	52.7	----	----	389045.1	
114	10/10/2018	11:10:25	00d 00:10.0	51.6	61.6	52.6	50.8	--	52.6	52.6	51.5	51.1	50.6	----	----	144544.0	
115	10/10/2018	11:10:35	00d 00:10.0	50.7	60.7	51.2	50.2	--	51.3	51.3	50.6	50.4	50.1	----	----	117489.8	
116	10/10/2018	11:10:45	00d 00:10.0	49.8	59.8	51	48.8	--	5								

127	10/10/2018	11:12:35	00d	00:10.0	56.3	66.3	57.4	55.3	--	57.6	57.6	56.1	55.4	55.3	----	----	426579.5
128	10/10/2018	11:12:45	00d	00:10.0	58.1	68.1	59	57.2	--	58.7	58.7	58.2	57.4	57.2	----	----	645654.2
129	10/10/2018	11:12:55	00d	00:10.0	55.7	65.7	58.4	53.6	--	58.2	58.2	55.5	54.1	53.9	----	----	371535.2
130	10/10/2018	11:13:05	00d	00:10.0	53.1	63.1	54.4	52.1	--	54.2	54.2	53.3	52.3	52.1	----	----	204173.8
131	10/10/2018	11:13:15	00d	00:10.0	54	64	55.7	52.3	--	55.8	55.8	53.9	53.1	51.7	----	----	251188.6
132	10/10/2018	11:13:25	00d	00:10.0	55.7	65.7	57.8	54.1	--	58	58	55.8	54.1	53.8	----	----	371535.2
133	10/10/2018	11:13:35	00d	00:10.0	55.2	65.2	57.5	53.5	--	57.3	57.3	55.4	53.1	52.6	----	----	331131.1
134	10/10/2018	11:13:45	00d	00:10.0	54.7	64.7	56.1	53.4	--	56.2	56.2	54.7	53.2	53.2	----	----	295120.9
135	10/10/2018	11:13:55	00d	00:10.0	52.9	62.9	55.5	50.1	--	55.2	55.2	52.2	51.5	49.7	----	----	194984.5
136	10/10/2018	11:14:05	00d	00:10.0	51.8	61.8	53.7	49.8	--	53.7	53.7	52	49.1	48.5	----	----	151356.1
137	10/10/2018	11:14:15	00d	00:10.0	53.5	63.5	56.5	50.7	--	56.4	56.4	53.3	51.4	50.9	----	----	223872.1
138	10/10/2018	11:14:25	00d	00:10.0	52.8	62.8	54.9	50.4	--	54.6	54.6	52.9	50.1	49.3	----	----	190546.1
139	10/10/2018	11:14:35	00d	00:10.0	53.3	63.3	55.6	50.8	--	56.4	56.4	52.7	51.5	50.2	----	----	213796.2
140	10/10/2018	11:14:45	00d	00:10.0	56.2	66.2	57.3	54	--	57.3	57.3	56.6	54.7	53.9	----	----	416869.4
141	10/10/2018	11:14:55	00d	00:10.0	56.1	66.1	57.2	55.3	--	57.3	57.3	56	55.4	55.3	----	----	407380.3
142	10/10/2018	11:15:05	00d	00:10.0	56.1	66.1	56.8	55.3	--	57.2	57.2	56.3	55.4	55	----	----	407380.3
143	10/10/2018	11:15:15	00d	00:10.0	55.7	65.7	56.9	54.8	--	56.3	56.3	55.6	55.1	54.6	----	----	371535.2
144	10/10/2018	11:15:25	00d	00:10.0	54.3	64.3	55.7	53.3	--	55.4	55.4	54.4	53.5	52.8	----	----	269153.5
145	10/10/2018	11:15:35	00d	00:10.0	52.8	62.8	54.5	51.5	--	54.5	54.5	52.5	51.5	51.3	----	----	190546.1
146	10/10/2018	11:15:45	00d	00:10.0	51.2	61.2	52.5	50.7	--	51.6	51.6	51.3	50.8	50.6	----	----	131825.7
147	10/10/2018	11:15:55	00d	00:10.0	53.7	63.7	55.6	51.2	--	55.9	55.9	53.5	51.7	51.5	----	----	234422.9
148	10/10/2018	11:16:05	00d	00:10.0	55.2	65.2	58.4	51.3	--	58.5	58.5	53.7	51.3	51	----	----	331131.1
149	10/10/2018	11:16:15	00d	00:10.0	50.7	60.7	57	46.2	--	58	58	47.6	46	45.4	----	----	117489.8
150	10/10/2018	11:16:25	00d	00:10.0	46.5	56.5	49.4	44.8	--	49	49	46	44.7	44.5	----	----	44668.4
151	10/10/2018	11:16:35	00d	00:10.0	51.3	61.3	54.1	45.8	--	54.4	54.4	50.5	46.7	45.7	----	----	134896.3
152	10/10/2018	11:16:45	00d	00:10.0	55.7	65.7	56.9	54.1	--	57.1	57.1	55.8	54.5	54.2	----	----	371535.2
153	10/10/2018	11:16:55	00d	00:10.0	56.1	66.1	57.9	54.9	--	57.7	57.7	55.4	54.9	54.8	----	----	407380.3
154	10/10/2018	11:17:05	00d	00:10.0	54.2	64.2	55	53.4	--	55	55	54.3	53.6	53.2	----	----	263026.8
155	10/10/2018	11:17:15	00d	00:10.0	53.8	63.8	55	53	--	54.9	54.9	53.6	53.2	52.9	----	----	239883.3
156	10/10/2018	11:17:25	00d	00:10.0	51	61	53.7	49.5	--	52.5	52.5	50.5	49.6	49.2	----	----	125892.5
157	10/10/2018	11:17:35	00d	00:10.0	49.4	59.4	50.9	48.7	--	51.3	51.3	49.1	48.8	48.4	----	----	87096.4
158	10/10/2018	11:17:45	00d	00:10.0	51.7	61.7	52.5	49.6	--	52.5	52.5	52.1	50	49.8	----	----	147910.8
159	10/10/2018	11:17:55	00d	00:10.0	52.1	62.1	52.7	51.5	--	52.8	52.8	52	51.6	51.5	----	----	162181.0
160	10/10/2018	11:18:05	00d	00:10.0	51.8	61.8	52.6	51.2	--	52.6	52.6	51.8	51.3	50.9	----	----	151356.1
161	10/10/2018	11:18:15	00d	00:10.0	53.3	63.3	53.9	51.6	--	53.8	53.8	53.6	52.1	52.1	----	----	213796.2
162	10/10/2018	11:18:25	00d	00:10.0	53.3	63.3	54.1	52.8	--	54.1	54.1	53.4	52.8	52.8	----	----	213796.2
163	10/10/2018	11:18:35	00d	00:10.0	53.6	63.6	54.3	52.6	--	54.7	54.7	53.6	52.8	52.5	----	----	229086.8
164	10/10/2018	11:18:45	00d	00:10.0	53.7	63.7	56.1	51.8	--	56.1	56.1	53.1	52.3	50.9	----	----	234422.9
165	10/10/2018	11:18:55	00d	00:08.3	57	66.2	60.6	52.4	--	60.3	60.3	56.2	52.4	52.4	----	----	501187.2

PASTE  
HERE  
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Address	Start Time	Measurement Time		Leq	LE	LMAX	LMIN	Ly	LN1	LN2	LN3	LN4	LN5	Over	Under	Inverse Log	Overall Leq
M10																	55.6
54	10/10/2018	10:15:06	00d 00:10.0	64	74	66.3	58.9	--	66.9	66.9	64.3	59	58	----	----	2511886.4	
55	10/10/2018	10:15:16	00d 00:10.0	58.3	68.3	60.1	57.2	--	60.3	60.3	57.6	57.1	57	----	----	676083.0	
56	10/10/2018	10:15:26	00d 00:10.0	59.4	69.4	62.2	55.5	--	62.5	62.5	59.5	54.4	53.9	----	----	870963.6	
57	10/10/2018	10:15:36	00d 00:10.0	53.3	63.3	55.5	52.9	--	53.5	53.5	53	53	52.9	----	----	213796.2	
58	10/10/2018	10:15:46	00d 00:10.0	52.1	62.1	53.2	51.1	--	53.5	53.5	52	51.3	51.2	----	----	162181.0	
59	10/10/2018	10:15:56	00d 00:10.0	54.9	64.9	55.6	53.2	--	55.7	55.7	54.9	54.3	54.1	----	----	309029.5	
60	10/10/2018	10:16:06	00d 00:10.0	53.4	63.4	54.3	52.6	--	54.4	54.4	53.6	52.7	52.6	----	----	218776.2	
61	10/10/2018	10:16:16	00d 00:10.0	54.7	64.7	55.2	54	--	55.2	55.2	54.9	54.1	53.8	----	----	295120.9	
62	10/10/2018	10:16:26	00d 00:10.0	54	64	55.4	52.2	--	55.7	55.7	53.9	52.2	51.9	----	----	251188.6	
63	10/10/2018	10:16:36	00d 00:10.0	50.1	60.1	52.2	49.6	--	51	51	50	49.8	49.5	----	----	102329.3	
64	10/10/2018	10:16:46	00d 00:10.0	49.1	59.1	50.2	48.1	--	50.4	50.4	49.2	48.2	47.9	----	----	81283.1	
65	10/10/2018	10:16:56	00d 00:10.0	46.3	56.3	48.6	44.9	--	48.3	48.3	46.4	44.9	44.9	----	----	42658.0	
66	10/10/2018	10:17:06	00d 00:10.0	48.6	58.6	51.1	45	--	51.3	51.3	48.2	45.4	45.1	----	----	72443.6	
67	10/10/2018	10:17:16	00d 00:10.0	52.9	62.9	55	51	--	55.5	55.5	52.3	51.3	51.2	----	----	194984.5	
68	10/10/2018	10:17:26	00d 00:10.0	56.8	66.8	57.4	55	--	57.4	57.4	56.7	56.3	56.1	----	----	478630.1	
69	10/10/2018	10:17:36	00d 00:10.0	57.1	67.1	57.5	56.6	--	57.6	57.6	57	56.9	56.7	----	----	512861.4	
70	10/10/2018	10:17:46	00d 00:10.0	56.5	66.5	57.6	55.2	--	57.6	57.6	56.9	55.3	55.2	----	----	446683.6	
71	10/10/2018	10:17:56	00d 00:10.0	53.2	63.2	55.3	51.9	--	54.8	54.8	52.8	52	52	----	----	208929.6	
72	10/10/2018	10:18:06	00d 00:10.0	50.3	60.3	52.3	49.3	--	51.5	51.5	49.8	49.4	49.3	----	----	107151.9	
73	10/10/2018	10:18:16	00d 00:10.0	48	58	49.5	47.1	--	49	49	47.9	47.5	47.1	----	----	63095.7	
74	10/10/2018	10:18:26	00d 00:10.0	51.3	61.3	53.7	47.1	--	53.9	53.9	51.4	47.3	47.2	----	----	134896.3	
75	10/10/2018	10:18:36	00d 00:10.0	54.1	64.1	54.5	53.6	--	54.6	54.6	54.1	53.8	53.8	----	----	257039.6	
76	10/10/2018	10:18:46	00d 00:10.0	52.7	62.7	54	51.8	--	53.7	53.7	52.8	52.3	51.3	----	----	186208.7	
77	10/10/2018	10:18:56	00d 00:10.0	49.2	59.2	51.8	47.5	--	51.2	51.2	48.9	47.7	47.3	----	----	83176.4	
78	10/10/2018	10:19:06	00d 00:10.0	45.3	55.3	47.5	44.6	--	46.3	46.3	45.1	44.7	44.5	----	----	33884.4	
79	10/10/2018	10:19:16	00d 00:10.0	50	60	53.1	45.9	--	53.5	53.5	49.3	47.4	46.9	----	----	100000.0	
80	10/10/2018	10:19:26	00d 00:10.0	58.2	68.2	59.6	53	--	59.8	59.8	58.4	56.9	54.7	----	----	660693.4	
81	10/10/2018	10:19:36	00d 00:10.0	57.7	67.7	58.4	57	--	58.3	58.3	58	57.1	56.6	----	----	588843.7	
82	10/10/2018	10:19:46	00d 00:10.0	58.4	68.4	59.8	57	--	60.1	60.1	58.3	57.3	57	----	----	691831.0	
83	10/10/2018	10:19:56	00d 00:10.0	65	75	68.9	58.6	--	68.6	68.6	64.6	59.1	59	----	----	3162277.7	
84	10/10/2018	10:20:06	00d 00:10.0	58.2	68.2	64.3	56.2	--	59.8	59.8	58.2	56.4	56	----	----	660693.4	
85	10/10/2018	10:20:16	00d 00:10.0	54.1	64.1	56.6	51.3	--	56.7	56.7	54.3	51.3	51.1	----	----	257039.6	
86	10/10/2018	10:20:26	00d 00:10.0	53	63	56.4	50.8	--	56.1	56.1	52.9	50.7	50.7	----	----	199526.2	
87	10/10/2018	10:20:36	00d 00:10.0	54.7	64.7	55.3	51.6	--	55.5	55.5	54.9	53.5	52.9	----	----	295120.9	
88	10/10/2018	10:20:46	00d 00:10.0	51.8	61.8	54.5	49.7	--	53.3	53.3	52	49.7	49.4	----	----	151356.1	
89	10/10/2018	10:20:56	00d 00:10.0	48.2	58.2	49.8	46.2	--	49.5	49.5	48.5	46.8	45.8	----	----	66069.3	
90	10/10/2018	10:21:06	00d 00:10.0	46.8	56.8	47.6	45.7	--	47.8	47.8	46.9	46.1	45.4	----	----	47863.0	
91	10/10/2018	10:21:16	00d 00:10.0	47.7	57.7	48.3	46.9	--	48.5	48.5	47.8	47.2	47	----	----	58884.4	
92	10/10/2018	10:21:26	00d 00:10.0	46	56	48.4	43.6	--	48	48	46.1	43.9	43.3	----	----	39810.7	
93	10/10/2018	10:21:36	00d 00:10.0	44.2	54.2	46.1	42.9	--	46.5	46.5	43.8	43	42.7	----	----	26302.7	
94	10/10/2018	10:21:46	00d 00:10.0	52.1	62.1	53.6	46.1	--	53.8	53.8	52.8	49.7	48.2	----	----	162181.0	
95	10/10/2018	10:21:56	00d 00:10.0	54.9	64.9	56.5	53.4	--	56.7	56.7	54.9	53.6	53.3	----	----	309029.5	
96	10/10/2018	10:22:06	00d 00:10.0	57	67	57.7	56.2	--	57.8	57.8	57.2	56.1	56.1	----	----	501187.2	
97	10/10/2018	10:22:16	00d 00:10.0	56.4	66.4	57.4	55.6	--	57.5	57.5	56.6	55.6	55.5	----	----	436515.8	
98	10/10/2018	10:22:26	00d 00:10.0	56.8	66.8	57.3	56.2	--	57.3	57.3	57.1	56.4	56.2	----	----	478630.1	
99	10/10/2018	10:22:36	00d 00:10.0	58.1	68.1	59.3	56.1	--	59.4	59.4	58.5	56.7	56	----	----	645654.2	
100	10/10/2018	10:22:46	00d 00:10.0	55.6	65.6	58.9	53.1	--	57.4	57.4	55.4	53.4	52.9	----	----	363078.1	
101	10/10/2018	10:22:56	00d 00:10.0	51.9	61.9	53.2	51.4	--	52.5	52.5	51.9	51.3	51.3	----	----	154881.7	
102	10/10/2018	10:23:06	00d 00:10.0	52.7	62.7	53	52	--	53.2	53.2	52.6	52.6	52.5	----	----	186208.7	
103	10/10/2018	10:23:16	00d 00:10.0	51.4	61.4	52.6	50.1	--	52.4	52.4	51.6	50.5	49.9	----	----	138038.4	
104	10/10/2018	10:23:26	00d 00:10.0	48.5	58.5	50.1	47.8	--	49.6	49.6	48.5	47.6	47.5	----	----	70794.6	
105	10/10/2018	10:23:36	00d 00:10.0	50.4	60.4	51	48.4	--	51.2	51.2	50.7	49.2	48.6	----	----	109647.8	
106	10/10/2018	10:23:46	00d 00:10.0	52.9	62.9	56.3	50.2	--	56.8	56.8	51.9	50.5	50.5	----	----	194984.5	
107	10/10/2018	10:23:56	00d 00:10.0	57.2	67.2	58.1	56.2	--	58.3	58.3	57.2	56.6	55.9	----	----	524807.5	
108	10/10/2018	10:24:06	00d 00:10.0	55.3	65.3	56.7	54.4	--	56.2	56.2	55.5	54.4	54.2	----	----	338844.2	
109	10/10/2018	10:24:16	00d 00:10.0	55.5	65.5	55.8	55.2	--	55.8	55.8	55.5	55.1	55.1	----	----	354813.4	
110	10/10/2018	10:24:26	00d 00:10.0	55.2	65.2	56.2	54.4	--	56.5	56.5	55	54.6	54.3	----	----	331131.1	
111	10/10/2018	10:24:36	00d 00:10.0	57	67	58.1	55.2	--	58.1	58.1	57.4	55.3	55.3	----	----	501187.2	
112	10/10/2018	10:24:46	00d 00:10.0	56.8	66.8	58.2	55	--	58.3	58.3	56.8	55	54.9	----	----	478630.1	
113	10/10/2018	10:24:56	00d 00:10.0	56.1	66.1	57.9	53.5	--	57.8	57.8	55.8	54.2	52.7	----	----	407380.3	
114	10/10/2018	10:25:06	00d 00:10.0	52.2	62.2	53.5	51.5	--	53.3	53.3	52.3	51.7	51.2	----	----	165958.7	
115	10/10/2018	10:25:16	00d 00:10.0	49.7	59.7	51.5	47.6	--	50.6	50.6	50.2	48.2	47	----	----	93325.4	
116	10/10/2018	10:25:26	00d 00:10.0	51.5	61.5	54	47.6	--	54.3	54.3	51.6	47.8	47.7	----	----	141253.8	
117	10/10/2018	10:25:36	00d 00:10.0	54.3	64.3	54.8	53.5	--	54.9	54.9	54.5	53.6	53.4	----	----	269153.5	
118	10/10/2018	10:25:46	00d 00:10.0	51.5	61.5	53.5	50.3	--	52.8	52.8	51.4	50.3	50.3	----	----	141253.8	
119	10/10/2018	10:25:56	00d 00:10.0	48.6	58.6	50.6	46.4	--	50.4	50.4	49	46.8	46.1	----	----	72443.6	
120	10/10/2018	10:26:06	00d 00:10.0	46.5	56.5	47.7	45.4	--	47.8	47.8	46.7	45.4	45.2	----	----	44668.4	
121	10/10/2018	10:26:16	00d 00:10.0	48.9	58.9	50.5	45.5	--	50.8	50.8	49	47.1	46.4	----	----	77624.7	
122	10/10/2018	10:26:26	00d 00:10.0	57.1	67.1	58.9	50.5	--	58.9	58.9	58.1	52.5	51.7	----	----	512861.4	
123	10/10/2018	10:26:36	00d 00:10.0	58.8	68.8	60.2	57	--	60.7	60.7	59.1	57	56.8	----	----	758577.6	
124	10/10/2018	10:26:46	00d 00:10.0	58.5	68.5	60.5	56.5	--	60.7	60.7	58.3	56.5	56.3	----	----	707945.8	
125	10/10/2018	10:26:56	00d 00:10.0	55.9	65.9	56.5	55.1	--	56.6	56.6	56	55.4	54.9	----	----	389045.1	

129	10/10/2018	10:27:36	00d	00:10.0	53	63	53.6	50.7	--	53.7	53.7	53.1	52.5	51.5	----	----	199526.2
130	10/10/2018	10:27:46	00d	00:10.0	53.6	63.6	55	52.7	--	55.1	55.1	53.5	52.9	52.7	----	----	229086.8
131	10/10/2018	10:27:56	00d	00:10.0	55.1	65.1	56.2	54.1	--	56.7	56.7	55	54.4	53.9	----	----	323593.7
132	10/10/2018	10:28:06	00d	00:10.0	58.3	68.3	61.2	51.2	--	61.9	61.9	58.4	50.7	50.4	----	----	676083.0
133	10/10/2018	10:28:16	00d	00:10.0	48.5	58.5	51.2	47.8	--	49.1	49.1	48.5	47.9	47.8	----	----	70794.6
134	10/10/2018	10:28:26	00d	00:10.0	48.7	58.7	49.7	47.6	--	49.7	49.7	48.6	47.9	47.5	----	----	74131.0
135	10/10/2018	10:28:36	00d	00:10.0	51.9	61.9	53.8	49.6	--	54	54	51.4	50	49.9	----	----	154881.7
136	10/10/2018	10:28:46	00d	00:10.0	55.7	65.7	56.3	53.8	--	56.4	56.4	56	54.8	54.7	----	----	371535.2
137	10/10/2018	10:28:56	00d	00:10.0	56.8	66.8	57	56.2	--	57.1	57.1	56.9	56.4	56	----	----	478630.1
138	10/10/2018	10:29:06	00d	00:10.0	56.9	66.9	57.7	55	--	58	58	57.2	55.5	54.5	----	----	489778.8
139	10/10/2018	10:29:16	00d	00:10.0	53.9	63.9	55	52.5	--	54.6	54.6	54.4	52.6	52.4	----	----	245470.9
140	10/10/2018	10:29:26	00d	00:10.0	51.7	61.7	52.5	51.4	--	52.3	52.3	51.6	51.3	51.3	----	----	147910.8
141	10/10/2018	10:29:36	00d	00:10.0	55.3	65.3	58.5	50.6	--	59.3	59.3	52.2	51.1	50.3	----	----	338844.2
142	10/10/2018	10:29:46	00d	00:10.0	56.3	66.3	61.4	52	--	62.5	62.5	53.8	51.9	51.6	----	----	426579.5
143	10/10/2018	10:29:56	00d	00:10.0	51.6	61.6	52.4	50.7	--	52.4	52.4	51.8	50.7	50.7	----	----	144544.0
144	10/10/2018	10:30:06	00d	00:10.0	51.1	61.1	52	49.3	--	52.2	52.2	51.1	49.7	48.8	----	----	128825.0
145	10/10/2018	10:30:16	00d	00:10.0	49.3	59.3	50.1	48.6	--	50.3	50.3	49.2	48.6	48.5	----	----	85113.8
146	10/10/2018	10:30:26	00d	00:10.0	49.1	59.1	50.1	47.6	--	49.9	49.9	49.3	47.8	47.7	----	----	81283.1
147	10/10/2018	10:30:36	00d	00:10.0	48.1	58.1	50	47.6	--	49.4	49.4	48	47.4	47.2	----	----	64565.4
148	10/10/2018	10:30:46	00d	00:10.0	50.5	60.5	53	47.1	--	53.3	53.3	50.7	48.2	47	----	----	112201.8
149	10/10/2018	10:30:56	00d	00:10.0	54	64	55.7	52.8	--	56.5	56.5	53.9	52.7	52.5	----	----	251188.6
150	10/10/2018	10:31:06	00d	00:10.0	56.7	66.7	57.2	54.1	--	57.4	57.4	56.9	55.8	54.9	----	----	467735.1
151	10/10/2018	10:31:16	00d	00:10.0	55.7	65.7	57	54.9	--	57	57	55.3	55	54.7	----	----	371535.2
152	10/10/2018	10:31:26	00d	00:10.0	56.7	66.7	58	54.5	--	58.1	58.1	56.5	55.2	54.6	----	----	467735.1
153	10/10/2018	10:31:36	00d	00:10.0	55.6	65.6	56.4	54.6	--	56.6	56.6	56	54.7	54	----	----	363078.1
154	10/10/2018	10:31:46	00d	00:10.0	52.7	62.7	56.5	49.7	--	56.7	56.7	51.8	50.3	49.4	----	----	186208.7
155	10/10/2018	10:31:56	00d	00:10.0	50.7	60.7	51.6	48.9	--	51.7	51.7	50.9	49.3	48.8	----	----	117489.8
156	10/10/2018	10:32:06	00d	00:10.0	51.7	61.7	52.3	51.1	--	52.6	52.6	51.7	51.2	51	----	----	147910.8
157	10/10/2018	10:32:16	00d	00:10.0	54.2	64.2	55.3	52.3	--	55.4	55.4	54.6	52.6	52.4	----	----	263026.8
158	10/10/2018	10:32:26	00d	00:10.0	54.3	64.3	55.5	53.1	--	55.5	55.5	54.6	53.2	53	----	----	269153.5
159	10/10/2018	10:32:36	00d	00:10.0	51.6	61.6	53.1	50.6	--	52.5	52.5	51.5	51	50.2	----	----	144544.0
160	10/10/2018	10:32:46	00d	00:10.0	49.3	59.3	50.6	48.5	--	50.3	50.3	49.3	48.7	48.3	----	----	85113.8
161	10/10/2018	10:32:56	00d	00:10.0	48.7	58.7	49.4	47.9	--	49.7	49.7	48.8	47.9	47.8	----	----	74131.0
162	10/10/2018	10:33:06	00d	00:10.0	48.6	58.6	49.3	48.3	--	49.1	49.1	48.7	48.3	48.1	----	----	72443.6
163	10/10/2018	10:33:16	00d	00:10.0	47	57	48.5	46.1	--	48.2	48.2	46.6	46.1	46.1	----	----	50118.7
164	10/10/2018	10:33:26	00d	00:10.0	46.2	56.2	47	45.5	--	47.1	47.1	46.1	45.6	45.5	----	----	41686.9
165	10/10/2018	10:33:36	00d	00:10.0	52.8	62.8	55.1	47	--	55.3	55.3	53.3	48.5	47.9	----	----	190546.1
166	10/10/2018	10:33:46	00d	00:10.0	58.5	68.5	59.9	55.1	--	60	60	59.2	56.2	55.9	----	----	707945.8
167	10/10/2018	10:33:56	00d	00:10.0	61.8	71.8	65.5	58.7	--	65.8	65.8	59.7	58.8	58.7	----	----	1513561.2
168	10/10/2018	10:34:06	00d	00:10.0	67.4	77.4	70.7	61.6	--	71.3	71.3	66.5	61.4	60.8	----	----	5495408.7
169	10/10/2018	10:34:16	00d	00:10.0	56.3	66.3	61.6	51.9	--	60.6	60.6	55.6	52.1	51.7	----	----	426579.5
170	10/10/2018	10:34:26	00d	00:10.0	50.5	60.5	51.9	49.9	--	51.1	51.1	50.7	50	49.9	----	----	112201.8
171	10/10/2018	10:34:36	00d	00:10.0	52.9	62.9	55.3	49.6	--	55.8	55.8	52.4	49.9	49.5	----	----	194984.5
172	10/10/2018	10:34:46	00d	00:10.0	55.5	65.5	55.9	54.8	--	55.9	55.9	55.7	55	54.6	----	----	354813.4
173	10/10/2018	10:34:56	00d	00:10.0	53.4	63.4	55	52.2	--	54.3	54.3	53.5	52.4	52.4	----	----	218776.2
174	10/10/2018	10:35:06	00d	00:10.0	54.4	64.4	55.2	53	--	55.6	55.6	54.5	53.1	52.7	----	----	275422.9

PASTE  
HERE  
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Address	Start Time	Measurement Time		Leq	LE	LMAX	LMIN	Ly	LN1	LN2	LN3	LN4	LN5	Over	Under	Inverse Log	Overall Leq
M11																	56.7
74	10/10/2018	10:15:00	00d 00:10.0	60	70	65	58.7	--	62.1	62.1	59.8	58.9	58.8	----	----	1000000.0	
75	10/10/2018	10:15:10	00d 00:10.0	58.6	68.6	60.5	56	--	60.1	60.1	59.4	56	55.7	----	----	724436.0	
76	10/10/2018	10:15:20	00d 00:10.0	52.6	62.6	56.2	48.7	--	56.3	56.3	50.8	48.8	48.2	----	----	181970.1	
77	10/10/2018	10:15:30	00d 00:10.0	47.6	57.6	48.7	46.9	--	48.1	48.1	47.7	46.9	46.7	----	----	57544.0	
78	10/10/2018	10:15:40	00d 00:10.0	54.8	64.8	58.2	48	--	58.9	58.9	54.3	50.4	49.3	----	----	301995.2	
79	10/10/2018	10:15:50	00d 00:10.0	57.3	67.3	58.7	55.5	--	59	59	57.8	55.6	55	----	----	537031.8	
80	10/10/2018	10:16:00	00d 00:10.0	56.6	66.6	57.8	56	--	58.1	58.1	56.3	56	56	----	----	457088.2	
81	10/10/2018	10:16:10	00d 00:10.0	57.2	67.2	58.9	54	--	59.2	59.2	57.7	54.5	53.3	----	----	524807.5	
82	10/10/2018	10:16:20	00d 00:10.0	55.2	65.2	56.7	52.9	--	56.8	56.8	55.8	53	52.7	----	----	331131.1	
83	10/10/2018	10:16:30	00d 00:10.0	57.2	67.2	58.5	54.4	--	58.7	58.7	57.7	54.3	54.3	----	----	524807.5	
84	10/10/2018	10:16:40	00d 00:10.0	55.3	65.3	58.4	48.4	--	58.5	58.5	54.3	48.6	47.7	----	----	338844.2	
85	10/10/2018	10:16:50	00d 00:10.0	47.4	57.4	49.5	45.7	--	49.7	49.7	46.8	45.9	45.7	----	----	54954.1	
86	10/10/2018	10:17:00	00d 00:10.0	51.2	61.2	52.3	49.4	--	52.4	52.4	51.2	50.2	49.6	----	----	131825.7	
87	10/10/2018	10:17:10	00d 00:10.0	56.4	66.4	57.6	52.2	--	57.7	57.7	56.8	54.5	53.6	----	----	436515.8	
88	10/10/2018	10:17:20	00d 00:10.0	55.8	65.8	57	55.3	--	56.2	56.2	55.9	55.4	55.4	----	----	380189.4	
89	10/10/2018	10:17:30	00d 00:10.0	57.1	67.1	58	55.5	--	58.3	58.3	57	56.1	55.6	----	----	512861.4	
90	10/10/2018	10:17:40	00d 00:10.0	51.1	61.1	56.8	47.7	--	55.6	55.6	48.9	47.6	47.5	----	----	128825.0	
91	10/10/2018	10:17:50	00d 00:10.0	48.5	58.5	50	46	--	50.2	50.2	49.2	46.2	45.7	----	----	70794.6	
92	10/10/2018	10:18:00	00d 00:10.0	47.3	57.3	48.5	45.3	--	48.7	48.7	48.1	45.6	44.6	----	----	53703.2	
93	10/10/2018	10:18:10	00d 00:10.0	52.6	62.6	55	44.8	--	55.2	55.2	53.8	45.5	44.5	----	----	181970.1	
94	10/10/2018	10:18:20	00d 00:10.0	53.9	63.9	55	53.1	--	54.9	54.9	54	52.9	52.9	----	----	245470.9	
95	10/10/2018	10:18:30	00d 00:10.0	53.5	63.5	54.9	52.1	--	55.3	55.3	53.5	52.1	52	----	----	223872.1	
96	10/10/2018	10:18:40	00d 00:10.0	54.9	64.9	56.6	50.7	--	56.7	56.7	55.7	50.8	50.2	----	----	309029.5	
97	10/10/2018	10:18:50	00d 00:10.0	48.2	58.2	50.7	47.4	--	49.8	49.8	47.9	47.3	47.2	----	----	66069.3	
98	10/10/2018	10:19:00	00d 00:10.0	49.2	59.2	51.4	47.4	--	51.8	51.8	48.7	47.8	47.8	----	----	83176.4	
99	10/10/2018	10:19:10	00d 00:10.0	56.7	66.7	58.4	51.3	--	58.7	58.7	57.1	53.5	52.3	----	----	467735.1	
100	10/10/2018	10:19:20	00d 00:10.0	58.3	68.3	59.8	57.1	--	59.8	59.8	57.7	57.2	57.1	----	----	676083.0	
101	10/10/2018	10:19:30	00d 00:10.0	59.1	69.1	61.7	57.8	--	62.1	62.1	58.6	57.9	57.7	----	----	812830.5	
102	10/10/2018	10:19:40	00d 00:10.0	62.6	72.6	67.4	57.4	--	68.5	68.5	61.4	56.8	56.4	----	----	1819700.9	
103	10/10/2018	10:19:50	00d 00:10.0	55.8	65.8	61.3	51.1	--	61.1	61.1	53.7	51	50.8	----	----	380189.4	
104	10/10/2018	10:20:00	00d 00:10.0	48.9	58.9	51.5	47	--	52.1	52.1	48.5	47.3	46.6	----	----	77624.7	
105	10/10/2018	10:20:10	00d 00:10.0	52.2	62.2	54.3	47.3	--	54.5	54.5	53.5	47.4	46.7	----	----	165958.7	
106	10/10/2018	10:20:20	00d 00:10.0	54	64	56.4	47.4	--	56.7	56.7	54.5	48.6	47.5	----	----	251188.6	
107	10/10/2018	10:20:30	00d 00:10.0	58.3	68.3	60.9	55.9	--	61	61	57.6	55.9	55.9	----	----	676083.0	
108	10/10/2018	10:20:40	00d 00:10.0	52.5	62.5	57.4	48.2	--	55.8	55.8	51.8	48.3	47.8	----	----	177827.9	
109	10/10/2018	10:20:50	00d 00:10.0	47.4	57.4	48.5	46.1	--	48.8	48.8	47.2	46.3	45.6	----	----	54954.1	
110	10/10/2018	10:21:00	00d 00:10.0	51	61	52.5	48.5	--	52.7	52.7	51	49.3	48.9	----	----	125892.5	
111	10/10/2018	10:21:10	00d 00:10.0	47.9	57.9	49.9	46.2	--	49.7	49.7	47.2	46.1	46	----	----	61659.5	
112	10/10/2018	10:21:20	00d 00:10.0	49.6	59.6	51	48.4	--	51.2	51.2	49.6	48.4	47.9	----	----	91201.1	
113	10/10/2018	10:21:30	00d 00:10.0	51.4	61.4	53.3	48.5	--	53.6	53.6	51.6	49.6	49.3	----	----	138038.4	
114	10/10/2018	10:21:40	00d 00:10.0	52.2	62.2	53.5	50.9	--	53.9	53.9	52	51	50.9	----	----	165958.7	
115	10/10/2018	10:21:50	00d 00:10.0	56.6	66.6	58	53.5	--	58.1	58.1	57.1	53.7	53.7	----	----	457088.2	
116	10/10/2018	10:22:00	00d 00:10.0	58.3	68.3	59.4	56.8	--	59.3	59.3	58.5	56.7	56.7	----	----	676083.0	
117	10/10/2018	10:22:10	00d 00:10.0	55.4	65.4	56.8	55	--	55.8	55.8	55.5	55	55	----	----	346736.9	
118	10/10/2018	10:22:20	00d 00:10.0	56.3	66.3	57.8	55.2	--	58	58	55.7	55.4	55.2	----	----	426579.5	
119	10/10/2018	10:22:30	00d 00:10.0	57.6	67.6	59.1	55.4	--	59.4	59.4	57.9	55.4	55.2	----	----	575439.9	
120	10/10/2018	10:22:40	00d 00:10.0	56	66	59.1	53.3	--	59.9	59.9	55.1	53.3	53.2	----	----	398107.2	
121	10/10/2018	10:22:50	00d 00:10.0	55.4	65.4	56.1	54	--	56.2	56.2	55.4	54.9	54.7	----	----	346736.9	
122	10/10/2018	10:23:00	00d 00:10.0	54.9	64.9	55.5	54.2	--	55.4	55.4	55	54.3	54.2	----	----	309029.5	
123	10/10/2018	10:23:10	00d 00:10.0	56	66	59.5	50.6	--	58.7	58.7	57.3	50.9	50.6	----	----	398107.2	
124	10/10/2018	10:23:20	00d 00:10.0	53.9	63.9	58.6	51	--	57.1	57.1	53.1	50.2	49.3	----	----	245470.9	
125	10/10/2018	10:23:30	00d 00:10.0	58.7	68.7	62.4	49.7	--	63.2	63.2	57.7	50.2	48.2	----	----	741310.2	
126	10/10/2018	10:23:40	00d 00:10.0	62.8	72.8	64.8	59.4	--	65.4	65.4	62.4	60.7	60.5	----	----	1905460.7	
127	10/10/2018	10:23:50	00d 00:10.0	57.1	67.1	61.7	56.4	--	60	60	57	56.1	53.9	----	----	512861.4	
128	10/10/2018	10:24:00	00d 00:10.0	58.6	68.6	60	56.8	--	60.5	60.5	59	56.8	56.5	----	----	724436.0	
129	10/10/2018	10:24:10	00d 00:10.0	61.1	71.1	63.2	58.3	--	63.5	63.5	60.8	58.3	58	----	----	1288249.6	
130	10/10/2018	10:24:20	00d 00:10.0	60.1	70.1	62.7	57.6	--	62.6	62.6	60.7	57.5	56.6	----	----	1023293.0	
131	10/10/2018	10:24:30	00d 00:10.0	58.8	68.8	60.8	55.9	--	61	61	58.9	56.3	55.4	----	----	758577.6	
132	10/10/2018	10:24:40	00d 00:10.0	55	65	59.3	51.2	--	59.2	59.2	53.7	50.8	50	----	----	316227.8	
133	10/10/2018	10:24:50	00d 00:10.0	50.1	60.1	54.5	48	--	52.2	52.2	49.6	47.7	47.6	----	----	102329.3	
134	10/10/2018	10:25:00	00d 00:10.0	63.2	73.2	68.9	49	--	69.2	69.2	54.4	50.7	49.4	----	----	2089296.1	
135	10/10/2018	10:25:10	00d 00:10.0	64.2	74.2	69.7	57.5	--	70	70	58.4	56.8	56.7	----	----	2630268.0	
136	10/10/2018	10:25:20	00d 00:10.0	57.4	67.4	58.3	56.7	--	58.3	58.3	57.3	56.6	56.6	----	----	549540.9	
137	10/10/2018	10:25:30	00d 00:10.0	52.5	62.5	56.9	48.2	--	55.8	55.8	51.9	48.1	48	----	----	177827.9	
138	10/10/2018	10:25:40	00d 00:10.0	51.7	61.7	53.4	47.7	--	53.9	53.9	52.1	48.3	47.5	----	----	147910.8	
139	10/10/2018	10:25:50	00d 00:10.0	58.7	68.7	62.2	53.1	--	61.7	61.7	59.1	53.5	53	----	----	741310.2	
140	10/10/2018	10:26:00	00d 00:10.0	61.2	71.2	64.1	55.5	--	63.9	63.9	62.1	54.7	52.3	----	----	1318256.7	
141	10/10/2018	10:26:10	00d 00:10.0	60.7	70.7	64.1	53	--	65.6	65.6	60	50.9	50.3	----	----	1174897.6	
142	10/10/2018	10:26:20	00d 00:10.0	62.7	72.7	65.4	59.7	--	65.9	65.9	62.2	59.8	58.3	----	----	1862087.1	
143	10/10/2018	10:26:30	00d 00:10.0	62.5	72.5	65.4	59.4	--	65.9	65.9	62	59.6	59.5	----	----	1778279.4	
144	10/10/2018	10:26:40	00d 00:10.0	58.8	68.8	63.4	55.5	--	64.2	64.2	58	55	54.8	----	----	758577.6	
145	10/10/2018	10:26:50	00d 00:10.0	55.7	65.7	56.8	54.4	--	56.8	56.8	56	54.5	54.1	----	----	371535.2	
146	10/10/2018	10:27:00	00d 00:10.0	54	64	56.8	52.3	--	56.7								

149	10/10/2018	10:27:30	00d	00:10.0	52.2	62.2	53.6	51.3	--	53.1	53.1	52.2	51.5	51	----	----	165958.7
150	10/10/2018	10:27:40	00d	00:10.0	54.2	64.2	55.4	51.9	--	55.8	55.8	54	53.3	53	----	----	263026.8
151	10/10/2018	10:27:50	00d	00:10.0	56.3	66.3	57.8	54.5	--	57.9	57.9	56	54.7	54.3	----	----	426579.5
152	10/10/2018	10:28:00	00d	00:10.0	53.3	63.3	55.9	52.3	--	54.8	54.8	53.3	52.3	52.1	----	----	213796.2
153	10/10/2018	10:28:10	00d	00:10.0	52.6	62.6	53.6	51.7	--	53.9	53.9	52.7	51.9	51.4	----	----	181970.1
154	10/10/2018	10:28:20	00d	00:10.0	53	63	56.1	50.7	--	56.4	56.4	52.7	51.3	50.6	----	----	199526.2
155	10/10/2018	10:28:30	00d	00:10.0	54.1	64.1	55.5	51.2	--	55.6	55.6	54.2	52	51.4	----	----	257039.6
156	10/10/2018	10:28:40	00d	00:10.0	57.4	67.4	58.4	55.5	--	58.6	58.6	57.2	57	56.5	----	----	549540.9
157	10/10/2018	10:28:50	00d	00:10.0	58.2	68.2	59.1	57.3	--	59.2	59.2	58.5	57.5	57.3	----	----	660693.4
158	10/10/2018	10:29:00	00d	00:10.0	57.7	67.7	58.1	56.8	--	58.3	58.3	57.9	57	56.7	----	----	588843.7
159	10/10/2018	10:29:10	00d	00:10.0	56.4	66.4	58.4	54	--	58.4	58.4	56.1	54	53.7	----	----	436515.8
160	10/10/2018	10:29:20	00d	00:10.0	53.2	63.2	54.6	51.4	--	54.7	54.7	53.4	51.6	51.2	----	----	208929.6
161	10/10/2018	10:29:30	00d	00:10.0	53.5	63.5	55.4	50.8	--	55.7	55.7	53.1	50.9	50.8	----	----	223872.1
162	10/10/2018	10:29:40	00d	00:10.0	54.9	64.9	56.2	53.3	--	56.4	56.4	54.8	53.6	53.1	----	----	309029.5
163	10/10/2018	10:29:50	00d	00:10.0	53.1	63.1	55	51.6	--	54.1	54.1	53.4	51.6	51.6	----	----	204173.8
164	10/10/2018	10:30:00	00d	00:10.0	52.1	62.1	54	50.3	--	54.3	54.3	51.6	50.6	49.1	----	----	162181.0
165	10/10/2018	10:30:10	00d	00:10.0	54.4	64.4	56.7	49.1	--	57.4	57.4	55.2	49.3	48.8	----	----	275422.9
166	10/10/2018	10:30:20	00d	00:10.0	52.9	62.9	55.9	49.5	--	55.9	55.9	52.1	49.4	49.4	----	----	194984.5
167	10/10/2018	10:30:30	00d	00:10.0	51.7	61.7	53.5	49.5	--	53.9	53.9	51.2	49.5	49.5	----	----	147910.8
168	10/10/2018	10:30:40	00d	00:10.0	52.5	62.5	53.4	51.1	--	53.4	53.4	52.9	51	50.7	----	----	177827.9
169	10/10/2018	10:30:50	00d	00:10.0	55.3	65.3	56.4	50.9	--	56.5	56.5	56.1	52.5	51.7	----	----	338844.2
170	10/10/2018	10:31:00	00d	00:10.0	56.3	66.3	56.8	55.8	--	56.9	56.9	56.5	55.8	55.8	----	----	426579.5
171	10/10/2018	10:31:10	00d	00:10.0	56.9	66.9	57.5	56	--	57.6	57.6	56.9	56.3	56.1	----	----	489778.8
172	10/10/2018	10:31:20	00d	00:10.0	55.9	65.9	57.4	53.8	--	57.9	57.9	55.8	53.9	53.7	----	----	389045.1
173	10/10/2018	10:31:30	00d	00:10.0	53.2	63.2	55.3	50.2	--	55.4	55.4	53.5	50.3	49.8	----	----	208929.6
174	10/10/2018	10:31:40	00d	00:10.0	50.7	60.7	52.3	49.1	--	52.6	52.6	50.1	49.2	48.7	----	----	117489.8
175	10/10/2018	10:31:50	00d	00:10.0	52	62	53.5	50.1	--	53.8	53.8	51.9	50.9	50.8	----	----	158489.3
176	10/10/2018	10:32:00	00d	00:10.0	54.5	64.5	55	53.3	--	55.2	55.2	54.8	53.6	53.4	----	----	281838.3
177	10/10/2018	10:32:10	00d	00:10.0	57.2	67.2	57.9	55	--	58.4	58.4	57.1	56.7	56.6	----	----	524807.5
178	10/10/2018	10:32:20	00d	00:10.0	56.7	66.7	57.7	55.4	--	58	58	56.7	55.5	55.4	----	----	467735.1
179	10/10/2018	10:32:30	00d	00:10.0	57.3	67.3	58.8	54.9	--	59	59	58.2	55.1	54.7	----	----	537031.8
180	10/10/2018	10:32:40	00d	00:10.0	55.3	65.3	56.4	53.5	--	56.4	56.4	55.5	53.9	53	----	----	338844.2
181	10/10/2018	10:32:50	00d	00:10.0	51.9	61.9	53.5	51.2	--	52.7	52.7	52	51.4	51.3	----	----	154881.7
182	10/10/2018	10:33:00	00d	00:10.0	52.7	62.7	54.9	50.1	--	54.8	54.8	53	51	49	----	----	186208.7
183	10/10/2018	10:33:10	00d	00:10.0	54.2	64.2	55.8	51.6	--	55.9	55.9	54.5	52.3	51.3	----	----	263026.8
184	10/10/2018	10:33:20	00d	00:10.0	54.5	64.5	55.3	53.6	--	55.4	55.4	54.6	53.6	53.5	----	----	281838.3
185	10/10/2018	10:33:30	00d	00:10.0	59.5	69.5	61.3	55	--	61.7	61.7	60.1	55.2	55.1	----	----	891250.9
186	10/10/2018	10:33:40	00d	00:10.0	62.6	72.6	64	61.1	--	64.2	64.2	62.3	61.3	60.8	----	----	1819700.9
187	10/10/2018	10:33:50	00d	00:10.0	60.7	70.7	64.5	57.1	--	64.8	64.8	59.5	57.6	56.3	----	----	1174897.6
188	10/10/2018	10:34:00	00d	00:10.0	54.6	64.6	57.7	52.1	--	57.5	57.5	53.8	52.5	51.6	----	----	288403.2
189	10/10/2018	10:34:10	00d	00:10.0	51.1	61.1	52.1	50.6	--	51.5	51.5	51.2	50.7	50.5	----	----	128825.0
190	10/10/2018	10:34:20	00d	00:10.0	56.1	66.1	56.9	51.2	--	57	57	56.7	53.5	52.1	----	----	407380.3
191	10/10/2018	10:34:30	00d	00:10.0	56.6	66.6	57.3	55.5	--	57.4	57.4	56.8	55.9	55.2	----	----	457088.2
192	10/10/2018	10:34:40	00d	00:10.0	54.4	64.4	56.2	50.9	--	56.3	56.3	55.3	52	50.5	----	----	275422.9
193	10/10/2018	10:34:50	00d	00:10.0	50.2	60.2	52.2	48.1	--	52.6	52.6	50.1	48	47.9	----	----	104712.9
194	10/10/2018	10:35:00	00d	00:10.0	51.7	61.7	53.3	50.8	--	53.5	53.5	51.7	50.7	50.6	----	----	147910.8



PASTE  
HERE  
↓

Address	Start Time	Measurement Time		Leq	LE	LMAX	LMIN	Ly	LN1	LN2	LN3	LN4	LN5	Over	Under	Inverse Log	Overall Leq
M12																	56.6
32	10/10/2018	10:15:09	00d 00:10.0	66.1	76.1	69.1	57.9	--	69.5	69.5	66.7	58.4	58.4	----	----	4073802.8	
33	10/10/2018	10:15:19	00d 00:10.0	59	69	63.8	56.2	--	62.2	62.2	58.5	56.1	55.8	----	----	794328.2	
34	10/10/2018	10:15:29	00d 00:10.0	58.2	68.2	59.4	56.4	--	59.6	59.6	58.5	56.1	56	----	----	660693.4	
35	10/10/2018	10:15:39	00d 00:10.0	58.3	68.3	59.6	57.3	--	59.8	59.8	58.4	57.1	57.1	----	----	676083.0	
36	10/10/2018	10:15:49	00d 00:10.0	54.8	64.8	58.2	53.2	--	57	57	54.5	53.2	53	----	----	301995.2	
37	10/10/2018	10:15:59	00d 00:10.0	58.1	68.1	60	54.3	--	60.2	60.2	58.6	54.5	54.3	----	----	645654.2	
38	10/10/2018	10:16:09	00d 00:10.0	57.2	67.2	59.1	54.2	--	59.1	59.1	57.4	54.1	53.6	----	----	524807.5	
39	10/10/2018	10:16:19	00d 00:10.0	52.2	62.2	54.3	51.3	--	53.2	53.2	52.3	51.4	51.3	----	----	165958.7	
40	10/10/2018	10:16:29	00d 00:10.0	50.7	60.7	52	49.3	--	51.6	51.6	51	49.7	49.1	----	----	117489.8	
41	10/10/2018	10:16:39	00d 00:10.0	50.1	60.1	51.4	48.3	--	51.5	51.5	50.8	48.3	48.3	----	----	102329.3	
42	10/10/2018	10:16:49	00d 00:10.0	50.1	60.1	50.9	49.6	--	50.7	50.7	50.2	49.7	49.3	----	----	102329.3	
43	10/10/2018	10:16:59	00d 00:10.0	52	62	53.4	50.3	--	53.5	53.5	51.7	51.1	51	----	----	158489.3	
44	10/10/2018	10:17:09	00d 00:10.0	52.5	62.5	53.9	51.5	--	54.4	54.4	52.3	51.5	51.4	----	----	177827.9	
45	10/10/2018	10:17:19	00d 00:10.0	54.4	64.4	55.6	53.2	--	55.8	55.8	54.8	53.3	53	----	----	275422.9	
46	10/10/2018	10:17:29	00d 00:10.0	57.2	67.2	59	53.3	--	59.3	59.3	57	54.3	53.5	----	----	524807.5	
47	10/10/2018	10:17:39	00d 00:10.0	54.3	64.3	56.6	53.7	--	55.2	55.2	54.2	53.9	53.5	----	----	269153.5	
48	10/10/2018	10:17:49	00d 00:10.0	54.4	64.4	54.9	54	--	54.9	54.9	54.4	54.1	53.9	----	----	275422.9	
49	10/10/2018	10:17:59	00d 00:10.0	52.2	62.2	55	51	--	55	55	51.9	51	51	----	----	165958.7	
50	10/10/2018	10:18:09	00d 00:10.0	51.2	61.2	51.7	50.7	--	51.8	51.8	51.2	50.9	50.6	----	----	131825.7	
51	10/10/2018	10:18:19	00d 00:10.0	53.3	63.3	55.6	51	--	56.3	56.3	53.1	51.6	50.9	----	----	213796.2	
52	10/10/2018	10:18:29	00d 00:10.0	55.4	65.4	56.6	53.9	--	56.6	56.6	55.9	54	53.8	----	----	346736.9	
53	10/10/2018	10:18:39	00d 00:10.0	55.5	65.5	57.9	52.4	--	58.4	58.4	55.2	52.4	52.2	----	----	354813.4	
54	10/10/2018	10:18:49	00d 00:10.0	52.8	62.8	53.6	52.2	--	53.8	53.8	52.8	52.4	52.2	----	----	190546.1	
55	10/10/2018	10:18:59	00d 00:10.0	51.1	61.1	53.8	48.8	--	53.9	53.9	50.5	49	48.8	----	----	128825.0	
56	10/10/2018	10:19:09	00d 00:10.0	51.1	61.1	52.2	49	--	52.6	52.6	50.8	50.1	49.9	----	----	128825.0	
57	10/10/2018	10:19:19	00d 00:10.0	56.5	66.5	57.8	51.7	--	57.8	57.8	57.4	53.1	52.2	----	----	446683.6	
58	10/10/2018	10:19:29	00d 00:10.0	57.4	67.4	58.7	55.9	--	58.7	58.7	57.7	55.8	55.8	----	----	549540.9	
59	10/10/2018	10:19:39	00d 00:10.0	56.9	66.9	58.5	55.8	--	57.9	57.9	57.1	55.9	55.9	----	----	489778.8	
60	10/10/2018	10:19:49	00d 00:10.0	55	65	55.9	54	--	55.9	55.9	55.1	54.1	53.8	----	----	316227.8	
61	10/10/2018	10:19:59	00d 00:10.0	63.7	73.7	66.6	55.6	--	66.9	66.9	63.7	57.3	56.4	----	----	2344228.8	
62	10/10/2018	10:20:09	00d 00:10.0	59.7	69.7	66.4	54.3	--	65.5	65.5	57.6	54.9	53.9	----	----	933254.3	
63	10/10/2018	10:20:19	00d 00:10.0	52.1	62.1	54.3	50	--	53.4	53.4	52.6	49.8	49.7	----	----	162181.0	
64	10/10/2018	10:20:29	00d 00:10.0	52.4	62.4	54	51.5	--	54.4	54.4	52.3	51.6	51.3	----	----	173780.1	
65	10/10/2018	10:20:39	00d 00:10.0	56.1	66.1	57.4	53.9	--	57.7	57.7	56.4	54	53.9	----	----	407380.3	
66	10/10/2018	10:20:49	00d 00:10.0	54.2	64.2	55.9	53	--	56.3	56.3	53.4	53.1	53	----	----	263026.8	
67	10/10/2018	10:20:59	00d 00:10.0	56.1	66.1	57.6	53.9	--	58.2	58.2	56.4	54.2	53.3	----	----	407380.3	
68	10/10/2018	10:21:09	00d 00:10.0	54.6	64.6	57.1	50.8	--	57.4	57.4	55.4	50.7	50	----	----	288403.2	
69	10/10/2018	10:21:19	00d 00:10.0	51.4	61.4	52.6	49.8	--	52.7	52.7	51.8	50.2	48.7	----	----	138038.4	
70	10/10/2018	10:21:29	00d 00:10.0	50.4	60.4	51.7	48.9	--	52	52	50.9	49.1	48.7	----	----	109647.8	
71	10/10/2018	10:21:39	00d 00:10.0	52.3	62.3	53	51.6	--	53.2	53.2	52.1	51.9	51.4	----	----	169824.4	
72	10/10/2018	10:21:49	00d 00:10.0	51.2	61.2	51.9	50.8	--	51.9	51.9	51.1	50.8	50.8	----	----	131825.7	
73	10/10/2018	10:21:59	00d 00:10.0	57.5	67.5	59.4	51.6	--	59.6	59.6	58.5	53.3	52.8	----	----	562341.3	
74	10/10/2018	10:22:09	00d 00:10.0	55.6	65.6	59	53.7	--	58.9	58.9	54.8	53.8	53.6	----	----	363078.1	
75	10/10/2018	10:22:19	00d 00:10.0	54.9	64.9	55.9	53.7	--	56.2	56.2	54.6	54.3	54	----	----	309029.5	
76	10/10/2018	10:22:29	00d 00:10.0	55	65	56.6	53.4	--	56.6	56.6	55.2	53.6	53	----	----	316227.8	
77	10/10/2018	10:22:39	00d 00:10.0	55.7	65.7	57.1	53.3	--	57.5	57.5	55.6	54.9	53.7	----	----	371535.2	
78	10/10/2018	10:22:49	00d 00:10.0	53.2	63.2	55.4	51.1	--	55	55	53	51.1	51	----	----	208929.6	
79	10/10/2018	10:22:59	00d 00:10.0	50.9	60.9	51.9	50	--	52.3	52.3	50.7	50	50	----	----	123026.9	
80	10/10/2018	10:23:09	00d 00:10.0	52.5	62.5	54.9	49.4	--	55.3	55.3	53	49.6	49.3	----	----	177827.9	
81	10/10/2018	10:23:19	00d 00:10.0	58	68	59.2	54.9	--	59.2	59.2	58.6	56.9	56	----	----	630957.3	
82	10/10/2018	10:23:29	00d 00:10.0	52.4	62.4	57.5	50	--	56.5	56.5	51.2	50.1	49.8	----	----	173780.1	
83	10/10/2018	10:23:39	00d 00:10.0	57	67	60.3	50.6	--	61	61	56.7	52.9	51.7	----	----	501187.2	
84	10/10/2018	10:23:49	00d 00:10.0	54.8	64.8	56.3	53.8	--	56.7	56.7	54.7	54	53.9	----	----	301995.2	
85	10/10/2018	10:23:59	00d 00:10.0	56.6	66.6	58	53	--	57.9	57.9	57.6	53.1	52.5	----	----	457088.2	
86	10/10/2018	10:24:09	00d 00:10.0	55	65	56.9	52.1	--	57.2	57.2	55.8	52.1	51.9	----	----	316227.8	
87	10/10/2018	10:24:19	00d 00:10.0	54.4	64.4	56	53.3	--	56	56	54.3	53.7	52.9	----	----	275422.9	
88	10/10/2018	10:24:29	00d 00:10.0	63.2	73.2	68.6	54.5	--	69.9	69.9	61.9	55.1	55	----	----	2089296.1	
89	10/10/2018	10:24:39	00d 00:10.0	67.5	77.5	71.1	58.8	--	71.7	71.7	66.7	59.3	57.7	----	----	5623413.3	
90	10/10/2018	10:24:49	00d 00:10.0	56.1	66.1	58.8	53.6	--	57.7	57.7	56.9	53.6	52.9	----	----	407380.3	
91	10/10/2018	10:24:59	00d 00:10.0	56.8	66.8	60	52.9	--	60.5	60.5	55.3	52.9	52.8	----	----	478630.1	
92	10/10/2018	10:25:09	00d 00:10.0	54.2	64.2	56.3	51.9	--	56.5	56.5	53.5	51.9	51.6	----	----	263026.8	
93	10/10/2018	10:25:19	00d 00:10.0	51	61	55.4	49.8	--	53.6	53.6	50.6	49.8	49.7	----	----	125892.5	
94	10/10/2018	10:25:29	00d 00:10.0	55.2	65.2	58.4	51.6	--	59.1	59.1	53.5	52.1	51.8	----	----	331131.1	
95	10/10/2018	10:25:39	00d 00:10.0	53.7	63.7	57.7	53.2	--	55.1	55.1	53.5	53.2	53.2	----	----	234422.9	
96	10/10/2018	10:25:49	00d 00:10.0	51.8	61.8	53.5	50.7	--	53.2	53.2	51.9	51	50.6	----	----	151356.1	
97	10/10/2018	10:25:59	00d 00:10.0	53.7	63.7	56.1	51	--	56.3	56.3	53	52.1	51.9	----	----	234422.9	
98	10/10/2018	10:26:09	00d 00:10.0	54.5	64.5	55.7	52.3	--	56.1	56.1	54.8	53.2	53	----	----	281838.3	
99	10/10/2018	10:26:19	00d 00:10.0	54.5	64.5	56.8	51	--	57.1	57.1	54	51.2	50.8	----	----	281838.3	
100	10/10/2018	10:26:29	00d 00:10.0	56	66	58.7	53.4	--	58.9	58.9	54.5	53.5	53.2	----	----	398107.2	
101	10/10/2018	10:26:39	00d 00:10.0	59	69	60.1	57.6	--	60.3	60.3	59.3	57.6	56.7	----	----	794328.2	
102	10/10/2018	10:26:49	00d 00:10.0	56.4	66.4	57.6	55.8	--	56.9	56.9	56.5	55.6	55.2	----	----	436515.8	
103	10/10/2018	10:26:59	00d 00:10.0	52.5	62.5	55.8	51.6	--	54.1	54.1	52.4	51.7	51.2	----	----	177827.9	
104	10/10/2018	10:27:09															



107	10/10/2018	10:27:39	00d	00:10.0	54.4	64.4	56.8	51.9	--	57.4	57.4	53.9	52.3	52.1	----	----	275422.9
108	10/10/2018	10:27:49	00d	00:10.0	57.1	67.1	58.8	54.5	--	59	59	57.8	54.6	54.3	----	----	512861.4
109	10/10/2018	10:27:59	00d	00:10.0	53.3	63.3	54.5	52.6	--	53.6	53.6	53.3	52.9	52.4	----	----	213796.2
110	10/10/2018	10:28:09	00d	00:10.0	51.3	61.3	52.6	49.4	--	52.3	52.3	51.9	49.3	49.2	----	----	134896.3
111	10/10/2018	10:28:19	00d	00:10.0	51.1	61.1	53	49.1	--	53.5	53.5	51.7	49.6	49.1	----	----	128825.0
112	10/10/2018	10:28:29	00d	00:10.0	54.4	64.4	57.3	51.5	--	57.6	57.6	53.6	51.4	51.4	----	----	275422.9
113	10/10/2018	10:28:39	00d	00:10.0	57.3	67.3	59.3	53.2	--	59.3	59.3	57.2	55.2	55	----	----	537031.8
114	10/10/2018	10:28:49	00d	00:10.0	54.8	64.8	56	53.7	--	55.9	55.9	55	53.8	53.8	----	----	301995.2
115	10/10/2018	10:28:59	00d	00:10.0	55.4	65.4	56	54.2	--	56.3	56.3	55.4	54.7	54.7	----	----	346736.9
116	10/10/2018	10:29:09	00d	00:10.0	56.2	66.2	57.9	54.4	--	58.3	58.3	55.8	54.8	54.3	----	----	416869.4
117	10/10/2018	10:29:19	00d	00:10.0	56.3	66.3	58.2	53.2	--	58.2	58.2	56.6	53.1	52.6	----	----	426579.5
118	10/10/2018	10:29:29	00d	00:10.0	52.1	62.1	53.7	50.9	--	54.4	54.4	52	51.3	50.7	----	----	162181.0
119	10/10/2018	10:29:39	00d	00:10.0	51.9	61.9	54.7	49.9	--	54.9	54.9	51	49.9	49.7	----	----	154881.7
120	10/10/2018	10:29:49	00d	00:10.0	53.8	63.8	56.4	50.7	--	56.9	56.9	53.4	50.6	50.3	----	----	239883.3
121	10/10/2018	10:29:59	00d	00:10.0	53.2	63.2	54.5	50.7	--	54.9	54.9	52.8	52.2	51.5	----	----	208929.6
122	10/10/2018	10:30:09	00d	00:10.0	52	62	54.2	50.6	--	54.8	54.8	51.6	50.7	50.4	----	----	158489.3
123	10/10/2018	10:30:19	00d	00:10.0	50.8	60.8	54.3	49.5	--	54.6	54.6	50	49.6	49.6	----	----	120226.4
124	10/10/2018	10:30:29	00d	00:10.0	52.7	62.7	55.3	50.1	--	55.5	55.5	52	50.3	50	----	----	186208.7
125	10/10/2018	10:30:39	00d	00:10.0	50.2	60.2	54.2	49.3	--	51.9	51.9	50	49.4	49.1	----	----	104712.9
126	10/10/2018	10:30:49	00d	00:10.0	50	60	50.5	49.4	--	50.6	50.6	50.1	49.4	49.2	----	----	100000.0
127	10/10/2018	10:30:59	00d	00:10.0	51.4	61.4	52.3	50.3	--	52.5	52.5	51.5	50.8	50.6	----	----	138038.4
128	10/10/2018	10:31:09	00d	00:10.0	55.1	65.1	56.4	51.3	--	56.7	56.7	55.6	53.4	53.2	----	----	323593.7
129	10/10/2018	10:31:19	00d	00:10.0	58.3	68.3	59.5	56.4	--	59.5	59.5	58.5	56.7	56	----	----	676083.0
130	10/10/2018	10:31:29	00d	00:10.0	54.8	64.8	56.4	54.4	--	55.1	55.1	54.9	54.4	54.4	----	----	301995.2
131	10/10/2018	10:31:39	00d	00:10.0	55.1	65.1	55.9	53.9	--	56	56	55.5	53.9	53.8	----	----	323593.7
132	10/10/2018	10:31:49	00d	00:10.0	56	66	57.4	55	--	57.8	57.8	55.6	55.2	55.1	----	----	398107.2
133	10/10/2018	10:31:59	00d	00:10.0	59.8	69.8	61	57.4	--	61.2	61.2	59.3	58.6	58.3	----	----	954992.6
134	10/10/2018	10:32:09	00d	00:10.0	55.3	65.3	60.7	52.9	--	59.7	59.7	54.2	53	52.8	----	----	338844.2
135	10/10/2018	10:32:19	00d	00:10.0	53.1	63.1	53.7	52.1	--	53.7	53.7	53.6	52.3	51.9	----	----	204173.8
136	10/10/2018	10:32:29	00d	00:10.0	52.7	62.7	53.8	52.1	--	54.1	54.1	52.7	52.1	52	----	----	186208.7
137	10/10/2018	10:32:39	00d	00:10.0	58	68	59	53.7	--	59.5	59.5	58	56.8	55.1	----	----	630957.3
138	10/10/2018	10:32:49	00d	00:10.0	56	66	59	53.6	--	58.3	58.3	56.2	54.6	52.7	----	----	398107.2
139	10/10/2018	10:32:59	00d	00:10.0	52.1	62.1	53.6	51	--	53.5	53.5	52.1	51.1	50.9	----	----	162181.0
140	10/10/2018	10:33:09	00d	00:10.0	51.3	61.3	52.9	50.6	--	52.5	52.5	51.2	50.5	50.4	----	----	134896.3
141	10/10/2018	10:33:19	00d	00:10.0	54.3	64.3	56.9	50.9	--	57.7	57.7	53.5	51.7	50.7	----	----	269153.5
142	10/10/2018	10:33:29	00d	00:10.0	51.8	61.8	54.8	49.6	--	55	55	50.9	49.9	49.5	----	----	151356.1
143	10/10/2018	10:33:39	00d	00:10.0	51.8	61.8	53.7	49.6	--	53.9	53.9	51.7	49.8	49.8	----	----	151356.1
144	10/10/2018	10:33:49	00d	00:10.0	56.8	66.8	59.5	53.7	--	60.1	60.1	56.1	54.5	54.2	----	----	478630.1
145	10/10/2018	10:33:59	00d	00:10.0	58.3	68.3	59.3	57	--	59.4	59.4	58.5	57.3	56.8	----	----	676083.0
146	10/10/2018	10:34:09	00d	00:10.0	59.4	69.4	60.1	57.8	--	60.4	60.4	59.7	58.5	58.1	----	----	870963.6
147	10/10/2018	10:34:19	00d	00:10.0	57.3	67.3	59.4	53.8	--	59.3	59.3	57.6	54.5	52.9	----	----	537031.8
148	10/10/2018	10:34:29	00d	00:10.0	53.4	63.4	55.4	51.9	--	55.8	55.8	53	51.9	51.6	----	----	218776.2
149	10/10/2018	10:34:39	00d	00:10.0	61	71	65.4	55.4	--	66.4	66.4	59.9	58.2	56	----	----	1258925.4
150	10/10/2018	10:34:49	00d	00:10.0	64.9	74.9	70.3	54.8	--	70.8	70.8	58.4	55	54.3	----	----	3090295.4
151	10/10/2018	10:34:59	00d	00:10.0	55.4	65.4	56.7	54.2	--	56.7	56.7	54.9	54.2	54.2	----	----	346736.9
152	10/10/2018	10:35:09	00d	00:02.0	52.1	55.1	55.2	52.5	--	52.3	52.3	52.3	51.9	51.9	----	----	162181.0

**APPENDIX E**  
NOISE MONITORING DATA FORMS



## Route 29 Widening Project

Site # M-02 Description : 13426 Matthews Vista Dr.

Done By: AJN

Meter:                      →

**Monitoring Data:**

	Meter 10	2902	
AM Peak	Off-Peak	PM Peak	
Date	10/10/18		
Start Time	11:45 AM		
End Time	12:05 PM		
Duration	20 MIN	MIN	MIN
<b>Leq.</b>	<b>58.0</b>		

**Atmospheric Data**

Wind Speed (mph)	7
Temp. (°F)	77
Humidity (%)	84

**Traffic Data**

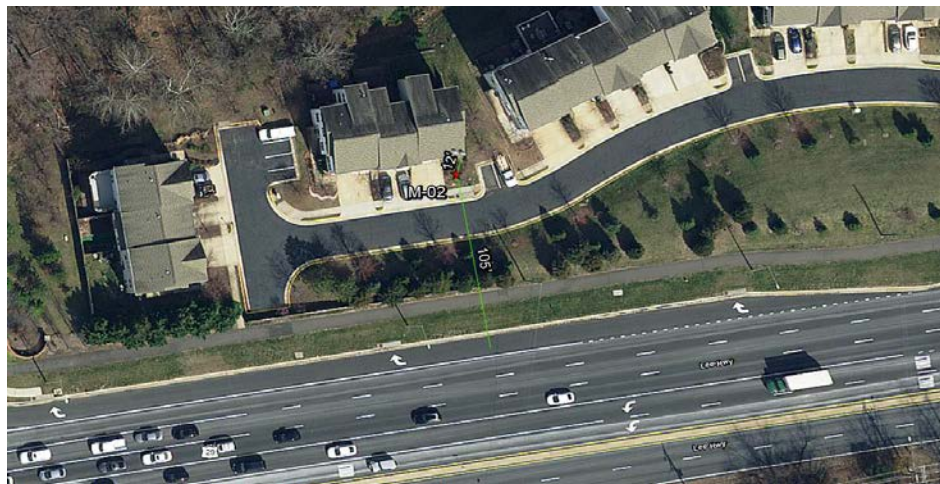
Roadway	Rt. 29					
Direction	EB	WB				
Traffic Total:	236	208	0	0	0	0
Cars	230	203				
MT	2	2				
HT	4	3				

**Weather Conditions**

Site Data: Site Surface (alpha):            Shielding Factor :            Pavement Type :           



Plan View



**NORTH**



**Monitoring Notes**

AM Peak: \_\_\_\_\_

Off-Peak: \_\_\_\_\_

PM Peak \_\_\_\_\_

Profile View:



## Route 29 Widening Project

**Site #**     M-03         **Description :** 5519 Bent Maple  
**Done By:**     AJN      
**Meter:**                      →     **Meter 8**     **2903**

<b>Monitoring Data:</b>	AM Peak	Off-Peak	PM Peak
<b>Date</b>	10/10/18		
<b>Start Time</b>	11:45 AM		
<b>End Time</b>	12:05 PM		
<b>Duration</b>	20 MIN	MIN	MIN
<b>Leq.</b>	<b>55.5</b>		

<b>Traffic Data</b>	Rt. 29					
<b>Roadway</b>	EB	WB				
<b>Direction</b>						
<b>Traffic Total:</b>	236	208	0	0	0	0
<b>Cars</b>	230	203				
<b>MT</b>	2	2				
<b>HT</b>	4	3				

<b>Atmospheric Data</b>
<u>Wind Speed (mph)</u>
7
<u>Temp. (°F)</u>
77
<u>Humidity (%)</u>
84

**Weather Conditions**  
**Site Data:** Site Surface (alpha):                Shielding Factor :                Pavement Type :           



**Plan View**



### Monitoring Notes

**AM Peak:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Off-Peak:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**PM Peak** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Profile View:**

## Route 29 Widening Project

Site #     M-04     Description : 13336 Regal Crest Drive

Done By:     JCL/TJB    

Meter:                      →

**Monitoring Data:**

	Meter 7	3003	
AM Peak	Off-Peak	PM Peak	
Date	10/10/18		
Start Time	11:45 AM		
End Time	12:05 PM		
Duration	20 MIN	MIN	MIN

**Leq.**

<b>54.5</b>		
-------------	--	--

**Atmospheric Data**

Wind Speed (mph)	7
Temp. (°F)	77
Humidity (%)	84

**Traffic Data**

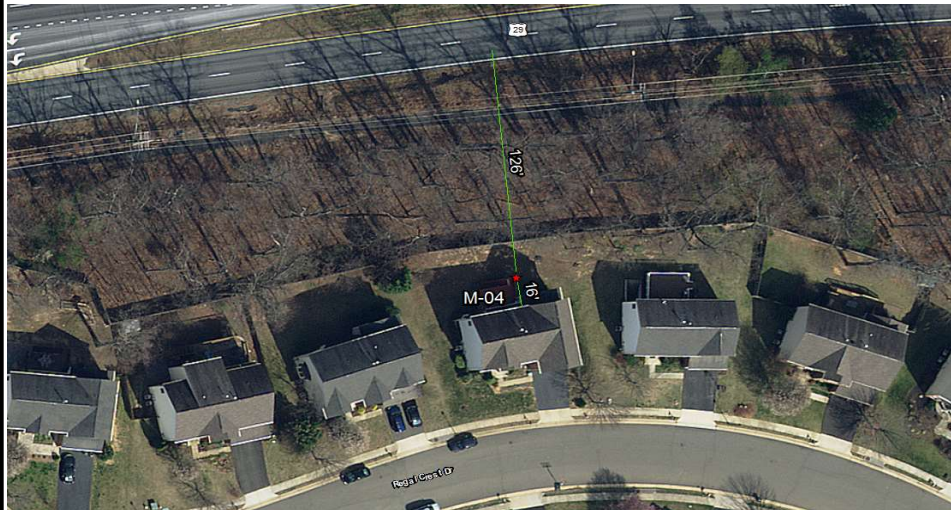
Roadway	Rt. 29					
Direction	EB	WB				
Traffic Total:	236	208	0	0	0	0
Cars	230	203				
MT	2	2				
HT	4	3				

**Weather Conditions**

Site Data: Site Surface (alpha):            Shielding Factor :            Pavement Type :           



Plan View



**NORTH**



**Monitoring Notes**

AM Peak: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Off-Peak: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

PM Peak \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Profile View:





## Route 29 Widening Project

**Site #** M-05      **Description :** 5326 Sandy Point Lane  
**Done By:** JCL/TJB  
**Meter:** \_\_\_\_\_ →      **Meter 7**      **3000**

<b>Monitoring Data:</b>	<b>Date</b>	AM Peak	Off-Peak	PM Peak
	<b>Start Time</b>	10/10/18		
	<b>End Time</b>	9:31 AM		
	<b>Duration</b>	9:51 AM		
	<b>Leq.</b>	20 MIN	MIN	MIN
		57.7		

<b>Atmospheric Data</b>
<u>Wind Speed (mph)</u>
6
<u>Temp. (°F)</u>
74
<u>Humidity (%)</u>
87

<b>Traffic Data</b>	<b>Roadway</b>			
	<b>Direction</b>			
	<b>Traffic Total:</b>	0	0	0
	<b>Cars</b>			
	<b>MT</b>			
	<b>HT</b>			

**Weather Conditions**  
**Site Data:** Site Surface (alpha): \_\_\_\_\_ Shielding Factor : \_\_\_\_\_ Pavement Type : \_\_\_\_\_



Monitoring Notes
<b>AM Peak:</b> _____ _____ _____ _____ _____ _____  <b>Off-Peak:</b> _____ _____ _____ _____ _____ _____  <b>PM Peak</b> _____ _____ _____ _____ _____ _____

**Profile View:**



## Route 29 Widening Project

Site #     M-06          **Description :** 5290 Meadow Estates Dr.

Done By:     AJN    

Meter:     →          **Meter 10**          2907          \_\_\_\_\_

<b>Monitoring Data:</b>	AM Peak	Off-Peak	PM Peak
Date	10/10/18	_____	_____
Start Time	11:00 AM	_____	_____
End Time	11:20 AM	_____	_____
Duration	20 MIN	MIN	MIN
<b>Leq.</b>	<b>59.3</b>	_____	_____

<b>Atmospheric Data</b>
Wind Speed (mph)
5
Temp. (°F)
73
Humidity (%)
93

<b>Traffic Data</b>	Roadway		Direction		Traffic Total:	
Cars	0	0	0	0	0	0
MT						
HT						

**Weather Conditions**

**Site Data:** Site Surface (alpha): \_\_\_\_\_ Shielding Factor : \_\_\_\_\_ Pavement Type : \_\_\_\_\_



**Plan View**



**Monitoring Notes**

**AM Peak:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Off-Peak:** Public A/C noise

\_\_\_\_\_

\_\_\_\_\_

**PM Peak** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Profile View:**





## Route 29 Widening Project

**Site #** M-08      **Description :** 1278 Lee Highway  
**Done By:** JCL/TJB  
**Meter:** \_\_\_\_\_ →      Meter 7      3002

Monitoring Data:	AM Peak	Off-Peak	PM Peak
Date	10/10/18		
Start Time	11:00 AM		
End Time	11:20 AM		
Duration	20 MIN	MIN	MIN
<b>Leq.</b>	<b>58.3</b>		

Atmospheric Data
Wind Speed (mph)
5
Temp. (°F)
73
Humidity (%)
93

Traffic Data						
Roadway						
Direction						
Traffic Total:	0	0	0	0	0	0
Cars						
MT						
HT						

**Weather Conditions**

**Site Data:** Site Surface (alpha): \_\_\_\_\_ Shielding Factor : \_\_\_\_\_ Pavement Type : \_\_\_\_\_



Plan View



**Monitoring Notes**

**AM Peak:** Lawn Mower noise.  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
**Off-Peak:** \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
**PM Peak** \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Profile View:



## Route 29 Widening Project

Site #     M-09    

Description : 5278 Tractor Lane

Done By:     JCL/TJB    

Meter:                      →

**Monitoring Data:**

	Meter 9	2903	
AM Peak	Off-Peak	PM Peak	
Date	10/10/18		
Start Time	11:00 AM		
End Time	11:20 AM		
Duration	20 MIN	MIN	MIN
<b>Leq.</b>	<b>53.4</b>		

**Atmospheric Data**

Wind Speed (mph)	5
Temp. (°F)	73
Humidity (%)	93

**Traffic Data**

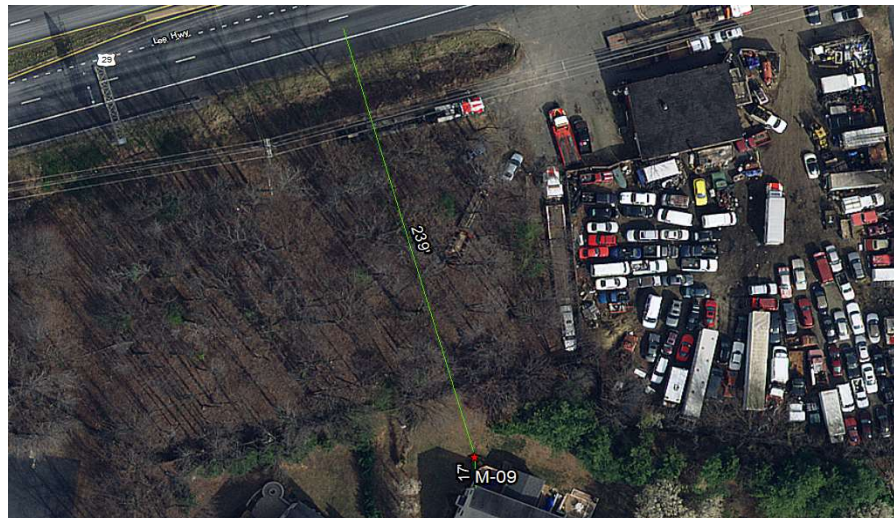
Roadway						
Direction						
Traffic Total:	0	0	0	0	0	0
Cars						
MT						
HT						

**Weather Conditions**

Site Data: Site Surface (alpha):            Shielding Factor :            Pavement Type :           



Plan View



NORTH



**Monitoring Notes**

AM Peak: Lawn Mower noise.

Off-Peak: \_\_\_\_\_

PM Peak \_\_\_\_\_

Profile View:



# Route 29 Widening Project

**Site #**     M-10          **Description :**     Hazel Furguson Dr.      
**Done By:**     AJN      
**Meter:**     →          **Meter 8**          2908    

Monitoring Data:	AM Peak	Off-Peak	PM Peak
Date	10/10/18		
Start Time	10:15 AM		
End Time	10:35 AM		
Duration	20 MIN	MIN	MIN
<b>Leq.</b>	<b>55.6</b>		

Atmospheric Data
Wind Speed (mph)
7
Temp. (°F)
70
Humidity (%)
87

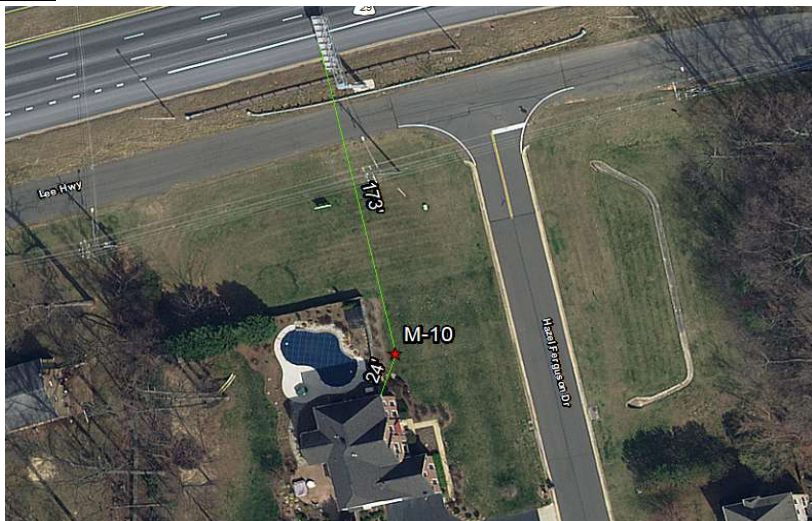
Traffic Data	Meter 8		2908		PM Peak	
Roadway						
Direction						
Traffic Total:	0	0	0	0	0	0
Cars						
MT						
HT						

**Weather Conditions**

**Site Data:** Site Surface (alpha):           Shielding Factor :           Pavement Type :     



Plan View



**Monitoring Notes**

**AM Peak:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Off-Peak:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**PM Peak** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Profile View:

## Route 29 Widening Project

Site #     M-11          **Description :** 12645 Buckleys Gate Drive

Done By:     JCL/TJB    

Meter:                      →

**Monitoring Data:**

	Meter 9	2902	
AM Peak	Off-Peak	PM Peak	
Date	10/10/18		
Start Time	10:15 AM		
End Time	10:35 AM		
Duration	20 MIN	MIN	MIN
<b>Leq.</b>	<b>56.7</b>		

**Atmospheric Data**

Wind Speed (mph)	7
Temp. (°F)	70
Humidity (%)	87

**Traffic Data**

Roadway						
Direction						
Traffic Total:	0	0	0	0	0	0
Cars						
MT						
HT						

**Weather Conditions**

Site Data: Site Surface (alpha):                 Shielding Factor :                 Pavement Type :           



Plan View



**NORTH**



**Monitoring Notes**

AM Peak: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Off-Peak: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

PM Peak \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Profile View:



## Route 29 Widening Project

**Site #**     M-12          **Description :** 12739 Heron Ridge Drive  
**Done By:**     JCL/TJB      
**Meter:**                      →          Meter 7              3001    

Monitoring Data:	AM Peak	Off-Peak	PM Peak
Date	10/10/18		
Start Time	10:15 AM		
End Time	10:35 AM		
Duration	20 MIN	MIN	MIN
<b>Leq.</b>	<b>56.6</b>		

Traffic Data						
Roadway						
Direction						
Traffic Total:	0	0	0	0	0	0
Cars						
MT						
HT						

Atmospheric Data	
Wind Speed (mph)	7
Temp. (°F)	70
Humidity (%)	87



**Weather Conditions**

**Site Data:** Site Surface (alpha):                 Shielding Factor :                 Pavement Type :           



Monitoring Notes
AM Peak: _____
_____
_____
_____
_____
Off-Peak: _____
_____
_____
_____
_____
PM Peak _____
_____
_____
_____
_____

Profile View:





**APPENDIX F**  
TNM NOISE MODELING DATA  
(Retained in VDOT Technical Files)

**APPENDIX G**  
HB2577 DOCUMENTATION



# COMMONWEALTH of VIRGINIA

## DEPARTMENT OF TRANSPORTATION

1401 EAST BROAD STREET  
RICHMOND, VIRGINIA 23219-2000

**Stephen Birch, P.E.**  
Commissioner

November 6, 2018

### MEMORANDUM

**TO:** Hong Ha, P.E. Project Manager, VDOT  
LJ Muchenje, Highway Noise Abatement Coordinator, VDOT

**FROM:** Alexander Nies, Air Quality & Acoustical Specialist

**SUBJECT:** Route 29 Widening Project, UPC 110329, Task Order Id: 46803-01

The 2009 General Assembly passed Chapter 120 (HB 2577, as amended by HB2025), which amends the Code of Virginia by adding in Article 15 of Chapter 1 of Title 33.1 a section numbered 33.1-223.2:21, relating to highway noise abatement.

House Bill 2025 States: Requires that whenever the Commonwealth Transportation Board or the Department plan for or undertake any highway construction or improvement project and such project includes or may include the requirement for the mitigation of traffic noise impacts, first consideration should be given to the use of noise reducing design and low noise pavement materials and techniques in lieu of construction of noise walls or sound barriers. Vegetative screening, such as the planting of appropriate conifers, in such a design would be utilized to act as a visual screen if visual screening is required.

In an effort to honor the intent of HB 2025 we are asking for your input (per [Chapter VI of Materials Division's Manual of Instruction](#) and [Section 2B-3 Determination of Roadway Design](#) of the VDOT Road Design manual (pages 2B-5 and 2B-6)). As part of the Noise Technical Report and technical files, we are seeking your professional opinion by providing comments for the project noted above. Please distribute this memorandum to the appropriate District staff and combine all responses into one response.

Should you have any questions, please contact me at (804) 762-5800. Thank you for your time and consideration regarding this request.

Comment: Is noise reducing design feasible in lieu of construction of noise walls or sound barriers? For example, the roadway alignment can be shifted away from noise sensitive receptors or the roadway can be placed in deep cut (Location & Design to address)

Response: The project proposes to widen the existing Route 29 corridor between Union Mill Road and Buckleys Gate Drive from a four-lane divided highway to a six-lane divided highway. The proposed roadway's horizontal and vertical geometry is generally predicated on the existing facility, available right-of-way, and constructability. Development adjacent to the corridor is mostly residential with some commercial development on both sides of the corridor. Several businesses and numerous residential access points also exist. Significant changes to the existing horizontal and vertical alignments would result in more right-of-way and property acquisitions resulting in a larger impact adjacent to the corridor. Due to the density of development on either side of the roadway, horizontal shifts in the alignment may not fully eliminate the need for noise attenuation. Furthermore, deep cuts in the vertical geometry would prohibit access and significantly increase project cost beyond the project's budget considering construction of sound barriers are necessary in the final design.

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Comment: Can the project support the use of low noise pavement in lieu of construction of noise walls or sound barriers? (Materials Division to address)

Response: The Virginia Department of Transportation is not authorized by the Federal Highway Administration to use "quiet pavement" at this time as a form of noise mitigation. Upon completion of the Quiet Pavement Pilot Program and approval from FHWA, the use of "quiet pavement" will be given additional consideration.

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Comment: Can landscaping be utilized to act as a visual screen if visual screening is required? (Location & Design to address)

Response: Landscaping can be used as a visual screen if required. The landscaping must be placed outside of the clear zone, must not decrease driver sight distance, and must not require additional right-of-way.

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**APPENDIX H**  
**TRAFFIC DATA SUMMARY**

LOUDEST HOUR MEMORANDUM

## ***MEMORANDUM***

**DATE:** October 2, 2018  
**TO:** LJ Muchenje, VDOT  
**FROM:** Alexander Nies, Noise Analyst  
**SUBJECT:** UPC 110329 - Loudest Hour Determination

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The purpose of this memo is to discuss the methodology for determining the loudest hour for Existing (2017), No-Build (2043), and Build (2043) noise modeling conditions, for the Route 29 Widening Project. This memo is being submitted for VDOT concurrence, prior to the calculation of sound levels for the Existing, No-Build, and Build scenarios as part of the preliminary design noise study.

### **Loudest Hour Determination**

The Environmental Traffic Data (ENTRADA) was linked into VDOT's "Loudest Hour Spreadsheet", version 2.0 for determination and identification of the loudest hour for noise modeling purposes. This predictive tool calculates reference Leqs at 50 feet for each TNM vehicle type, utilizing interrupted operation speeds and hourly peak-hour volumes over flat ground. Since Route 29 is the dominant noise source within the project area and carries the largest volumes of traffic, this determination focused solely on this roadway in an attempt to define a single loudest hour for the project area.

### **Build Conditions**

For the purpose of calculating the loudest hour, the project corridor was divided into six zones, i.e Zone 1 through Zone 6. The zones were based on the ENTRADA links that were provided for the project. Zone 1 represented the segment of Lee Highway from Union Mill Road to Buckelys Gate Drive. Zone 2 represented Centreville Farm Road from US-29 to the North. Zone 3 represented Clifton Road from US-29 to the South. Zone 4 represented Hampton Forest Way from US-29 to the South. Zone 5 represented Stringfellow Road from US-29 to the North. Zone 6 represented Union Mill Road from US-29 to the South. The analysis for the Build (2043) conditions indicates that the loudest hour for Zone 1 (Lee Highway (US 29)) is the 8:00 AM hour. The loudest hour for Zone 2 (Centerville Farm Road (Route 659)) is the 6:00 PM hour. Due to the lower traffic volumes in Zones 3 and 4, loudest hours were not analyzed for these areas. The loudest hour for Zone 5 (Stringfellow Road (Route 645)) is the 8:00 AM hour. The loudest hour



for Zone 6 (Union Mill Road (Route 659)) is the 5:00 PM hour. The combined Leqs for all roadway loudest hours are shown below in **Table 1**.

Since the proposed project is primarily located in Zone 1, it was decided that the loudest hour for the project be based on this zone. In addition, further analysis showed that when evaluating a combined Leq for the 8:00 AM hour of Zones 2 and 6, it represented a decrease in acoustic energy of 0.9 dB(A) respectively. The differences in peak hour acoustic energies within Zones 2 and 6 are minimal and will not have significant impacts upon overall Project noise levels.

The directional loudest hour was also analyzed to determine if it would result in a substantive difference in noise levels compared to the combined 8:00 AM hour. The results of this analysis showed that there was no substantive difference between the directional and combined loudest hours for this project.

1	2	3	4	5
Zone	Loudest Hour	Combined Leq	8:00 AM Hour	Difference
1	8:00 AM	70.7	----	----
2	6:00 PM	63.5	62.6	0.9
3	Roadway Not Considered			
4	Roadway Not Considered			
5	8:00 AM	65.4	----	----
6	5:00 PM	62.8	61.9	0.9

**Summary**

After evaluating these differences, McCormick Taylor Inc., (MT) recommends the 8:00 AM hour be used as the loudest hour for prediction of Build noise levels. Use of the 8:00 AM hour will provide consistent and balanced traffic volumes across the Project. For consistency purposes, the 8:00 AM hour will also be used for the Existing and No-Build scenarios. Upon concurrence with this memo, MT will continue refinement of the noise models and will begin noise level prediction for the Existing, No-Build and Build conditions.

EXISTING ENTRADA - PROESESSED

**VERSION 2.0**

**FINAL ADJUSTED FREE FLOW SPEEDS**

**TRAFFIC INPUTS FOR WORST CASE NOISE HOUR CALCULATION**

This section calculates volumes for each each vehicle type for each direction of tra



Compatible with ENTRADA v. 2017-01

Roadway	HOURS
Zone 1  Lee Hway, US-29 From Union Mill Road To Buckleys Gate Drive	0:00
	1:00
	2:00
	3:00
	4:00
	5:00
	6:00
	7:00
	8:00
	9:00
	10:00
	11:00
	12:00
	13:00
	14:00
	15:00
	16:00
	17:00
	18:00
	19:00
	20:00
	21:00
	22:00
	23:00

EXISTING		
EB or NB Hourly Un- interrupted Speed (mph)	WB or SB Hourly Un- interrupted Speed (mph)	FFS Speed (two way) (mph)
45.0	46.1	47.6
45.0	45.9	47.6
45.0	45.1	47.6
45.0	45.1	47.6
45.1	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.4	47.6
45.0	45.0	47.6
45.0	45.3	47.6

Existing					
EB or NB			WB or SB		
Autos	Med	Heavy	Autos	Med	Heavy
45	0	2	71	2	5
34	1	4	35	2	3
25	2	3	30	2	3
43	2	1	34	3	2
142	8	0	83	6	3
636	38	10	191	9	5
1572	50	38	325	21	8
1885	48	54	524	28	12
1914	53	51	578	26	14
1406	52	44	595	28	16
808	30	24	608	27	18
695	26	20	704	31	18
715	25	18	796	36	21
682	26	16	1007	40	26
650	23	19	1157	39	34
629	25	13	1520	45	46
660	19	11	1587	34	37
701	21	8	1424	25	38
696	15	8	1346	21	23
630	13	8	954	17	11
489	11	5	689	12	8
341	5	3	449	4	4
223	2	3	279	3	8
128	1	3	161	2	4



Compatible with ENTRADA v. 2017-01

**EXISTING**

is section calculates volumes for each each vehicle type for each direction of tra  
**Existing**

<b>Zone 2</b>	<b>0:00</b>
	<b>1:00</b>
	<b>2:00</b>
	<b>3:00</b>
	<b>4:00</b>
	<b>5:00</b>
	<b>6:00</b>
	<b>7:00</b>
	<b>8:00</b>
	<b>9:00</b>
	<b>10:00</b>
	<b>11:00</b>
	<b>12:00</b>
	<b>13:00</b>
	<b>14:00</b>
	<b>15:00</b>
	<b>16:00</b>
	<b>17:00</b>
	<b>18:00</b>
	<b>19:00</b>
	<b>20:00</b>
	<b>21:00</b>
	<b>22:00</b>
	<b>23:00</b>

40.7	40.7	42.0
40.7	40.7	42.0
40.7	40.7	42.0
40.7	40.7	42.0
40.7	40.7	42.0
40.7	40.7	42.0
40.7	40.7	42.0
40.7	40.7	42.0
40.7	40.7	42.0
40.7	40.7	42.0
40.7	40.7	42.0
40.7	40.7	42.0
40.7	40.7	42.0
40.7	40.7	42.0
40.7	40.7	42.0
40.7	40.6	42.0
40.7	40.6	42.0
40.7	40.6	42.0
40.7	40.7	42.0
40.7	40.7	42.0
40.7	40.7	42.0
40.7	40.7	42.0
40.7	40.7	42.0

19	0	0	28	0	0
11	0	0	18	0	0
4	0	0	8	0	0
12	0	0	8	0	0
27	1	1	13	0	0
98	3	1	31	1	0
206	7	3	102	3	1
309	8	8	199	5	2
330	8	7	203	5	3
280	8	4	199	5	3
190	5	4	181	3	4
196	6	4	205	6	4
215	6	5	225	5	5
204	8	3	251	7	4
207	6	2	304	7	6
240	9	3	382	11	9
248	3	4	415	7	7
246	5	4	365	4	7
282	5	6	394	7	8
260	4	2	346	5	4
188	3	1	279	2	3
122	1	0	197	3	2
77	0	0	147	1	0
42	0	0	68	1	0

<b>Zone 3</b>	<b>0:00</b>
	<b>1:00</b>
	<b>2:00</b>
	<b>3:00</b>
	<b>4:00</b>
	<b>5:00</b>
	<b>6:00</b>

45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8

28	0	0	60	1	0
17	0	0	26	0	1
8	0	0	19	1	1
19	1	0	12	1	0
89	4	1	22	1	0
304	20	4	73	3	1
625	21	10	208	12	5



Compatible with ENTRADA v. 2017-01

Clifton Road, Route 645 From US-31 To to the South	7:00
	8:00
	9:00
	10:00
	11:00
	12:00
	13:00
	14:00
	15:00
	16:00
	17:00
	18:00
	19:00
	20:00
21:00	
22:00	
23:00	

EXISTING

EB or NB	WB or SB	
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8

This section calculates volumes for each each vehicle type for each direction of tra

Existing

EB or NB			WB or SB		
915	34	22	288	17	10
1005	21	20	307	19	7
685	19	14	313	15	8
372	11	7	298	9	5
341	15	6	369	16	4
343	18	7	382	15	6
339	13	7	443	14	8
329	14	7	614	18	11
414	20	4	839	21	14
478	14	3	990	19	11
456	12	6	1015	13	13
491	12	5	956	16	14
386	9	3	661	7	6
260	5	0	542	6	5
191	1	0	379	3	2
120	3	0	253	3	0
72	1	1	131	1	0

Zone 4

Hampton Forest Way From US-31 To to the South	0:00
	1:00
	2:00
	3:00
	4:00
	5:00
	6:00
	7:00
	8:00
	9:00
	10:00
	11:00
	12:00
	13:00
14:00	

29.7	30.2	32.2
30.1	25.0	32.2
33.0	25.0	32.2
28.8	29.3	32.2
30.4	29.3	32.2
30.8	28.8	32.2
29.9	26.3	32.2
31.1	26.1	32.2
31.1	25.5	32.2
31.2	26.2	32.2
30.5	26.5	32.2
30.0	27.6	32.2
30.2	26.0	32.2
29.9	26.3	32.2
28.3	26.8	32.2

3	0	0	9	0	0
2	0	0	4	0	0
1	0	0	1	0	0
2	0	0	1	0	0
11	0	0	3	0	0
51	0	0	4	0	0
83	3	0	11	1	0
198	3	0	30	1	1
162	4	0	45	4	1
109	4	1	52	4	0
82	2	0	58	2	0
76	4	1	64	2	1
79	3	1	82	4	0
74	3	1	89	3	1
76	2	1	98	3	1



**Compatible with ENTRADA v. 2017-01**

	<b>15:00</b>
	<b>16:00</b>
	<b>17:00</b>
	<b>18:00</b>
	<b>19:00</b>
	<b>20:00</b>
	<b>21:00</b>
	<b>22:00</b>
	<b>23:00</b>

**EXISTING**

EB or NB	WB or SB	
28.1	27.6	32.2
28.5	27.3	32.2
29.5	27.1	32.2
30.3	26.5	32.2
29.4	27.9	32.2
29.8	27.7	32.2
31.1	27.5	32.2
28.8	27.9	32.2
30.5	27.7	32.2

This section calculates volumes for each each vehicle type for each direction of tra

**Existing**

EB or NB			WB or SB		
77	1	1	152	2	1
89	2	1	260	8	3
90	2	1	295	4	1
100	2	1	266	3	0
75	3	1	147	1	1
54	1	0	141	2	0
27	0	0	88	0	0
19	0	0	44	0	0
12	0	0	25	0	0

**Zone 5**

	<b>0:00</b>
	<b>1:00</b>
	<b>2:00</b>
	<b>3:00</b>
	<b>4:00</b>
	<b>5:00</b>
	<b>6:00</b>
	<b>7:00</b>
	<b>8:00</b>
	<b>9:00</b>
	<b>10:00</b>
	<b>11:00</b>
	<b>12:00</b>
	<b>13:00</b>
	<b>14:00</b>
	<b>15:00</b>
	<b>16:00</b>
	<b>17:00</b>
	<b>18:00</b>
	<b>19:00</b>
	<b>20:00</b>
	<b>21:00</b>
	<b>22:00</b>

45.0	46.1	51.8
45.0	45.7	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8

36	0	0	53	1	1
21	0	0	34	1	1
8	0	0	15	1	0
22	1	0	15	1	0
52	1	2	25	0	0
186	6	1	58	2	0
390	13	6	192	6	1
585	16	16	377	9	4
624	14	14	383	10	6
529	14	8	375	9	5
359	9	8	342	5	8
371	11	7	386	11	7
406	11	9	425	10	9
386	15	6	474	12	7
392	10	4	575	13	11
452	17	6	722	20	17
468	7	7	783	14	13
465	9	7	689	8	14
533	9	10	744	13	16
490	8	3	653	10	7
355	5	2	527	4	5
231	2	1	371	5	3
145	1	1	278	3	1

<b>Compatible with ENTRADA v. 2017-01</b>	
	<b>23:00</b>

EXISTING		
EB or NB	WB or SB	
45.0	45.0	51.8

Existing					
EB or NB			WB or SB		
80	1	0	128	1	0

Zone 6	
Union Mill Road, Route 659 From US-31 To the South	0:00
	1:00
	2:00
	3:00
	4:00
	5:00
	6:00
	7:00
	8:00
	9:00
	10:00
	11:00
	12:00
	13:00
	14:00
	15:00
	16:00
	17:00
	18:00
	19:00
	20:00
	21:00
	22:00
	23:00

38.9	35.0	42.0
40.2	35.0	42.0
39.1	35.0	42.0
40.0	35.0	42.0
40.2	35.0	42.0
39.3	35.0	42.0
35.0	35.0	42.0
35.0	35.0	42.0
35.0	35.0	42.0
35.8	35.0	42.0
37.8	35.0	42.0
37.7	35.0	42.0
37.0	35.0	42.0
38.3	35.0	42.0
37.6	35.0	42.0
35.0	35.0	42.0
36.9	35.0	42.0
36.4	35.0	42.0
35.2	35.0	42.0
36.7	35.0	42.0
37.5	35.0	42.0
38.6	35.0	42.0
39.2	35.0	42.0
40.2	35.0	42.0

17	0	0	40	0	1
9	0	1	17	0	0
8	1	0	12	0	1
13	1	1	10	0	1
36	3	1	17	0	2
153	10	1	33	3	1
327	17	5	131	4	4
594	16	6	421	15	7
625	21	6	327	11	6
440	18	6	284	13	4
286	12	6	245	7	4
264	12	5	283	8	3
314	12	4	357	7	3
307	13	3	354	7	4
285	13	4	388	8	5
379	14	6	481	8	7
360	10	3	633	11	8
411	12	5	797	9	8
380	10	2	752	6	9
343	7	1	577	6	3
260	4	0	432	5	3
184	4	1	296	1	1
86	3	0	185	1	1
50	1	0	100	0	0

NO BUILD ENTRADA - PROESESSED



**VERSION 2.0**

**FINAL ADJUSTED FREE FLOW SPEEDS**

**TRAFFIC INPUTS FOR WORST CASE NOISE HOUR CALCULATION**

Compatible with ENTRADA v. 2017-01

This section calculates volumes for each each vehicle type for each direction of tra

Roadway	HOURS
<b>Zone 1</b>  Lee Hway, US-29 From Union Mill Road To Buckleys Gate Drive	0:00
	1:00
	2:00
	3:00
	4:00
	5:00
	6:00
	7:00
	8:00
	9:00
	10:00
	11:00
	12:00
	13:00
	14:00
	15:00
	16:00
	17:00
	18:00
	19:00
	20:00
	21:00
	22:00
	23:00

NO-BUILD		
EB or NB Hourly Un- interrupted Speed (mph)	WB or SB Hourly Un- interrupted Speed (mph)	FFS Speed (two way) (mph)
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6

No Build					
EB or NB			WB or SB		
Autos	Med	Heavy	Autos	Med	Heavy
59	0	3	95	3	7
45	1	5	47	2	4
33	3	3	39	3	4
57	3	1	45	4	2
190	10	1	111	7	4
848	50	13	254	12	6
2096	67	51	434	28	11
2514	64	72	698	37	16
2552	71	69	771	34	18
1875	70	59	793	38	21
1077	40	32	811	37	24
926	34	27	938	41	24
953	33	25	1061	47	28
909	35	21	1343	53	35
867	31	25	1542	52	45
838	33	17	2027	59	61
879	25	15	2116	46	49
935	28	11	1898	33	50
927	21	10	1795	29	30
840	17	10	1272	23	14
652	14	6	919	16	11
455	7	4	598	5	5
297	3	4	372	4	11
171	2	4	214	3	5



Compatible with ENTRADA v. 2017-01

NO-BUILD		
EB or NB	WB or SB	

No Build					
EB or NB			WB or SB		

Zone 2	
Centreville Farm Road, Route 659 From US-31 To to the North	0:00
	1:00
	2:00
	3:00
	4:00
	5:00
	6:00
	7:00
	8:00
	9:00
	10:00
	11:00
	12:00
	13:00
	14:00
	15:00
	16:00
	17:00
	18:00
	19:00
	20:00
	21:00
	22:00
	23:00

40.7	40.7	42.0
40.7	40.7	42.0
40.7	40.7	42.0
40.7	40.7	42.0
40.7	40.7	42.0
40.7	40.7	42.0
40.7	40.7	42.0
40.7	40.7	42.0
40.6	40.7	42.0
40.5	40.7	42.0
40.6	40.7	42.0
40.7	40.7	42.0
40.7	40.7	42.0
40.7	40.7	42.0
40.7	40.7	42.0
40.7	40.6	42.0
40.7	40.3	42.0
40.7	40.3	42.0
40.7	40.5	42.0
40.6	40.3	42.0
40.7	40.5	42.0
40.7	40.7	42.0
40.7	40.7	42.0
40.7	40.7	42.0
40.7	40.7	42.0

26	0	0	38	0	1
15	0	0	24	1	0
6	0	0	10	1	0
16	0	0	11	0	0
37	1	1	17	0	0
131	4	1	41	2	0
275	9	4	136	4	1
413	11	11	266	7	3
440	10	10	270	7	4
374	10	6	265	7	3
254	7	6	241	4	6
262	8	5	273	8	5
286	8	6	300	7	7
272	11	4	335	9	5
276	7	3	406	9	8
319	12	4	510	14	12
330	5	5	553	10	9
328	6	5	486	6	10
376	6	7	525	9	11
346	6	2	461	7	5
250	3	2	372	3	4
163	2	1	262	4	2
103	1	0	196	2	0
57	1	0	90	1	0

Zone 3	
	0:00
	1:00
	2:00
	3:00
	4:00
	5:00
	6:00

45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8

38	0	0	79	1	0
23	0	0	34	0	1
10	0	0	25	1	1
25	2	0	16	1	0
118	5	1	30	1	0
406	27	5	97	4	1
834	28	13	278	16	6



Compatible with ENTRADA v. 2017-01

Clifton Road, Route 645 From US-31 To to the South	7:00
	8:00
	9:00
	10:00
	11:00
	12:00
	13:00
	14:00
	15:00
	16:00
	17:00
	18:00
	19:00
	20:00
21:00	
22:00	
23:00	

NO-BUILD

EB or NB	WB or SB	
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8

This section calculates volumes for each each vehicle type for each direction of tra

No Build

EB or NB			WB or SB		
1220	45	30	384	22	14
1340	28	27	409	25	9
914	25	19	418	20	11
496	14	9	397	12	6
455	20	8	492	22	6
458	24	9	510	20	8
452	17	9	590	18	10
438	18	10	819	24	15
552	27	5	1118	28	19
638	19	4	1320	26	14
608	16	8	1353	17	17
654	16	6	1275	21	19
515	12	4	882	9	8
347	7	0	723	8	6
255	1	0	505	4	3
160	4	0	337	4	0
96	2	1	175	1	0

Zone 4

Hampton Forest Way From US-31 To to the South	0:00
	1:00
	2:00
	3:00
	4:00
	5:00
	6:00
	7:00
	8:00
	9:00
	10:00
	11:00
	12:00
	13:00
14:00	

27.8	27.8	32.2
27.8	25.0	32.2
27.8	25.0	32.2
27.8	27.8	32.2
27.8	27.8	32.2
27.8	27.8	32.2
27.8	26.3	32.2
27.8	26.1	32.2
27.8	25.5	32.2
27.8	26.2	32.2
27.8	26.5	32.2
27.8	27.6	32.2
27.8	26.0	32.2
27.8	26.3	32.2
27.8	26.8	32.2

3	0	0	10	0	0
3	0	0	5	0	0
1	0	0	2	0	0
2	0	0	2	0	0
13	0	0	3	0	0
59	0	0	5	0	0
95	3	0	13	1	0
228	4	0	35	1	1
186	5	0	51	4	1
125	5	1	60	4	0
94	3	0	66	3	0
88	5	1	74	3	1
90	3	1	94	4	0
85	4	1	102	4	1
87	3	1	113	3	1



**Compatible with ENTRADA v. 2017-01**

	<b>15:00</b>
	<b>16:00</b>
	<b>17:00</b>
	<b>18:00</b>
	<b>19:00</b>
	<b>20:00</b>
	<b>21:00</b>
	<b>22:00</b>
	<b>23:00</b>

**NO-BUILD**

EB or NB	WB or SB	
27.8	27.6	32.2
27.8	27.1	32.2
27.8	26.8	32.2
27.8	26.4	32.2
27.8	27.8	32.2
27.8	27.6	32.2
27.8	27.5	32.2
27.8	27.8	32.2
27.8	27.7	32.2

This section calculates volumes for each vehicle type for each direction of traffic

**No Build**

EB or NB			WB or SB		
89	1	1	175	3	1
103	2	1	299	9	3
103	3	1	340	5	1
115	2	1	306	3	0
86	4	1	169	1	1
62	1	0	163	2	0
31	0	0	101	0	0
22	0	0	51	0	0
14	0	0	29	0	0

**Zone 5**

	<b>0:00</b>
	<b>1:00</b>
	<b>2:00</b>
	<b>3:00</b>
	<b>4:00</b>
	<b>5:00</b>
	<b>6:00</b>
	<b>7:00</b>
	<b>8:00</b>
	<b>9:00</b>
<b>Stringfellow Road, Route 645</b>	<b>10:00</b>
<b>From</b>	<b>11:00</b>
<b>US-31</b>	<b>12:00</b>
<b>To</b>	<b>13:00</b>
<b>to the North</b>	<b>14:00</b>
	<b>15:00</b>
	<b>16:00</b>
	<b>17:00</b>
	<b>18:00</b>
	<b>19:00</b>
	<b>20:00</b>
	<b>21:00</b>
	<b>22:00</b>

45.0	46.1	51.8
45.0	45.7	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8

49	0	0	72	1	1
28	0	0	46	1	1
11	0	0	20	1	0
30	1	0	21	1	0
70	2	2	33	0	0
251	8	2	79	3	0
527	17	8	260	8	2
791	21	21	509	13	5
844	19	18	518	13	8
716	20	11	508	13	7
486	13	11	462	7	11
502	15	10	523	15	10
549	15	12	575	14	13
522	21	8	641	17	10
530	14	5	778	17	15
612	23	8	977	27	23
633	9	9	1060	19	17
629	12	10	932	11	18
721	12	14	1006	18	21
664	11	4	884	14	9
480	7	3	713	5	7
312	3	1	502	7	5
197	1	1	376	3	1

<b>Compatible with ENTRADA v. 2017-01</b>	
	<b>23:00</b>

<b>NO-BUILD</b>		
EB or NB	WB or SB	
45.0	45.0	51.8

This section calculates volumes for each vehicle type for each direction of tra					
<b>No Build</b>					
EB or NB			WB or SB		
108	1	0	173	2	0

<b>Zone 6</b>	<b>0:00</b>
	<b>1:00</b>
<b>Union Mill Road, Route 659 From US-31 To to the South</b>	<b>2:00</b>
	<b>3:00</b>
	<b>4:00</b>
	<b>5:00</b>
	<b>6:00</b>
	<b>7:00</b>
	<b>8:00</b>
	<b>9:00</b>
	<b>10:00</b>
	<b>11:00</b>
	<b>12:00</b>
	<b>13:00</b>
	<b>14:00</b>
	<b>15:00</b>
	<b>16:00</b>
	<b>17:00</b>
	<b>18:00</b>
	<b>19:00</b>
	<b>20:00</b>
	<b>21:00</b>
<b>22:00</b>	
<b>23:00</b>	

38.9	35.0	42.0
40.2	35.0	42.0
39.1	35.0	42.0
40.0	35.0	42.0
40.2	35.0	42.0
39.3	35.0	42.0
35.0	35.0	42.0
35.0	35.0	42.0
35.0	35.0	42.0
35.2	35.0	42.0
37.7	35.0	42.0
37.6	35.0	42.0
36.9	35.0	42.0
38.2	35.0	42.0
37.5	35.0	42.0
35.0	35.0	42.0
36.7	35.0	42.0
36.0	35.0	42.0
35.0	35.0	42.0
36.5	35.0	42.0
37.4	35.0	42.0
38.6	35.0	42.0
39.2	35.0	42.0
40.2	35.0	42.0

23	0	0	55	0	1
12	0	1	24	0	0
10	1	0	17	0	1
18	2	1	14	0	1
49	5	2	23	0	3
207	14	2	44	4	1
443	23	7	177	6	6
806	22	9	571	20	10
848	29	8	444	14	9
597	24	8	386	18	5
388	16	8	333	10	6
359	16	7	385	10	4
426	17	6	484	9	4
417	17	5	481	9	5
386	18	5	527	11	7
515	19	8	652	11	10
489	13	4	860	14	11
558	16	7	1082	12	11
516	14	3	1021	8	12
465	10	2	783	8	4
353	6	0	587	7	4
250	5	1	402	1	1
117	4	0	252	1	1
68	1	0	136	0	0

BUILD ENTRADA - PROECESSED

**VERSION 2.0**

**FINAL ADJUSTED FREE FLOW SPEEDS**

**TRAFFIC INPUTS FOR WORST CASE NOISE HOUR CALCULATION**



Compatible with ENTRADA v. 2017-01

Roadway	HOURS
<b>Zone 1</b>	<b>0:00</b>
	<b>1:00</b>
	<b>2:00</b>
<b>Lee Hway, US-29 From Union Mill Road To Buckleys Gate Drive</b>	<b>3:00</b>
	<b>4:00</b>
	<b>5:00</b>
	<b>6:00</b>
	<b>7:00</b>
	<b>8:00</b>
	<b>9:00</b>
	<b>10:00</b>
	<b>11:00</b>
	<b>12:00</b>
	<b>13:00</b>
	<b>14:00</b>
	<b>15:00</b>
	<b>16:00</b>
	<b>17:00</b>
	<b>18:00</b>
	<b>19:00</b>
	<b>20:00</b>
	<b>21:00</b>
	<b>22:00</b>
<b>23:00</b>	

BUILD		
EB or NB Hourly Un- interrupted Speed (mph)	WB or SB Hourly Un- interrupted Speed (mph)	FFS Speed (two way) (mph)
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6
45.0	45.0	47.6

This section calculates volumes for each each vehicle type for each direction of tra

Build					
EB or NB			WB or SB		
Autos	Med	Heavy	Autos	Med	Heavy
59	0	3	95	3	7
45	1	5	47	2	4
33	3	3	39	3	4
57	3	1	45	4	2
190	10	1	111	7	4
848	50	13	254	12	6
2096	67	51	434	28	11
2514	64	72	698	37	16
2552	71	69	771	34	18
1875	70	59	793	38	21
1077	40	32	811	37	24
926	34	27	938	41	24
953	33	25	1061	47	28
909	35	21	1343	53	35
867	31	25	1542	52	45
838	33	17	2027	59	61
879	25	15	2116	46	49
935	28	11	1898	33	50
927	21	10	1795	29	30
840	17	10	1272	23	14
652	14	6	919	16	11
455	7	4	598	5	5
297	3	4	372	4	11
171	2	4	214	3	5



Compatible with ENTRADA v. 2017-01

BUILD		
EB or NB	WB or SB	

Build					
EB or NB			WB or SB		

Zone 2	
Centreville Farm Road, Route 659 From US-31 To to the North	0:00
	1:00
	2:00
	3:00
	4:00
	5:00
	6:00
	7:00
	8:00
	9:00
	10:00
	11:00
	12:00
	13:00
14:00	
15:00	
16:00	
17:00	
18:00	
19:00	
20:00	
21:00	
22:00	
23:00	

40.7	40.7	42.0
40.7	40.7	42.0
40.7	40.7	42.0
40.7	40.7	42.0
40.7	40.7	42.0
40.7	40.7	42.0
40.7	40.7	42.0
40.6	40.7	42.0
40.5	40.7	42.0
40.6	40.7	42.0
40.7	40.7	42.0
40.7	40.7	42.0
40.7	40.7	42.0
40.7	40.7	42.0
40.7	40.6	42.0
40.7	40.3	42.0
40.7	40.3	42.0
40.7	40.5	42.0
40.6	40.3	42.0
40.7	40.5	42.0
40.7	40.7	42.0
40.7	40.7	42.0
40.7	40.7	42.0
40.7	40.7	42.0

26	0	0	38	0	1
15	0	0	24	1	0
6	0	0	10	1	0
16	0	0	11	0	0
37	1	1	17	0	0
131	4	1	41	2	0
275	9	4	136	4	1
413	11	11	266	7	3
440	10	10	270	7	4
374	10	6	265	7	3
254	7	6	241	4	6
262	8	5	273	8	5
286	8	6	300	7	7
272	11	4	335	9	5
276	7	3	406	9	8
319	12	4	510	14	12
330	5	5	553	10	9
328	6	5	486	6	10
376	6	7	525	9	11
346	6	2	461	7	5
250	3	2	372	3	4
163	2	1	262	4	2
103	1	0	196	2	0
57	1	0	90	1	0

Zone 3	
	0:00
	1:00
	2:00
	3:00
	4:00
	5:00
	6:00

45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8

38	0	0	79	1	0
23	0	0	34	0	1
10	0	0	25	1	1
25	2	0	16	1	0
118	5	1	30	1	0
406	27	5	97	4	1
834	28	13	278	16	6





Compatible with ENTRADA v. 2017-01

<b>Clifton Road, Route 645 From US-31 To to the South</b>	<b>7:00</b>
	<b>8:00</b>
	<b>9:00</b>
	<b>10:00</b>
	<b>11:00</b>
	<b>12:00</b>
	<b>13:00</b>
	<b>14:00</b>
	<b>15:00</b>
	<b>16:00</b>
	<b>17:00</b>
	<b>18:00</b>
	<b>19:00</b>
	<b>20:00</b>
<b>21:00</b>	
<b>22:00</b>	
<b>23:00</b>	

**BUILD**

EB or NB	WB or SB	
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8

This section calculates volumes for each each vehicle type for each direction of tra

**Build**

EB or NB			WB or SB		
1220	45	30	384	22	14
1340	28	27	409	25	9
914	25	19	418	20	11
496	14	9	397	12	6
455	20	8	492	22	6
458	24	9	510	20	8
452	17	9	590	18	10
438	18	10	819	24	15
552	27	5	1118	28	19
638	19	4	1320	26	14
608	16	8	1353	17	17
654	16	6	1275	21	19
515	12	4	882	9	8
347	7	0	723	8	6
255	1	0	505	4	3
160	4	0	337	4	0
96	2	1	175	1	0

**Zone 4**

<b>Hampton Forest Way From US-31 To to the South</b>	<b>0:00</b>
	<b>1:00</b>
	<b>2:00</b>
	<b>3:00</b>
	<b>4:00</b>
	<b>5:00</b>
	<b>6:00</b>
	<b>7:00</b>
	<b>8:00</b>
	<b>9:00</b>
	<b>10:00</b>
	<b>11:00</b>
	<b>12:00</b>
	<b>13:00</b>
<b>14:00</b>	

27.8	27.8	32.2
27.8	25.0	32.2
27.8	25.0	32.2
27.8	27.8	32.2
27.8	27.8	32.2
27.8	27.8	32.2
27.8	26.3	32.2
27.8	26.1	32.2
27.8	25.5	32.2
27.8	26.2	32.2
27.8	26.5	32.2
27.8	27.6	32.2
27.8	26.0	32.2
27.8	26.3	32.2
27.8	26.8	32.2

3	0	0	10	0	0
3	0	0	5	0	0
1	0	0	2	0	0
2	0	0	2	0	0
13	0	0	3	0	0
59	0	0	5	0	0
95	3	0	13	1	0
228	4	0	35	1	1
186	5	0	51	4	1
125	5	1	60	4	0
94	3	0	66	3	0
88	5	1	74	3	1
90	3	1	94	4	0
85	4	1	102	4	1
87	3	1	113	3	1



**Compatible with ENTRADA v. 2017-01**

	<b>15:00</b>
	<b>16:00</b>
	<b>17:00</b>
	<b>18:00</b>
	<b>19:00</b>
	<b>20:00</b>
	<b>21:00</b>
	<b>22:00</b>
	<b>23:00</b>

**BUILD**

EB or NB	WB or SB	
27.8	27.6	32.2
27.8	27.1	32.2
27.8	26.8	32.2
27.8	26.4	32.2
27.8	27.8	32.2
27.8	27.6	32.2
27.8	27.5	32.2
27.8	27.8	32.2
27.8	27.7	32.2

This section calculates volumes for each each vehicle type for each direction of tra

**Build**

EB or NB			WB or SB		
89	1	1	175	3	1
103	2	1	299	9	3
103	3	1	340	5	1
115	2	1	306	3	0
86	4	1	169	1	1
62	1	0	163	2	0
31	0	0	101	0	0
22	0	0	51	0	0
14	0	0	29	0	0

**Zone 5**

	<b>0:00</b>
	<b>1:00</b>
	<b>2:00</b>
	<b>3:00</b>
	<b>4:00</b>
	<b>5:00</b>
	<b>6:00</b>
	<b>7:00</b>
	<b>8:00</b>
	<b>9:00</b>
	<b>10:00</b>
	<b>11:00</b>
	<b>12:00</b>
	<b>13:00</b>
	<b>14:00</b>
	<b>15:00</b>
	<b>16:00</b>
	<b>17:00</b>
	<b>18:00</b>
	<b>19:00</b>
	<b>20:00</b>
	<b>21:00</b>
	<b>22:00</b>

**Stringfellow Road, Route 645  
From  
US-31  
To  
to the North**

45.0	46.1	51.8
45.0	45.7	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8
45.0	45.0	51.8

49	0	0	72	1	1
28	0	0	46	1	1
11	0	0	20	1	0
30	1	0	21	1	0
70	2	2	33	0	0
251	8	2	79	3	0
527	17	8	260	8	2
791	21	21	509	13	5
844	19	18	518	13	8
716	20	11	508	13	7
486	13	11	462	7	11
502	15	10	523	15	10
549	15	12	575	14	13
522	21	8	641	17	10
530	14	5	778	17	15
612	23	8	977	27	23
633	9	9	1060	19	17
629	12	10	932	11	18
721	12	14	1006	18	21
664	11	4	884	14	9
480	7	3	713	5	7
312	3	1	502	7	5
197	1	1	376	3	1

<b>Compatible with ENTRADA v. 2017-01</b>	
	<b>23:00</b>

<b>BUILD</b>		
EB or NB	WB or SB	
45.0	45.0	51.8

This section calculates volumes for each vehicle type for each direction of travel

<b>Build</b>					
EB or NB			WB or SB		
108	1	0	173	2	0

<b>Zone 6</b>	<b>0:00</b>
	<b>1:00</b>
<b>Union Mill Road, Route 659 From US-31 To to the South</b>	<b>2:00</b>
	<b>3:00</b>
	<b>4:00</b>
	<b>5:00</b>
	<b>6:00</b>
	<b>7:00</b>
	<b>8:00</b>
	<b>9:00</b>
	<b>10:00</b>
	<b>11:00</b>
	<b>12:00</b>
	<b>13:00</b>
	<b>14:00</b>
	<b>15:00</b>
	<b>16:00</b>
	<b>17:00</b>
	<b>18:00</b>
	<b>19:00</b>
	<b>20:00</b>
	<b>21:00</b>
	<b>22:00</b>
<b>23:00</b>	

38.9	35.0	42.0
40.2	35.0	42.0
39.1	35.0	42.0
40.0	35.0	42.0
40.2	35.0	42.0
39.3	35.0	42.0
35.0	35.0	42.0
35.0	35.0	42.0
35.0	35.0	42.0
35.2	35.0	42.0
37.7	35.0	42.0
37.6	35.0	42.0
36.9	35.0	42.0
38.2	35.0	42.0
37.5	35.0	42.0
35.0	35.0	42.0
36.7	35.0	42.0
36.0	35.0	42.0
35.0	35.0	42.0
36.5	35.0	42.0
37.4	35.0	42.0
38.6	35.0	42.0
39.2	35.0	42.0
40.2	35.0	42.0

23	0	0	55	0	1
12	0	1	24	0	0
10	1	0	17	0	1
18	2	1	14	0	1
49	5	2	23	0	3
207	14	2	44	4	1
443	23	7	177	6	6
806	22	9	571	20	10
848	29	8	444	14	9
597	24	8	386	18	5
388	16	8	333	10	6
359	16	7	385	10	4
426	17	6	484	9	4
417	17	5	481	9	5
386	18	5	527	11	7
515	19	8	652	11	10
489	13	4	860	14	11
558	16	7	1082	12	11
516	14	3	1021	8	12
465	10	2	783	8	4
353	6	0	587	7	4
250	5	1	402	1	1
117	4	0	252	1	1
68	1	0	136	0	0

**APPENDIX I**  
**REFERENCES**

## References

- Procedures for Abatement of Highway Traffic Noise and Construction Noise 23 CFR 772. 2011.
- U.S. Department of Transportation, Federal Highway Administration, *Highway Traffic Noise: Analysis and Abatement Guidance*, FHWA Report No. FHWA-HEP-10-025, December 2011.
- U.S. Department of Transportation, Federal Highway Administration, *Noise Measurement Handbook FHWA Report No. FHWA-HEP-18-065*, June 2018.
- Virginia State Noise Abatement Policy
- Code of Virginia Noise Abatement Practices and Technologies, Section 33.1-223.2:21. 2013, (HB 2577).
- Virginia Department of Transportation, *Highway Traffic Noise Impact Analysis Guidance Manual*, approved March 15, 2011, effective July 13, 2011, updated February 20th, 2018.
- Virginia Department of Transportation, 2016 *Road and Bridge Specifications*, Section 107.16(b.3) “Noise.”

**APPENDIX J**  
LIST OF PREPARERS AND REVIEWERS

## List of Preparers/Reviewers

### *McCormick Taylor, Inc.*

**Fred A. Eisen**

Senior Acoustic Specialist

Education: Some College Credits

Professional Experience: 17 Years

Role: Project Coordination, Noise Modeling, Report Preparation & QA/QC

**Kenneth D. Polcak**

Senior Acoustic Specialist

Education: B.S., Civil Engineering (Environmental Emphasis)

Professional Experience: 40 Years

Role: QA/QC

**Jenna N. Cooley, AICP**

Noise Analyst

Education: B.S., Environmental Policy and Planning

Professional Experience: 6 Years

Role: Report Preparation & QA/QC

**William T. Wentzien, P.E., PTOE**

Project Manager

Education: B.S., Civil Engineering

Professional Experience: 20 Years

Role: QA/QC

**Tyler J. Betz**

Noise Analyst

Education: B.S., Geo-Environmental Studies

Professional Experience: 1 Year

Role: Noise Modeling

### *Virginia Department of Transportation (VDOT)*

**Lovejoy Muchenje, P.E.**

Highway Noise Abatement Coordinator

B.S., Mechanical Engineering

Professional Experience: 12 Years

Role in the project: Reviewer/Noise Study Project Manager

**APPENDIX K**  
NOISE METER AND ACOUSTICAL CALIBRATOR  
CALIBRATION CERTIFICATES



Meter 7

**Scantek, Inc.**  
CALIBRATION LABORATORY

ISO 17025: 2005, ANSI/NCSL Z540:1994 Part 1  
ACCREDITED by NVLAP (an ILAC MRA signatory)

**NVLAP**<sup>®</sup>  
CALIBRATION  
NVLAP Lab Code: 200625-0

## Calibration Certificate No.40956

**Instrument:** Sound Level Meter  
**Model:** NL42  
**Manufacturer:** Rion  
**Serial number:** 00245571\_032381  
**Tested with:** Microphone UC52 s/n 150894  
Preamplifier NH24 s/n 35571  
**Type (class):** 2  
**Customer:** McCormick Taylor, Inc.  
**Tel/Fax:** 717-540-6040 / -6049

**Date Calibrated:** 6/25/2018 **Cal Due:**  
**Status:**

	Received	Sent
<b>In tolerance:</b>	X	X
<b>Out of tolerance:</b>		

**See comments:**  
**Contains non-accredited tests:** \_\_\_ Yes X No  
**Calibration service:** \_\_\_ Basic X Standard  
**Address:** 5 Capital Drive, Suite 400,  
Harrisburg, PA 17110

**Tested in accordance with the following procedures and standards:**  
Calibration of Sound Level Meters, Scantek Inc., Rev. 6/26/2015  
SLM & Dosimeters – Acoustical Tests, Scantek Inc., Rev. 7/6/2011

**Instrumentation used for calibration:** Nor-1504 Norsonic Test System:

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence	Cal. Due
				Cal. Lab / Accreditation	
483B-Norsonic	SME Cal Unit	31052	Oct 30, 2017	Scantek, Inc./ NVLAP	Oct 30, 2018
DS-360-SRS	Function Generator	33584	Oct 24, 2017	ACR Env./ A2LA	Oct 24, 2019
34401A-Agilent Technologies	Digital Voltmeter	US36120731	Oct 25, 2017	ACR Env. / A2LA	Oct 25, 2018
HM30-Thommen	Meteo Station	1040170/39633	Oct 25, 2017	ACR Env./ A2LA	Oct 25, 2018
PC Program 1019 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	-
1251-Norsonic	Calibrator	30878	Nov 10, 2017	Scantek, Inc./ NVLAP	Nov 10, 2018
4226-Brüel&Kjær	Multifunction calibrator	2305103	Sep 5, 2017	B&K / A2LA	Sep 5, 2018

**Instrumentation and test results are traceable to SI (International System of Units) through standards maintained by NIST (USA) and NPL (UK).**

**Environmental conditions:**

Temperature (°C)	Barometric pressure (kPa)	Relative Humidity (%)
22.4	100.30	52.6

<b>Calibrated by:</b>	Lydon Dawkins	<b>Authorized signatory:</b>	Steven E. Marshall
Signature	<i>Lydon Dawkins</i>	Signature	<i>Steven E Marshall</i>
Date	6/25/2018	Date	6/26/2018

Calibration Certificates or Test Reports shall not be reproduced, except in full, without written approval of the laboratory. This Calibration Certificate or Test Reports shall not be used to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the federal government.



Meter 8

**Scantek, Inc.**  
CALIBRATION LABORATORY

ISO 17025: 2005, ANSI/NCSL Z540:1994 Part 1  
ACCREDITED by NVLAP (an ILAC MRA signatory)

**NVLAP**<sup>®</sup>  
CALIBRATION  
NVLAP Lab Code: 200625-0

## Calibration Certificate No.40957

**Instrument:** Sound Level Meter  
**Model:** NL42  
**Manufacturer:** Rion  
**Serial number:** 00345929  
**ID Number:** 017998  
**Tested with:** Microphone UC52 s/n 150747  
Preamplifier NH24 s/n 36127  
**Type (class):** 2  
**Customer:** McCormick Taylor, Inc.  
**Tel/Fax:** 717-540-6040 / -6049

**Date Calibrated:** 6/25/2018 **Cal Due:**  
**Status:**

	<b>Received</b>	<b>Sent</b>
<b>In tolerance:</b>	X	X
<b>Out of tolerance:</b>		

**See comments:**  
**Contains non-accredited tests:** \_\_\_ Yes X No  
**Calibration service:** \_\_\_ Basic X Standard  
**Address:** 5 Capital Drive, Suite 400,  
Harrisburg, PA 17110

**Tested in accordance with the following procedures and standards:**  
Calibration of Sound Level Meters, Scantek Inc., Rev. 6/26/2015  
SLM & Dosimeters – Acoustical Tests, Scantek Inc., Rev. 7/6/2011

**Instrumentation used for calibration:** Nor-1504 Norsonic Test System:

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence	Cal. Due
				Cal. Lab / Accreditation	
483B-Norsonic	SME Cal Unit	31052	Oct 30, 2017	Scantek, Inc./ NVLAP	Oct 30, 2018
DS-360-SRS	Function Generator	33584	Oct 24, 2017	ACR Env./ A2LA	Oct 24, 2019
34401A-Agilent Technologies	Digital Voltmeter	US36120731	Oct 25, 2017	ACR Env. / A2LA	Oct 25, 2018
HM30-Thommen	Meteo Station	1040170/39633	Oct 25, 2017	ACR Env./ A2LA	Oct 25, 2018
PC Program 1019 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	-
1251-Norsonic	Calibrator	30878	Nov 10, 2017	Scantek, Inc./ NVLAP	Nov 10, 2018
4226-Brüel&Kjær	Multifunction calibrator	2305103	Sep 5, 2017	B&K / A2LA	Sep 5, 2018

**Instrumentation and test results are traceable to SI (International System of Units) through standards maintained by NIST (USA) and NPL (UK).**

**Environmental conditions:**

Temperature (°C)	Barometric pressure (kPa)	Relative Humidity (%)
22.3	100.31	46.9

<b>Calibrated by:</b>	Lydon Dawkins	<b>Authorized signatory:</b>	Steven E. Marshall
Signature	<i>Lydon Dawkins</i>	Signature	<i>Steven E Marshall</i>
Date	6/25/2018	Date	6/26/2018

Calibration Certificates or Test Reports shall not be reproduced, except in full, without written approval of the laboratory. This Calibration Certificate or Test Reports shall not be used to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the federal government.



Meter #9



ISO 17025: 2005, ANSI/NCCL Z540:1994 Part 1  
ACCREDITED by NVLAP (an ILAC MRA signatory)



# Calibration Certificate No.41057

Instrument: **Sound Level Meter**  
 Model: **NL42**  
 Manufacturer: **Rion**  
 Serial number: **00345928**  
 ID Number: **032382**  
 Tested with: **Microphone UC52 s/n 150627**  
**Preamplifier NH24 s/n 36126**  
 Type (class): **2**  
 Customer: **McCormick Taylor, Inc.**  
 Tel/Fax: **717-540-6040 / -6049**

Date Calibrated: **7/13/2018** Cal Due:  
 Status: 

Received	Sent
X	X

  
 In tolerance: 

X	X
---	---

  
 Out of tolerance: 

--	--

  
 See comments:  
 Contains non-accredited tests: Yes  No  
 Calibration service: Basic  Standard  
 Address: **5 Capital Drive, Suite 400,**  
**Harrisburg, PA 17110**

Tested in accordance with the following procedures and standards:  
 Calibration of Sound Level Meters, Scantek Inc., Rev. 6/26/2015  
 SLM & Dosimeters – Acoustical Tests, Scantek Inc., Rev. 7/6/2011

Instrumentation used for calibration: Nor-1504 Norsonic Test System:

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence	Cal. Due
				Cal. Lab / Accreditation	
483B-Norsonic	SME Cal Unit	31052	Oct 30, 2017	Scantek, Inc./ NVLAP	Oct 30, 2018
DS-360-SRS	Function Generator	33584	Oct 24, 2017	ACR Env./ A2LA	Oct 24, 2019
34401A-Agilent Technologies	Digital Voltmeter	US36120731	Oct 25, 2017	ACR Env. / A2LA	Oct 25, 2018
HM30-Thommen	Meteo Station	1040170/39633	Oct 25, 2017	ACR Env./ A2LA	Oct 25, 2018
PC Program 1019 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	-
1251-Norsonic	Calibrator	30878	Nov 10, 2017	Scantek, Inc./ NVLAP	Nov 10, 2018
4226-Brüel&Kjær	Multifunction calibrator	2305103	Sep 5, 2017	B&K / A2LA	Sep 5, 2018

Instrumentation and test results are traceable to SI (International System of Units) through standards maintained by NIST (USA) and NPL (UK).

**Environmental conditions:**

Temperature (°C)	Barometric pressure (kPa)	Relative Humidity (%)
22.1	100.85	53.5

Calibrated by:	Lydon Dawkins	Authorized signatory:	William D. Gallagher
Signature	<i>Lydon Dawkins</i>	Signature	<i>William D. Gallagher</i>
Date	7/13/2018	Date	7/13/2018

Calibration Certificates or Test Reports shall not be reproduced, except in full, without written approval of the laboratory. This Calibration Certificate or Test Reports shall not be used to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the federal government.



Meter #10

**Scantek, Inc.**  
CALIBRATION LABORATORY

ISO 17025: 2005, ANSI/NCCL Z540:1994 Part 1  
ACCREDITED by NVLAP (an ILAC MRA signatory)

**NVLAP**<sup>®</sup>  
CALIBRATION  
NVLAP Lab Code: 200625-0

## Calibration Certificate No.41058

**Instrument:** Sound Level Meter  
**Model:** NL42  
**Manufacturer:** Rion  
**Serial number:** 00145385  
**ID Number:** 017999  
**Tested with:** Microphone UC52 s/n 148955  
Preamplifier NH24 s/n 35281  
**Type (class):** 2  
**Customer:** McCormick Taylor, Inc.  
**Tel/Fax:** 717-540-6040 / -6049

**Date Calibrated:** 7/13/2018 **Cal Due:**  
**Status:**

Received	Sent
X	X

  
**In tolerance:**

X	X
---	---

  
**Out of tolerance:**

--	--

  
**See comments:**  
**Contains non-accredited tests:** \_\_\_ Yes X No  
**Calibration service:** \_\_\_ Basic X Standard  
**Address:** 5 Capital Drive, Suite 400,  
Harrisburg, PA 17110

**Tested in accordance with the following procedures and standards:**  
Calibration of Sound Level Meters, Scantek Inc., Rev. 6/26/2015  
SLM & Dosimeters – Acoustical Tests, Scantek Inc., Rev. 7/6/2011

**Instrumentation used for calibration:** Nor-1504 Norsonic Test System:

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence	Cal. Due
				Cal. Lab / Accreditation	
483B-Norsonic	SME Cal Unit	31052	Oct 30, 2017	Scantek, Inc./ NVLAP	Oct 30, 2018
DS-360-SRS	Function Generator	33584	Oct 24, 2017	ACR Env./ A2LA	Oct 24, 2019
34401A-Agilent Technologies	Digital Voltmeter	US36120731	Oct 25, 2017	ACR Env. / A2LA	Oct 25, 2018
HM30-Thommen	Meteo Station	1040170/39633	Oct 25, 2017	ACR Env./ A2LA	Oct 25, 2018
PC Program 1019 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	-
1251-Norsonic	Calibrator	30878	Nov 10, 2017	Scantek, Inc./ NVLAP	Nov 10, 2018
4226-Brüel&Kjær	Multifunction calibrator	2305103	Sep 5, 2017	B&K / A2LA	Sep 5, 2018

**Instrumentation and test results are traceable to SI (International System of Units) through standards maintained by NIST (USA) and NPL (UK).**

**Environmental conditions:**

Temperature (°C)	Barometric pressure (kPa)	Relative Humidity (%)
22.4	100.85	53.4

<b>Calibrated by:</b>	Lydon Dawkins	<b>Authorized signatory:</b>	William D. Gallagher
Signature	<i>Lydon Dawkins</i>	Signature	<i>William D. Gallagher</i>
Date	7/13/2018	Date	7/13/2018

Calibration Certificates or Test Reports shall not be reproduced, except in full, without written approval of the laboratory. This Calibration Certificate or Test Reports shall not be used to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the federal government.



## Calibration Certificate No.41062

Instrument: **Acoustical Calibrator**  
Model: **NC-74**  
Manufacturer: **Rion**  
Serial number: **35125820**  
ID Number: **018000**  
Class (IEC 60942): **1**  
Barometer type:  
Barometer s/n:  
Customer: **McCormick Taylor, Inc.**  
Tel/Fax: **717-540-6040 / -6049**

Date Calibrated: **7/13/2018** Cal Due:  
Status: 

Received	Sent
X	X

  
In tolerance: 

X	X
---	---

  
Out of tolerance: 

--	--

  
See comments:  
Contains non-accredited tests:  Yes  No  
Address: **5 Capital Drive, Suite 400,  
Harrisburg, PA 17110**

Tested in accordance with the following procedures and standards:  
Calibration of Acoustical Calibrators, Scantek Inc., Rev. 10/1/2010

Instrumentation used for calibration: Nor-1504 Norsonic Test System:

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence	Cal. Due
				Cal. Lab / Accreditation	
483B-Norsonic	SME Cal Unit	31052	Oct 30, 2017	Scantek, Inc./ NVLAP	Oct 30, 2018
DS-360-SRS	Function Generator	33584	Oct 24, 2017	ACR Env./ A2LA	Oct 24, 2019
34401A-Agilent Technologies	Digital Voltmeter	US36120731	Oct 25, 2017	ACR Env. / A2LA	Oct 25, 2018
HM30-Thommen	Meteo Station	1040170/39633	Oct 25, 2017	ACR Env./ A2LA	Oct 25, 2018
140-Norsonic	Real Time Analyzer	1406423	Oct 31, 2017	Scantek / NVLAP	Oct 31, 2018
PC Program 1018 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	-
4134-Brüel&Kjær	Microphone	173368	Nov 10, 2017	Scantek, Inc. / NVLAP	Nov 10, 2018
1203-Norsonic	Preamplifier	14059	Feb 12, 2018	Scantek, Inc./ NVLAP	Feb 12, 2019

Instrumentation and test results are traceable to SI (International System of Units) through standards maintained by NIST (USA) and NPL (UK)

Calibrated by:	Lydon Dawkins	Authorized signatory:	William D. Gallagher
Signature	<i>Lydon Dawkins</i>	Signature	<i>William D. Gallagher</i>
Date	7/13/2018	Date	7/13/2018



## Calibration Certificate No.40955

**Instrument:** Acoustical Calibrator  
**Model:** NC-74  
**Manufacturer:** Rion  
**Serial number:** 35236431  
**Class (IEC 60942):** 1  
**Barometer type:**  
**Barometer s/n:**  
**Customer:** McCormick Taylor, Inc.  
**Tel/Fax:** 717-540-6040 / -6049

**Date Calibrated:** 6/22/2018 **Cal Due:**  
**Status:**

Received	Sent
X	X

  
**In tolerance:**  
**Out of tolerance:**  
**See comments:**  
**Contains non-accredited tests:** \_\_\_Yes X No

**Address:** 5 Capital Drive, Suite 400,  
Harrisburg, PA 17110

**Tested in accordance with the following procedures and standards:**  
Calibration of Acoustical Calibrators, Scantek Inc., Rev. 10/1/2010

**Instrumentation used for calibration:** Nor-1504 Norsonic Test System:

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence	Cal. Due
				Cal. Lab / Accreditation	
483B-Norsonic	SME Cal Unit	31052	Oct 30, 2017	Scantek, Inc./ NVLAP	Oct 30, 2018
DS-360-SRS	Function Generator	33584	Oct 24, 2017	ACR Env./ A2LA	Oct 24, 2019
34401A-Agilent Technologies	Digital Voltmeter	US36120731	Oct 25, 2017	ACR Env. / A2LA	Oct 25, 2018
HM30-Thommen	Meteo Station	1040170/39633	Oct 25, 2017	ACR Env./ A2LA	Oct 25, 2018
140-Norsonic	Real Time Analyzer	1406423	Oct 31, 2017	Scantek / NVLAP	Oct 31, 2018
PC Program 1018 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	-
4134-Brüel&Kjær	Microphone	173368	Nov 10, 2017	Scantek, Inc. / NVLAP	Nov 10, 2018
1203-Norsonic	Preamplifier	14059	Feb 12, 2018	Scantek, Inc./ NVLAP	Feb 12, 2019

**Instrumentation and test results are traceable to SI (International System of Units) through standards maintained by NIST (USA) and NPL (UK)**

<b>Calibrated by:</b>	Lydon Dawkins	<b>Authorized signatory:</b>	Steven E. Marshall
Signature	<i>Lydon Dawkins</i>	Signature	<i>Steven E. Marshall</i>
Date	6/22/2018	Date	6/26/2018

**APPENDIX L**  
CORRESPONDENCE



# FAIRFAX COUNTY PARK AUTHORITY



12055 Government Center Parkway, Suite 927 • Fairfax, VA 22035-5500  
703-324-8700 • Fax: 703-324-3974 • [www.fairfaxcounty.gov/parks](http://www.fairfaxcounty.gov/parks)

August 20, 2018

Ms. Hong "Jenny" Ha, P.E.  
NOVA District Location & Design  
Virginia Department of Transportation  
4975 Alliance Drive  
Fairfax, VA 22030

SUBJECT: VDOT-0029-029-350, Rt. 29 Widening Phase II, Preliminary Comments

Dear Ms. Ha:

The Fairfax County Park Authority (FCPA) has reviewed the proposed design for the Phase II widening of Rt. 29 from Union Mill Road to Buckleys Gate Drive (VDOT-0029-029-351) and provides the following comments:

FCPA owns parkland in close proximity to the proposed project area, which contains sensitive environmental and cultural features as well as recreational components. Willow Pond Park, on the north side of Rt. 29, will experience direct impacts from the widening project. Willow Pond is classified by the FCPA as a resource-based park containing significant natural resources and the potential for significant cultural resources. The 62-acre park spans east-west in four segments separated by local roads. Although primarily resource-based, the park does contain two recreational components: an unlit basketball court and the Willow Pond Trail.

FCPA has reviewed the preliminary design exhibits provided by Rinker Design Associates to widen Rt. 29 from four lanes to six, with additional turning lanes provided at its intersection with Stringfellow Road. We have determined that the project will require an assessment of impacts to park and recreation resources in accordance with Section 4(f) of the Federal Transportation Act. This Department of Transportation Act specifies that no project be approved that require the use of any publicly owned park, recreation area, wildlife refuge, or historic sites unless there is no feasible and prudent alternative to the project and the project includes all possible planning to minimize harm to the parkland. FCPA will work with VDOT on necessary mitigation strategies and requirements for the project, in order to approach a de minimis determination.

The proposed design depicts several direct impacts to Willow Pond Park. An excess of 2 acres of right-of-way acquisition along the park frontage on Rt. 29 and Stringfellow Road would be taken from the park. This total includes a stormwater management pond that would be necessary if the project addresses all stormwater runoff on-site. If the project acquires off-site credits and the pond is not built, the total taking would drop to approximately 1.6 acres. The land proposed for acquisition, on Tax Map Parcels 55-3 ((1)) 26 A, ((13)) B, ((14)) B, ((10)) C, D, and S were



If accommodations and/or alternative formats are needed, please call (703) 324-8563, at least 10 working days in advance of the registration deadline or event. TTY (703) 803-3354.



all conveyed to FCPA by the Fairfax County Board of Supervisors. The conveyance was conditioned such that the Board needs to consent to any public right-of-way that is granted in excess of 30 feet. As depicted in the current design, granting land from Tax Map Parcels 55-3 ((1)) 26 A, ((14)) B, and ((10)) D will require FCPA to grant 30 feet or more of land for right-of-way and will require consent from the Board.

The design also depicts both temporary and permanent easements on park property. Any construction easements should be replanted and a corresponding replanting plan should be submitted for FCPA review. Design sheets should also be submitted depicting existing and proposed storm drainage easements, any relocated utility or traffic poles, and associated utilities. Requests for land rights on Park Authority owned property are necessary in order to perform any surveying, clearing, or grading, even within an easement of any sort. As per Park Policies 210 (Easements) and 211 (Stormwater), before performing any activity on parkland, the applicant must first acquire a Right of Entry License, Easement and/or Construction Permit from the Easement Coordinator, Fairfax County Park Authority, Planning and Development Division, 12055 Government Center Parkway, Suite 406, Fairfax, Virginia 22035. The main telephone number is (703) 324-8741. This includes surveying, test boring, wetland flagging, utility relocations, construction, or any other related activities. Please advise any contractors and subcontractors of this requirement.

Willow Pond Trail runs through the park from its eastern extent to Stringfellow Road. The paved trail is parallel to Rt. 29, though not linear. It is separated from the roadway by distances as low as 50 feet at the eastern end of the park and as high as 125 feet at the western end. The trail continues through Board of Supervisors owned property to the sidewalk at the intersection of Rt. 29 and Meadow Estates Drive. The trail is an important pedestrian connection, as there is no sidewalk along this portion of Rt. 29. The Countywide Trails Plan map in the Fairfax County Comprehensive Plan depicts a major paved trail through the park, parallel to Rt. 29. The widening project design would remove a large portion of trail. However, the project does propose a 10-foot wide shared-use path as part of the right-of-way that would serve as the functional equivalent of the existing trail for the purposes of pedestrian and bicycling connectivity. The shared-use path should at a minimum be connected to any remaining portions of the existing trail and VDOT should coordinate with FCDOT on interactivity with the shared-use path and the park, including any proposed landscape plantings. Fill slopes for the right-of-way should be at a 2:1 grade ratio and be maintained in perpetuity by VDOT.

The widening project will significantly impact the natural resources of Willow Pond Park. The park will experience lost land, vegetation, and habitat, and could experience increased storm water discharge, invasive species, and disturbance to remaining resources. In addition to natural resources lost to new right-of-way, the project proposes to re-align the Willow Spring Branch stream, install a new, larger culvert, and construct a new stormwater management pond. FCPA requires any adverse impacts incurred to its natural resources by this project to be restored to the maximum extent feasible in accordance with Policy 201, Natural Resources, of the FCPA Policy Manual (Attachment 1) and the agency-wide Natural Resource Management Plan, recommended management actions eight through thirteen (Attachment 2). VDOT shall agree to rehabilitate any

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temporary impacts to natural resources to Park Authority standards and mitigate or compensate for permanent impacts to natural resources on Park Authority managed lands. This requirement shall apply to any natural resource impact—terrestrial or aquatic—that is not regulated under the jurisdiction of any federal or state agency. The Park Authority defines permanent impact as any habitat type conversion, for example, forest to grassland; and temporary impact as replacement of the same habitat type or better, for example, grassland to grassland. Mitigation or compensation for permanent impacts shall be determined using the Fairfax County Land Development Services Unit Price Schedule (<https://www.fairfaxcounty.gov/landdevelopment/sites/landdevelopment/files/assets/documents/pdf/publications/unit-price-schedule.pdf>) to determine a replacement cost. Total impacts and mitigation or compensation costs shall be determined upon completion of the site design.

If federal permitting or funding is involved with the construction, it will trigger Section 106, requiring VDOT to consult with the Virginia Department of Historic Resources (VDHR). The Park Authority is the designated agency in Fairfax County to deal with Section 106 for archaeological and historic resource impacts. The project site contains a large area and, depending on the level of investigation, will require initial archaeological survey. This could include Phase II archaeological testing (in order to determine National Register of Historic Places eligibility) and Phase III data recovery if sites are determined eligible. Each parcel or group of parcels should be assessed on an individual basis.

At the completion of any cultural resource studies, FCPA staff requests that VDOT provide two copies (one hard copy, one digital copy) of the archaeology report as well as field notes, photographs, and artifacts to the Park Authority's Resource Management Division (Attention: Liz Crowell) within 30 days of completion of the study. Materials can be sent to 2855 Annandale Road, Falls Church, VA 20110 for review and concurrence. For artifact catalogues, please include the database in Access™ format, as well as digital photography, architectural assessments, including line drawings. If any archaeological, architectural or other sites are found during cultural resources assessments, the applicant should update files at VDHR, using the VCRIS system.

Thank you for the opportunity to comment on this project design. We look forward to participating in the project as it moves forward and working together to achieve the mitigation necessary to come to a de minimis determination pursuant to Section 4(f). Our point of contact for this project is Jonathan Buono, Senior Park Planner, who can be reached by phone at 703-324-8691 or by email at [Jonathan.Buono@fairfaxcounty.gov](mailto:Jonathan.Buono@fairfaxcounty.gov).

Sincerely,



David Bowden, Director  
Planning and Development Division

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**Copy: Barbara Nugent, Director, Resources Management Division**  
**John Stokely, Manager, Natural Resource Protection Branch**  
**Andrea Dorlester, Manager, Park Planning Branch**  
**Cindy McNeal, Project Coordinator, Real Estate Services Branch**  
**Alex Burdick, Engineer, Real Estate Services Branch**  
**Michelle Meadows, Senior Right of Way Agent, Real Estate Services Branch**  
**Suzie Battista, Development Review Supervisor, Park Planning Branch**  
**Michael J. Guarino, Capital Projects Section, FCDOT**

## Cooley, Jenna N.

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**From:** West, Jillian <Jillian.West@fairfaxcounty.gov>  
**Sent:** Thursday, December 19, 2019 1:53 PM  
**To:** Cooley, Jenna N.  
**Subject:** RE: Permitted Lands

I do not see any permits issued for those tax map numbers. You can check online at <https://ldip.fairfaxcounty.gov/page/search>

Jill West  
Customer Service Liaison  
Post Occupancy Enforcement & Public Outreach Permitting and Code Administration (PACA) Land Development Services (LDS), Fairfax County 703-324-1528-direct 703-222-0801-main

-----Original Message-----

From: LDS Shared Mailbox <LDS-smbx@fairfaxcounty.gov>  
Sent: Wednesday, December 18, 2019 8:50 AM  
To: LDS Building Permits <LDSBuildingPermits@fairfaxcounty.gov>  
Subject: FW: Permitted Lands

Good morning,

Can someone be so kind as to help provide assistance to the below customer request?

Many thanks,

Melandy Haywood  
Administrative Assistant V to,  
William D. Hicks, Director of Land Development Services  
12055 Government Center Parkway 659  
Fairfax County VA, 22035  
703-324-1780

-----Original Message-----

From: jncooley@mccormicktaylor.com <jncooley@mccormicktaylor.com>  
Sent: Monday, December 16, 2019 3:34 PM  
To: LDS Shared Mailbox <LDS-smbx@fairfaxcounty.gov>  
Subject: Permitted Lands

[This email message was generated from a Web form submission by a Fairfax County website user at <https://www.fairfaxcounty.gov/contact/MailForm.aspx?agid=100354>]

Message:Hi, I had emailed last Thursday (12/12) regarding a VDOT project I am a consultant on (Route 29 Widening, project limits from Union Mill Road to Buckley's Gate Drive). I received a voicemail asking for more specifics, and I

looked up the parcel numbers for the parcels I wanted to double check and see if there were any new permits (since October 2018) on. Here are the parcels:

Map #: 0553 16 B  
Owner: Clifton Crest Homeowners  
Zoning: R-3 (Residential 3 DU/AC)

Map #: 0553 03 0014  
Owner: Mosaic Development LLC  
Zoning: C-8 (Highway Commercial)

Map # 0553 14 B  
Owner: Park Authority Fairfax County  
Zoning: PDH-2 (Residential 2 DU/AC)

Map #: 0553 01 0026A  
Owner: Fairfax County Park Authority  
Zoning: R-1 (Residential 1 DU/AC)

Map # 0553 10 C  
Owner: Park Authority Fairfax County  
Zoning: PDH-2 (Residential 2 DU/AC)

Map # 0553 06 D  
Owner: Clifton Farm Homeowners  
Zoning: PDH-2 (Residential 2 DU/AC)

Map #: 0553 10 D  
Owner: Park Authority Fairfax County  
Zoning: PDH-2 (Residential 2 DU/AC)

Map #: 0553 10 S  
Owner: Park Authority Fairfax County  
Zoning: PDH-2 (Residential 2 DU/AC)

Map #: 0553 08 G  
Owner: Hayden Village Community Association  
Zoning: PDH-2 (Residential 2 DU/AC)

Map #: 0554 07 E  
Owner: Hampton Forest  
Zoning: R-2C (R-2 w/ Cluster Dev)

Map #: 0554 07 A  
Owner: Hampton Forest  
Zoning: R-2C (R-2 w/ Cluster Dev)

Submitted By: Jenna Cooley  
Telephone: 667-219-3273

**APPENDIX M**  
NOISE WALL XYZ COORDINATES AND TOP OF WALL  
ELEVATIONS



BARRIER	Station	X	Y	Z	Top Wall Elev.	Height
NW B-1	301+85.32	6990881.8399	11793134.2325	316.21	328.21	12
NW B-2	302+23.81	6990889.6210	11793171.9290	317.01	329.01	12
NW B-3	302+62.30	6990897.4022	11793209.6256	318.35	331.35	13
NW B-4	303+05.35	6990903.1281	11793252.2252	319.62	333.62	14
NW B-5	303+60.95	6990910.5719	11793306.7271	321.01	336.01	15
NW B-6	304+17.13	6990919.5605	11793361.4525	322.28	339.28	17
NW B-7	304+73.33	6990928.5491	11793416.1779	323.36	340.36	17
NW B-8	305+31.21	6990937.8577	11793472.5220	324.19	341.19	17
NW B-9	305+88.27	6990947.1887	11793528.7055	324.98	340.98	16
NW B-10	306+14.82	6990948.4821	11793555.3932	325.86	340.86	15
NW B-11	306+33.67	6990945.5827	11793574.9852	326.56	340.56	14
NW B-12	306+54.01	6990924.7525	11793599.0337	327.65	341.65	14
NW B-13	306+74.35	6990903.9223	11793623.0822	328.73	340.73	12
NW B-14	306+61.81	6990856.8005	11793618.1430	328.50	339.50	11
NW D-1	311+23.78	6991035.4425	11794056.8885	342.25	357.25	15
NW D-2	311+62.05	6991052.9027	11794092.8018	344.04	359.04	15
NW D-3	312+18.64	6991063.3205	11794148.4377	347.07	362.07	15
NW D-4	312+75.23	6991073.7382	11794204.0736	350.07	365.07	15
NW D-5	313+46.90	6991085.4002	11794274.7838	353.51	368.51	15
NW D-6	314+20.05	6991097.3042	11794346.9613	359.05	375.05	16
NW D-7	314+93.07	6991109.1873	11794419.0128	361.57	378.57	17
NW D-8	315+65.21	6991120.9250	11794490.1816	362.63	379.63	17
NW D-9	316+17.42	6991129.4220	11794541.7018	363.23	380.23	17
NW D-10	316+69.64	6991137.9190	11794593.2220	364.47	381.47	17
NW D-11	317+24.48	6991146.5018	11794646.7853	365.95	382.95	17
NW D-12	317+78.48	6991154.4728	11794699.5925	370.60	387.60	17
NW D-13	318+14.79	6991159.5657	11794735.1434	369.55	386.55	17
NW D-14	318+64.76	6991160.5658	11794784.8605	373.25	389.25	16
NW D-15	319+14.79	6991161.5629	11794834.5522	369.35	385.35	16
NW D-16	319+66.30	6991167.5644	11794885.0455	367.49	383.49	16
NW D-17	320+19.35	6991173.2931	11794937.1095	366.43	382.43	16
NW D-18	320+67.05	6991178.0504	11794983.9607	366.05	382.05	16
NW D-19	321+12.74	6991182.2579	11795028.8722	365.51	379.51	14
NW D-20	321+89.45	6991188.5520	11795104.3368	364.23	378.23	14
NW D-21	322+17.62	6991162.9844	11795134.0648	365.11	377.11	12
NW D-22	322+17.68	6991142.2531	11795135.6246	365.29	375.29	10
NW C2-1	308+21.05	6991272.7895	11793710.9230	325.70	342.70	17
NW C2-2	308+20.65	6991235.5092	11793716.6720	325.83	342.83	17
NW C2-3	308+20.26	6991198.2288	11793722.4211	326.57	342.57	16
NW C2-4	308+46.81	6991177.2995	11793752.7802	329.62	345.62	16
NW C2-5	308+67.92	6991172.2304	11793775.0106	330.84	346.84	16
NW C2-6	309+03.04	6991177.9461	11793809.6662	332.33	348.33	16
NW C2-7	309+38.91	6991183.7828	11793845.0562	333.95	349.95	16
NW C2-8	309+76.46	6991189.8932	11793882.1056	334.90	350.90	16
NW C2-9	309+54.32	6991177.4115	11793861.7318	334.23	350.23	16
NW C2-10	309+91.79	6991183.5078	11793898.6956	335.79	351.79	16
NW C2-11	310+31.77	6991190.0140	11793938.1451	337.44	353.44	16
NW C2-12	310+72.71	6991196.6763	11793978.5406	339.23	355.23	16
NW C2-13	311+11.69	6991203.0201	11794017.0047	341.05	358.05	17
NW C2-14	311+51.61	6991209.5154	11794056.3880	343.02	360.02	17
NW C2-15	311+90.83	6991215.8978	11794095.0863	345.07	362.07	17
NW C2-16	312+30.27	6991222.3158	11794134.0011	347.17	364.17	17
NW C2-17	312+70.76	6991228.9037	11794173.9458	349.32	366.32	17
NW C2-18	313+09.73	6991235.2459	11794212.4053	351.34	368.34	17
NW C2-19	313+48.71	6991241.5881	11794250.8648	353.30	370.30	17
NW C2-20	314+02.93	6991253.4328	11794303.8638	355.23	372.23	17
NW C2-21	314+57.45	6991265.3426	11794357.1542	355.66	372.66	17
NW C2-22	315+11.97	6991277.2524	11794410.4445	353.05	370.05	17
NW G-2	360+72.97	6991826.5814	11798909.9776	372.69	392.69	20
NW G-3	361+31.48	6991842.8123	11798966.1935	373.24	393.24	20
NW G-4	361+80.81	6991856.4948	11799013.5829	373.71	393.71	20
NW G-5	362+32.32	6991870.7841	11799063.0739	374.20	394.20	20
NW G-6	362+82.63	6991884.7397	11799111.4091	374.68	394.68	20
NW G-7	363+32.06	6991898.4525	11799158.9036	375.15	395.15	20
NW G-8	363+57.51	6991905.5127	11799183.3569	375.39	395.39	20
NW G-9	364+07.21	6991914.0469	11799232.6239	375.97	396.97	21
NW G-10	364+56.92	6991922.5811	11799281.8910	376.55	397.55	21
NW G-11	365+27.28	6991942.0923	11799349.5007	377.22	398.22	21
NW G-12	365+75.08	6991955.3441	11799395.4208	377.67	398.67	21
NW G-13	366+26.81	6991969.6876	11799445.1238	378.16	399.16	21
NW G-14	366+79.09	6991984.1828	11799495.3522	378.69	398.69	20

NW G-15	367+27.87	6991997.7076	11799542.2180	379.38	398.38	19
NW G-16	367+80.47	6992012.2937	11799592.7617	380.36	399.36	19
NW G-17	368+28.16	6992025.5153	11799638.5768	381.46	400.46	19
NW G-18	368+75.62	6992038.6761	11799684.1816	382.75	401.75	19
NW G-19	369+21.52	6992051.4031	11799728.2828	384.20	403.20	19
NW G-20	369+67.42	6992064.1300	11799772.3840	385.83	404.83	19
NW G-20	360+32.00	6991815.2166	11798870.6155	372.30	392.30	20