APPENDIX B

Appendix B.1
CULTURAL RESOURCES INFORMATION

Historic Properties
Listed or Eligible

STATE	RESOURCE NAME	ALPHA-NUMERIC CODE	NATIONAL REGISTER CRITERIA
Indiana Downtown	*Old Jeffersonville HD:*	*ID-HC-5*	A and C
	Grisamore House	*ID-HC-56010*	C
	City School	ID-HC-61048	A and C
	Train Depot	ID-HC-61007	A and C
	Colgate-Palmolive HD	ID-HC-63001-63009	A and C
	Ohio Falls Car … HD	ID-HC-64001-64024	A and C
	Big Four RR Bridge	ID-HC-55024	A
	Penn RR Bridge	ID-HC-55022	A
	G. R. Clark Bridge	ID-HC-55023	A and C
	House, 519 Riverside Drive	ID-HC-65029	C
	House, 527 Riverside Drive	ID-HC-65030	C
Indiana East End	Swartz Rural Ag. HD	IE-HC-45026/26A/27	A and C
	Fry House	IE-HC-45030	A and C
	James A. Smith Farm	IE-HC-45024	A and D
	Federal Style House	IE-HC-45031	A
	Prather Farm	IE-HC-45029	A and C
	Dellinger Farm	IE-HC-55005B	A
	Woods House	IE-HC-45035	A and C
	Farmhouse	IE-HC-55012B	C
	John Hoffman House	IE-HC-55012	C
	Moss Family House	IE-HC-55010	C
	House	IE-HC-55009	C
	House	IE-HC-55008A	C
	Farmstead	IE-HC-45033	A and C
	Utica Cemetery*	IE-HC-46001	A
	Utica M/E Church*	IE-HC-46007	A and C
	Howes Farm*	IE-HC-46008	A and C
	House*	IE-HC-46011E	C
	Utica Christ Chapel*	IE-HC-46016	C
	House*	IE-HC-46015	C
	William Brindle House*	IE-HC-46012	C
	House*	IE-HC-46014	C
	Utica Lime Industry:*	IE-HC-48001	A and D
		IE-HC-48002-48003	A and D
		IE-HC-48004	A and D
	Lentz Cemetery*	IE-HC-45022	A
	Lentz Heirs Cemetery*	IE-HC-45022A	A
	Central Utica HD*	IE-HC-47001/47020	A and C
	WPA Sea Wall	IE-HC-46018	A
	Ranney Wells HD	IE-HC-XXXXX	A and C
	INAAP Igloo Strg. HD	IE-HC-XXXXX	A
	House	IE-HC-46013	C
Kentucky Downtown	Brown Tobacco WH	KD-HC-JFWP139	C
	Snead Manufacturing	KD-HC-JFCD107	C
	West Main Street HD	KD-HC-107	A and C
	Phoenix Hill HD	KD-HC-5	A and C
	Butchertown HD	KD-HC-4	A and C
	W. Main/10th Mnuf HD:	*KD-HC-XXXXX*	A
	New Enterprise Tobacco	*KD-HC-JFWP134*	C
	Tobacco Realty Co.	*KD-HC-JFWP137*	C
	Givens Headley Tobacco	JD-HC-JFWP144	A and C
	Conrad-Rawls Shoe Co.	KD-HC-XXXXX	A and C
	E. J. O'Brien Office	KD-HC-JFWP142	C
	Pennsylvania Lines Depot	KD-HC-XXXXX	A and C
	Peaslee-Gaulbert Paint HD	KD-HC-XXXXX	A
	Belle of Louisville	KD-HC-JFCD218	C
	Mayor Andrew Broaddus	KD-HC-JFCD252	C
	Louisville Medical College	KD-HC-JFCD159	A and C
	Theodore Ahrens Trade HS	KD-HC-XXXXX	A and C

Historic Properties
Listed or Eligible

STATE	RESOURCE NAME	ALPHA-NUMERIC CODE	NATIONAL REGISTER CRITERIA
Kentucky East End	Determan House	KE-HC-JF843	A
	Schildknecht House	KE-HC-JF841	A
	Rosewell	KE-HC-JF452	C
	Belleview	KE-HC-JF453	A
	Country Estates HD:	*KE-HC-1*	A and C
	Ashbourne	*KE-HC-JF570*	C
	Bingham-Hilliard	*KE-HC-JF557*	C
	R C Ballard School	*KE-HC-JF555*	C
	Shwab House	*KE-HC-JF545*	C
	Rockledge	*KE-HC-JF544*	C
	Winkworth	*KE-HC-JF533*	C
	Ladless Hill	*KE-HC-JF532*	C
	J. Chrisler House	*KE-HC-JF457*	C
	Lyncliffe	*KE-HC-JF531*	C
	Blankenbaker Station	*KE-HC-JF658*	C
	Harrods Creek HD	*KE-HC-XXXXX*	C
	Glenview HD	*KE-HC-XXXXX*	C
	Nitta Yuma HD	*KE-HC-XXXXX*	C
	Drumanard Ests HD	*KE-HC-XXXXX*	C
	Bruce House	KE-HC-8	C
	Crowfoot	KE-HC-9	C
	Fincastle	KE-HC-JF918	C
	Merriwether House	KE-HC-JF690	A
	Allison-Barrickman	KE-HC-JF563	C
	Juniper Beach HD	KE-HC-7	A
	Dogwood Hill	KE-HC-JF772	C
	St. Francis in the Fields	KE-HC-10	A
	Croghan-Blankenbaker	KE-HC-JF458/530	C
	Midlands	KE-HC-JF671	C
	James T. Taylor House	KE-HC-XXXXX	A
	Alice Speed Stoll House	KE-HC-XXXXX	A
	Upper Rvr. Rd. Bridge	KE-HC-XXXXX	C
	Harrods Ck. Village HD	KE-HC-XXXXX	C
	Green Castle Baptist	KE-HC-XXXXX	A
	Prospect Store	KE-HC-XXXXX	A
	Sutherland Farm	KE-HC-JF447	C
	Shirley/Baass House	KE-HC-XXXXX	B and C
	James T. Taylor Subdiv HD	KE-HC-XXXXX	A
	Jacob School Rd. HD	KE-HC-XXXXX	A
	Jefferson Jacob School	KE-HC-XXXXX	A and C
	Bennett/Griesbaum/Lang	KE-HC-XXXXX	C
	J. C. Metcale House	KE-HC-XXXXX	C
	Gaffney House	KE-HC-JF677	C
	Edgewater Garden	KE-HC-JF802	A and C
	Louisville Wtr. Co. Pump Sta.	KE-HC-XXXXX	C
	Upper Rvr. Rd. HD	KE-HC-XXXXX	B and C
	Rvr. Hill/Stonebridge HD	KE-HC-XXXXX	C
	John C. Doolan House	KE-HC-XXXXX	B
	McFerran House	KE-HC-XXXXX	C
	J. E. Skinner House	KE-HC-JE581	C
	T. G. Peyton	KE-HC-XXXXX	C
	Cedarbrook Farm	KE-HC-JF559	A
	Old Upper Rvr. Rd. Bridge	KE-HC-JF786	C
	Addison W. Lee House	KE-HC-XXXXX	B
	Horner House	KE-HC-XXXXX	C

* Indicates resources contained on the Multiple Property Listing of Utica Township

Appendix B.2
NOISE ANALYSIS INFORMATION

LOUISVILLE - SOUTHERN INDIANA
OHIO RIVER BRIDGES PROJECT
Identification of Noise Receptors Along Alternative A2

Receptor Number	Land Use Category	Description	Representative Receptors	Total
1	B	Residential 38.7 m (455.1 ft) north of A2	4	5
2	B	Residential 149.8 m (491.5 ft) east of A2	7	8
3	B	Residential 102.7 m (336.9 ft) west of A2	2	3
4	B	Residential 132.4 m (434.4 ft) west of A2	10	11
5	B	Residential 102.7 m (336.9 ft) north of A2	18	19
6	B	Residential 131.7 m (432.1 ft) south of A2	32	33
7 / 8	B	Residential 94.2 m (303.2 ft) south of A2 Residential 114.0 m (374.0 ft) south of A2	13	15
10	B	Residential 132.3 m (434.1 ft) south of A2	5	6
21	B	Residential 126.2 m (414.0 ft) south of A2	14	15
22	B	Residential 139.4 m (457.3 ft) south of A2	25	26
86	B	Residential 92.1 m (302.2 ft) south of A2	2	3
90	B	Residential 114.0 m (374.0 ft) south of A2	5	6
91	B	Residential 98.9 m (324.5 ft) south of A2	0	1
93 / 94	B	Residential 149.6 m (490.8 ft) south of A2 Residential 148.7 m (487.9 ft) south of A2	19	21
120	B	Residential 147.0 m (324.5 ft) south of A2	17	18
121	B	Residential 133.2 m (324.5 ft) south of A2	15	16
122	B	Residential 99.9 m (324.5 ft) north of A2	0	1
123	B	Residential 163.3 m (324.5 ft) north of A2	14	15
124	B	Residential 225.7 m (324.5 ft) north of A2	3	4

LOUISVILLE - SOUTHERN INDIANA
OHIO RIVER BRIDGES PROJECT
Identification of Noise Receptors Along Alternative A9

Receptor Number	Land Use Category	Description	Representative Receptors	Total
1	B	Residential 112.8 m (370.1 ft) north of A9	1	2
21	B	Residential 95.9 m (313.0 ft) south of A9	0	1
22 / 23	B	Residential 69.3 m (227.4 ft) south of A9 Residential 103.5 m (2339.6 ft) south of A9	36	38
24 / 25	B	Residential 31.4 m (103.0 ft) south of A9 Residential 95.9 m (314.6 ft) south of A9	40	42
26 / 27	B	Residential 118.6 m (389.1 ft) north of A9 Residential 99.6 m (326.8 ft) north of A9	6	8
28 / 29 / 30	B	Residential 76.5 m (251.0 ft) north of A9 Residential 42.2 m (138.5 ft) north of A9 Residential 37.7 m (123.7 ft) north of A9	19	22
31 /32 / 33	B	Residential 134.5 m (441.3 ft) north of A9 Residential 80.1 m (262.8 ft) north of A9 Residential 52.3 m (171.6 ft) north of A9	43	46
41	B	Residential 83.6 m (274.3 ft) south of A9	23	24
42 / 43	B	Residential 52.5 m (172.2 ft) south of A9 Residential 115.3 m (378.3 ft) south of A9	48	50
44	B	Residential 142.1 m (466.2 ft) north of A9	6	7
47	B	Residential 62.2 m (204.1 ft) north of A9	4	5
48 / 49	B	Residential 83.2m (273.0 ft) north of A9 Residential 49.0 m (160.8 ft) north of A9	8	10
50 / 51	B	Residential 94.7 m (310.7 ft) south of A9 Residential 135.7 m (445.2 ft) south of A9	22	24

LOUISVILLE - SOUTHERN INDIANA
OHIO RIVER BRIDGES PROJECT
Identification of Noise Receptors Along Alternative A9

Receptor Number	Land Use Category	Description	Representative Receptors	Total
47	B	Residential 62.2 m (204.1 ft) north of A9	4	5
48 / 49	B	Residential 83.2m (273.0 ft) north of A9 Residential 49.0 m (160.8 ft) north of A9	8	10
50 / 51	B	Residential 94.7 m (310.7 ft) south of A9 Residential 135.7 m (445.2 ft) south of A9	22	24
88 / 89	B	Residential 88.8 m (291.3 ft) south of A9 Residential 131.0 m (429.8 ft) south of A9	12	14
91	B	Residential 83.0 m (272.3 ft) south of A9	0	1
98	C	Commercial 119.0 m (390.4 ft) south of A9	2	3
99	B	Residential 112.0 m (367.5 ft) north of A9	9	10
100	B	Residential 80.2 m (263.1 ft) north of A9	18	19
120	B	Residential 87.7 m (287.7 ft) south of A9	17	18
122	B	Residential 443.3 m (1454.4 ft) north of A9	0	1
123	B	Residential 722.9 m (2371.7 ft) north of A9	14	15
124	B	Residential 749.8 m (2460.0 ft) north of A9	3	4

LOUISVILLE - SOUTHERN INDIANA OHIO RIVER BRIDGES PROJECT Identification of Noise Receptors Along Alternative A13a (Partial Interchange at U.S. 42)				
Receptor Number	**Land Use Category**	**Description**	**Representative Receptors**	**Total**
1	B	Residential 112.8 m (370.1 ft) north of A13a	2	3
12	B	Residential 64.6 m (211.9 ft) north of A13a	4	5
21	B	Residential 95.3 m (312.7 ft) south of A13a	13	14
22 / 23	B	Residential 75.3 m (247.0 ft) south of A13a Residential 107.8 m (353.7 ft) south of A13a	42	44
24 / 25	B	Residential 41.4 m (135.8 ft) south of A13a Residential 103.6 m (339.9 ft) south of A13a	52	54
26 / 27	B	Residential 133.3 m (437.3 ft) north of A13a Residential 113.6 m (372.7 ft) north of A13a	8	10
28 / 29 / 30	B	Residential 77.1 m (253.0 ft) north of A13a Residential 48.6 m (159.4 ft) north of A13a Residential 45.0 m (147.6 ft) south of A13a	22	25
31 / 32 / 33	B	Residential 132.3 m (434.1 ft) north of A13a Residential 79.9 m (262.1 ft) north of A13a Residential 49.3 m (161.7 ft) north of A13a	52	55
36 / 37	B	Residential 123.8 m (406.2 ft) north of A13a Residential 90.9 m (298.2 ft) north of A13a	14	16
38	B	Residential 74.0 m (242.8 ft) north of A13a	15	16

LOUISVILLE - SOUTHERN INDIANA OHIO RIVER BRIDGES PROJECT Identification of Noise Receptors Along Alternative A13a (Partial Interchange at U.S. 42)				
Receptor Number	**Land Use Category**	**Description**	**Representative Receptors**	**Total**
39 / 40	B	Residential 106.4 m (349.1 ft) north of A13a Residential 38.0 m (124.7 ft) north of A13a	25	27
41	B	Residential 78.1 m (256.2 ft) south of A13a	56	57
44	B	Residential 114.9 m (377.0 ft) south of A13a	9	10
81 / 82	B	Residential 89.6 m (294.0 ft) north of A13a Residential 25.0 m (82.0 ft) north of A13a	20	22
83	B	Residential 46.8 m (153.5 ft) north of A13a	9	10
84	B	Residential 109.4 m (358.9 ft) north of A13a	10	11
86	B	Residential 46.5 m (152.6 ft) north of A13a	0	1
87	B	Residential 128.2 m (420.6 ft) south of A13a	2	3
90	B	Residential 151.9 m (498.4 ft) north of A13a	15	16
91	B	Residential 33.1 m (108.6 ft) south of A13a	0	1
93 / 94	B	Residential 149.6 m (490.8 ft) south of A13a Residential 126.3 m (414.4 ft) north of A13a	19	21
120	B	Residential 104.9 m (344.2 ft) south of A13a	17	18
121	B	Residential 71.7 m (235.2 ft) south of A13a	15	16
122	B	Residential 200.0 m (656.2 ft) north of A13a	0	1
123	B	Residential 281.4 m (923.2 ft) north of A13a	14	15
124	B	Residential 344.3 m (1129.6 ft) north of A13a	3	4

LOUISVILLE – SOUTHERN INDIANA OHIO RIVER BRIDGES PROJECT Identification of Noise Receptors Along Alternative A13b (Full Interchange at Wolf Pen Branch Road)				
Receptor Number	**Land Use Category**	**Description**	**Representative Receptors**	**Total**
1	B	Residential 112.8 m (370.1 ft) north of A13b	2	3
12	B	Residential 64.6 m (211.9 ft) north of A13b	4	5
21	B	Residential 95.3 m (312.7 ft) south of A13b	13	14
22 / 23	B	Residential 75.3 m (247.0 ft) south of A13b Residential 107.8 m (353.7 ft) south of A13b	42	44
24 / 25	B	Residential 41.4 m (135.8 ft) south of A13b Residential 103.6 m (339.9 ft) south of A13b	52	54
26 / 27	B	Residential 117.3 m (384.8 ft) north of A13b Residential 97.6 m (320.2 ft) north of A13b	8	10
28 / 29 / 30	B	Residential 72.9 m (239.2 ft) north of A13b Residential 42.3 m (138.8 ft) north of A13b Residential 36.3 m (119.1 ft) north of A13b	22	25
31 / 32 / 33	B	Residential 132.3 m (434.1 ft) north of A13b Residential 79.9 m (262.1 ft) north of A13b Residential 49.3 m (161.7 ft) north of A13b	52	55
36 / 37	B	Residential 123.8 m (406.2 ft) north of A13b Residential 90.9 m (298.2 ft) north of A13b	14	16
38	B	Residential 74.0 m (242.8 ft) north of A13b	15	16

LOUISVILLE – SOUTHERN INDIANA OHIO RIVER BRIDGES PROJECT Identification of Noise Receptors Along Alternative A13b (Full Interchange at Wolf Pen Branch Road)				
Receptor Number	**Land Use Category**	**Description**	**Representative Receptors**	**Total**
39 / 40	B	Residential 106.4 m (349.1 ft) north of A13b Residential 149.8 m (491.5 ft) east of A13b	25	27
41	B	Residential 91.9 m (301.5 ft) south of A13b	56	57
44	B	Residential 41.3 m (135.5 ft) south of A13b	9	10
81 / 82	B	Residential 101.5 m (333.0 ft) north of A13b Residential 25.0 m (82.0 ft) north of A13b	20	22
83	B	Residential 46.8 m (153.5 ft) north of A13b	9	10
84	B	Residential 109.4 m (358.9 ft) north of A13b	10	11
86	B	Residential 46.5 m (152.6 ft) north of A13b	0	1
87	B	Residential 128.2 m (420.6 ft) south of A13b	2	3
90	B	Residential 151.9 m (498.4 ft) north of A13b	15	16
91	B	Residential 33.1 m (108.6 ft) south of A13b	0	1
93 / 94	B	Residential 149.6 m (490.8 ft) south of A13b Residential 126.3 m (414.4 ft) north of A13b	19	21
120	B	Residential 104.9 m (344.2 ft) south of A13b	17	18
121	B	Residential 71.7 m (235.2 ft) south of A13b	15	16
122	B	Residential 200.0 m (656.2 ft) north of A13b	0	1
123	B	Residential 281.4 m (923.2 ft) north of A13b	14	15
124	B	Residential 344.3 m (1129.6 ft) north of A13b	3	4

LOUISVILLE – SOUTHERN INDIANA OHIO RIVER BRIDGES PROJECT Identification of Noise Receptors Along Alternative A15a (Partial Interchange at U.S. 42)				
Receptor Number	**Land Use Category**	**Description**	**Representative Receptors**	**Total**
1	B	Residential 112.8 m (370.1 ft) north of A15a	2	3
11	B	Residential 52.9 m (173.6 ft) east of A15a	3	4
12	B	Residential 102.1 m (335.0 ft) south of A15a	6	7
13	B	Residential 116.8 m (383.2 ft) east of A15a	1	2
21	B	Residential 95.3 m (312.7 ft) south of A15a	13	14
22 / 23	B	Residential 75.3 m (247.0 ft) south of A15a Residential 107.8 m (353.7 ft) south of A15a	42	44
24 / 25	B	Residential 41.4 m (135.8 ft) south of A15a Residential 103.6 m (339.9 ft) south of A15a	52	54
26 / 27	B	Residential 133.3 m (437.3 ft) north of A15a Residential 113.6 m (372.7 ft) north of A15a	8	10
28 / 29 / 30	B	Residential 77.1 m (253.0 ft) north of A15a Residential 48.6 m (159.4 ft) north of A15a Residential 45.0 m (147.6 ft) north of A15a	22	25
31 / 32 / 33	B	Residential 132.3 m (434.1 ft) north of A15a Residential 79.9 m (262.1 ft) north of A15a Residential 49.3 m (161.7 ft) north of A15a	52	55
36 / 37	B	Residential 141.6 m (464.6 ft) northeast of A15a Residential 101.4 m (332.7 ft) northeast of A15a	14	16

LOUISVILLE – SOUTHERN INDIANA OHIO RIVER BRIDGES PROJECT Identification of Noise Receptors Along Alternative A15a (Partial Interchange at U.S. 42)				
Receptor Number	**Land Use Category**	**Description**	**Representative Receptors**	**Total**
38	B	Residential 74.7 m (245.1 ft) south of A15a	15	16
39 / 40	B	Residential 133.6 m (438.3 ft) northeast of A15a Residential 63.8 m (209.3 ft) northeast of A15a	26	28
41	B	Residential 78.1 m (256.2 ft) south of A15a	56	57
44	B	Residential 114.9 m (377.0 ft) south of A15a	9	10
80	B	Residential 105.0 m (344.5 ft) south of A15a	0	1
85	B	Farmland 81.8 m (268.4 ft) north of A15a	0	1
86	B	Residential 27.8 m (91.2 ft) south of A15a	3	4
90	B	Residential 111.1 m (364.5 ft) north of A15a	6	7
91	B	Residential 38.3 m (125.7 ft) south of A15a	0	1
93 / 94	B	Residential 149.6 m (490.8 ft) south of A15a Residential 127.2 m (417.3 ft) north of A15a	19	21
120	B	Residential 115.8 m (379.9 ft) south of A15a	17	18
121	B	Residential 103.0 m (337.9 ft) south of A15a	15	16
122	B	Residential 98.0 m (321.5 ft) north of A15a	0	1
123	B	Residential 119.7 m (392.7 ft) north of A15a	14	15
124	B	Residential 183.8 m (603.0 ft) north of A15a	3	4

LOUISVILLE – SOUTHERN INDIANA OHIO RIVER BRIDGES PROJECT Identification of Noise Receptors Along Alternative A15b (Full Interchange at Wolf Pen Branch Road)				
Receptor Number	**Land Use Category**	**Description**	**Representative Receptors**	**Total**
1	B	Residential 112.8 m (370.1 ft) north of A15b	2	3
11	B	Residential 52.9 m (173.6 ft) east of A15b	3	4
12	B	Residential 102.1 m (335.0 ft) south of A15b	6	7
13	B	Residential 116.8 m (383.2 ft) east of A15b	1	2
21	B	Residential 95.3 m (312.7 ft) south of A15b	13	14
22 / 23	B	Residential 75.3 m (247.0 ft) south of A15b Residential 107.8 m (353.7 ft) south of A15b	42	44
24 / 25	B	Residential 41.4 m (135.8 ft) south of A15b Residential 103.6 m (339.9 ft) south of A15b	52	54
26 / 27	B	Residential 133.3 m (437.3 ft) north of A15b Residential 113.6 m (372.7 ft) north of A15b	8	10
28 / 29 / 30	B	Residential 77.1 m (253.0 ft) north of A15b Residential 48.6 m (159.4 ft) north of A15b Residential 45.0 m (147.6 ft) north of A15b	22	25
31 / 32 / 33	B	Residential 132.3 m (434.1 ft) north of A15b Residential 79.9 m (262.1 ft) north of A15b Residential 49.3 m (161.7 ft) north of A15b	52	55
36 / 37	B	Residential 141.6 m (464.6 ft) northeast of A15b Residential 101.4 m (332.7 ft) northeast of A15b	14	16

LOUISVILLE – SOUTHERN INDIANA OHIO RIVER BRIDGES PROJECT Identification of Noise Receptors Along Alternative A15b (Full Interchange at Wolf Pen Branch Road)				
Receptor Number	**Land Use Category**	**Description**	**Representative Receptors**	**Total**
38	B	Residential 74.7 m (245.1 ft) south of A15b	15	16
39 / 40	B	Residential 133.6 m (438.3 ft) northeast of A15b Residential 63.8 m (209.3 ft) northeast of A15b	26	28
41	B	Residential 78.1 m (256.2 ft) south of A15b	56	57
44	B	Residential 114.9 m (377.0 ft) south of A15b	9	10
80	B	Residential 105.0 m (344.5 ft) south of A15b	0	1
85	B	Farmland 81.8 m (268.4 ft) north of A15b	0	1
86	B	Residential 27.8 m (91.2 ft) south of A15b	3	4
90	B	Residential 111.1 m (364.5 ft) north of A15b	6	7
91	B	Residential 38.3 m (125.7 ft) south of A15b	0	1
93 / 94	B	Residential 149.6 m (490.8 ft) south of A15b Residential 127.2 m (417.3 ft) north of A15b	19	21
120	B	Residential 115.8 m (379.9 ft) south of A15b	17	18
121	B	Residential 103.0 m (337.9 ft) south of A15b	15	16
122	B	Residential 98.0 m (321.5 ft) north of A15b	0	1
123	B	Residential 119.7 m (392.7 ft) north of A15b	14	15
124	B	Residential 183.8 m (603.0 ft) north of A15b	3	4

LOUISVILLE – SOUTHERN INDIANA
OHIO RIVER BRIDGES PROJECT
Identification of Noise Receptors Along Alternative A16

Receptor Number	Land Use Category	Description	Representative Receptors	Total
1	B	Residential 112.8 m (370.1 ft) north of A16	5	6
2	B	Residential 130.5 m (428.1 ft) east of A16	5	6
3	B	Residential 97.1 m (318.6 ft) west of A16	0	1
11	B	Residential 58.7 m (192.6 ft) west of A16	6	7
14	B	Residential 151.9 m (498.4 ft) north of A16	18	19
15	B	Residential 118.7 m (389.4 ft) south of A16	3	4
16	B	Residential 54.4 m (178.8 ft) south of A16	4	5
19	B	Residential 67.2 m (220.5 ft) south of A16	1	2
20	B	Residential 96.8 m (317.6 ft) south of A16	2	3
21	B	Residential 100.5 m (329.7 ft) south of A16	25	26
22	B	Residential 115.1 m (377.6 ft) south of A16	28	29
24	B	Residential 69.6 m (228.3 ft) south of A16	3	4
25	B	Residential 133.5 m (438.0 ft) south of A16	4	5
26	B	Residential 140.6 m (461.3 ft) south of A16	1	2
27	B	Residential 122.6 m (402.2 ft) south of A16	5	6
34	B	Residential 46.6 m (152.9 ft) south of A16	4	5

LOUISVILLE – SOUTHERN INDIANA OHIO RIVER BRIDGES PROJECT
Identification of Noise Receptors Along Alternative A16

Receptor Number	Land Use Category	Description	Representative Receptors	Total
35	B	Residential 146.3 m (480.0 ft) south of A16	18	19
85	B	Residential 82.4 m (270.3 ft) north of A16	5	6
86	B	Residential 27.8 m (91.2 ft) south of A16	23	24
90	B	Residential 99.5 m (326.4 ft) west of A16	9	10
91	B	Residential 43.2 m (141.7 ft) west of A16	14	15
13	B	Residential 94.7 m (310.7 ft) north of A16	11	12
18	B	Residential 158.8 m (521.0 ft) west of A16	15	16
80	B	Residential 140.3 m (460.3 ft) south of A16	10	11
93	B	Residential 149.6 m (490.8 ft) south of A16	3	4
94	B	Residential 127.1m (417.0 ft) south of A16	3	4
120	B	Residential 125.5 m (411.7 ft) south of A16	17	18
121	B	Residential 113.7 m (373.0 ft) south of A16	15	16
122	B	Residential 80.7 m (264.8 ft) north of A16	0	1
123	B	Residential 91.6 m (300.5 ft) north of A16	14	15
124	B	Residential 156.6 m (513.8 ft) north of A16	3	4

LOUISVILLE – SOUTHERN INDIANA
OHIO RIVER BRIDGES PROJECT
Identification of Noise Receptors Along Alternative B1

Receptor Number	Land Use Category	Description	Representative Receptors	Total
53	B	Residential 103.4 m (339.2 ft) south of B1	78	79
54	B	Residential 105.2 m (345.1 ft) north of B1	80	81
55	B	School 103.1 m (338.3 ft) south of B1	56	57
56	B	Residential 37.6 m (123.4 ft) west of B1	11	12
57	B	Residential 130.5 m (428.1 ft) west of B1	52	53
58	B	Residential 56.1 m (184.1 ft) north of B1	13	14
59	B	Residential 93.1 m (305.4 ft) west of B1	22	23
60	B	Residential 48.8 m (160.1 ft) south of B1	10	11
61	B	Residential 111.4 m (365.5 ft) south of B1	8	9
62	B	Residential 157.2 m (515.7 ft) south of B1	3	4
63	B	Residential 138.8 m (455.4 ft) south of B1	5	6
95	B	Residential 109.3 m (358.6 ft) west of B1	2	3
101	B	Commercial 27.0 m (88.6 ft) west of B1	5	6
102	B	Residential 83.1 m (272.6 ft) east of B1	20	21
103 / 104	B	Residential 122.2 m (400.9 ft) west of B1 Residential 144.7 m (474.7 ft) west of B1	79	81
105	B	Residential 102.3 m (335.6 ft) west of B1	3	4
106	B	Residential 46.0 m (150.9 ft) east of B1	4	5
107	B	Residential 93.2 m (273.0 ft) east of B1	3	4

LOUISVILLE – SOUTHERN INDIANA OHIO RIVER BRIDGES PROJECT Identification of Noise Receptors Along the I-265 Interchange Reconfiguration				
Receptor Number	**Land Use Category**	**Description**	**Representative Receptors**	**Total**
93	B	Residential 167.1 m (548.2 ft) north of I-265 Interchange	2	3
94	B	Residential 138.5 m (454.4 ft) north of I-265 Interchange	1	2
96	B	Residential 135.9 m (445.9 ft) north of I-265 Interchange	9	10
97	B	Residential 92.0 m (301.8 ft) east of I-265 Interchange	3	4

LOUISVILLE – SOUTHERN INDIANA OHIO RIVER BRIDGES PROJECT Identification of Noise Receptors Along Alternative C1 With An In-Place Kennedy Interchange				
Receptor Number	**Land Use Category**	**Description**	**Representative Receptors**	**Total**
64	C	Commercial 43.3 m (142.1 ft) south of C1 In-Place	7	8
65	B/C	Commercial 33.7 m (110.6 ft) north of C1 In-Place	4	5
66	C	Commercial 92.6 m (303.8 ft) south of C1 In-Place	4	5
67	B/C	Commercial 49.7 m (163.1 ft) west of C1 In-Place	3	4
68	C	Commercial 19.1 m (62.7 ft) west of C1 In-Place	7	8
69	C	Commercial 17.5 m (57.4 ft) north of C1 In-Place	2	3
70	C	Commercial 63.2 m (207.3 ft) west of C1 In-Place	3	4
71	C	Commercial 21.4 m (70.2 ft) south of C1 In-Place	2	3
72	C	Commercial 25.0 m (82.0 ft) south of C1 In-Place	4	5
108	B	Residential 43.8 m (143.7 ft) east of C1 In-Place	6	7
109	B	Residential 18.3 m (60.0 ft) east of C1 In-Place	5	6
110	C	Commercial 33.6 m (110.2 ft) east of C1 In-Place	8	9
111	C	Commercial 141.0m (462.6 ft) west of C1 In-Place	3	4
112	B/C	Commercial 48.6 m (159.4 ft) east of C1 In-Place	10	11
113	C	Commercial 56.4 m (185.0 ft) west of C1 In-Place	5	6
114	C	Commercial 302.4 m (991.8 ft) west of C1 In-Place	15	16
115	C	Commercial 362.7 m (1,189.9 ft) west of C1 In-Place	3	4
116	C	Commercial 417.0 m (1,368.1 ft) west of C1 In-Place	9	10
117	B/C	Hospital 115.9 m (380.2 ft) east of C1 In-Place	8	9
118	C	Commercial 81.8 m (268.4 ft) south of C1 In-Place	12	13
119	C	Commercial 40.0 m (131.2 ft) north of C1 In-Place	12	13

LOUISVILLE – SOUTHERN INDIANA OHIO RIVER BRIDGES PROJECT Identification of Noise Receptors Along Alternative C1 With A Relocated Kennedy Interchange				
Receptor Number	**Land Use Category**	**Description**	**Representative Receptors**	**Total**
64	C	Commercial 29.8 m (97.8 ft) south of C1 Relocated	4	5
66	C	Commercial 265.3 m (870.4 ft) east of C1 Relocated	3	4
67	B/C	Commercial 83.8 m (274.9 ft) west of C1 Relocated	3	4
68	C	Commercial 6.60 m (21.7 ft) south of C1 Relocated	9	10
69	C	Commercial 17.5 m (57.4 ft) west of C1 Relocated	6	7
70	C	Commercial 63.2 m (207.3 ft) south of C1 Relocated	6	7
71	C	Commercial 21.4 m (70.2 ft) south of C1 Relocated	3	4
72	C	Commercial 25.0 m (82.0 ft) south of C1 Relocated	4	5
108	B	Residential 43.8 m (143.7 ft) east of C1 Relocated	6	7
109	B	Residential 18.3 m (60.0 ft) east of C1 Relocated	5	6
110	C	Commercial 33.6 m (110.2 ft) east of C1 Relocated	8	9
111	C	Commercial 141.0 m (462.6 ft) west of C1 Relocated	3	4
112	B/C	Commercial 48.6 m (159.4 ft) east of C1 Relocated	10	11
113	C	Commercial 56.4 m (185.0 ft) west of C1 Relocated	5	6
114	C	Commercial 299.2m (981.6 ft) west of C1 Relocated	5	6
115	C	Commercial 364.1 m (1,194.6 ft) west of C1 Relocated	3	4
116	C	Commercial 417.7 m (1,370.4 ft) west of C1 Relocated	9	10
117	B/C	Hospital 129.8 m (425.9 ft) east of C1 Relocated	12	13
118	C	Commercial 99.2 m (325.5 ft) west of C1 Relocated	12	13
119	C	Commercial 262.0 m (859.6 ft) east of C1 Relocated	12	13

LOUISVILLE – SOUTHERN INDIANA
OHIO RIVER BRIDGES PROJECT
Identification of Noise Receptors Along Alternative C2

Receptor Number	Land Use Category	Description	Representative Receptors	Total
64	C	Commercial 41.9 m (137.4 ft) south of C2	7	8
65	B/C	Commercial 38.9 m (127.6 ft) east of C2	5	6
66	C	Commercial 95.8 m (314.3 ft) north of C2	3	4
67	B/C	Commercial 49.1 m (161.1 ft) north of C2	2	3
68	C	Commercial 18.7 m (61.4 ft) east of C2	4	5
69	C	Commercial 19.3 m (63.3 ft) west of C2	4	5
70	C	Commercial 67.4 m (221.1 ft) east of C2	5	6
71	C	Commercial 20.4 m (66.9 ft) north of C2	3	4
72	C	Commercial 25.0 m (82.0 ft) west of C2	4	5
74	C	Commercial 1.5 m (4.9 ft) south of C2	19	20
75	C	Commercial 17.1 m (56.1 ft) south of C2	9	10
76	B/C	Commercial 11.0 m (36.0 ft) west of C2	5	6
77	B	Residential 4.7 m (15.4 ft) south of C2	4	5
78	C	Commercial 109.8 m (360.2 ft) east of C2	14	15
108	B	Residential 92.5 m (303.5 ft) east of C2	7	8
109	B	Residential 68.5 m (224.7 ft) east of C2	8	9
110	C	Commercial 73.3 m (142.1 ft) east of C2	10	11
111	C	Commercial 141.0 m (462.6 ft) east of C2	3	4
112	B/C	Commercial 56.4m (185.0 ft) east of C2	7	8
113	C	Commercial 33.9 m (111.2 ft) west of C2	4	5
114	C	Commercial 12.5 m (41.0 ft) north of C2	5	6
115	C	Commercial 123.8 m (406.2 ft) east of C2	3	4
116	C	Commercial 107.3 m (352.0 ft) east of C2	8	9
117	B/C	Hospital 116.6 m (382.5 ft) east of C2	10	11
118	C	Commercial 173.6 m (569.6 ft) west of C2	5	6
119	C	Commercial 40.0 m (131.2 ft) east of C2	6	7

LOUISVILLE – SOUTHERN INDIANA
OHIO RIVER BRIDGES PROJECT
Identification of Noise Receptors Along Alternative C3

Receptor Number	Land Use Category	Description	Representative Receptors	Total
64	C	Commercial 29.8 m (97.8 ft) south of C3	6	7
66	C	Commercial 238.6 m (782.8 ft) north of C3	3	4
67	B/C	Commercial 15.7 m (51.5 ft) west of C3	2	3
68	C	Commercial 6.6 m (21.7 ft) east of C3	4	5
69	C	Commercial 21.7 m (71.2 ft) west of C3	4	5
70	C	Commercial 81.6 m (267.7 ft) east of C3	4	5
71	C	Commercial 39.4 m (129.3 ft) west of C3	3	4
72	C	Commercial 25.9 m (85.0 ft) west of C3	4	5
108	B	Residential 92.5 m (303.5 ft) east of C3	7	8
109	B	Residential 68.5 m (224.7 ft) east of C3	8	9
110	C	Commercial 73.3 m (240.5 ft) east of C3	10	11
111	C	Commercial 141.0 m (462.6 ft) west of C3	3	4
112	B/C	Commercial 48.6 m (159.4 ft) east of C3	9	10
113	C	Commercial 56.4 m (185.0 ft) west of C3	4	5
114	C	Commercial 247.4 m (812.0 ft) west of C3	15	16
115	C	Commercial 335.1 m (1,099.4 ft) west of C3	2	3
116	C	Commercial 418.3 m (1,372.4 ft) west of C3	9	10
117	B/C	Hospital 112.9 m (34.4 ft) east of C3	10	11
118	C	Commercial 80.5 m (264.1 ft) west of C3	8	9
119	C	Commercial 40.0 m (131.2 ft) west of C3	6	7

LOUISVILLE – SOUTHERN INDIANA
OHIO RIVER BRIDGES PROJECT
Noise Abatement Classification
For Alternative A2 and I-265 Interchange Reconstruction

Receptor Number	1999/2000 Existing Measured	2025 No-Build Predicted	2025 Predicted Noise Level	Difference Between Existing and Build	Difference Between No-Build and Build	NAC	Category of Impact From Build	Barrier Abatement
1	56.5	--	68	12	--	67	1	A
2	51.1	--	60	9	--	67	--	
3	48.8	--	65	16	--	67	3	A
4	48.7	--	68	19	--	67	1	A
5	50.3	--	65	15	--	67	3	A
6	53.6	--	68	14	--	67	1	A
7	49.0	--	72	23	--	67	1	A
8	50.5	--	67	17	--	67	1	A
10	52.3	--	68	16	--	67	1	A
21	54.8	--	68	13	--	67	1	A
22	58.1	--	64	6	--	67	--	
86	54.8	--	65	10	--	67	3	A
90	52.1	--	64	12	--	67	3	A
91	58.1	--	65	7	--	67	--	
93	49.4	48	67	18	19	67	1	A
94	53.9	48	68	14	20	67	1	A
96	59.5	61	64	5	3	67	--	
97	59.1	65	68	9	3	67	2	B
120	45.3	--	65	20	--	67	3	A
121	44.1	--	65	21	--	67	3	A
122	47.2	--	67	20	--	67	1	A
123	49.3	--	64	15	--	67	3	A
124	45.5	--	62	17	--	67	3	A

A – Possible barrier location (feasibility/reasonableness study necessary) for alternative A2
B -- Proposed project does not appreciably alter (>3 dBA) future noise levels.
C -- Isolated receptor

LOUISVILLE – SOUTHERN INDIANA
OHIO RIVER BRIDGES PROJECT
Noise Abatement Classification
For Alternative A9 and I-265 Interchange Reconstruction

Receptor Number	1999/2000 Existing Measured	2025 No-Build Predicted	2025 Predicted Noise Level	Difference Between Existing and Build	Difference Between No-Build and Build	NAC	Category of Impact From Build	Barrier Abatement
1	56.5	--	68	12	--	67	1	A
21	54.8	--	69	14	--	67	1	A
22	58.1	--	70	12	--	67	1	A
23	64.7	--	68	3	--	67	2	A
24	68.6	--	68	0*	--	67	2	A
25	54.3	--	64	10	--	67	3	A
26	58.5	--	62	4	--	67	--	
27	56.8	--	63	6	--	67	--	
28	50.3	--	62	12	--	67	3	A
29	54.7	--	64	9	--	67	--	
30	55.0	--	64	9	--	67	--	
31	51.8	--	58	6	--	67	--	
32	52.9	--	61	8	--	67	--	
33	58.9	--	63	4	--	67	--	
41	56.9	--	63	6	--	67	--	
42	50.6	--	64	13	--	67	3	A
43	50.9	--	61	10	--	67	3	A
44	51.4	--	62	11	--	67	3	A
47	49.9	--	66	16	--	67	1	A
48	50.8	--	69	18	--	67	1	A
49	54.1	--	72	18	--	67	1	A
50	45.8	--	64	18	--	67	3	A
51	50.4	--	61	11	--	67	3	A
88	48.3	--	68	20	--	67	1	A
89	48.1	--	63	15	--	67	3	A
91	58.1	--	69	11	--	67	1	C
93	49.4	48	63	14	15	67	3	A
94	53.9	48	66	12	18	67	1	A
96	59.5	61	64	5	3	67	--	
97	59.1	65	68	9	3	67	2	B
98	54.0	--	67	13	--	72	3	A
99	53.2	--	67	14	--	67	1	A
100	48.6	--	66	17	--	67	1	A
120	45.3	--	71	26	--	67	1	A
122	47.2	--	58	11	--	67	4	A
123	49.3	--	54	5	--	67	--	
124	45.5	--	53	8	--	67	--	

A – Possible barrier location (feasibility/reasonableness study necessary) for alternative A9
B -- Proposed project does not appreciably alter (>3 dBA) future noise levels.
C -- Isolated receptor
* -- Project does not increase the noise level for this location

LOUISVILLE – SOUTHERN INDIANA
OHIO RIVER BRIDGES PROJECT
Noise Abatement Classification
For Alternative A13a (Partial Interchange at U.S. 42)
and I-265 Interchange Reconstruction

Receptor Number	1999/2000 Existing Measured	2025 No-Build Predicted	2025 Predicted Noise Level	Difference Between Existing and Build	Difference Between No-Build and Build	NAC	Category of Impact From Build	Barrier Abatement
1	56.5	--	67	11	--	67	1	A
12	54.1	--	71	17	--	67	1	A
21	54.8	--	67	12	--	67	1	A
22	58.1	--	68	10	--	67	1	A
23	64.7	--	66	1	--	67	2	A
24	68.6	--	72	3	--	67	2	A
25	54.3	--	67	13	--	67	1	A
26	58.5	--	65	7	--	67	--	
27	56.8	--	66	9	--	67	2	A
28	50.3	--	64	14	--	67	3	A
29	54.7	--	66	11	--	67	1	A
30	55.0	--	67	12	--	67	1	A
31	51.8	--	59	7	--	67	--	
32	52.9	--	62	9	--	67	--	
33	58.9	--	64	5	--	67	--	
36	47.6	--	62	14	--	67	3	A
37	49.5	--	63	14	--	67	3	A
38	46.2	--	63	17	--	67	3	A
39	50.1	--	63	13	--	67	3	A
40	54.8	--	68	13	--	67	1	A
41	56.9	--	66	9	--	67	2	A
44	51.4	--	62	11	--	67	3	A
81	57.4	--	69	12	--	67	1	A
82	54.1	--	74	20	--	67	1	A
83	48.3	--	72	24	--	67	1	A
84	40.7	--	63	22	--	67	3	A
86	54.8	--	67	12	--	67	1	A
87	51.4	--	58	7	--	67	--	
90	52.1	--	65	13	--	67	3	A
91	58.1	--	71	13	--	67	1	C
93	49.4	48	65	16	17	67	3	A
94	53.9	48	67	13	19	67	1	A
96	59.5	61	64	5	3	67	--	
97	59.1	65	68	9	3	67	2	B
120	45.3	--	69	24	--	67	1	A
121	44.1	--	72	28	--	67	1	A
122	47.2	--	64	17	--	67	3	A
123	49.3	--	62	13	--	67	3	A
124	45.5	--	60	15	--	67	3	A

A – Possible barrier location (feasibility/reasonableness study necessary) for alternative A13a
B -- Proposed project does not appreciably alter (>3 dBA) future noise levels.
C -- Isolated receptor

LOUISVILLE – SOUTHERN INDIANA
OHIO RIVER BRIDGES PROJECT
Noise Abatement Classification
For Alternative A13b (Full Interchange at Wolf Pen Branch Road)
and I-265 Interchange Reconstruction

Receptor Number	1999/2000 Existing Measured	2025 No-Build Predicted	2025 Predicted Noise Level	Difference Between Existing and Build	Difference Between No-Build and Build	NAC	Category of Impact From Build	Barrier Abatement
1	56.5	--	68	12	--	67	1	A
12	54.1	--	71	17	--	67	1	A
21	54.8	--	67	12	--	67	1	A
22	58.1	--	70	12	--	67	1	A
23	64.7	--	68	3	--	67	2	A
24	68.6	--	68	0*	--	67	2	A
25	54.3	--	65	11	--	67	3	A
26	58.5	--	63	5	--	67	--	
27	56.8	--	64	7	--	67	--	
28	50.3	--	63	13	--	67	3	A
29	54.7	--	65	10	--	67	3	A
30	55.0	--	66	11	--	67	1	A
31	51.8	--	59	7	--	67	--	
32	52.9	--	62	9	--	67	--	
33	58.9	--	65	6	--	67	--	
36	47.6	--	62	14	--	67	3	A
37	49.5	--	64	15	--	67	3	A
38	46.2	--	63	17	--	67	3	A
39	50.1	--	63	13	--	67	3	A
40	54.8	--	68	13	--	67	1	A
41	56.9	--	64	7	--	67	--	
44	51.4	--	61	10	--	67	3	A
81	57.4	--	69	12	--	67	1	A
82	54.1	--	74	20	--	67	1	A
83	48.3	--	72	24	--	67	1	A
84	40.7	--	63	22	--	67	3	A
86	54.8	--	68	13	--	67	1	A
87	51.4	--	62	11	--	67	3	A
90	52.1	--	65	13	--	67	3	A
91	58.1	--	71	13	--	67	1	C
93	49.4	48	65	16	17	67	3	A
94	53.9	48	67	13	19	67	1	A
96	59.5	61	64	5	3	67	--	
97	59.1	65	68	9	3	67	2	B
120	45.3	--	69	24	--	67	1	A
121	44.1	--	72	28	--	67	1	A
122	47.2	--	65	18	--	67	3	A
123	49.3	--	62	13	--	67	3	A
124	45.5	--	60	15	--	67	3	A

A – Possible barrier location (feasibility/reasonableness study necessary) for alternative A13b
B -- Proposed project does not appreciably alter (>3 dBA) future noise levels.
C -- Isolated receptor
* -- Project does not increase the noise level for this location

LOUISVILLE – SOUTHERN INDIANA
OHIO RIVER BRIDGES PROJECT
Noise Abatement Classification
For A15a Alternative (Partial Interchange at U.S. 42)
and I-265 Interchange Reconstruction

Receptor Number	1999/2000 Existing Measured	2025 No-Build Predicted	2025 Predicted Noise Level	Difference Between Existing and Build	Difference Between No-Build and Build	NAC	Category of Impact From Build	Barrier Abatement
1	56.5	--	67	11	--	67	1	A
11	51.1	--	71	20	--	67	1	A
12	54.1	--	68	14	--	67	1	A
13	50.8	--	67	16	--	67	1	A
21	54.8	--	67	12	--	67	1	A
22	58.1	--	68	10	--	67	1	A
23	64.7	--	66	1	--	67	2	A
24	68.6	--	72	3	--	67	2	A
25	54.3	--	68	14	--	67	1	A
26	58.5	--	66	8	--	67	2	A
27	56.8	--	66	9	--	67	2	A
28	50.3	--	64	14	--	67	3	A
29	54.7	--	66	11	--	67	1	A
30	55.0	--	67	12	--	67	1	A
31	51.8	--	59	7	--	67	--	
32	52.9	--	62	9	--	67	--	
33	58.9	--	64	5	--	67	--	
36	47.6	--	61	13	--	67	3	A
37	49.5	--	63	14	--	67	3	A
38	46.2	--	63	17	--	67	3	A
39	50.1	--	62	12	--	67	3	A
40	54.8	--	66	11	--	67	1	A
41	56.9	--	66	9	--	67	2	A
44	51.4	--	62	11	--	67	3	A
80	57.4	--	66	9	--	67	2	A
85	42.6	--	68	25	--	67	1	A
86	54.8	--	62	7	--	67	--	
90	52.1	--	67	15	--	67	1	A
91	58.1	--	70	12	--	67	1	C
93	49.4	48	66	17	18	67	1	A
94	53.9	48	68	14	20	67	1	A
96	59.5	61	64	5	3	67	--	
97	59.1	65	68	9	3	67	2	B
120	45.3	--	67	22	--	67	1	A
121	44.1	--	68	24	--	67	1	A
122	47.2	--	70	23	--	67	1	A
123	49.3	--	68	19	--	67	1	A
124	45.5	--	65	20	--	67	3	A

A – Possible barrier location (feasibility/reasonableness study necessary) for alternative A15a
B -- Proposed project does not appreciably alter (>3 dBA) future noise levels.
C -- Isolated receptor

LOUISVILLE – SOUTHERN INDIANA
OHIO RIVER BRIDGES PROJECT
Noise Abatement Classification
For Alternative A15b (Full Interchange at Wolf Pen Branch Road)
and I-265 Interchange Reconstruction

Receptor Number	1999/2000 Existing Measured	2025 No-Build Predicted	2025 Predicted Noise Level	Difference Between Existing and Build	Difference Between No-Build and Build	NAC	Category of Impact From Build	Barrier Abatement
1	56.5	--	66	10	--	67	1	A
11	51.1	--	71	20	--	67	1	A
12	54.1	--	68	14	--	67	1	A
13	50.8	--	67	16	--	67	1	A
21	54.8	--	66	11	--	67	1	A
22	58.1	--	68	10	--	67	1	A
23	64.7	--	65	0*	--	67	--	
24	68.6	--	68	0*	--	67	2	A
25	54.3	--	64	10	--	67	3	A
26	58.5	--	63	5	--	67	--	
27	56.8	--	64	7	--	67	--	
28	50.3	--	63	13	--	67	3	A
29	54.7	--	65	10	--	67	3	A
30	55.0	--	66	11	--	67	1	A
31	51.8	--	59	7	--	67	--	
32	52.9	--	62	9	--	67	--	
33	58.9	--	63	4	--	67	--	
36	47.6	--	61	13	--	67	3	A
37	49.5	--	63	14	--	67	3	A
38	46.2	--	63	17	--	67	3	A
39	50.1	--	62	12	--	67	3	A
40	54.8	--	66	11	--	67	1	A
41	56.9	--	64	7	--	67	--	
44	51.4	--	64	13	--	67	3	A
80	57.4	--	66	9	--	67	2	A
85	42.6	--	68	25	--	67	1	A
86	54.8	--	62	7	--	67	--	
90	52.1	--	67	15	--	67	1	A
91	58.1	--	70	12	--	67	1	C
93	49.4	48	66	17	18	67	1	A
94	53.9	48	68	14	20	67	1	A
96	59.5	61	64	5	3	67	--	
97	59.1	65	68	9	3	67	2	B
120	45.3	--	68	23	--	67	1	A
121	44.1	--	69	25	--	67	1	A
122	47.2	--	70	23	--	67	1	A
123	49.3	--	68	19	--	67	1	A
124	45.5	--	65	20	--	67	3	A

A – Possible barrier location (feasibility/reasonableness study necessary) for alternative A15b
B -- Proposed project does not appreciably alter (>3 dBA) future noise levels.
C -- Isolated receptor
* -- Project does not increase the noise level for this location

LOUISVILLE – SOUTHERN INDIANA
OHIO RIVER BRIDGES PROJECT
Noise Abatement Classification
For Alternative A16 and I-256 Interchange Reconstruction

Receptor Number	1999/2000 Existing Measured	2025 No-Build Predicted	2025 Predicted Noise Level	Difference Between Existing and Build	Difference Between No-Build and Build	NAC	Category of Impact From Build	Barrier Abatement
1	56.5	--	66	10	--	67	1	A
2	51.1	--	59	8	--	67	--	
3	48.8	--	63	14	--	67	3	C
11	51.1	--	71	20	--	67	1	A
14	52.2	--	64	12	--	67	3	A
15	48.8	--	66	17	--	67	1	A
16	49.1	--	71	22	--	67	1	A
19	56.9	--	65	8	--	67	--	
20	52.8	--	64	11	--	67	3	A
21	54.8	--	66	11	--	67	1	A
22	58.1	--	61	3	--	67	--	
24	68.6	--	57	0*	--	67	--	
25	54.3	--	57	3	--	67	--	
26	58.5	--	54	0*	--	67	--	
27	56.8	--	53	0*	--	67	--	
34	61.2	--	72	11	--	67	1	A
35	58.6	--	66	7	--	67	2	A
85	42.6	--	65	22	--	67	3	A
86	54.8	--	62	7	--	67	--	
90	52.1	--	61	9	--	67	--	
91	58.1	--	70	12	--	67	1	A
13	50.8	--	77	26	--	67	1	A
18	50.6	--	66	15	--	67	1	A
80	57.4	--	67	10	--	67	1	A
93	49.4	48	66	17	18	67	1	A
94	53.9	48	68	14	20	67	1	A
96	59.5	61	64	5	3	67	--	
97	59.1	65	68	9	3	67	2	B
120	45.3	--	68	23	--	67	1	A
121	44.1	--	68	24	--	67	1	A
122	47.2	--	71	24	--	67	1	A
123	49.3	--	70	21	--	67	1	A
124	45.5	--	66	21	--	67	1	A

A – Possible barrier location (feasibility/reasonableness study necessary) for alternative A16
B -- Proposed project does not appreciably alter (>3 dBA) future noise levels.
C -- Isolated receptor
* -- Project does not increase the noise level for this location

LOUISVILLE – SOUTHERN INDIANA
OHIO RIVER BRIDGES PROJECT
Noise Abatement Classification
For Alternative B1 and I-256 Interchange Reconstruction

Receptor Number	1999/2000 Existing Measured	2025 No-Build Predicted	2025 Predicted Noise Level	Difference Between Existing and Build	Difference Between No-Build and Build	NAC	Category of Impact From Build	Barrier Abatement
53	56.9	--	66	9	--	67	2	A
54	62.4	--	66	4	--	67	2	A
55	59.4	--	65	6	--	67	--	
56	58.8	--	71	12	--	67	1	A
57	57.3	--	65	8	--	67	--	
58	66.4	--	67	1	--	67	2	A
59	55.8	--	67	11	--	67	1	A
60	59.8	--	66	6	--	67	2	A
61	58.1	--	63	5	--	67	--	
62	56.8	--	61	4	--	67	--	
63	61.2	--	60	0*	--	67	--	
93	49.4	48	63	14	15	67	3	A
94	53.9	48	66	12	18	67	1	A
95	52.4	--	65	13	--	67	3	A
96	59.5	61	64	5	3	67	--	
97	59.1	65	68	9	3	67	2	B
101	51.7	--	74	22	--	67	1	A
102	58.3	--	68	10	--	67	1	A
103	53.2	--	67	14	--	67	1	A
104	56.2	--	64	8	--	67	--	
105	52.8	--	66	13	--	67	1	A
106	43.2	--	71	28	--	67	1	A
107	60.1	--	68	8	--	67	2	A

A – Possible barrier location (feasibility/reasonableness study necessary) for alternative B1
B -- Proposed project does not appreciably alter (>3 dBA) future noise levels.
C -- Isolated receptor
* -- Project does not increase the noise level for this location

LOUISVILLE – SOUTHERN INDIANA
OHIO RIVER BRIDGES PROJECT
Noise Abatement Classification
For Alternative C1 With An In-Place Kennedy Interchange

Receptor Number	1999/2000 Existing Measured	2025 No-Build Predicted	2025 Predicted Noise Level	Difference Between Existing and Build	Difference Between No-Build and Build	NAC	Category of Impact From Build	Barrier Abatement
64	75.2	72	75	0*	3	72	2	B
65	62.1	72	75	13	3	67/72	1	B
66	67.9	71	70	2	-1	72	--	
67	61.3	76	76	15	0	67/72	1	B
68	67.7	75	76	8	1	72	2	B
69	71.3	77	77	6	0	72	2	B
70	70.0	71	71	1	0	72	2	B
71	69.3	77	78	9	1	72	2	B
72	73.5	79	79	6	0	72	2	B
108	65.2	73	73	8	0	67	2	B
109	66.8	75	78	11	3	67	1	B
110	62.2	75	78	16	3	72	1	B
111	67.1	68	68	1	0	72	--	
112	66.5	70	72	6	2	67/72	2	B
113	66.6	71	71	4	0	72	2	B
114	61.0	63	63	2	0	72	--	
115	59.6	59	59	0*	0	72	--	
116	61.2	58	58	0*	0	72	--	
117	64.6	68	69	4	1	67/72	2	B
118	60.6	68	64	3	-4	72	--	
119	60.4	57	58	0*	1	72	--	

A – Possible barrier location (feasibility/reasonableness study necessary) for alternative C1
B -- Proposed project does not appreciably alter (>3 dBA) future noise levels.
C -- Isolated receptor
* -- Project does not increase the noise level for this location

LOUISVILLE – SOUTHERN INDIANA
OHIO RIVER BRIDGES PROJECT
Noise Abatement Classification
For Alternative C1 With A Relocated Kennedy Interchange

Receptor Number	1999/2000 Existing Measured	2025 No-Build Predicted	2025 Predicted Noise Level	Difference Between Existing and Build	Difference Between No-Build and Build	NAC	Category of Impact From Build	Barrier Abatement
64	75.2	72	75	0*	3	72	2	B
66	67.9	71	67	0*	-4	72	--	
67	61.3	76	75	14	-1	67/72	1	B
68	67.7	75	77	9	2	72	2	B
69	71.3	77	76	5	1	72	2	B
70	70.0	71	71	1	0	72	2	B
71	69.3	77	78	9	1	72	2	B
72	73.5	79	79	6	0	72	2	B
108	65.2	73	73	8	0	67	2	B
109	66.8	75	78	11	3	67	1	B
110	62.2	75	78	16	3	72	1	B
111	67.1	68	68	1	0	72	--	
112	66.5	70	72	6	2	67/72	2	B
113	66.6	71	71	4	0	72	2	B
114	61.0	63	63	2	0	72	--	
115	59.6	59	59	0*	0	72	--	
116	61.2	58	58	0*	0	72	--	
117	64.6	68	69	4	1	67/72	2	B
118	60.6	68	64	3	-4	72	--	
119	60.4	57	58	0*	1	72	--	

A – Possible barrier location (feasibility/reasonableness study necessary) for alternative C1
B -- Proposed project does not appreciably alter (>3 dBA) future noise levels.
C -- Isolated receptor
* -- Project does not increase the noise level for this location

LOUISVILLE – SOUTHERN INDIANA
OHIO RIVER BRIDGES PROJECT
Noise Abatement Classification
For Alternative C2

Receptor Number	1999/2000 Existing Measured	2025 No-Build Predicted	2025 Predicted Noise Level	Difference Between Existing and Build	Difference Between No-Build and Build	NAC	Category of Impact From Build	Barrier Abatement
64	75.2	72	74	0*	2	72	2	B
65	62.1	72	74	12	2	72	1	B
66	67.9	71	71	3	0	72	2	B
67	61.3	76	72	11	-4	72	1	B
68	67.7	75	76	8	2	72	2	B
69	71.3	77	76	5	-1	72	2	B
70	70.0	71	72	2	3	72	2	B
71	69.3	77	76	7	2	72	2	B
72	73.5	79	78	5	-1	72	2	B
74	69.1	71	72	3	1	72	2	B
75	68.2	79	76	8	-3	72	2	B
76	65.4	71	72	7	1	72	2	B
77	73.3	75	69	0*	-6	72	--	
78	68.5	67	67	0*	0	72	--	
108	65.2	73	68	3	-5	72	--	
109	66.8	75	72	5	-3	72	2	B
110	62.2	75	74	12	-1	72	1	B
111	67.1	68	67	0*	-1	72	--	
112	66.5	70	72	6	2	72	2	B
113	66.6	71	73	6	2	72	2	B
114	61.0	63	73	12	10	72	1	A
115	59.6	59	64	4	5	72	--	
116	61.2	58	64	3	6	72	--	
117	64.6	68	69	4	1	72	--	
118	60.6	68	69	8	1	72	--	
119	60.4	57	58	0*	1	72	--	

A – Possible barrier location (feasibility/reasonableness study necessary) for alternative C2
B -- Proposed project does not appreciably alter (>3 dBA) future noise levels.
C -- Isolated receptor
* -- Project does not increase the noise level for this location

LOUISVILLE – SOUTHERN INDIANA
OHIO RIVER BRIDGES PROJECT
Noise Abatement Classification
For Alternative C3

Receptor Number	1999/2000 Existing Measured	2025 No-Build Predicted	2025 Predicted Noise Level	Difference Between Existing and Build	Difference Between No-Build and Build	NAC	Category of Impact From Build	Barrier Abatement
64	75.2	72	73	0*	1	72	2	B
66	67.9	71	66	0*	-5	72	--	
67	61.3	76	77	16	1	72	1	B
68	67.7	75	78	10	3	72	1	B
69	71.3	77	78	7	1	72	2	B
70	70.0	71	71	1	0	72	2	B
71	69.3	77	77	8	0	72	2	B
72	73.5	79	79	6	0	72	2	B
108	65.2	73	70	5	-3	72	2	B
109	66.8	75	73	6	-2	72	2	B
110	62.2	75	74	12	-1	72	1	B
111	67.1	68	71	4	3	72	2	B
112	66.5	70	72	6	2	72	2	B
113	66.6	71	70	3	-1	72	--	
114	61.0	63	63	2	0	72	--	
115	59.6	59	60	0*	1	72	--	
116	61.2	58	59	0*	1	72	--	
117	64.6	68	69	4	1	72	--	
118	60.6	68	64	3	-4	72	--	
119	60.4	57	57	0*	0	72	--	

A – Possible barrier location (feasibility/reasonableness study necessary) for alternative C3
B -- Proposed project does not appreciably alter (>3 dBA) future noise levels.
C -- Isolated receptor
* -- Project does not increase the noise level for this location

Appendix B.2 / Table 3 – Historic Property Receptors – dBA Leq

Historic Property Receptors		
Receptor Number	**Site Location**	**Existing Noise Level (dBA)**
H1	Cedar Brook Farm	50.9
H2	Crowfoot	50.1
H3	Bruce House	45.7
H4	Fincastle	46.0
H5	Allison-Barrickman	51.4
H6	St. Francis in the Fields	50.1
H7	Drumanard	48.1
H8	Merriwether House	46.5
H9	Belleview	49.3
H10	Nuttall House	53.2
H11	Rosewell	44.7
H12	Determan Houses	43.2
H13	J. Schildknecht House	46.0
H14	Dogwood Hill	52.1
H15	Bare Acres	45.9
H16	Shady Brook Farm	42.1
H17	Country Estates	72.7
H18	Country Estates	72.4
H19	Juniper Beach HD	51.2
H20	Fry House	49.8
H21	Prather Farm	64.1
H22	Swartz House	49.2
H23	Midlands	59.0
H24	Blankenbaker Station	56.6
H25	Lyncliffe	56.2
H26	Croghan-Blankenbaker	52.2
H27	Butchertown	71.3
H28	Butchertown	70.1
H29	Butchertown	73.1
H30	Big 4 Railroad Bridge	63.2
H31	Old Jeffersonville HD	65.1
H32	Old Jeffersonville HD	69.9
H33	War Memorial	61.5
H34	Grismore House	64.2
H35	City School	58.3
H36	Train Depot	67.1
H37	William Ingram House	57.6
H38	Phoenix Hill HD	65.0
H39	Phoenix Hill HD	69.5

Historic Property Receptors (Continued)		
Receptor Number	**Site Location**	**Existing Noise Level (dBA)**
H40	100 West Main HD	69.0
H41	L&N Railroad Office	65.8
H42	Belle of Louisville	70.8
H43	Mayor Andrew Broaddus	69.8
H44	Snead Manufacturing	66.8
H45	West Main Street HD	69.9
H46	West Main Street HD	69.5
H47	New Enterprise Tobacco	67.1
H47a	New Enterprise Tobacco (2)	69.5
H48	Tobacco Realty Company	64.8
H49	Brown Tobacco Warehouse	60.2
H50	2nd St. Bridge	62.5
H51	Ohio Falls Car and Locomotive Co.	57.9
H52	Ohio Falls Car and Locomotive Co.	60.0
H53	Colgate Palmolive	60.4
H54	Colgate Palmolive	66.8
H55	Pennsylvania RR Bridge	58.5
H56	IE-HC-55008	55.2
H57	Woods House	49.7
H58	Federal Style House	48.8
H59	James A Smith Farmstead	48.9
H60	McFerran House	60.8
H61	Geiger Mill Ruin	64.9
H62	Jacob School Rd HD	53.9
H63	Edward Strater House	53.0
H64	Harrods Creek Village HD	67.5
H65	Utica Cemetery	49.2
H66	Lentz Cemetery	52.1
H67	Edge Water Garden/Richmond Boat Club	63.3
H68	Doolan House/Stonebridge HD	52.5
H69	Stonebridge HD 1	70.1
H70	River Hill/Stonebridge HD 2	55.5
H71	Whitehead House	65.0
H72	Dabney House/Upper River Rd HD	50.0
H73	Upper River Rd HD (407 Rock Hill)	55.7
H74	Voight House	52.7
H75	Firehouse at 1419 E. Washington St	60.6
H76	Butchertown 1	70.1

Historic Property Receptors (Continued)		
Receptor Number	**Site Location**	**Existing Noise Level (dBA)**
H77	Butchertown 2	71.0
H78	802-804 E. Main St	66.4
H79	Albert Hess Furniture	63.2
H80	Louisville Medical College	69.6
H81	Theodore Ahrens Trade High School	71.3
H82	National Biscuit Company	64.6
H83	EJ O'Brien Office	65.1
H84	Givens Headley & Tobacco Warehouse	68.9
H85	Conrad Rawls Shoe Company	65.6
H86	Pennsylvania Lines Freight Depot	63.9
H87	Peaslee Gaulbert Paint manufacturing HD 1	70.0
H88	Peaslee Gaulbert Paint manufacturing HD 2	71.6
H89	Butchertown	56.2
H90	Nitta Yuma	51.7
H91	Riverside Dr.	63.2
H92	409 W. Maple	57.0
H93	Harrods Creek Historic District	67.6

LOUISVILLE - SOUTHERN INDIANA
OHIO RIVER BRIDGES PROJECT
Noise Abatement Classification
For Alternative A2 – Historic Properties

Receptor Number	1999/2000 Existing Measured	2025 No-Build Predicted	2025 Predicted Noise Level	Difference Between Existing and Build	Difference Between No-Build and Build	NAC	Category of Impact From Build	Barrier Abatement
H1	50.9	--	59	8	--	67	--	
H2	50.1	--	62	12	--	67	3	A
H3	45.7	--	63	17	--	67	3	A
H4	46.0	--	71	25	--	67	1	A
H13	46.0	--	61	15	--	67	3	A
H22	49.2	--	63	14	--	67	3	A
H62	53.9	--	60	6	--	67	--	
H66	52.1	--	66	14	--	67	1	A
H74	52.7	--	58	5	--	67	--	
H93	67.6	--	47	0*	--	67	--	

A – Possible barrier location (feasibility/reasonableness study necessary) for alternate A2
B -- Proposed project does not appreciably alter (>3 dBA) future noise levels.
* -- Project does not increase the noise level for this location

LOUISVILLE - SOUTHERN INDIANA
OHIO RIVER BRIDGES PROJECT
Noise Abatement Classification
For Alternative A9 – Historic Properties

Receptor Number	1999/2000 Existing Measured	2025 No-Build Predicted	2025 Predicted Noise Level	Difference Between Existing and Build	Difference Between No-Build and Build	NAC	Category of Impact From Build	Barrier Abatement
H1	50.9	--	60	9	--	67	--	
H5	51.4	--	65	14	--	67	3	A
H6	50.1	--	57	7	--	67	--	
H14	52.1	--	54	2	--	67	--	
H15	45.9	--	60	14	--	67	3	A
H16	42.1	--	60	18	--	67	3	A
H17	72.7	--	65	0*	--	67	--	
H18	72.4	--	66	0*	--	67	2	A
H19	51.2	--	66	15	--	67	1	A
H20	49.8	--	58	8	--	67	--	
H22	49.2	--	56	7	--	67	--	
H58	48.8	--	57	8	--	67	--	
H59	48.9	--	65	16	--	67	3	A
H63	53.0	--	56	3	--	67	--	
H74	52.7	--	58	5	--	67	--	
H90	51.7	--	58	6	--	67	--	
H93	67.6	--	54	0*	--	67	--	

A – Possible barrier location (feasibility/reasonableness study necessary) for alternate A9
B -- Proposed project does not appreciably alter (>3 dBA) future noise levels.
* -- Project does not increase the noise level for this location

LOUISVILLE - SOUTHERN INDIANA
OHIO RIVER BRIDGES PROJECT
Noise Abatement Classification
For Alternative A13a (Partial Interchange at U.S. 42) – Historic Properties

Receptor Number	1999/2000 Existing Measured	2025 No-Build Predicted	2025 Predicted Noise Level	Difference Between Existing and Build	Difference Between No-Build and Build	NAC	Category of Impact From Build	Barrier Abatement
H1	50.9	--	60	9	--	67	--	
H5	51.4	--	60	9	--	67	--	
H6	50.1	--	54	4	--	67	--	
H7	48.1	--	55	7	--	67	--	
H8	46.5	--	62	16	--	67	3	A
H9	49.3	--	64	15	--	67	3	A
H10	53.2	--	77	24	--	67	1	A
H11	44.7	--	65	20	--	67	3	A
H12	43.2	--	66	23	--	67	1	A
H13	46.0	--	58	12	--	67	4	A
H22	49.2	--	59	10	--	67	4	A
H63	53.0	--	58	5	--	67	--	
H64	67.5	--	57	0*	--	67	--	
H65	49.2	--	60	11	--	67	3	A
H74	52.7	--	58	5	--	67	--	
H90	51.7	--	51	0*	--	67	--	
H93	67.6	--	55	0*	--	67	--	

A – Possible barrier location (feasibility/reasonableness study necessary) for alternate A13a
B – Proposed project does not appreciably alter (>3 dBA) future noise levels.
* -- Project does not increase the noise level for this location

LOUISVILLE – SOUTHERN INDIANA
OHIO RIVER BRIDGES PROJECT
Noise Abatement Classification
For Alternative A13b (Full Interchange at Wolf Pen Branch Road) – Historic Properties

Receptor Number	1999/2000 Existing Measured	2025 No-Build Predicted	2025 Predicted Noise Level	Difference Between Existing and Build	Difference Between No-Build and Build	NAC	Category of Impact From Build	Barrier Abatement
H1	50.9	--	59	8	--	67	--	
H5	51.4	--	59	8	--	67	--	
H6	50.1	--	53	3	--	67	--	
H7	48.1	--	57	9	--	67	--	
H8	46.5	--	62	16	--	67	3	A
H9	49.3	--	64	15	--	67	3	A
H10	53.2	--	77	24	--	67	1	A
H11	44.7	--	65	20	--	67	3	A
H12	43.2	--	67	24	--	67	1	A
H13	46.0	--	58	12	--	67	4	A
H22	49.2	--	59	10	--	67	4	A
H63	53.0	--	58	5	--	67	--	
H64	67.5	--	57	0*	--	67	--	
H65	49.2	--	60	11	--	67	3	A
H74	52.7	--	58	5	--	67	--	
H90	51.7	--	52	0*	--	67	--	
H93	67.6	--	55	0*	--	67	--	

A – Possible barrier location (feasibility/reasonableness study necessary) for alternate A13b
B – Proposed project does not appreciably alter (>3 dBA) future noise levels.
* -- Project does not increase the noise level for this location

Appendix B.2 / Table 4 – Historic Properties Noise Abatement Tables - dBA Leq (Continued)

LOUISVILLE – SOUTHERN INDIANA
OHIO RIVER BRIDGES PROJECT
Noise Abatement Classification
For Alternative A15a (Partial Interchange at U.S. 42) – Historic Properties

Receptor Number	1999/2000 Existing Measured	2025 No-Build Predicted	2025 Predicted Noise Level	Difference Between Existing and Build	Difference Between No-Build and Build	NAC	Category of Impact From Build	Barrier Abatement
H1	50.9	--	60	9	--	67	--	
H5	51.4	--	60	9	--	67	--	
H6	50.1	--	53	3	--	67	--	
H7	48.1	--	54	6	--	67	--	
H8	46.5	--	62	16	--	67	3	A
H9	49.3	--	65	16	--	67	3	A
H10	53.2	--	75	22	--	67	1	A
H11	44.7	--	68	23	--	67	1	A
H12	43.2	--	71	28	--	67	1	A
H13	46.0	--	63	17	--	67	3	A
H22	49.2	--	61	12	--	67	3	A
H63	53.0	--	59	6	--	67	--	
H64	67.5	--	57	0*	--	67	--	
H66	52.1	--	61	9	--	67	--	
H74	52.7	--	58	5	--	67	--	
H90	51.7	--	51	0*	--	67	--	
H93	67.6	--	55	0*	--	67	--	

A – Possible barrier location (feasibility/reasonableness study necessary) for alternate A15a
B -- Proposed project does not appreciably alter (>3 dBA) future noise levels.
* -- Project does not increase the noise level for this location

LOUISVILLE - SOUTHERN INDIANA
OHIO RIVER BRIDGES PROJECT
Noise Abatement Classification
For Alternative A15b (Full Interchange at Wolf Pen Branch Road) – Historic Properties

Receptor Number	1999/2000 Existing Measured	2025 No-Build Predicted	2025 Predicted Noise Level	Difference Between Existing and Build	Difference Between No-Build and Build	NAC	Category of Impact From Build	Barrier Abatement
H1	50.9	--	59	8	--	67	--	
H5	51.4	--	58	7	--	67	--	
H6	50.1	--	52	2	--	67	--	
H7	48.1	--	54	6	--	67	--	
H8	46.5	--	62	16	--	67	3	A
H9	49.3	--	65	16	--	67	3	A
H10	53.2	--	75	22	--	67	1	A
H11	44.7	--	68	23	--	67	1	A
H12	43.2	--	71	28	--	67	1	A
H13	46.0	--	63	17	--	67	3	A
H22	49.2	--	61	12	--	67	3	A
H63	53.0	--	58	5	--	67	--	
H64	67.5	--	57	0*	--	67	--	
H66	52.1	--	61	9	--	67	--	
H74	52.7	--	58	5	--	67	--	
H90	51.7	--	50	0*	--	67	--	
H93	67.6	--	55	0*	--	67	--	

A – Possible barrier location (feasibility/reasonableness study necessary) for alternate A15b
B -- Proposed project does not appreciably alter (>3 dBA) future noise levels.
* -- Project does not increase the noise level for this location

Appendix B.2 / Table 4 – Historic Properties Noise Abatement Tables - dBA Leq (Continued)

LOUISVILLE - SOUTHERN INDIANA
OHIO RIVER BRIDGES PROJECT
Noise Abatement Classification
For Alternative A16 – Historic Properties

Receptor Number	1999/2000 Existing Measured	2025 No-Build Predicted	2025 Predicted Noise Level	Difference Between Existing and Build	Difference Between No-Build and Build	NAC	Category of Impact From Build	Barrier Abatement
H1	50.9	--	59	8	--	67	--	
H2	50.1	--	59	9	--	67	--	
H3	45.7	--	65	19	--	67	3	A
H4	46.0	--	55	9	--	67	--	
H10	53.2	--	61	8	--	67	--	
H11	44.7	--	67	22	--	67	1	A
H12	43.2	--	63	20	--	67	3	A
H13	46.0	--	68	22	--	67	1	A
H22	49.2	--	61	12	--	67	3	A
H66	52.1	--	61	9	--	67	--	
H74	52.7	--	58	5	--	67	--	
H93	67.6	--	53	0*	--	67	--	

A – Possible barrier location (feasibility/reasonableness study necessary) for alternate A16
B -- Proposed project does not appreciably alter (>3 dBA) future noise levels.
* -- Project does not increase the noise level for this location

Appendix B.2 / Table 4 – Historic Properties Noise Abatement Tables - dBA Leq (Continued)

LOUISVILLE - SOUTHERN INDIANA
OHIO RIVER BRIDGES PROJECT
Noise Abatement Classification
For Alternative B1 – Historic Properties

Receptor Number	1999/2000 Existing Measured	2025 No-Build Predicted	2025 Predicted Noise Level	Difference Between Existing and Build	Difference Between No-Build and Build	NAC	Category of Impact From Build	Barrier Abatement
H21	64.1	--	67	3	--	67	2	A
H22	49.2	--	63	14	--	67	3	A
H23	59.0	--	68	9	--	67	2	A
H24	56.6	--	64	7	--	67	--	
H25	56.2	--	60	4	--	67	--	
H26	52.2	--	67	15	--	67	1	A
H56	55.2	--	61	6	--	67	--	
H57	49.7	--	65	15	--	67	3	A
H60	60.8	--	70	9	--	67	2	A
H67	63.3	--	62	0*	--	67	--	
H68	52.5	--	65	13	--	67	3	A
H69	70.1	--	74	4	--	67	2	A
H70	55.5	--	68	13	--	67	1	A
H71	65.0	--	60	0*	--	67	--	
H72	50.0	--	63	13	--	67	3	A
H73	55.7	--	65	9	--	67	--	
H74	52.7	--	56	3	--	67	--	
105	52.8	--	66	13	--	67	1	A

A – Possible barrier location (feasibility/reasonableness study necessary) for alternate B1
B -- Proposed project does not appreciably alter (>3 dBA) future noise levels.
* -- Project does not increase the noise level for this location

LOUISVILLE - SOUTHERN INDIANA
OHIO RIVER BRIDGES PROJECT
Noise Abatement Classification
For Alternative C1 With An In-Place Kennedy Interchange – Historic Properties

Receptor Number	1999/2000 Existing Measured	2025 No-Build Predicted	2025 Predicted Noise Level	Difference Between Existing and Build	Difference Between No-Build and Build	NAC	Category of Impact From Build	Barrier Abatement
H27	71.3	62	65	0*	3	67	--	
H28	70.1	63	68	0*	5	67	2	A
H29	73.1	62	67	0*	5	67	2	A
H30	63.2	65	66	3	1	72	2	B
H31	65.1	75	81	16	6	72	1	A
H32	69.9	74	78	8	4	72	2	A
H33	61.5	66	67	6	1	67	2	B
H34	64.2	61	62	0*	1	67	--	
H35	58.3	61	62	4	1	67	--	
H36	67.1	64	69	2	5	72	--	
H37	57.6	69	67	9	-2	67	2	B
H38	65.0	80	83	18	3	67	1	B
H39	69.5	81	80	11	-1	67	1	B
H40	69.0	67	61	0*	-6	72	--	
H41	65.8	70	62	0*	-8	72	--	
H42	70.8	79	59	0*	-20	72	--	
H43	69.8	81	58	0*	-23	67	--	
H44	66.8	72	52	0*	-20	72	--	
H45	69.9	75	52	0*	-23	72	--	
H46	69.5	78	53	0*	-25	72	--	
H47	67.1	78	52	0*	-26	72	--	
H48	64.8	76	51	0*	-25	72	--	
H49	60.2	72	51	0*	-21	72	--	
H50	62.5	64	65	3	1	72	--	
H51	57.9	66	69	11	3	72	3	B
H52	60.0	69	69	9	0	72	2	B
H53	60.4	67	66	6	-1	72	2	B
H54	66.8	68	67	0*	-1	72		
H55	58.5	56	55	0*	-1	72	--	
H61	64.9	60	64	0*	4	67	--	
H75	60.6	75	66	5	-9	72	--	
H76	70.1	64	61	0*	-3	67	--	
H77	71.0	60	64	0*	4	67	--	
H78	66.4	62	65	0*	3	67	--	
H79	63.2	64	76	13	12	72	1	A
H80	69.6	75	73	3	-2	67	2	B
H81	71.3	74	74	3	0	67	2	B
H89	56.2	66	68	12	2	67	1	B
H91	63.2	60	61	0*	1	67	--	
H92	57.0	68	69	12	1	67	1	B

A – Possible barrier location (feasibility/reasonableness study necessary) for alternate C1 In-Place
B -- Proposed project does not appreciably alter (>3 dBA) future noise levels.
* -- Project does not increase the noise level for this location

LOUISVILLE - SOUTHERN INDIANA
OHIO RIVER BRIDGES PROJECT
Noise Abatement Classification
For Alternative C1 With A Relocated Kennedy Interchange – Historic Properties

Receptor Number	1999/2000 Existing Measured	2025 No-Build Predicted	2025 Predicted Noise Level	Difference Between Existing and Build	Difference Between No-Build and Build	NAC	Category of Impact From Build	Barrier Abatement
H27	71.3	62	68	0*	6	67	2	A
H28	70.1	63	73	3	10	67	2	A
H29	73.1	62	70	0*	8	67	2	A
H30	63.2	65	66	3	1	72	2	B
H31	65.1	75	80	15	5	72	1	A
H32	69.9	74	78	8	4	72	2	A
H33	61.5	66	67	6	1	67	2	B
H34	64.2	61	62	0*	1	67	--	
H35	58.3	61	62	4	1	67	--	
H36	67.1	64	69	2	5	72	--	
H37	57.6	69	68	10	-1	67	1	B
H38	65.0	80	80	15	0	67	1	B
H39	69.5	81	79	10	-2	67	1	B
H40	69.0	67	62	0*	-5	72	--	
H41	65.8	70	63	0*	-7	72	--	
H42	70.8	79	59	0*	-20	72	--	
H43	69.8	81	58	0*	-23	67	--	
H44	66.8	72	52	0*	-20	72	--	
H45	69.9	75	52	0*	-23	72	--	
H46	69.5	78	53	0*	-25	72	--	
H47	67.1	78	52	0*	-26	72	--	
H48	64.8	76	51	0*	-25	72	--	
H49	60.2	72	51	0*	-21	72	--	
H50	62.5	64	65	3	1	72	--	
H51	57.9	66	69	11	3	72	3	B
H52	60.0	69	69	9	0	72	--	
H53	60.4	67	66	6	-1	72	--	
H54	66.8	68	67	0*	-1	72	--	
H55	58.5	56	56	0*	0	72	--	
H61	64.9	60	76	11	16	67	1	A
H75	60.6	75	68	7	-7	72	--	
H76	70.1	64	62	0*	-2	67	--	
H77	71.0	60	65	0*	5	67	--	
H78	66.4	62	65	0*	3	67	--	
H79	63.2	64	75	12	11	72	1	A
H80	69.6	75	75	5	0	67	--	
H81	71.3	74	75	4	1	67	--	
H89	56.2	66	70	14	4	67	1	A
H91	63.2	60	61	0*	1	67	--	
H92	57.0	68	69	12	1	67	1	B

A – Possible barrier location (feasibility/reasonableness study necessary) for alternate C1 Relocated
B -- Proposed project does not appreciably alter (>3 dBA) future noise levels.
* -- Project does not increase the noise level for this location

LOUISVILLE - SOUTHERN INDIANA
OHIO RIVER BRIDGES PROJECT
Noise Abatement Classification
For Alternative C2 – Historic Properties

Receptor Number	1999/2000 Existing Measured	2025 No-Build Predicted	2025 Predicted Noise Level	Difference Between Existing and Build	Difference Between No-Build and Build	NAC	Category of Impact From Build	Barrier Abatement
H27	71.3	62	64	0*	2	67	--	
H28	70.1	63	67	0*	4	67	2	A
H29	73.1	62	66	0*	4	67	2	A
H30	63.2	65	64	1	-1	72	--	
H31	65.1	75	76	11	1	72	1	B
H32	69.9	74	74	4	0	72	2	B
H33	61.5	66	65	4	-1	67	--	
H34	64.2	61	61	0*	0	67	--	
H35	58.3	61	62	4	1	67	--	
H36	67.1	64	65	0*	1	72	--	
H37	57.6	69	70	12	1	67	1	B
H38	65.0	80	80	15	0	67	1	B
H39	69.5	81	80	11	-1	67	1	B
H40	69.0	67	63	0*	-4	72	--	
H41	65.8	70	64	0*	-6	72	--	
H42	70.8	79	68	0*	-11	72	--	
H43	69.8	81	80	10	-1	67	1	B
H44	66.8	72	72	5	0	72	2	A
H45	69.9	75	75	5	0	72	2	A
H46	69.5	78	75	6	-3	72	2	A
H47	67.1	78	75	8	-3	72	2	A
H48	64.8	76	74	9	-2	72	2	A
H49	60.2	72	72	12	0	72	1	A
H50	62.5	64	69	7	5	72	--	
H51	57.9	66	69	11	3	72	3	B
H52	60.0	69	70	10	1	72	3	B
H53	60.4	67	74	14	7	72	1	A
H54	66.8	68	71	4	3	72	2	B
H55	58.5	56	61	3	5	72	--	
H61	64.9	60	63	0*	3	67	--	
H47A	69.5	75	76	7	1	72	2	B
H75	60.6	64	65	4	1	72	--	
H76	70.1	60	61	0*	1	67	--	
H77	71.0	62	63	0*	1	67	--	
H78	66.4	64	64	0*	0	67	--	
H79	63.2	75	76	13	1	72	1	A
H80	69.6	74	71	1	-3	67	2	B
H81	71.3	74	73	2	-1	67	2	B
H82	64.6	71	73	8	2	72	2	B
H83	65.1	66	66	1	0	72	--	
H84	68.9	63	64	0*	1	72	--	

Appendix B.2 / Table 4 – Historic Properties Noise Abatement Tables - dBA Leq (Continued)

LOUISVILLE - SOUTHERN INDIANA
OHIO RIVER BRIDGES PROJECT
Noise Abatement Classification
For Alternative C2 – Historic Properties (Continued)

Receptor Number	1999/2000 Existing Measured	2025 No-Build Predicted	2025 Predicted Noise Level	Difference Between Existing and Build	Difference Between No-Build and Build	NAC	Category of Impact From Build	Barrier Abatement
H85	65.6	66	68	2	2	72	--	
H86	63.9	59	68	4	9	72	--	
H87	70.7	53	76	5	23	72	2	A
H88	71.6	54	76	4	22	72	2	A
H89	56.2	66	67	11	1	67	1	B
H91	63.2	60	65	2	5	67	--	
H92	57.0	68	67	10	-1	67	1	B

A – Possible barrier location (feasibility/reasonableness study necessary) for alternate C2
B -- Proposed project does not appreciably alter (>3 dBA) future noise levels.
* -- Project does not increase the noise level for this location

LOUISVILLE - SOUTHERN INDIANA
OHIO RIVER BRIDGES PROJECT
Noise Abatement Classification
For Alternative C3 – Historic Properties

Receptor Number	1999/2000 Existing Measured	2025 No-Build Predicted	2025 Predicted Noise Level	Difference Between Existing and Build	Difference Between No-Build and Build	NAC	Category of Impact From Build	Barrier Abatement
H27	71.3	62	77	6	15	67	2	A
H28	70.1	63	76	6	13	67	2	A
H29	73.1	62	70	0*	8	67	2	A
H30	63.2	65	64	1	-1	72	--	
H31	65.1	75	74	9	-1	72	2	B
H32	69.9	74	73	3	-1	72	2	A
H33	61.5	66	65	4	-1	67	--	
H34	64.2	61	61	0*	0	67	--	
H35	58.3	61	63	5	2	67	--	
H36	67.1	64	71	4	7	72	2	A
H37	57.6	69	68	10	-1	67	1	B
H38	65.0	80	77	12	-3	67	1	B
H39	69.5	81	83	14	2	67	1	B
H40	69.0	67	66	0*	-1	72	--	
H41	65.8	70	69	3	-1	72	--	
H42	70.8	79	67	0*	-12	72	--	
H43	69.8	81	63	0*	-18	67	--	
H44	66.8	72	53	0*	-19	72	--	
H45	69.9	75	53	0*	-22	72	--	
H46	69.5	78	54	0*	-24	72	--	
H47	67.1	78	53	0*	-25	72	--	
H48	64.8	76	52	0*	-24	72	--	
H49	60.2	72	52	0*	-20	72	--	
H50	62.5	64	66	4	2	72	--	
H51	57.9	66	69	11	3	72	3	B
H52	60.0	69	68	8	-1	72	--	
H53	60.4	67	66	6	-1	72	--	
H54	66.8	68	67	0*	-1	72	--	
H55	58.5	56	56	0*	0	72	--	
H61	64.9	60	75	10	15	67	1	A
H75	60.6	75	70	9	-5	72	--	
H76	70.1	64	62	0*	-2	67	--	
H77	71.0	60	64	0*	4	67	--	
H78	66.4	62	65	0*	3	67	--	
H79	63.2	64	73	10	9	72	1	A
H80	69.6	75	73	3	-2	67	2	B
H81	71.3	74	73	2	-1	67	2	B
H89	56.2	66	70	14	4	67	1	A
H91	63.2	60	61	0*	1	67	--	
H92	57.0	68	68	11	0	67	1	A

A – Possible barrier location (feasibility/reasonableness study necessary) for alternate C3
B -- Proposed project does not appreciably alter (>3 dBA) future noise levels.
* -- Project does not increase the noise level for this location

Appendix B.3
WETLANDS INFORMATION

Table 1
Summary Table of Potential Wetlands

TABLE I. SUMMARY TABLE OF POTENTIAL WETLANDS

Alpha-Numeric Code	Cowardin/NWI Classification	Field Determination [1]	Field Classification[2]	Meets USACOE Jurisdictional Criteria[3]	Indicator Lacking [4]	Notes
ID-WE-10	PFO1Ah	Non-Wetland		Not Applicable	V, S	
ID-WE-6	PFO1A	Non-Wetland		Not Applicable	S	
ID-WE-8	PSS1Ch	Non-Wetland		Not Applicable	V, S	
ID-WE-9	PSS1Ah	Non-Wetland		Not Applicable	V, S	
IE-WE-1	PFO1A	Non-Wetland		Not Applicable	S	Shale substrate, No Soil
IE-WE-100	Potential	Headwater	R4SB	Not Delineated for Baseline- from planimetrics		Lentzier Creek Tributary
IE-WE-100A	Potential	Headwater	R4SB	Not Delineated for Baseline- from planimetrics		
IE-WE-101	Potential	Headwater	R4SB	Not Delineated for Baseline- from planimetrics		Lancassange Creek Tributary
IE-WE-102	Potential	Headwater	R4SB	Not Delineated for Baseline- from planimetrics		
IE-WE-103	Potential	Headwater	R4SB	Not Delineated for Baseline- from planimetrics		
IE-WE-104	Potential	Headwater	R4SB	Not Delineated for Baseline- from planimetrics		
IE-WE-105	Potential	Headwater	R4SB	Not Delineated for Baseline- from planimetrics		
IE-WE-106	Potential	Headwater	R4SB	Not Delineated for Baseline- from planimetrics		
IE-WE-107	Potential	Headwater	R4SB	Not Delineated for Baseline- from planimetrics		
IE-WE-108	Potential	Headwater				
IE-WE-11	PEMA	Non-Wetland		Not Applicable	V	No evidence, Corn field
IE-WE-13	R4SBC	Wetland	R4SBC	Yes		
IE-WE-13A	Potential	Non-Wetland		Not Applicable	V,H,S	
IE-WE-17	PEMA	Wetland	PEMA/PUBGh	Yes -hydric soil unit inclusion		Ginat inclusion in low spots
IE-WE-18	PEMA	Non-Wetland		Not Applicable	V, H, S	No Evidence
IE-WE-2	PUBGh	Wetland	Channel	Yes		
IE-WE-30	R3UBh	Wetland	R3UBh	Yes		Lentzier Creek
IE-WE-31	PFO1A	Wetland	PFO1A	Yes		Multiple data points
IE-WE-32	PFO1A	Non-Wetland		Not Applicable	V,H,S	
IE-WE-33	PFO1A	Non-Wetland		Not Applicable	V,H	
IE-WE-35	PFO1A	Wetland	PFO1A/PFO1Hb	Yes		Beaver Dam
IE-WE-38	PUBGh	Wetland	PUBGh	No -upland soil unit, no channel		Corydon soil, farm pond

Table 1
Summary Table of Potential Wetlands

Alpha-Numeric Code	Cowardin/NWI Classification	Field Determination [1]	Field Classification[2]	Meets USACOE Jurisdictional Criteria[3]	Indicator Lacking[4]	Notes
IE-WE-4	PUBGh	Wetland	PUBGh	No -upland soil unit, no channel		Hosmer soil
IE-WE-40	PUBGh	Wetland	PUBGh	No -upland soil unit, no channel		Corydon soil
IE-WE-42	PUBFh	No Access	No Access	No -upland soil unit, no channel		No Access
IE-WE-45	PUBGh	Wetland	PUBGh	Yes -hydric soil unit, adjacent to Lentzier Creek		Dry Pond due to drought conditions
IE-WE-49	PUBGx	Wetland	PUBGx	Not Jurisdictional		Quarry with potential hazmat
IE-WE-5	PUBGh	Wetland	PUBGh	Yes -hydric soil		Unconfirmed mapped soil type
IE-WE-50	L2ABGh	Wetland	PUBGh	Not Jurisdictional		Quarry with potential hazmat
IE-WE-52	L1UBHx	Wetland	L1UBHx	Not Jurisdictional		Quarry with potential hazmat
IE-WE-54	PFO1Ch	Non-Wetland		Not Applicable	H, S	
IE-WE-55	PUBGx	Wetland	PUBGx	Not Jurisdictional		Quarry
IE-WE-57	PEMC	Wetland	PEMA	Yes	`	Marginal wetland area
IE-WE-59	L1UBHx	Wetland	L1UBHx	Not Jurisdictional		Quarry
IE-WE-6	PUBGh	Wetland	PUBGh	Yes -site contains a channel		
IE-WE-60	PUBGx	Wetland	PUBGx	Not Jurisdictional		Quarry
IE-WE-67	PFO1A	Non-Wetland		Not Applicable	V, H, S	
IE-WE-68	R2UBH	Wetland	R2UBH	Yes		Lancassange Creek
IE-WE-69	PFO1A	Wetland	PSS/PEMA	Yes		
IE-WE-7	PUBGh	Wetland	PUBGh	Yes -hydric soil unit inclusion		Bonnie inclusion
IE-WE-70	PEMA	Non-Wetland		Not Applicable	H, S	
IE-WE-71	PFO1A	Non-Wetland		Not Applicable	H, S	Multiple data points
IE-WE-71A	PFO1A	Non-Wetland		Not Applicable	V, S	
IE-WE-71B	Potential	Wetland	PUBG	Yes -hydric soil unit		Unconfirmed mapped soil type
IE-WE-72	Potential	Non-Wetland		Not Applicable	S	
IE-WE-73	Potential	Non-Wetland		Not Applicable	S	
IE-WE-77	PEMC	Non-Wetland		Not Applicable	V, H	Filled area
IE-WE-78	PEMA	Wetland	PEMA	Yes		
IE-WE-79	PUBFx	No Access	No Access	No Access		No access
IE-WE-7A	Potential	Wetland	R4SB	Yes		
IE-WE-8	PEMA	Non-Wetland		Not Applicable	V, H, S	No evidence, see IE-WE-8A and 8B
IE-WE-83	PEMCx	Non-Wetland		Not Applicable	V	Disturbed

Table 1
Summary Table of Potential Wetlands

Alpha-Numeric Code	Cowardin/NWI Classification	Field Determination [1]	Field Classification[2]	Meets USACOE Jurisdictional Criteria[3]	Indicator Lacking[4]	Notes
IE-WE-87	PUBGx	Wetland	PUBGx	Not Jurisdictional		Quarry
IE-WE-88	Potential	Wetland	PUBHh	Yes -site contains a channel		
IE-WE-89	R4SBC	Wetland	R4SBC	Yes		Unnamed Tributary to Lentzier Creek
IE-WE-8A	Potential	Wetland	PEMA	Yes		
IE-WE-8B	Potential	Wetland	PEMA	Yes		
IE-WE-90	PUBGh	Wetland	PUBGh	No -upland soil unit, no channel		Pond
IE-WE-91	PUBGh	Wetland	PUBGh	No -upland soil unit, no channel		Farm pond
IE-WE-92	Potential	Wetland	PUBH	No -upland soil unit, no channel		Farm pond
IE-WE-94	Potential	Wetland	R3UBH	Yes		Lentzier Creek Tributary
IE-WE-94A	Potential	Wetland	R4SB	Not Delineated for Baseline- from planimetrics		
IE-WE-95	Potential	Wetland	R3UBH	Yes		Lentzier Creek Tributary
IE-WE-96	Potential	Headwater	R4SB	Not Delineated for Baseline- from planimetrics		Lentzier Creek Tributary
IE-WE-96A	Potential	Headwater	R4SB	Not Delineated for Baseline- from planimetrics		
IE-WE-97	Potential	Headwater	R4SB	Not Delineated for Baseline- from planimetrics		Lentzier Creek Tributary
IE-WE-97A	Potential	Headwater	R4SB	Not Delineated for Baseline- from planimetrics		
IE-WE-98	Potential	Headwater	R4SB	Not Delineated for Baseline- from planimetrics		Lentzier Creek Tributary
IE-WE-98A	Potential	Headwater	R4SB	Not Delineated for Baseline- from planimetrics		
IE-WE-98B	Potential	Headwater	R4SB	Not Delineated for Baseline- from planimetrics		
IE-WE-99	Potential	Headwater	R4SB	Not Delineated for Baseline- from planimetrics		Lentzier Creek Tributary
KD-WE-5	L1UBHh	Wetland	L1UBHh	Yes		Beargrass Creek
KE-WE-10	PUBHx	Wetland	PUBHx	No -Active Water Treatment Plant		Wastewater treatment pond
KE-WE-100	Potential	Wetland	R3UBH	Yes		Little Goose Creek Tributary
KE-WE-101	Potential	Wetland	R3UBH	Yes		Harrods Creek Tributary
KE-WE-102	Potential	Headwater	R4SB	Not Delineated for Baseline- from planimetrics		Harrods Creek Tributary
KE-WE-102A	Potential	Headwater	R4SB	Not Delineated for Baseline- from planimetrics		Harrods Creek Tributary
KE-WE-103	Potential	Headwater	R4SB	Not Delineated for Baseline- from planimetrics		Harrods Creek Tributary
KE-WE-104	Potential	Headwater	R4SB	Not Delineated for Baseline- from planimetrics		Little Goose Creek Tributary
KE-WE-104A	Potential	Headwater	R4SB	Not Delineated for Baseline- from planimetrics		Little Goose Creek Tributary
KE-WE-105	Potential	Headwater	R4SB	Not Delineated for Baseline- from planimetrics		Little Goose Creek Tributary
KE-WE-106	Potential	Headwater	R4SB	Not Delineated for Baseline- from planimetrics		Little Goose Creek Tributary
KE-WE-106A	Potential	Headwater	R4SB	Not Delineated for Baseline- from planimetrics		Little Goose Creek Tributary
KE-WE-106B	Potential	Headwater	R4SB	Not Delineated for Baseline- from planimetrics		Little Goose Creek Tributary
KE-WE-108	Potential	Headwater	R4SB	Not Delineated for Baseline- from planimetrics		(RCBC-1)
KE-WE-11	Potential	Wetland	PUBH	Yes -hydric soils		Data Form is for adjacent soils
KE-WE-11A	Potential	Wetland	PFO1A	Yes		

Table 1
Summary Table of Potential Wetlands

Alpha-Numeric Code	Cowardin/NWI Classification	Field Determination [1]	Field Classification[2]	Meets USACOE Jurisdictional Criteria[3]	Indicator Lacking[4]	Notes
KE-WE-12	Potential	Wetland	PUBG	Yes -contains hydric soil unit		
KE-WE-13	PUBHh	Wetland	PUBHh	Yes -contains hydric soil unit		Dry Pond due to drought conditions
KE-WE-14	PUBHh	Wetland	PUBHh	No -upland soil unit, no channel		
KE-WE-15	PUBHh	Wetland	PUBHh	Yes -hydric soil unit inclusion and channel		Ginat inclusion in low spots
KE-WE-16	Potential	Non-Wetland		Not Applicable	V, H, S	New Kroger Store, filled
KE-WE-17	Potential	Non-Wetland		Not Applicable	V, H, S	
KE-WE-17A	Potential	Non-Wetland		Not Applicable	H,S	
KE-WE-18	Potential	Wetland	PUBHh	No -upland soil unit, no channel		Wheeling soil
KE-WE-19	Potential	Wetland	PEM1C	Yes		Aquatic Macrophytes
KE-WE-19A	Potential	Headwater	R4SB	Not Delineated for Baseline- from planimetrics		Harrods Creek Tributary
KE-WE-20	PUBHh	Wetland	PUBGh	No -upland soil unit, no channel		Farm pond
KE-WE-21	PFO1Ch	Wetland	PFO1Ch	Yes		Multiple data points
KE-WE-21A	R4SBC	Wetland	R4SBC	Yes		Harrods Creek Tributary
KE-WE-22	PEM1C	Non-Wetland		Not Applicable	V, H, S	
KE-WE-22A	PEM1C	Wetland	PEM1C	Yes		
KE-WE-25	Potential	Wetland	R3UBH	Yes		Harrods Creek Tributary
KE-WE-26	PUBHh	Wetland	PUBHh	Yes, hydric soil unit inclusion		Melvin soils in low spots
KE-WE-28	Marina	Wetland	PUBHx	Yes		Marina at Harrods Creek
KE-WE-29	PFO1Ah	Non-Wetland		Not Applicable	S	Developed into parking lot
KE-WE-30	PUBHh	Wetland	PUBHh	No -upland soil unit, no channel		Water detention pond
KE-WE-31	PUBHh	Wetland	PUBHh	No -upland soil unit, no channel		Water detention pond
KE-WE-32	PEM1Fh	Wetland	PUBHh	No -upland soil unit, no channel		Contiguous with KE-WE-31
KE-WE-33	PEM1Fh	Wetland	PUBh	No -upland soil unit, no channel		Contiguous with KE-WE-31
KE-WE-40	PUGHh	Non-Wetland		Not Applicable	H, S	Filled area
KE-WE-41	PFO1Ah	Wetland	PFO1Ah	Yes		
KE-WE-43	Potential	Wetland	PUBHh	No -upland soil unit, no channel		
KE-WE-45	Potential	Wetland	PUBHh	Yes, Part of Harrods Creek		
KE-WE-46	PSS1Ch	Wetland	PSSlCh	Yes		Drainage from treatment pond
KE-WE-47	R2UBH	Wetland	R2UBH	Yes		Harrods Creek
KE-WE-48	R2UBH	Wetland	R2UBH	Yes		Little Goose Creek
KE-WE-48A	Potential	Wetland	PFO1A	Yes		
KE-WE-48B	Potential	Wetland	PFO1A	Yes		
KE-WE-48C	Potential	Non-Wetland		Not Applicable	S	

Table 1
Summary Table of Potential Wetlands

Alpha-Numeric Code	Cowardin/NWI Classification	Field Determination [1]	Field Classification[2]	Meets USACOE Jurisdictional Criteria[3]	Indicator Lacking[4]	Notes
KE-WE-48D	Potential	Non-Wetland		Not Applicable	S	
KE-WE-50	PUBHh	Wetland	PUBHh	No -upland soil unit, no channel		
KE-WE-56	PUBHh	Wetland	PUBHh	No -upland soil unit, no channel		
KE-WE-57	PUBHh	Wetland	PUBHh	No -upland soil unit, no channel		
KE-WE-6	PEMICx	Wetland	PUBHy/PEMICx	No -Active Water Treatment Plant		WWT, Contiguous with KE-WE-85
KE-WE-60	L1UBWh	Wetland	L1UBWh	Yes		Goose Creek
KE-WE-61	PFO1Ah	Non-Wetland		Not Applicable	S	Multiple data points
KE-WE-68	Potential	Headwater	R4SB	Not Delineated for Baseline- from planimetrics		Previously modified
KE-WE-7	Potential	Wetland	PFO1A	Yes		Multiple data points
KE-WE-8	PUBFx	Wetland	PUBFx	No -Active Water Treatment Plant		Wastewater treatment pond
KE-WE-84	PUBFh	Non-Wetland		Not Applicable	H, S	
KE-WE-85	PUBHy	Wetland	PUBHy	No -Active Water Treatment Plant		Wastewater treatment pond
KE-WE-86	PUBFx	Wetland	PUBFx	No -Active Water Treatment Plant		Wastewater treatment pond
KE-WE-87	PUBHh	Wetland	PUBHh	Yes, hydric soil unit inclusion		Melvin soils in low spots
KE-WE-88	PFOAh	Non-Wetland		Not Applicable	H, S	
KE-WE-9	PEMCx	Wetland	PUBHh/PEMCx	No -Active Water Treatment Plant		Wastewater treatment pond
KE-WE-90	PUBFh	Non-Wetland		Not Applicable	S	Delineated
KE-WE-91	PUBHh	Wetland	PUBHh	No -upland soil unit, no channel		
KE-WE-95	Potential	Wetland	PUBH	Yes, site contains a channel		Putney's Pond (Hunting Creek)
KE-WE-95A	Potential	Wetland	PEMC	Yes		
KE-WE-95B	Potential	Wetland	R3UBH	Yes		Hunting Creek (Putney's Pond)
KE-WE-97	Potential	Wetland	PUBGh	No -upland soil unit, no channel		Dry Pond
KE-WE-998	Potential	Wetland	PUBHh	No -upland soil unit, no channel		Riverfields constructed wetland
KE-WE-999	Potential	Wetland	PUBHh	No -upland soil unit, no channel		Riverfields constructed wetland
Ohio River	L1UBHh	Wetland	L1UBHh	Yes		Ohio River within limits of project only.

1 = Field determinations conducted per the 1987 U.S. Army Corps of Engineers Wetland Delineation Manual.

2 = Field classifications are not listed for those sites determined to be Non-Wetlands

3 = For those areas determined to contain hydric vegetation, soils and hydology, an evaluation was made to determine the whether the USACOE would have jurisdictional authority over the site. For example, ponds constructed on upland soil units and not containing a stream channel are not considered to be jurisdictional wetlands by the USACOE.

4 = V = Vegetation, H = Hydrology, S = Soil

TABLE II. SUMMARY TABLE OF JURISDICTIONAL WETLANDS

Alpha-Numeric Code	Cowardin/NWI Classification	Field Classification	Size in Acres[1]	Primary Function(s)	Notes
PALUSTRINE FORESTED WETLANDS (PFO)					
IE-WE-31	PFO1A	PFO1A	2.82	Flood Control and Wildlife Habitat	Adjacent to Lentzier Creek
IE-WE-35	PFO1A	PFO1A/PFO1Hb	7.51	Flood Control and Wildlife Habitat	Beaver Dam
KE-WE-11A	Potential	PFO1A	3.11	Nutrient Removal/Transformation, Toxicant Retention	Adjacent to LWC settling ponds
KE-WE-21	PFO1Ch	PFO1Ch	1.90	Flood Control and Sediment Stabilaztion	Drains to Harrods Creek
KE-WE-41	PFO1Ah	PFO1Ah	3.58	Nutrient Removal/Transformation and Wildlife Habitat	
KE-WE-48A	Potential	PFO1A	0.35	Flood Control and Wildlife Habitat	
KE-WE-48B	Potential	PFO1A	0.35	Flood Control and Wildlife Habitat	
KE-WE-7	Potential	PFO1A	3.71	Nutrient Removal/Transformation, Toxicant Retention	Adjacent to LWC settling ponds
TOTAL AREA OF PFO WETLANDS DELINEATED			23.33 acres		
PALUSTRINE SCRUB-SHRUB WETLANDS (PSS)					
IE-WE-69	PFO1A	PSS/PEMA	1.31	Flood Control and Wildlife Habitat	Adjacent to Lancassange Creek
KE-WE-46	PSS1Ch	PSS1Ch	0.35	Sediment Control and Toxicant Retention	Drainage from treatment pond
TOTAL AREA OF PSS WETLANDS DELINEATED			1.66		
Alpha-Numeric Code	**Cowardin/NWI Classification**	**Field Classification**	**Size in Acres[1]**	**Primary Function(s)**	**Notes**
PALUSTRINE EMERGENT WETLANDS (PEM)					
IE-WE-17	PEMA	PEMA/PUBGh	0.07	Sediment Control and Nutrient Removal	
IE-WE-57	Potential	PEMA	0.12	Nutrient Removal and Toxicant Retention	
IE-WE-78	PEMA	PEMA	1.63	Sediment Control and Nutrient Removal	
IE-WE-8A	Potential	PEMA	0.27	Sediment Control and Nutrient Removal	

Table II - Summary Table of Jurisdictional Wetlands

Alpha-Numeric Code	Cowardin/NWI Classification	Field Classification	Size in Acres[1]	Primary Function(s)	Notes
PALUSTRINE EMERGENT WETLANDS (PEM)					
IE-WE-8B	Potential	PEMA	0.20	Sediment Control and Nutrient Removal	
KE-WE-19	Potential	PEM1C	0.12	Sediment Control and Wildlife Habitat	Aquatic macrophytes
KE-WE-22A	PEM1C	PEM1C	1.80	Sediment/Flood Control and Nutrient Removal	
KE-WE-95A	Potential	PEMC	0.07	Sediment and Flood Control	
TOTAL AREA OF PEM WETLANDS DELINEATED			4.28 acres		
PALUSTRINE UNCONSOLIDATED BOTTOM WETLANDS (PUB)					
IE-WE-45	PUBGh	PUBGh	0.42	Flood Control and Wildlife Habitat	Dry Pond due to drought conditions
IE-WE-5	PUBGh	PUBGh	0.10	Nutrient Removal and Toxicant Retention	Dry pond
IE-WE-6	PUBGh	PUBGh	1.75	Wildlife Habitat	
IE-WE-7	PUBGh	PUBGh	0.40	Aquatic/Wildlife Habitat	
IE-WE-71B	Potential	PUBG	0.22	Flood Control and Wildlife Habitat	
IE-WE-88	Potential	PUBHh	18.11	Sediment Control and Nutrient Removal	
KE-WE-11	Potential	PUBH	0.20	Sediment Control and Nutrient Removal	Data Form is for adjacent soils
KE-WE-12	Potential	PUBG	0.57	Wildlife/Aquatic Habitat and Nutrient Removal	
KE-WE-13	PUBHh	PUBHh	1.73	Wildlife/Aquatic Habitat and Nutrient Removal	Dry pond due to drought conditions in region
KE-WE-15	PUBHh	PUBHh	0.32	Wildlife/Aquatic Habitat and Nutrient Removal	
KE-WE-26	PUBHh	PUBHh	0.91	Wildlife/Aquatic Habitat and Nutrient Removal	
KE-WE-28	Marina	PUBHx	2.08	Flood Control and Wildlife/Aquatic Habitat	Marina at Harrods Creek
KE-WE-45	Potential	PUBHh	1.48	Flood Control and Wildlife/Aquatic Habitat	Part of Harrods Creek
KE-WE-87	PUBHh	PUBHh	0.25	Wildlife/Aquatic Habitat	
KE-WE-95	Potential	PUBH	7.59	Flood Control and Wildlife/Aquatic Habitat	Putney's Pond/Hunting Creek
TOTAL AREA OF PUB WETLANDS DELINEATED			36.13 acres		

Table II - Summary Table of Jurisdictional Wetlands

LACUSTRINE WETLANDS (LUB)					
KE-WE-60	L1UBWh	L1UBWh	3.10 mi	Flood Control and Wildlife/Aquatic Habitat	Goose Creek
KE-WE-5	L1UBHh	L1UBHh	1.12 mi	Flood Control and Wildlife/Aquatic Habitat	Beargrass Creek
Ohio River	L1UBHh	L1UBHh	11.15 mi	Flood Control and Wildlife/Aquatic Habitat	Ohio River
TOTAL AREA / LENGTH OF LUB WETLANDS DELINEATED			15.37 miles		
Alpha-Numeric Code	**Cowardin/NWI Classification**	**Field Classification**	**Size in Miles[1]**	**Primary Function(s)**	**Notes**
RIVERINE WETLANDS					
IE-WE-100	Headwater	R4SB	0.56	Flood Control and Wildlife/Aquatic Habitat	Lentzier Creek Tributary
IE-WE-100A	Headwater	R4SB	0.03	Flood Control and Wildlife/Aquatic Habitat	
IE-WE-101	Headwater	R4SB	0.12	Flood Control and Wildlife/Aquatic Habitat	Lancassange Creek Tributary
IE-WE-102	Headwater	R4SB	0.50	Flood Control and Wildlife/Aquatic Habitat	
IE-WE-103	Headwater	R4SB	0.19	Flood Control and Wildlife/Aquatic Habitat	
IE-WE-104	Headwater	R4SB	0.19	Flood Control and Wildlife/Aquatic Habitat	
IE-WE-105	Headwater	R4SB	0.12	Flood Control and Wildlife/Aquatic Habitat	
IE-WE-106	Headwater	R4SB	0.06	Flood Control and Wildlife/Aquatic Habitat	
IE-WE-107	Headwater	R4SB	0.19	Flood Control and Wildlife/Aquatic Habitat	
IE-WE-108	Headwater	R4SB	0.15	Flood Control and Wildlife/Aquatic Habitat	
IE-WE-13	R4SBC	R4SBC	0.56	Flood Control and Wildlife/Aquatic Habitat	Unnamed Creek
IE-WE-2	PUBGh	Channel / R4SBC	0.06	Flood Control and Wildlife/Aquatic Habitat	Unnamed Creek
IE-WE-30	R3UBh	R3UBh	3.84	Flood Control and Wildlife/Aquatic Habitat	Lentzier Creek
IE-WE-68	R2UBH	R2UBH	2.60	Flood Control and Wildlife/Aquatic Habitat	Lancassange Creek
IE-WE-7A	Potential	R4SB	0.43	Flood Control and Wildlife/Aquatic Habitat	Unnamed Creek
IE-WE-89	R4SBC	R4SBC	0.93	Flood Control and Wildlife/Aquatic Habitat	Lentzier Creek Tributary
IE-WE-94	Potential	R3UBH	0.74	Flood Control and Wildlife/Aquatic Habitat	Lentzier Creek Tributary
IE-WE-94A	Headwater	R4SB	0.43	Flood Control and Wildlife/Aquatic Habitat	
IE-WE-95	Potential	R3UBH	0.50	Flood Control and Wildlife/Aquatic Habitat	Lentzier Creek Tributary
IE-WE-96	Headwater	R4SB	0.62	Flood Control and Wildlife/Aquatic Habitat	Lentzier Creek Tributary
IE-WE-96A	Headwater	R4SB	0.12	Flood Control and Wildlife/Aquatic Habitat	

Table II - Summary Table of Jurisdictional Wetlands

Alpha-Numeric Code	Cowardin/NWI Classification	Field Classification	Size in Miles[1]	Primary Function(s)	Notes
RIVERINE WETLANDS CONT.					
IE-WE-97	Headwater	R4SB	0.37	Flood Control and Wildlife/Aquatic Habitat	Lentzier Creek Tributary
IE-WE-97A	Headwater	R4SB	0.12	Flood Control and Wildlife/Aquatic Habitat	
IE-WE-98	Headwater	R4SB	0.25	Flood Control and Wildlife/Aquatic Habitat	Ohio River Drainage
IE-WE-98A	Headwater	R4SB	0.19	Flood Control and Wildlife/Aquatic Habitat	
IE-WE-98B	Headwater	R4SB	0.06	Flood Control and Wildlife/Aquatic Habitat	
IE-WE-99	Headwater	R4SB	0.31	Flood Control and Wildlife/Aquatic Habitat	Lentzier Creek Tributary
KE-WE-100	Potential	R3UBH	0.50	Flood Control and Wildlife/Aquatic Habitat	Little Goose Creek Tributary
KE-WE-101	Potential	R3UBH	0.50	Flood Control and Wildlife/Aquatic Habitat	Harrods Creek Tributary
KE-WE-102	Headwater	R4SB	0.25	Flood Control and Wildlife/Aquatic Habitat	Harrods Creek Tributary
KE-WE-102A	Headwater	R4SB	0.25	Flood Control and Wildlife/Aquatic Habitat	Harrods Creek Tributary
KE-WE-103	Headwater	R4SB	0.25	Flood Control and Wildlife/Aquatic Habitat	Harrods Creek Tributary
KE-WE-104	Headwater	R4SB	0.31	Flood Control and Wildlife/Aquatic Habitat	Little Goose Creek Tributary
KE-WE-104A	Headwater	R4SB	0.06	Flood Control and Wildlife/Aquatic Habitat	Little Goose Creek Tributary
KE-WE-105	Headwater	R4SB	0.19	Flood Control and Wildlife/Aquatic Habitat	Little Goose Creek Tributary
KE-WE-106	Headwater	R4SB	0.56	Flood Control and Wildlife/Aquatic Habitat	Little Goose Creek Tributary
KE-WE-106A	Headwater	R4SB	0.09	Flood Control and Wildlife/Aquatic Habitat	Little Goose Creek Tributary
KE-WE-106B	Headwater	R4SB	0.03	Flood Control and Wildlife/Aquatic Habitat	Little Goose Creek Tributary
KE-WE-108	Headwater	R4SB	1.18	Flood Control and Wildlife/Aquatic Habitat	Ditch
KE-WE-19A	Headwater	R4SB	0.74	Flood Control and Wildlife/Aquatic Habitat	Harrods Creek Tributary
KE-WE-25	Potential	R3UBH	1.24	Flood Control and Wildlife/Aquatic Habitat	Harrods Creek Tributary
KE-WE-47	R2UBH	R2UBH	3.72	Flood Control and Wildlife/Aquatic Habitat	Harrods Creek
KE-WE-48	R2UBH	R2UBH	4.96	Flood Control and Wildlife/Aquatic Habitat	Little Goose Creek
KE-WE-68	Headwater	R4SB	2.23	Flood Control and Wildlife/Aquatic Habitat	Ditch, Previously modified
KE-WE-95B	Potential	R3UBH	0.62	Flood Control and Wildlife/Aquatic Habitat	Hunting Creek (Putney's Pond)
KE-WE-21A	R4SBC	R4SBC	0.25	Flood Control and Wildlife/Aquatic Habitat	Harrods Creek Tributary
TOTAL LENGTH OF RIVERINE WETLANDS DELINEATED			**32.17 miles**		
TOTAL AREA / LENGTH OF WETLANDS DELINEATED			**65.4 acres / 47.54 miles**		

1 = The values shown for lacustrine and riverine systems are in miles.
The lengths measured for the listed lacustrine and riverine systems are the lengths within the project area only.

Table III
Direct and Indirect Wetland Impacts by Alternative

TABLE III: **Direct and Indirect Wetland Impacts by Alternative**
Impact Evaluation Matrices

TABLE III: Direct and Indirect Wetland Impact by Site Number Alternative Comparison Impact Evaluation Matrix			ALTERNATIVE A2			
Alpha-Numeric Code	Field Classification[1]	Total Size in Acres[2]	Area of Direct Impact[3]	Indirect Impact	Type of Indirect Impact	Notes
PALUSTRINE UNCONSOLIDATED BOTTOM WETLANDS (PUB)						
IE-WE-88	PUBHh	18.11	0.00	Yes	Hydrology altered	Connected to IE-WE-7A and IE-WE-13
KE-WE-12	PUBG	0.57	0.57	Not Applicable	Complete take	Complete take
KE-WE-13	PUBHh	1.73	0.82	Yes	Fragmented and Hydrology altered	
KE-WE-95	PUBH	7.59	0.77	Yes	Proximity to habitat, Shading	Putney's Pond
TOTAL AREA OF PUB IMPACTS			2.16			
PALUSTRINE EMERGENT WETLANDS (PEM)						
KE-WE-95A	PEMC	0.07	0.05	Yes	Fragmented	Only 0.01 ha remain
TOTAL AREA OF PEM IMPACTS			0.05			
RIVERINE WETLANDS[4]						
IE-WE-7A	R4SB (Ditch)	0.4 mi	0.02	Yes	Down-cutting, increased sediment load, creation of barriers to species and processes	
IE-WE-30	R3UBh (Lentzier Ck)	3.8 mi	0.32	Yes	Creation of barriers to species and processes	
IE-WE-94	R3UBH (Lentzier Ck Trib)	0.7 mi	0.17	Yes	Creation of barriers to species and processes	
IE-WE-96	R4SB (Lentzier Ck Trib)	0.6 mi	0.10	Yes	Down-cutting, increased sediment load, creation of barriers	
IE-WE-97	R4SB (Lentzier Ck Trib)	0.4 mi	0.05	Yes	Down-cutting, increased sediment load, creation of barriers	
IE-WE-89	R4SBC (Lentzier Ck Trib)	0.9 mi	0.47	Yes	Creation of barriers to species and processes	
KE-WE-25	R3UBH (Harrods Ck Trib)	1.2 mi	0.27	Yes	Creation of barriers to species and processes	
KE-WE-47	R2UBH (Harrods Ck)	3.7 mi	1.95	Yes	Creation of barriers to species and processes	
TOTAL AREA OF RIVERINE IMPACTS			3.35			
TOTAL AREA OF DIRECT WETLAND IMPACTS			5.51			

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3 = All alternatives would encroach upon the Ohio River. Encroachment is anticipated to be limited to the placement of piers within the channel only. Detailed impacts of these encroachments will be determined during the design of the preferred alternative.
4 = Additional impacts for riverine and lacustrine wetlands have been listed under the Water Body Modifications Table.

Table III
Direct and Indirect Wetland Impacts by Alternative

TABLE III: Direct and Indirect Wetland Impact by Site Number Alternative Comparison Impact Evaluation Matrix			ALTERNATIVE A9			
Alpha-Numeric Code	Field Classification[1]	Total Size in Acres[2]	Direct Impact	Indirect Impact	Type of Indirect Impact	Notes
PALUSTRINE FORESTED WETLANDS (PFO)						
KE-WE-41	PFO1Ah	3.58	0.79	Yes	Bisected, Shading	
TOTAL AREA OF PFO IMPACTS			0.79			
PALUSTRINE EMERGENT WETLANDS (PEM)						
IE-WE-57	PEMA	0.12	0.02	Yes	Hydrology altered, Shading	Site may be spanned by a bridge
TOTAL AREA OF PEM			0.02			
PALUSTRINE UNCONSOLIDATED BOTTOM WETLANDS (PUB)						
IE-WE-88	PUBHh	18.11	0.00	Yes	Hydrology altered	Connected to IE-WE-7A & IE-WE-13
IE-WE-60	PUBGx	1.56	1.48	Yes	Fragmented, Shading	Only 0.03 ha remain, site may be spanned by a bridge
TOTAL AREA OF PUB IMPACTS			1.48			
LACUSTRINE WETLANDS						
KE-WE-60	L1UBWh (Goose Ck.)	3.1 mi	0.77	Yes	Proximity to habitat, creation of barriers to processes and species	
TOTAL AREA OF LACUSTRINE IMPACTS			0.77			
RIVERINE WETLANDS						
IE-WE-13	R4SBC (Ditch)	0.6 mi	0.02	Yes	Down-cutting, increased sedimentation, creation of barriers	
IE-WE-7A	R4SB (Ditch)	0.4 mi	0.05	Yes	Down-cutting, increased sedimentation, creation of barriers	
IE-WE-99	R4SB (Lentzier Ck Trib)	0.3 mi	0.07	Yes	Down-cutting, increased sedimentation, creation of barriers	
IE-WE-100	R4SB (Lentzier Ck Trib)	0.6 mi	0.02	Yes	Down-cutting, increased sedimentation, creation of barriers	
IE-WE-95	R3UBH (Lentzier Ck Trib)	0.5 mi	0.27	Yes	Creation of barriers to processes and species	
KE-WE-104	R4SB (Little Goose Ck Trib)	0.3 mi	0.05	Yes	Down-cutting, increased sedimentation, creation of barriers	
KE-WE-104A	R4SB (Little Goose Ck Trib)	0.1 mi	0.02	Yes	Down-cutting, increased sedimentation, creation of barriers	
KE-WE-105	R4SB (Little Goose Ck Trib)	0.2 mi	0.02	Yes	Down-cutting, increased sedimentation, creation of barriers	
KE-WE-100	R3UBH (Little Goose Ck Trib)	0.5 mi	0.15	Yes	Creation of barriers to processes and species, shading	
KE-WE-106	R4SB (Little Goose Ck Trib)	0.6 mi	0.02	Yes	Down-cutting, increased sedimentation, creation of barriers	
KE-WE-48	R2UBH (Little Goose Ck)	5.0 mi	0.91	Yes	Creation of barriers to processes and species	
TOTAL AREA OF RIVERINE IMPACTS			1.60			
TOTAL AREA OF DIRECT WETLAND IMPACTS			4.66			

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3 = All alternatives would encroach upon the Ohio River. Encroachment is anticipated to be limited to the placement of piers within the channel only. Detailed impacts of these encroachments will be determined during the design of the preferred alternative.
4 = Additional impacts for riverine and lacustrine wetlands have been listed under the Water Body Modifications Table.

Table III
Direct and Indirect Wetland Impacts by Alternative

TABLE III: Direct and Indirect Wetland Impact by Site Number Alternative Comparison Impact Evaluation Matrix			ALTERNATIVE A13			
Alpha-Numeric Code	Field Classification[1]	Total Size in Acres[2]	Area of Direct Impact[3]	Indirect Impact	Type of Indirect Impact	Notes
PALUSTRINE FORESTED WETLANDS (PFO)						
IE-WE-35	PFO1A/PFO1Hb	7.51	0.10	Yes	Proximity to Habitat	
TOTAL AREA OF PFO IMPACTS			0.10			
PALUSTRINE EMERGENT WETLANDS (PEM)						
KE-WE-19	PEM1C	0.12	0.12	Not Applicabe	Complete Take	Complete Take
KE-WE-22A	PEM1C	1.80	0.00	Yes	Proximity to Habitat	
TOTAL AREA OF PEM			0.12			
PALUSTRINE UNCONSOLIDATED BOTTOM WETLANDS (PUB)						
IE-WE-88	PUBHh	18.11	0.00	Yes	Hydrology altered, creation of barriers to processes and species	Connected to IE-WE-7A & IE-WE-13
KE-WE-28	PUBHx	2.08	0.02	Yes	Proximity to habitat	Site may be spanned by a bridge
TOTAL AREA OF PUB IMPACTS			0.02			
RIVERINE WETLANDS						
IE-WE-13	R4SB (Ditch)	0.6 mi	0.02	Yes	Down-cutting, increased sedimentation, creation of barriers to processes and species	
IE-WE-7A	R4SB (Ditch)	0.4 mi	0.02	Yes	Down-cutting, increased sedimentation, creation of barriers to processes and species	
IE-WE-30	R3UBh (Lentzier Ck)	3.8 mi	0.86	Yes	Creation of barriers to processes and species	
IE-WE-94	R3UBH (Lentzier Ck Trib)	0.7 mi	0.49	Yes	Creation of barriers to processes and species	
IE-WE-96	R4SB (Lentzier Ck Trib)	0.6 mi	0.10	Yes	Down-cutting, increased sedimentation, creation of barriers to processes and species	
IE-WE-89	R4SBC (Lentzier Ck Trib)	0.9 mi	0.37	Yes	Creation of barriers to processes and species	
KE-WE-19A	R4SB (Harrods Ck Trib)	0.7 mi	0.05	Yes	Down-cutting, increased sedimentation, creation of barriers to processes and species	
KE-WE-47	R2UBH (Harrods Ck)	3.7 mi	2.64	Yes	Creation of barriers to processes and species	
TOTAL AREA OF RIVERINE IMPACTS			4.55			
TOTAL AREA OF DIRECT WETLAND IMPACTS			4.79			

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3 = All alternatives would encroach upon the Ohio River. Encroachment is anticipated to be limited to the placement of piers within the channel only. Detailed impacts of these encroachments will be determined during the design of the preferred alternative.
4 = Additional impacts for riverine and lacustrine wetlands have been listed under the Water Body Modifications Table.

Table III
Direct and Indirect Wetland Impacts by Alternative

TABLE III: Direct and Indirect Wetland Impact by Site Number Alternative Comparison Impact Evaluation Matrix			ALTERNATIVE A15			
Alpha-Numeric Code	Field Classification[1]	Total Size in Acres[2]	Area of Direct Impact[3]	Indirect Impact	Type of Indirect Impact	Notes
PALUSTRINE EMERGENT WETLANDS (PEM)						
KE-WE-19	PEM1C	0.12	0.12	Not Applicable		Complete Take
KE-WE-22A	PEM1C	1.80	0.00	Yes	Hydrology altered	
TOTAL AREA OF PEM IMPACTS			0.12			
PALUSTRINE UNCONSOLIDATED BOTTOM WETLANDS (PUB)						
IE-WE-88	PUBHh	18.11	0.00	Yes	Hydrology altered, creation of barriers to processes and species	Connected to IE-WE-7A and IE-WE-13
TOTAL AREA OF PUB IMPACTS			0.00			
RIVERINE WETLANDS						
IE-WE-13	R4SBC (Ditch)	0.6 mi	0.05	Yes	Down-cutting, increased sedimentation, creation of barriers to processes and species	
IE-WE-7A	R4SB(Ditch)	0.4 mi	0.02	Yes	Down-cutting, increased sedimentation, creation of barriers to processes and species	
IE-WE-30	R3UBh (Lentzier Ck)	3.8 mi	0.47	Yes	Creation of barriers to processes and species	
IE-WE-94	R3UBH (Lentzier Ck Trib)	0.7 mi	0.37	Yes	Creation of barriers to processes and species	
IE-WE-96	R4SB (Lentzier Ck Trib)	0.6 mi	0.10	Yes	Down-cutting, increased sedimentation, creation of barriers to processes and species	
IE-WE-97	R4SB (Lentzier Ck Trib)	0.4 mi	0.05	Yes	Down-cutting, increased sedimentation, creation of barriers to processes and species	
IE-WE-89	R4SBC (Lentzier Ck Trib)	0.9 mi	0.22	Yes	Creation of barriers to processes and species	
IE-WE-98	R4SB (Ohio River Trib)	0.2 mi	0.12	Yes	Down-cutting, increased sedimentation, creation of barriers to processes and species	
KE-WE-19A	R4SB (Harrods Ck Trib)	0.7 mi	0.05	Yes	Down-cutting, increased sedimentation, creation of barriers to processes and species	
KE-WE-47	R2UBH (Harrods Ck)	3.7 mi	2.05	Yes	Creation of barriers to processes and species	
KE-WE-21A	R4SBC (Harrods Ck Trib)	0.25 mi	0.24	Yes	Creation of barriers to processes and species	Connects KE-WE-11A and KE-WE-21
TOTAL AREA OF RIVERINE IMPACTS			3.74			
TOTAL AREA OF DIRECT WETLAND IMPACTS			3.86			

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3 = All alternatives would encroach upon the Ohio River. Encroachment is anticipated to be limited to the placement of piers within the channel only. Detailed impacts of these encroachments will be determined during the design of the preferred alternative.
4 = Additional impacts for riverine and lacustrine wetlands have been listed under the Water Body Modifications Table.

Table III
Direct and Indirect Wetland Impacts by Alternative

TABLE III: Direct and Indirect Wetland Impact by Site Number Alternative Comparison Impact Evaluation Matrix			ALTERNATIVE A16			
Alpha-Numeric Code	Field Classification[1]	Total Size in Acres[2]	Area of Direct Impact[3]	Indirect Impact	Type of Indirect Impact	Notes
PALUSTRINE FORESTED WETLANDS (PFO)						
KE-WE-7	PFO1A	3.71	0.74	Yes	Proximity to habitat, Shading	
KE-WE-11A	PFO1A	3.11	0.57	Yes	Proximity to habitat, Shading	
TOTAL AREA OF PFO IMPACTS			1.31			
PALUSTRINE UNCONSOLIDATED BOTTOM WETLANDS (PUB)						
IE-WE-88	PUBHh	18.11	0.00	Yes	Hydrology altered	Connected to IE-WE-7A and IE-WE-13
TOTAL AREA OF PUB IMPACTS			0.00			
RIVERINE WETLANDS						
IE-WE-13	R4SBC (Ditch)	0.6 mi	0.02	Yes	Down-cutting, increased sedimentation, creation of barriers to processes and species	
IE-WE-7A	R4SB (Ditch)	0.4 mi	0.05	Yes	Down-cutting, increased sedimentation, creation of barriers to processes and species	
IE-WE-30	R3UBh (Lentzier Ck)	3.8 mi	0.37	Yes	Creation of barriers to species and processes	
IE-WE-94	R3UBH (Lentzier Ck Trib)	0.7 mi	0.07	Yes	Creation of barriers to species and processes	
IE-WE-96	R4SB (Lentzier Ck Trib)	0.6 mi	0.07	Yes	Down-cutting, increased sedimentation, creation of barriers to processes and species	
IE-WE-97	R4SB (Lentzier Ck Trib)	0.4 mi	0.05	Yes	Down-cutting, increased sedimentation, creation of barriers to processes and species	
IE-WE-89	R4SBC (Lentzier Ck Trib)	0.9 mi	0.22	Yes	Creation of barriers to species and processes	
KE-WE-103	R4SB (Harrods Ck Trib)	0.2 mi	0.05	Yes	Down-cutting, increased sedimentation, creation of barriers to processes and species	
KE-WE-102A	R4SB (Harrods Ck Trib)	0.2 mi	0.05	Yes	Down-cutting, increased sedimentation, creation of barriers to processes and species	
KE-WE-25	R3BUH (Hunting Creek)	1.2 mi	0.10	Yes	Creation of barriers to species and processes	
KE-WE-47	R2UBH (Harrods Ck)	3.7 mi	3.14	Yes	Creation of barriers to species and processes	
KE-WE-101	R3UBH (Harrods Ck Trib)	0.5 mi	0.64	Yes	Down-cutting, increased sedimentation, creation of barriers to processes and species	
TOTAL AREA OF RIVERINE IMPACTS			4.83			
TOTAL AREA OF DIRECT WETLAND IMPACTS			6.14			

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4 = Additional impacts for riverine and lacustrine wetlands have been listed under the Water Body Modifications Table.

Table III
Direct and Indirect Wetland Impacts by Alternative

TABLE III: Direct and Indirect Wetland Impact by Site Number Alternative Comparison Impact Evaluation Matrix			ALTERNATIVE B1			
Alpha-Numeric Code	Field Classification[1]	Total Size in Acres[2]	Area of Direct Impact[3]	Indirect Impact	Type of Indirect Impact	Notes
PALUSTRINE SCRUB-SHRUB WETLANDS (PSS)						
IE-WE-69	PSS/PEMA	1.31	1.26	Yes	Fragmented	Only 0.02 ha remain
TOTAL AREA OF PSS IMPACTS			1.26			
PALUSTRINE EMERGENT WETLANDS (PEM)						
IE-WE-78	PEMA	1.63	0.17	Yes	Proximity to habitat	
TOTAL AREA OF PEM IMPACTS			0.17			
PALUSTRINE UNCONSOLIDATED BOTTOM WETLANDS (PUB)						
IE-WE-88	PUBHh	18.11	0.00	Yes	Hydrology altered	Connected to IE-WE-7A and IE-WE-13
TOTAL AREA OF PUB IMPACTS			0			
RIVERINE WETLANDS						
IE-WE-13	R4SBC (Ditch)	0.6 mi	0.05	Yes	Down-cutting, increased sedimentation, creation of barriers to processes and species	
IE-WE-68	R2UBH (Lancassange Ck)	2.6 mi	1.14	Yes	Down-cutting, increased sedimentation, creation of barriers to processes and species	
IE-WE-101	R4SB (Lancassange Ck Trib)	0.1 mi	0.02	Yes	Down-cutting, increased sedimentation, creation of barriers to processes and species	
KE-WE-108	R4SB (Ditch)	1.2 mi	0.05	Yes	Down-cutting, increased sedimentation, creation of barriers to processes and species	Previous similar impact at I-264
KE-WE-68	R4SBC (Ditch)	2.2 mi	0.05	Yes	Down-cutting, increased sedimentation, creation of barriers to processes and species	Previous similar impact at I-264
TOTAL AREA OF RIVERINE IMPACTS			1.31			
TOTAL AREA OF DIRECT WETLAND IMPACTS			2.74			

1 = Field determinations conducted per the 1987 U.S. Army Corps of Engineers Wetland Delineation Manual.
2 = The values shown for lacustrine and all riverine systems are in linear kilometers. The lengths measured for the listed lacustrine and riverine systems are the lengths within the project area only.
3 = All alternatives would encroach upon the Ohio River. Encroachment is anticipated to be limited to the placement of piers within the channel only. Detailed impacts of these encroachments will be determined during the design of the preferred alternative.
4 = Additional impacts for riverine and lacustrine wetlands have been listed under the Water Body Modifications Table.

Table III
Direct and Indirect Wetland impact by Alternative

TABLE III: Direct and Indirect Wetland Impact by Site Number Alternative Comparison Impact Evaluation Matrix			ALTERNATIVES C1, C2 & C3 Area of Direct Impacts[3]					
Alpha-Numeric Code	Field Classification[1]	Total Size in Acres[2]	C1	C2	C3	Indirect Impact	Type of Indirect Impact	Notes
LACUSTRINE WETLANDS								
KD-WE-5	L1UBHh (Beargrass Ck.)	1.1 mi	0.25	0	0.25	Yes	Creation of barriers to processes and species	
TOTAL AREA OF LACUSTRINE IMPACTS			0.25	0	0.25			
TOTAL AREA OF DIRECT WETLAND IMPACTS			0.25	0	0.25			

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3 = All alternatives would encroach upon the Ohio River. Encroachment is anticipated to be limited to the placement of piers within the channel only. Detailed impacts of these encroachments will be determined during the design of the preferred alternative.
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Table IV
Water Body Modifications by Alternative

TABLE IV: **Water Body Modifications by Alternative**
Impact Evaluation Matrix

ALTERNATIVE A2										
Alpha-Numeric Code of Waterway	Classification	Name of Waterway Crossed	Stream Order[1]	Location Along Alignment	Structure	Type of Modification	Width of Waterway (ft)	Length of Impact (ft)	Area of Impact (Ac)	Game fish present[2]
IE-WE-7A	R4SB	Ditch	0	10+881	Culvert	Channel straightening & enclosure	3.9	361	0.02	0
IE-WE-30	R3UBH	Lentzier Creek	2	11+992	Bridge	Bank stabilization, Realignment	23.0	597	0.32	3
IE-WE-94	R3UBH	Lentzier Creek Tributary	1	12+774	Bridge	Bank stabilization, Realignment	16.4	427	0.17	UK
IE-WE-96	R4SB	Lentzier Creek Tributary	0	13+245	Culvert	Channel straightening & enclosure	5.9	666	0.10	UK
IE-WE-97	R4SB	Lentzier Creek Tributary	0	13+770	Culvert	Channel straightening & enclosure	5.9	410	0.05	UK
IE-WE-89	R4SBC	Lentzier Creek Tributary	1	14+015	Bridge	Bank stabilization, Realignment	37.1	558	0.47	UK
KE-WE-25	R3UBH	Harrods Creek Tributary	2	17+344	Bridge	Bank stabilization, Realignment	29.5	394	0.27	UK
KE-WE-95	PUBH	Putney's Pond	3	17+973	Bridge	Span, piers only	NA	NA	0.00	4
KE-WE-47	R2UBH	Harrods Creek	5	18+813	Bridge	Bank stabilization, Realignment	98.4	863	1.95	9
TOTALS							220.2	4275	3.36	

ALTERNATIVE A9										
Alpha-Numeric Code of Waterway	Classification	Name of Waterway Crossed	Stream Order[1]	Location Along Alignment	Structure	Type of Modification	Width of Waterway (ft)	Length of Impact (ft)	Area of Impact (Ac)	Game fish present[2]
IE-WE-13	R4SBC	Ditch	0	10+270	Culvert	Channel straightening & enclosure	3.9	279	0.02	0
IE-WE-7A	R4SB	Ditch	1	10+840	Culvert	Channel straightening & enclosure	3.9	459	0.05	0
IE-WE-99	R4SB	Lentzier Creek Tributary	0	12+040	Culvert	Channel straightening & enclosure	5.9	525	0.07	UK
IE-WE-100	R4SB	Lentzier Creek Tributary	0	13+260	Culvert	Channel straightening & enclosure	3.9	279	0.02	UK
IE-WE-95	R3UBH	Lentzier Creek Tributary	1	13+785	Culvert	Channel straightening & enclosure	11.8	961	0.27	UK
KE-WE-48 and KE-WE-60	R2UBH & L1UBWh	Little Goose Creek and Goose Creek	4	16+618	Bridge	Bank stabilization, Realignment	30.8	262	0.20	2
KE-WE-60	L1UBWh	Goose Creek	3	16+740	Bridge	Bank stabilization, Realignment	31.5	243	0.17	2
KE-WE-60	L1UBWh	Goose Creek	3	16+903	Bridge	Bank stabilization, Realignment	31.5	541	0.40	2
KE-WE-104	R4SB	Little Goose Creek Tributary	0	17+300	Culvert	Channel straightening & enclosure	5.9	279	0.05	UK
KE-WE-104A	R4SB	Little Goose Creek Tributary	0	17+370	Culvert	Channel straightening & enclosure	3.9	279	0.02	UK
KE-WE-48	R2UBH	Little Goose Creek	3	17+650	Bridge	Bank stabilization, Realignment	55.8	568	0.72	2
KE-WE-105	R4SB	Little Goose Creek Tributary	0	17+990	Culvert	Channel straightening & enclosure	3.9	279	0.02	UK
KE-WE-100	R3UBH	Little Goose Creek Tributary	1	18+300	Culvert	Channel straightening & enclosure	10.2	650	0.15	UK
KE-WE-106	R4SB	Little Goose Creek Tributary	0	18+840	Culvert	Channel straightening & enclosure	3.9	279	0.02	UK
TOTALS							207.0	5883	2.20	

Table IV
Water Body Modifications by Alternative

ALTERNATIVE A13										
Alpha-Numeric Code of Waterway	Classification	Name of Waterway Crossed	Stream Order[1]	Location Along Alignment	Structure	Type of Modification	Width of Waterway (ft)	Length of Impact (ft)	Area of Impact (Ac)	Game fish present[2]
IE-WE-13	R4SBC	Ditch	1	10+300	Culvert	Channel straightening & enclosure	3.9	279	0.02	0
IE-WE-7A	R4SB	Ditch	0	10+870	Culvert	Channel straightening & enclosure	3.9	361	0.02	0
IE-WE-30	R3UBh	Lentzier Creek	2	12+227	Bridge	Bank stabilization, realignment	23.0	1654	0.86	3
IE-WE-94	R3UBH	Lentzier Creek Tributary	1	12+820	Bridge	Bank stabilization, realignment	49.2	446	0.49	UK
IE-WE-96	R4SB	Lentzier Creek Tributary	0	13+240	Culvert	Channel straightening & en	5.9	656	0.10	UK
IE-WE-89	R4SBC	Lentzier Creek Tributary	1	13+720	Bridge	Bank stabilization, realignment	29.5	558	0.37	UK
KE-WE-19A	R4SB	Harrods Creek Tributary	0	16+760	Culvert	Channel straightening & enclosure	5.9	417	0.05	UK
KE-WE-47	R2UBH	Harrods Creek	5	17+060	Bridge	Bank stabilization, realignment	137.8	833	2.64	9
TOTALS							259.2	5204	4.57	

ALTERNATIVE A15										
Alpha-Numeric Code of Waterway	Classification	Name of Waterway Crossed	Stream Order[1]	Location Along Alignment	Structure	Type of Modification	Width of Waterway (ft)	Length of Impact (ft)	Area of Impact (Ac)	Game fish present[2]
IE-WE-13	R4SBC	Ditch	1	10+240	Culvert	Channel straightening & enclosure	5.9	279	0.05	0
IE-WE-7A	R4SB	Ditch	0	10+870	Culvert	Channel straightening & enclosure	3.9	404	0.02	0
IE-WE-30	R3UBh	Lentzier Creek	2	12+000	Bridge	Bank stabilization, realignment	38.7	538	0.47	3
IE-WE-94	R3UBH	Lentzier Creek Tributary	1	12+780	Bridge	Bank stabilization, realignment	24.6	646	0.37	UK
IE-WE-96	R4SB	Lentzier Creek Tributary	0	13+260	Culvert	Channel straightening & enclosure	5.9	735	0.10	UK
IE-WE-97	R4SB	Lentzier Creek Tributary	0	13+760	Culvert	Channel straightening & enclosure	3.9	512	0.05	UK
IE-WE-89	R4SBC	Lentzier Creek Tributary	1	14+050	Bridge	Bank stabilization, realignment	34.5	295	0.22	UK
IE-WE-98	R4SB	Ditch	0	15+000	Culvert	Channel straightening & enclosure	9.8	518	0.12	0
KE-WE-19A	R4SB	Harrrods Creek Tributary	0	17+220	Culvert	Channel straightening & enclosure	5.9	417	0.05	UK
KE-WE-47	R2UBH	Harrods Creek	5	17+500	Bridge	Bank stabilization, realignment	143.1	623	2.05	9
TOTALS							276.3	4967	3.51	

Table IV
Water Body Modifications by Alternative

ALTERNATIVE A16										
Alpha-Numeric Code of Waterway	Classification	Name of Waterway Crossed	Stream Order[1]	Location Along Alignment	Structure	Type of Modification	Width of Waterway (ft)	Length of Impact (ft)	Area of Impact (Ac)	Game fish present[2]
IE-WE-13	R4SBC	Ditch	1	9+340	Culvert	Channel straightening & enclosure	3.9	279	0.02	0
IE-WE-7A	R4SB	Ditch	0	10+070	Culvert	Channel straightening & enclosure	5.9	410	0.05	0
IE-WE-30	R3UBh	Lentzier Creek	2	11+140	Bridge	Bank stabilization, realignment	32.8	492	0.37	3
IE-WE-94	R3UBH	Lentzier Creek Tributary	1	11+980	Bridge	Bank stabilization, realignment	7.9	459	0.07	UK
IE-WE-96	R4SB	Lentzier Creek Tributary	0	12+430	Culvert	Channel straightening & en	3.9	837	0.07	UK
IE-WE-97	R4SB	Lentzier Creek Tributary	0	12+930	Culvert	Channel straightening & en	3.9	420	0.05	UK
IE-WE-89	R4SBC	Lentzier Creek Tributary	1	13+222	Bridge	Bank stabilization, realignment	29.5	335	0.22	UK
KE-WE-103	R4SB	Harrods Creek Tributary	0	16+120	Culvert	Channel straightening & enclosure	5.9	410	0.05	UK
KE-WE-102A	R4SB	Harrods Creek Tributary	0	16+300	Culvert	Channel straightening & enclosure	5.9	410	0.05	UK
KE-WE-25	R3UBH	Harrods Creek Tributary	2	17+200	Culvert	Channel straightening & enclosure	13.1	364	0.10	UK
KE-WE-47	R2UBH	Harrods Creek	5	16+735	Bridge	Bank stabilization, realignment	183.7	345	1.46	9
KE-WE-47	R2UBH	Harrods Creek	5	17+016	Bridge	Bank stabilization, realignment	116.5	328	0.89	9
KE-WE-47	R2UBH	Harrods Creek	5	17+345	Bridge	Bank stabilization, realignment	101.7	341	0.79	9
KE-WE-101	R3UBH	Harrods Creek Tributary	1	18+160	Culvert	Channel straightening & enclosure	55.8	509	0.64	UK
TOTALS							570.6	5939	4.84	

Table IV
Water Body Modifications by Alternative

ALTERNATIVE B1										
Alpha-Numeric Code of Waterway	Classification	Name of Waterway Crossed	Stream Order[1]	Location Along Alignment	Structure	Type of Modification	Width of Waterway (ft)	Length of Impact (ft)	Area of Impact (Ac)	Game fish present[2]
IE-WE-13	R4SBC	Ditch	1	10+320	Culvert	Channel straightening & enclosure	5.9	279	0.05	0
IE-WE-68	R2UBH	Lancassange Creek	3	10+920	Culvert	Channel straightening & enclosure	10.2	591	0.15	2
IE-WE-68	R2UBH	Lancassange Creek	3	12+890	Bridge	Bank stabilization, realignment	26.6	492	0.30	2
IE-WE-101	R4SB	Lancassange Creek Tributary	0	Ramp	Culvert	Channel straightening & enclosure	3.9	279	0.02	UK
IE-WE-68	R2UBH	Lancassange Creek	3	14+600	Bridge	Bank stabilization, realignment	49.9	607	0.69	2
KE-WE-108	R4SB	Ditch	1	I-71	Culvert	Channel straightening & enclosure, expansion of existing structure	5.9	410	0.05	0
KE-WE-68	R4SB	Ditch	2	I-71	Culvert	Channel straightening & enclosure, expansion of existing structure	5.9	410	0.05	0
TOTALS							108.3	3068	1.31	

ALTERNATIVE C1										
Alpha-Numeric Code of Waterway	Classification	Name of Waterway Crossed	Stream Order[1]	Location Along Alignment	Structure	Type of Modification	Width of Waterway (ft)	Length of Impact (ft)	Area of Impact (Ac)	Game fish present[2]
KD-WE-5	L1UBHh	Beargrass Creek	4	12+947	Bridge	Bank stabilization, realignment	49.2	256	0.25	4

ALTERNATIVE C2										
Alpha-Numeric Code of Waterway	Classification	Name of Waterway Crossed	Stream Order[1]	Location Along Alignment	Structure	Type of Modification	Width of Waterway (ft)	Length of Impact (ft)	Area of Impact (Ac)	Game fish present[2]
KD-WE-5	L1UBHh	Beargrass Creek	4	Not yet assigned	Bridge	Bank stabilization, realignment	49.2	0	0	4

ALTERNATIVE C3										
Alpha-Numeric Code of Waterway	Classification	Name of Waterway Crossed	Stream Order[1]	Location Along Alignment	Structure	Type of Modification	Width of Waterway (ft)	Length of Impact (ft)	Area of Impact (Ac)	Game fish present[2]
KD-WE-5	L1UBHh	Beargrass Creek	4	Not yet assigned	Bridge	Bank stabilization, realignment	49.2	256	0.25	4

1= Stream Classification was done according to the Strahler method. Please see the text for details.
2= Please refer to the Aquatic Vertebrates Table X for a listing of game fish. UK- Unknown No archival data or field survey data for game fish.

MEMO OF UNDERSTANDING

This memorandum of understanding is made and entered into this 28th day of January, 1991 between the Indiana Department of Transportation (INDOT), the Indiana Department of Natural Resources (IDNR), and the U. S. Fish and Wildlife Service (USFWS) for the purpose of improving the regulatory programs process.

Whereas, INDOT, IDNR and USFWS wish to cooperate with each other to facilitate state and federal permitting requirements in the determination of the type and level of wetland mitigation required and,

Whereas, the INDOT will accomplish wetland mitigation through sequencing, i.e. avoiding impacts, minimizing impacts, rectifying impacts, reducing impacts over time and compensating impacts,

Therefore, in consideration of the terms and conditions set forth herein the INDOT, IDNR and USFWS agree as follows:

1. INDOT in cooperation with the IDNR and USFWS shall determine the quality and quantity of wetland habitat to be impacted by INDOT projects. INDOT will utilize the Federal Manual for Identifying and Delineating Jurisdictional Wetlands. The IDNR and USFWS will be requested to review and comment on INDOT's findings at the early coordination phase of project development.

2. INDOT, using the input from IDNR and USFWS, will formulate appropriate and practicable measures to offset unavoidable impacts to wetlands.

3. INDOT will send a summary or copy of the approved environmental document containing the measures to offset unavoidable impacts to wetlands to IDNR's Division of Fish and Wildlife and the USFWS.

4. If IDNR or the USFWS feel other appropriate and practicable measures are required for regulatory purposes they will notify INDOT in writing so INDOT can arrange a field review. The field review, which will include representatives from INDOT, IDNR and USFWS, will identify additional unavoidable impacts to wetlands and final compensation to the extent appropriate and practicable will be noted.

5. As a result of the field review, if all agencies agree, a mitigation agreement will be prepared. This agreement will be signed by the Department Director of IDNR, the Commissioner of INDOT and the supervisor of the USFWS Bloomington Indiana Field Office. The mitigation agreement will accompany all permit requests so the permitting agency has written documentation that agreement on wetland mitigation has been reached, by the three agencies.

6. Mitigation ratios acceptable to INDOT, IDNR and USFWS will be:

Wetland Type	Ratio
A) farmed	1 to 1
B) scrub-shrub and palustrine/ lacustrine emergent	2-3 to 1 depending upon quality
C) bottomland hardwood forest	3-4 to 1 depending upon quality
D) exceptional, unique, critical (i.e. cypress swamp)	4 and above to 1 depending upon quality

Acceptable mitigation shall be restoration or creation. The mitigation ratios take into consideration the initial loss plus a time factor to achieve in kind or greater value wetland habitat. The goal is to achieve no net loss of the wetland resource. Wetland mitigation ratios for violations or unpermitted activities shall be determined on a case by case basis.

7. The INDOT, IDNR and USFWS agree that due to conditions at certain project sites, wetland mitigation such as restoration or creation may not be available or may otherwise be impracticable. All parties further realize that in some cases agreement on appropriate and practicable wetland mitigation will not be attained by the three agencies. In those cases, the INDOT agrees to monetary compensation at the rate of $1500/acre, to be dedicated to a designated wetland restoration or wetland creation project(s) at the aforementioned specified mitigation ratios.

8. Reimbursement to IDNR and/or USFWS for personnel costs will be made by INDOT for formally requested work associated with wetland design, construction or monitoring for compliance and/or achievement of the intended purpose(s).

9. All parties agree that INDOT, not being a resource agency, will transfer title of lands acquired for wetland mitigation to an agreed upon recipient in lieu of INDOT holding such lands in perpetuity.

10. This document will be reviewed annually or more frequently at the request of any of the foregoing agencies.

Signatures

Commissioner
Indiana Department of Transportation

Director
Indiana Department of Natural Resources

January 28, 1991
Supervisor
U. S. Fish and Wildlife Service
Bloomington, Indiana Field Office

Appendix B.4

FARMLAND CONVERSION IMPACT RATING FORMS

U.S. DEPARTMENT OF AGRICULTURE
Soil Conservation Service

SCS-CPA-106
01-91

FARMLAND CONVERSION IMPACT RATING FOR CORRIDOR TYPE PROJECTS

(To be completed by Federal Agency)

3. Date of Land Evaluation Request: MARCH 7, 2000

4. Sheet 1 of 2

1. Name of Project: LOUISVILLE-SOUTHERN INDIANA OHIO RIVER BRIDGES

5. Federal Agency Involved: U.S DOT - FHWA

2. Type of Project: HIGHWAY - RIGHT-OF-WAY

6. County and State: CLARK COUNTY, INDIANA

PART II (To be completed by SCS)

1. Date Request Received By SCS

2. Person Completing Form

3. Does the corridor contain prime, unique statewide or local important farmland? (If no, the FPPA does not apply - Do not complete additional parts of this form). YES ☒ NO ☐

4. Acres Irrigated: —

Average Farm Size: 144

5. Major Crop(s): Corn

6. Farmable Land In Government Jurisdiction: Acres: 180,470 %: 74

7. Amount Of Farmland As Defined In FPPA: Acres: 90,235 %: 37

8. Name Of Land Evaluation System Used

9. Name of Local Site Assessment System

10. Date Land Evaluation Returned By SCS

PART III (To be completed by Federal Agency)	Alternative Corridor For Segment			
	Area 2	Area 9	Area 13	Area 15
A. Total Acres To Be Converted Directly	285.0	166	283	287
B. Total Acres To Be Converted Indirectly, Or To Receive Services	0	0	0	0
C. Total Acres In Corridor	285.0	166	283	287
PART IV (To be completed by SCS) Land Evaluation Information				
A. Total Acres Prime And Unique Farmland	114	102	124	121
B. Total Acres Statewide And Local Important Farmland	0	0	0	0
C. Percentage Of Farmland In County Or Local Govt Unit To Be Converted	.126	.113	.137	.134
D. Percentage Of Farmland In Govt. Jurisdiction With Same Or Higher Relative Value	173	105	160	160
PART V (To be completed by SCS) Land Evaluation Criterion Relative Value of Farmland to Be Serviced or Converted (Scale of 0 - 100 Points)	56	71	62	61

PART VI (To be completed by Federal Agency) Corridor Assessment Criteria (These criteria are explained in 7 CFR 658.5(c))	Maximum Points				
1. Area In Nonurban Use	15	10.5	10.5	12.75	12.75
2. Perimeter In Nonurban Use	10	7.0	7.0	9.0	9.5
3. Percent Of Corridor Being Farmed	20	8.9	9.4	6.5	9.0
4. Protection Provided By State And Local Government	20	0	0	0	0
5. Size Of Present Farm Unit Compared To Average	10	0	1	0	3.0
6. Creation Of Nonfarmable Farmland	25	0	0	0	0
7. Availability Of Farm Support Services	5	5.0	5.0	5.0	5.0
8. On-Farm Investments	20	15.0	15.0	15.0	15.0
9. Effects Of Conversion On Farm Support Services	25	0	0	0	0
10. Compatibility With Existing Agricultural Use	10	3.1	3	3	4
TOTAL CORRIDOR ASSESSMENT POINTS	160	49.5	50.9	51.25	58.25
PART VII (To be completed by Federal Agency)					
Relative Value Of Farmland (From Part V)	100	56	71	62	61
Total Corridor Assessment (From Part VI above or a local site assessment)	160	49.5	50.9	51.25	58.25
TOTAL POINTS (Total of above 2 lines)	260	105.5	121.9	113.25	119.25

1. Corridor Selected:

2. Total Acres of Farmlands to be Converted by Project:

3. Date Of Selection:

4. Was A Local Site Assessment Used? YES ☐ NO ☐

5. Reason For Selection:

Signature of Person Completing This Part:

DATE

U.S. DEPARTMENT OF AGRICULTURE
Soil Conservation Service

SCS-CPA-106
01-91

FARMLAND CONVERSION IMPACT RATING FOR CORRIDOR TYPE PROJECTS

PART I *(To be completed by Federal Agency)*	3. Date of Land Evaluation Request MARCH 7, 2000	4. Sheet 2 of 2
1. Name of Project LOUISVILLE-SOUTHERN INDIANA OHIO RIVER BRIDGES PROJECT	5. Federal Agency Involved U.S. D.O.T - FHWA	
2. Type of Project HIGHWAY - Right-of-way	6. County and State CLARK COUNTY, INDIANA	
PART II *(To be completed by SCS)*	1. Date Request Received By SCS	2. Person Completing Form
3. Does the corridor contain prime, unique statewide or local important farmland? (If no, the FPPA does not apply - Do not complete additional parts of this form). YES ☒ NO ☐		4. Acres Irrigated — / Average Farm Size 144
5. Major Crop(s) CORN	6. Farmable Land In Government Jurisdiction Acres: 180,470 % 74	7. Amount Of Farmland As Defined In FPPA Acres: 90,235 % 37
8. Name Of Land Evaluation System Used	9. Name of Local Site Assessment System	10. Date Land Evaluation Returned By SCS

PART III *(To be completed by Federal Agency)*	Alternative Corridor For Segment			
	Corridor A	Corridor B	Corridor C	Corridor D
A. Total Acres To Be Converted Directly	265	196	NA	NA
B. Total Acres To Be Converted Indirectly, Or To Receive Services	0	0	NA	NA
C. Total Acres In Corridor	265	196	NA	NA
PART IV *(To be completed by SCS) Land Evaluation Information*				
A. Total Acres Prime And Unique Farmland	110	143	NA	NA
B. Total Acres Statewide And Local Important Farmland	0	0	NA	NA
C. Percentage Of Farmland In County Or Local Govt. Unit To Be Converted	.122	.158	NA	NA
D. Percentage Of Farmland In Govt. Jurisdiction With Same Or Higher Relative Value	160	42	NA	NA
PART V *(To be completed by SCS) Land Evaluation Criterion Relative Value of Farmland to Be Serviced or Converted (Scale of 0 - 100 Points)*	60	80	NA	NA

PART VI *(To be completed by Federal Agency) Corridor Assessment Criteria (These criteria are explained in 7 CFR 658.5(c))*	Maximum Points				
1. Area In Nonurban Use	15	12.95	9.5	NA	NA
2. Perimeter In Nonurban Use	10	9.5	6	NA	NA
3. Percent Of Corridor Being Farmed	20	9.1	9.6	NA	NA
4. Protection Provided By State And Local Government	20	0	0	NA	NA
5. Size Of Present Farm Unit Compared To Average	10	0	0	NA	NA
6. Creation Of Nonfarmable Farmland	25	0	0	NA	NA
7. Availability Of Farm Support Services	5	5.0	5.0	NA	NA
8. On-Farm Investments	20	15.0	15.0	NA	NA
9. Effects Of Conversion On Farm Support Services	25	0	0	NA	NA
10. Compatibility With Existing Agricultural Use	10	3.0	3.0	NA	NA
TOTAL CORRIDOR ASSESSMENT POINTS	160	54.35	46.1	NA	NA
PART VII *(To be completed by Federal Agency)*					
Relative Value Of Farmland (From Part V)	100	60	80	NA	NA
Total Corridor Assessment (From Part VI above or a local site assessment)	160	54.35	46.1	NA	NA
TOTAL POINTS *(Total of above 2 lines)*	260	114.35	126.1	NA	NA

1. Corridor Selected:	2. Total Acres of Farmlands to be Converted by Project:	3. Date Of Selection:	4. Was A Local Site Assessment Used? YES ☐ NO ☐

5. Reason For Selection:

Signature of Person Completing This Part: DATE

U.S. DEPARTMENT OF AGRICULTURE
Soil Conservation Service

SCS-CPA-106
01-81

FARMLAND CONVERSION IMPACT RATING FOR CORRIDOR TYPE PROJECTS

(To be completed by Federal Agency)	3. Date of Land Evaluation Request: MARCH 3, 2000	4. Sheet 1 of 2
1. Name of Project: Louisville-Southern Indiana Ohio River Bridges	5. Federal Agency Involved: U.S. DOT - FHWA	
2. Type of Project: HIGHWAY - RIGHT of WAY	6. County and State: JEFFERSON COUNTY - KENTUCKY	

PART II (To be completed by SCS)	1. Date Request Received By SCS	2. Person Completing Form
3. Does the corridor contain prime, unique statewide or local important farmland? (If no, the FPPA does not apply - Do not complete additional parts of this form). YES [X] NO [ ]		4. Acres Irrigated: 0 / Average Farm Size: 82
5. Major Crop(s): Corn, Soybeans	6. Farmable Land In Government Jurisdiction: Acres: 133,074 %: 55.7	7. Amount Of Farmland As Defined In FPPA: Acres: 112,852 %: 47
8. Name Of Land Evaluation System Used	9. Name of Local Site Assessment System	10. Date Land Evaluation Returned By SCS

PART III (To be completed by Federal Agency)	Alternative Corridor For Segment			
	Corridor 2	Corridor 9	Corridor 13	Corridor 15
A. Total Acres To Be Converted Directly	140.0	78.0	77.0	79.0
B. Total Acres To Be Converted Indirectly, Or To Receive Services	0	0	0	0
C. Total Acres In Corridor	140.0	78.	77.0	79.0
PART IV (To be completed by SCS) Land Evaluation Information				
A. Total Acres Prime And Unique Farmland	32.0	11.0	12.0	4.0
B. Total Acres Statewide And Local Important Farmland	7.0	5.0	0	0
C. Percentage Of Farmland In County Or Local Govt. Unit To Be Converted	.001	.001	.001	.001
D. Percentage Of Farmland In Govt. Jurisdiction With Same Or Higher Relative Value	23.9	62.3		50.4
PART V (To be completed by SCS) Land Evaluation Criterion Relative Value of Farmland to Be Serviced or Converted (Scale of 0 - 100 Points)	91.2	72.7	87.2	78.2

PART VI (To be completed by Federal Agency) Corridor Assessment Criteria (These criteria are explained in 7 CFR 658.5(c))	Maximum Points	Corridor 2	Corridor 9	Corridor 13	Corridor 15
1. Area In Nonurban Use	15	4.5	9	7.5	7.5
2. Perimeter In Nonurban Use	10	4.0	9.2	9.1	9.1
3. Percent Of Corridor Being Farmed	20	10.1	10.8	1.6	0
4. Protection Provided By State And Local Government	20	0	20.0	20.0	20.0
5. Size Of Present Farm Unit Compared To Average	10	0	10.0	10.0	10.0
6. Creation Of Nonfarmable Farmland	25	0	0	0	0
7. Availability Of Farm Support Services	5	5	5.0	5.0	5.0
8. On-Farm Investments	20	20	20.0	20.0	20.0
9. Effects Of Conversion On Farm Support Services	25	0	0	0	0
10. Compatibility With Existing Agricultural Use	10	3	10.0	10.0	10.0
TOTAL CORRIDOR ASSESSMENT POINTS	160	46.60	94	83.2	81.6
PART VII (To be completed by Federal Agency)					
Relative Value Of Farmland (From Part V)	100	91.2	72.7	87.2	78.2
Total Corridor Assessment (From Part VI above or a local site assessment)	160	46.60	94	83.2	81.6
TOTAL POINTS (Total of above 2 lines)	260	137.8	166.7	170.4	159.8

1. Corridor Selected:	2. Total Acres of Farmlands to be Converted by Project:	3. Date Of Selection:	4. Was A Local Site Assessment Used? YES [ ] NO [ ]

5. Reason For Selection:

Signature of Person Completing This Part: DATE

U.S. DEPARTMENT OF AGRICULTURE
Soil Conservation Service

SCS-CPA-106
01-81

FARMLAND CONVERSION IMPACT RATING FOR CORRIDOR TYPE PROJECTS

PART I *(To be completed by Federal Agency)*	3. Date of Land Evaluation Request: MARCH 3, 2000
	4. Sheet 2 of 2
1. Name of Project: LOUISVILLE-SOUTHERN INDIANA OHIO RIVER BRIDGES	5. Federal Agency Involved: USDOT - FHWA
2. Type of Project: HIGHWAY - RIGHT-OF-WAY	6. County and State: JEFFERSON County Kentucky
PART II *(To be completed by SCS)*	1. Date Request Received By SCS
	2. Person Completing Form
3. Does the corridor contain prime, unique statewide or local important farmland? (If no, the FPPA does not apply - Do not complete additional parts of this form). YES [X] NO [ ]	4. Acres Irrigated: 0 / Average Farm Size: 82
5. Major Crop(s): CORN, SOYBEANS	6. Farmable Land In Government Jurisdiction: Acres: 133,674 % 55.7
	7. Amount Of Farmland As Defined In FPPA: Acres: 112,852 % 47
8. Name Of Land Evaluation System Used	9. Name of Local Site Assessment System
	10. Date Land Evaluation Returned By SCS

PART III *(To be completed by Federal Agency)*	Alternative Corridor For Segment			
	Corridor A	Corridor B	Corridor C	Corridor D
A. Total Acres To Be Converted Directly	157.0	24.0	81.0	72.0
B. Total Acres To Be Converted Indirectly, Or To Receive Services	0	0	0	0
C. Total Acres In Corridor	157.0	24.0	81.0	92.0
PART IV (To be completed by SCS) Land Evaluation Information				
A. Total Acres Prime And Unique Farmland	0	0	0	0
B. Total Acres Statewide And Local Important Farmland	0	0	0	0
C. Percentage Of Farmland In County Or Local Govt. Unit To Be Converted	0	0	0	0
D. Percentage Of Farmland In Govt. Jurisdiction With Same Or Higher Relative Value	NA	NA	NA	NA
PART V (To be completed by SCS) Land Evaluation Criterion Relative Value of Farmland to Be Serviced or Converted (Scale of 0 - 100 Points)	NA	NA	NA	NA

PART VI *(To be completed by Federal Agency) Corridor Assessment Criteria (These criteria are explained in 7 CFR 658.5(c))*	Maximum Points				
1. Area In Nonurban Use	15	NA	NA	NA	NA
2. Perimeter In Nonurban Use	10	NA	NA	NA	NA
3. Percent Of Corridor Being Farmed	20	NA	NA	NA	NA
4. Protection Provided By State And Local Government	20	NA	NA	NA	NA
5. Size Of Present Farm Unit Compared To Average	10	NA	NA	NA	NA
6. Creation Of Nonfarmable Farmland	25	NA	NA	NA	NA
7. Availability Of Farm Support Services	5	NA	NA	NA	NA
8. On-Farm Investments	20	NA	NA	NA	NA
9. Effects Of Conversion On Farm Support Services	25	NA	NA	NA	NA
10. Compatibility With Existing Agricultural Use	10	NA	NA	NA	NA
TOTAL CORRIDOR ASSESSMENT POINTS	160	NA	NA	NA	NA
PART VII *(To be completed by Federal Agency)*					
Relative Value Of Farmland (From Part V)	100	NA	NA	NA	NA
Total Corridor Assessment (From Part VI above or a local site assessment)	160	NA	NA	NA	NA
TOTAL POINTS *(Total of above 2 lines)*	260	NA	NA	NA	NA

1. Corridor Selected:	2. Total Acres of Farmlands to be Converted by Project:	3. Date Of Selection: -	4. Was A Local Site Assessment Used? YES [ ] NO [ ]

5. Reason For Selection:

Signature of Person Completing This Part: DATE

TOTAL P.05

Appendix B.5

PLANT AND ANIMAL SURVEYS

TERRESTRIAL FLORAL SPECIES

A. Goose Creek

Gymnospermae

Pinaceae (Pine Family)

Tsuga canadensis	Eastern hemlock

Angiospermae – Monocotyledoneae

Commelinaceae (Spiderwort Family)

Commelina sp.	Day-flower

Cyperaceae (Sedge Family)

Carex grayii	Gray's sedge

Graminae (Grass Family)

Arundinaria gigantea	Cane
Festuca elatior	Fescue

Liliaceae (Lily Family)

Erythronium americanum	Trout lily
Trillium sessile	Sessile trillium

Angiospermae - Dicotyledoneae

Aceraceae (Maple Family)

Acer rubrum	Red maple
Acer saccharinum	Silver maple

Apocynaceae (Dogbane Family)

Vinca minor	Periwinkle

Balsaminaceae (Jewel Weed Family)

Impatiens capensis	Spotted touch-me-not
Impatiens pallida	Jewel weed

Berberidaceae (Barberry Family)

Podophyllum peltatum	May apple

Bignoniaceae (Trumpet Creeper Family)

Bignonia radicans	Trumpet creeper

Caprifoliaceae (Honeysuckle Family)

Lonicera japonica	Japanese honeysuckle

Compositae (Thistle Familiy)

Artemisia annua	Annual wormwood
Erigeron annuus	Daisy fleabane
Eupatorium purpureum	Wide-leaved Joe-pye weed
Solidago altissima	Tall goldenrod

Solidago canadensis	Canada goldenrod
Solidago gigantea	Late goldenrod
Solidago ugliginosa	Bog goldenrod
Verbsina alternifolia	Wingstem
Cruciferae (Mustard Family)	
Barbarea vulgaris	Wintercress
Cardamine douglassii	Purple cress
Dentaria laciniata	Cut-leaved toothwort
Rorippa sylvestris	Creeping yellow cress
Fabaceae (Pea Family)	
Trifolium hybridum	Alsike clover
Trifolium pratense	Red clover
Trifolium repens	White clover
Fagaceae (Beech Family)	
Quercus palustris	Pin oak
Fumariaceae (Fumewort Family)	
Dicentra cucullaria	Dutchman's breeches
Geraniaceae (Geranium Family)	
Geranium carolinianum	Carolina cranes-bill
Juglandaceae (Walnut Family)	
Juglans nigra	Black walnut
Labiatae (Mint Family)	
Lamium purpureum	Purple dead-nettle
Moraceae (Mulberry Family)	
Maclura pomifera	Osageorange
Morus rubra	Red mulberry
Oleaceae (Olive Family)	
Fraxinus americana	White ash
Platanaceae (Plane Tree Family)	
Platanus occidentalis	Sycamore
Polemoniaceae (Phlox Family)	
Phlox divaricata	Wild blue phlox
Portulacaceae (Purslane Family)	
Claytonia virginica	Spring beauty
Portulaca oleracea	Purslane
Ranunculaceae (Crowfoot Family)	
Ranunculus sp.	Buttercup
Rubiaceae (Bedstraw Family)	
Galium aparine	Cleavers
Houstonia caerulea	Bluets

Salicaceae (Willow Family)

Populus deltoides	Eastern cottonwood

Saururaceae (Lizard's Tail Family)

Saururus cernuus	Lizard's tail

Scrophulariaceae (Figwort Family)

Verbascum thapus	Common mullein

Simaroubaceae (Ailanthus Family)

Ailanthus altissima	Tree-of-heaven

Ulmaceae (Elm Family)

Ulmus americana	American elm
Ulmus rubra	Slippery elm

Urticaceae (Nettle Family)

Boehmaria cylindrica	False nettle
Urtica dioica	Stinging nettle

Violaceae (Violet Family)

Viola papilionacea	Common blue violet
Viola rotundifolia	Yellow violet

Vitaceae (Grape Family)

Vitis vulpina	Winter grape

B. **Little Goose Creek**

Angiospermae - Monocotyledoneae

Graminae (Grass Family)

Arundinaria gigantea	Cane
Festuca elatior	Fescue

Liliaceae (Lily Family)

Erythronium albidum	White trout lily
Trillium flexipes	Bent trillium
Trillium sessile	Sessile trillium
Uvularia grandiflora	Large flowered bellwort

Angiospermae - Dicotyledoneae

Aceraceae (Maple Family)

Acer rubrum	Red maple
Acer saccharinum	Silver maple

Aquifoliaceae (Holly Family)

Ilex opaca	American holly

Aristolochiaceae (Birthwort Family)

Asarum canadense	Wild ginger

Balsaminaceae (Jewel Weed Family)

Impatiens capensis	Spotted touch-me-not

Impatiens pallida	Jewel weed
Berberidaceae (Barberry Family)	
Podophyllum peltatum	May apple
Caprifoliaceae (Honeysuckle Family)	
Lonicera japonica	Japanese honeysuckle
Compositae (Thistle Family)	
Achillea millefolium	Yarrow
Solidago sp.	Goldenrod
Verbesina alternifolia	Wingstem
Cruciferae (Mustard Family)	
Almaria officinalis	Garlic mustard
Barbarea verna	Spring cress
Barbarea vulgaris	Wintercress
Dentaria laciniata	Cut-leaved toothwort
Rorippa sylvestris	Creeping yellow cress
Fabaceae (Pea Family)	
Cercis canadensis	Redbud
Trifolium hybridum	Alsike clover
Trifolium pratense	Red closer
Trifolium repens	White clover
Fagaceae (Beech Family)	
Quercus palustris	Pin oak
Fumariaceae (Fumewort Family)	
Dicentra cucullaria	Dutchman's breeches
Geraniaceae (Geranium Family)	
Geranium carolinianum	Carolina cranes-bill
Hydrophyllaceae (Waterleaf Family)	
Hydrophyllum virginianum	Virginia waterleaf
Juglandaceae (Walnut Family)	
Carya ovata	Shagbark hickory
Juglans nigra	Black walnut
Labiatae (Mint Family)	
Lamium purpureum	Purple dead-nettle
Moraceae (Mulberry Family)	
Maclura pomifera	Osageorange
Morus rubra	Red mulberry
Oleaceae (Olive Family)	
Fraxinus americana	White ash
Platanaceae (Plane Tree Family)	
Platanus occidentalis	Sycamore

Polemoniaceae (Phlox Family)

Phlox divaricata	Wild blue phlox

Portulacaceae (Purslane Family)

Claytonia virginica	Spring beauty

Salicaeceae (Willow Family)

Populus deltoides	Eastern cottonwood

Saururaceae (Lizard's Tail Family)

Saururus cernuus	Lizard's tail

Scrophulariaceae (Figwort Family)

Verbaseum thapus	Common mullein

Simaroubaceae (Ailanthus Family)

Ailanthus altissima	Tree-of-heaven

Rubiaceae (Bedstraw Family)

Galium boreale	Bedstraw

Ulmaceae (Elm Family)

Celtis occidentalis	Hackberry
Ulmus americana	American elm

Violaceae (Violet Family)

Viola blanda	Sweet white violet
Viola papilionacea	Common blue violet
Viola pensylvanica	Smooth yellow violet

C. **Fox Harbor Road/Harrods Creek**

Angiospermae - Monocotyledoneae

Cyperaceae (Sedge Family)

Carex lurida	Sallow sedge

Gramineae (Grass Family)

Bromus sterilis	Sterile bromegrass
Festuca elatior	Fescue
Sorghum halepense	Johnson grass

Iridaceae (Iris Family)

Sisyrinchium angustifolium	Blue-eyed grass

Angiospermae - Dicotyledonae

Aceraceae (Maple Family)

Acer negundo	Boxelder
Acer rubrum	Red Maple

Balsaminaceae (Jewel Weed Family)

Impatiens capensis	Spotted touch-me-not
Impatiens pallida	Pale jewel weed

Berberidaceae (Barberry Family)	
Podophyllum peltatum	May apple
Caprifoliaceae (Honeysuckle Family)	
Lonicera japonica	Japanese honeysuckle
Celastraceae (Staff-tree Family)	
Celastrus scandens	Bittersweet
Compositae (Thistle Family)	
Aster divaricatus	White wood aster
Aster novae-angliae	New England aster
Cichorium intybus	Chicory
Daucus carota	Queen Anne's lace
Eupatorium fistulosum	Common Joe-pye weed
Eupatorium perfoliatum	Boneset
Eupatorium sp.	Thoroughwort
Solidago ulmifolia	Elm-leaved goldenrod
Cruciferae (Mustard Family)	
Alliaria officinalis	Garlic mustard
Barbarea vulgaris	Wintercress
Ericaceae (Heath Family)	
Rhododendron maximum	Great laurel
Fabaceae (Pea Family)	
Cercis canadensis	Red bud
Gleditsia triacanthos	Honey locust
Robinia pseudo-acacia	Black locust
Trifolium agrarium	Yellow hop clover
Trifolium hybridum	Alsike clover
Trifolium pratense	Red clover
Trifolium repens	White clover
Fagaceae (Beech Family)	
Quercus palustris	Pin oak
Geraniaceae (Geranium Family)	
Geranium carolinianum	Carolina cranes-bill
Juglandaceae (Walnut Family)	
Juglans nigra	Black walnut
Labiatae (Mint Family)	
Glechoma hederaceae	Ground ivy
Lamium purpureum	Purple dead-nettle
Lauraceae (Laural Family)	
Lindera benzion	Spice bush
Magnoliaceae (Magnolia Family)	
Liriodendron tulipifera	Tulip poplar
Moraceae (Mulberry Family)	
Malcura pomifera	Osageorange

Morus rubra	Red mulberry
Platanaceae (Plane Tree Family)	
Platanus occidentalis	Sycamore
Rosaceae (Rose Family)	
Fragaria virginiana	Strawberry
Rosa multiflora	Multiflora rose
Saururaceae (Lizard's Tail Family)	
Saururus cernuus	Lizard's Tail
Scrophulariaceae (Figwort Family)	
Verbascum thapsus	Common mullein
Simaroubaceae (Ailanthus Family)	
Ailanthus altissima	Tree-of-heaven
Umbelliferae (Carrot Family)	
Pastinaca sativa	Parsnip
Ulmaceae (Elm Family)	
Celtis occidentalis	Hackberry
Ulmus americana	American elm
Vitaceae (Vine Family)	
Vitis aestivalis	Summer grape

D. **Six Mile Island**

Angiospermae - Monocotyledoneae

Cyperaceae (Sedge Family)	
Carex sp.	Sedge
Gramineae (Grass Family)	
Festuca elatior	Fescue
Panicum verrucosum	Warty panic grass

Angiospermae - Dicotyledoneae

Aceraceae (Maple Family)	
Acer negundo	Box elder
Acer saccharinum	Silver maple
Anacardiaceae (Sumac Family)	
Rhus radicans	Poison ivy
Balaminaceae (Jewel Weed Family)	
Impatiens capensis	Spotted touch-me-not
Bignoniaceae (Trumpet-Creeper Family)	
Bignonia radicans	Trumpet creeper

Caprifoliaceae (Honeysuckle Family)	
Lonicera japonica	Japanese honeysuckle
Sambucus canadensis	Common elderberry
Compositae (Thistle Family)	
Lactuca canadensis	Wild Lettuce
Verbesina alternifolia	Wingstem
Cruciferae (Mustard Family)	
Alliaria officinalis	Garlic mustard
Arabis sp.	Cress
Barbarea vulgaris	Wintercress
Fabaceae (Pea Family)	
Amorpha fruticosa	False indigo
Trifolium hybridum	Alsike clover
Trifolium pratense	Red clover
Trifolium repens	White clover
Fagaceae (Beech Family)	
Quercus palustris	Pin oak
Juglandaceae (Walnut Family)	
Juglans nigra	Black walnut
Labiatae (Mint Family)	
Lamium purpureum	Purple dead-nettle
Moraceae (Mulberry Family)	
Maclura pomifera	Osageorange
Morus alba	White mulberry
Morus rubra	Red mulberry
Oleaceae (Olive Family)	
Fraxinus americana	White ash
Phytolaccaceae (Pokeweed Family)	
Phytolacca americana	Pokeweed
Platanaceae (Plane Tree Family)	
Platanus occidentalis	Sycamore
Salicaceae (Willow Family)	
Populus deltoides	Eastern cottonwood
Simaroubaceae (Ailanthus Family)	
Ailanthus altissima	Tree-of-heaven
Umbelliferae (Carrot Family)	
Pastinaca sativa	Parsnip
Ulmaceae (Elm Family)	
Celtis occidentalis	Hackberry
Ulmus americana	American elm

Urticaceae (Nettle Family)

Laportea canadensis	Wood nettle
Pilea pumila	Clearweed

Vitaceae (Vine Family)

Vitis riparia	Riverbank grape

E. **Muddy Fork**

Angiospermae - Monocotyledoneae

Araceae (Arum Family)

Arisaema triphyllum	Jack-in-the-pulpit

Graminae (Grass Family)

Arundinaria gigantea	Cane
Dactylis glomerata	Orchard grass
Festuca elatior	Fescue

Angiospermae - Dicotyledoneae

Aceraceae (Maple Family)

Acer rubrum	Red maple

Aesculaceae (Buckeye Family)

Aesculus glabra	Ohio buckeye

Annonaceae (Custard Apple Family)

Asimina triloba	Pawpaw

Balsaminaceae (Jewel Weed Family)

Impatiens capensis	Spotted touch-me-not
Impatiens pallida	Pale jewel weed

Berberidaceae (Barberry Family)

Podophyllum peltatum	May apple

Bignoniaceae (Trumpet-Creeper Family)

Bignonia capreolata	Cross vine

Caprifoliaceae (Honeysuckle Family)

Lonicera japonica	Japanese honeysuckle

Cruciferae (Mustard Family)

Alliaria officinalis	Garlic mustard
Barbarea vulgaris	Wintercress
Dentaria laciniata	Cut-leaved toothwort

Ericaceae (Heath Family)

Rhododendron maximum	Great laurel

Fabaceae (Pea Family)

Cercis canadensis	Redbud
Trifolium hybridum	Alsike clover
Trifolium pratense	Red clover

Trifolium repens	White clover
Fagaceae (Beech Family)	
Fagus grandifolia	American beech
Quercus palustris	Pin oak
Fumariaceae (Fumewort Family)	
Dicentra cucullaria	Dutchman's breeches
Geraniaceae (Geranium Family)	
Geranium carolinianum	Carolina cranes-bill
Hydrophyllaceae (Waterleaf Family)	
Phacelia purshii	Miami mist
Juglandaceae (Walnut Family)	
Juglans nigra	Black walnut
Labiatae (Mint Family)	
Lamium purpureum	Purple dead-nettle
Moraceae (Mulberry Family)	
Maclura pomifera	Osageorange
Morus rubra	Red mulberry
Oleaceae (Olive Family)	
Fraxinus americana	White ash
Platanaceae (Plane Tree Family)	
Platanus occidentalis	Sycamore
Polemoniaceae (Phlox Family)	
Phlox divaricata	Wild blue phlox
Rubiaceae (Bedstraw Family)	
Galium boreale	Bedstraw
Scrophulariaceae (Figwort Family)	
Verbascum thapsus	Common mullein
Simaroubaceae (Ailanthus Family)	
Ailanthus altissima	Tree-of-heaven
Ulmaceae (Elm Family)	
Ulmus americana	American elm
Umbelliferae (Carrot Family)	
Pastinaca sativa	Parsnip

F. **Waterfront Park**

Angiospermae - Monocotyledoneae

Amaryllidaceae (Amaryllis Family)	
Narcissus pseudo-narcissus	Daffodil

Gramineae (Grass Family)

Festuca elatior	Fescue

Angiospermae - Dicotyledonae

Balsaminaceae (Jewel Weed Family)

Impatiens capensis	Spotted touch-me-not

Caryophyllaceae (Pink Family)

Saponaria officinalis	Bouncing bet

Caprifoliaceae (Honeysuckle Family)

Lonicera japonica	Japanese honeysuckle

Convolvulaceae (Morning Glory Family)

Ipomoea hedracea	English ivy

Cruciferae (Mustard Family)

Barbarea vulgaris	Wintercress

Fabaceae (Pea Family)

Baptista australis	Blue false indigo
Trifolium hybridum	Alsike clover
Trifolium pratense	Red clover
Trifolium repens	White clover

Fagaceae (Beech Family)

Quercus macrocarpa	Burr oak
Quercus palustris	Pin oak

Geraniaceae (Geranium Family)

Geranium carolinianum	Carolina cranes-bill

Juglandaceae (Walnut Family)

Juglans nigra	Black walnut

Labiatae (Mint Family)

Lamium purpureum	Purple dead-nettle

Moraceae (Mulberry Family)

Maclura pomifera	Osageorange
Morus rubra	Red mulberry

Scrophulariaceae (Figwort Family)

Verbascum thapsus	Common mullein

Simaroubaceae (Ailanthus Family)

Ailanthus altissima	Tree-of-heaven

Ulmaceae (Elm Family)

Ulmus americana	American elm

Umbelliferae (Carrot Family)

Pastinaca sativa	Parsnip

G. **Transylvania Beach Road Area/Harrods Creek**

Gymnospermae

Cupressaceae (Cypress Family)

Juniperus virginiana	Red cedar

Taxodiaceae (Bald Cypress Family)

Taxodium distichum	Bald cypress

Pinaceae (Pine Family)

Pinus strobus	White pine

Angiospermae – Monocotyledoneae

Gramineae (Grass Family)

Bromus japonicus	Japanese bromegrass
Elymus virginicus	Wild rye
Festuca elatior	Fescue
Sorghum halepensis	Johnson grass
Phleum pratense	Timothy
Phragmites communis	Common reed grass

Juncaceae (Rush Family)

Juncus marginatus	Grass-leaved rush

Iridaceae (Iris Family)

Iris sp.	Iris

Cyperaceae (Sedge Family)

Carex intumescens	Bladder sedge
Cyperus strigosus	Galingale

Angiospermae - Dicotyledoneae

Aceraceae (Maple Family)

Acer negundo	Boxelder
Acer rubrum	Red maple
Acer saccharinum	Silver maple
Acer saccharum	Sugar maple

Aesculaceae (Buckeye Family)

Aesculus glabra	Ohio buckeye

Anacardiaceae (Sumac Family)

Rhus glabra	Smooth sumac
Rhus radicans	Poison ivy

Apocynaceae (Dogbane Family)

Apocynum pubescens	Velvet dogbane

Balsaminaceae (Jewel Weed Family)

Impatiens capensis	Spotted touch-me-not
Impatiens pallida	Pale jewel weed

Betulaceae (Birch Family)	
Betula nigra	River birch
Boraginaceae (Borage Family)	
Cynoglossum virginianum	Comfrey
Caprifoliaceae (Honeysuckle Family)	
Lonicera japonica	Japanese honeysuckle
Sambucus canadensis	Common elder
Compositae (Thistle Family)	
Cichorium intybus	Chicory
Eupatorium coelestinum	Mistflower
Eupatorium perfoliatum	Boneset
Lactuca canadensis	Tall lettuce
Rudbeckia laciniata	Tall coneflower
Solidago ulmifolia	Elm-leaved goldenrod
Solidago altissima	Tall goldenrod
Solidago gigantea	Late goldenrod
Solidago juncea	Early goldenrod
Solidago nemoralis	Oldfield goldenrod
Tragopogon major	Goat's beard
Verbesina alternifolia	Wingstem
Cruciferae (Mustard Family)	
Alliaria officinalis	Garlic mustard
Armoracia lapathifolia	Horseradish
Barbarea vulgaris	Wintercress
Nasturtium officinale	Watercress
Dipsacaeae (Teasel Family)	
Dipsacus sylvestris	Common teasel
Elaeagnaceae (Oleaster Family)	
Elaeagnus umbellata	Autumn olive
Fabaceae (Pea Family)	
Amorpha fruticosa	Indigo bush
Gleditsia triacanthos	Honey locust
Gymnocladus dioica	Kentucky coffeetree
Trifolium hybridum	Alsike clover
Trifolium pratense	Red clover
Trifolium repens	White clover
Vicia angustifolia	Common vetch
Fagaceae (Beech Family)	
Quercus palustris	Pin oak
Fagus grandifolia	American beech
Quercus velutina	Black oak
Quercus shumardii	Shumard oak
Geraniaceae (Geranium Family)	
Geranium carolinianum	Carolina cranes-bill

Hamamelidaceae (Witch-Hazel Family)	
Liquidambar styraciflua	Sweetgum
Hydrophyllaceae (Waterleaf)	
Phacelia purshii	Miami mist
Juglandaceae (Walnut Family)	
Juglans nigra	Black walnut
Labiatae (Mint Family)	
Glechoma henderacea	Ground ivy
Lamium purpureum	Purple dead-nettle
Mentha piperita	Peppermint
Magnoliaceae (Magnolia Family)	
Liriodendron tulipifera	Tulip poplar
Moraceae (Mulberry Family)	
Maclura pomifera	Osageorange
Morus alba	White mulberry
Morus rubra	Red mulberry
Oleaceae (Olive Family)	
Fraxinus americana	White ash
Phytolaccaceae (Pokeweed Family)	
Phytolacca americana	Pokeweed
Platanaceae (Plane Tree Family)	
Platanus occidentalis	Sycamore
Polygonaceae (Buckwheat Family)	
Rumex crispus	Curly dock
Rosacea (Rose Family)	
Prunus serotina	Wild cherry
Rosa multiflora	Multiflora rose
Rubiaceae (Madder Family)	
Galium aparine	Cleavers
Galium boreale	Bedstraw
Salicaceae (Willow Family)	
Populus deltoides	Eastern cottonwood
Salix nigra	Black willow
Salix interior	Sandbar willow
Scrophulariaceae (Figwort Family)	
Verbascum thapsus	Common mullein
Simaroubaceae (Ailanthus Family)	
Ailanthus altissima	Tree-of-heaven
Solanaceae (Potato Family)	
Solanum carolinensis	Horsenettle

Tiliaceae (Linden Family)

Tilia americana	Basswood

Ulmaceae (Elm Family)

Celtis occidentalis	Hackberry
Ulmus americana	American elm
Ulmus rubra	Slippery elm

Umbelliferae (Carrot Family)

Daucus carota	Queen Anne's lace
Pastinaca sativa	Parsnip

Urticaceae (Nettle Family)

Boehmaria cylindrica	False nettle
Pilea pumila	Clearweed
Urtica dioca	Stinging nettle

Vitaceae (Vine Family)

Vitis aestivalis	Summer grape

H. **Wolf Pen Area**

Pteridophyta

Polypodiaceae (Fern Family)

Adiantum pedatum	Maiden-hair fern
Asplenium rhizophyllum	Walking fern
Asplenium platyneuron	Ebony speen-wort
Cystopteris protrusa	Southern fragile fern
Polystichum acrostichoides	Christmas fern
Woodsia obtusa	Blunt-lobed woodsia

Ophioglossaceae (Adder's Tongue Family)

Botrychium matricariifolium	Grape fern
Botrychium virginianum	Rattlesnake fern

Gymnospermae

Pinaceae (Pine Family)

Juniperus virginiana	Red cedar

Angiospermae - Monocotyledoneae

Araceae (Arum Family)

Arisaema dracontium	Green dragon
Arisaema triphyllum	Jack-in-the-pulpit

Cyperaceae (Sedge Family)

Carex vulpinoidea	Fox sedge

Graminae (Grass Family)

Arundinaria gigantea	Cane
Festuca elatior	Fescue

Iridaceae (Iris Family)

Iris verna	Dwarf iris

Liliaceae (Lily Family)

Allium cernuum	Wild onion
Allium tricoccum	Wild leek
Camassia scilloides	Wild hyacinth
Erythronium americanum	Yellow trout lily
Erythronium albidum	White trout lily
Ornithogalum umbellatum	Star-of-Bethlehem
Polygonatum biflorum	Solomon's seal
Smilax herbacea	Carrion flower
Smilacina racemosa	False Solomon's seal
Trillium grandiflorum	Large-flowered trillium
Trillium sessile	Sessile trillium
Uvularia grandiflora	Large-flowered bellwort

Angiospermae - Dicotyledoneae

Aceraceae (Maple Family)

Acer negundo	Boxelder
Acer rubra	Red maple

Aesculaceae (Buckeye Family)

Aesculus glabra	Ohio buckeye

Apocynaceae (Dogbane Family)

Apocynum sp.	Dogbane
Vinca minor	Periwinkle

Araliaceae (Ginseng Family)

Panax trifolius	Dwarf ginseng

Aristolochiaceae (Birthwort Family)

Asarum canadense	Wild ginger

Balsaminaceae (Jewel Weed Family)

Impatiens capensis	Spotted touch-me-not

Berberidaceae (Barberry Family)

Jeffersonia diphylla	Twinleaf
Podophylluym peltatum	Mayapple

Bignoniaceae (Trumpet-Creeper Family)

Bignonia radicans	Trumpet creeper

Boraginaceae (Borage Family)

Mertensia virginica	Virginia bluebell

Campanulaceae (Bluebell Family)

Campanula americana	Tall bellflower

Caprifoliaceae (Honeysuckle Family)

Lonicera japonica	Japanese honeysuckle
Symphoricarpos orbiculatus	Coralberry

Caryophyllaceae (Pink Family)	
Stellaria pubera	Star chickweed
Celastraceae (Staff-Tree Family)	
Celastrus scandens	Round bittersweet
Compositae (Thistle Family)	
Aster novae-angliae	New England aster
Aster umbellatus	Tall flat-top white aster
Eupatorium purpureum	Wide-leaved Joe-pye weed
Eupatorium rugosum	White snakeroot
Eupatorium serotinum	Late flowering thoroughwort
Latuca canadensis	Wild lettuce
Crassulaceae (Orpine Family)	
Sedum acre	Mossy stonecrop
Sedum pulchellum	Pink stonecrop
Sedum ternatum	Wild stonecrop
Cruciferae (Mustard Family)	
Almaria officinalis	Garlic mustard
Arabis laevigata	Smooth rock-cress
Barbarea vulgaris	Wintercress
Dentaria sp.	Toothwort
Dentaria laciniata	Cut-leaved toothwort
Cornaceae (Dogwood Family)	
Cornus alternifolia	Allternate-leaved dogwood
Cornus florida	Flowering dogwood
Cornus obliqua	Silky dogwood
Ericaceae (Heath Family)	
Ledum groenlandicum	Labrador tea
Rhododendron maximum	Great laurel
Fabaceae (Pea Family)	
Cercis canadensis	Redbud
Robinia pseudo-acacia	Black locust
Trifolium hybridum	Alsike clover
Trifolium pratense	Red clover
Trifolium repens	White clover
Fagaceae (Beech Family)	
Castanea dentata	American chestnut
Castanea pumila	Allegheny chinkapin
Fagus grandifolia	American beech
Quercus rubra	Red oak
Fumariaceae (Fumewort Family)	
Corydalis flavula	Yellow corydalis
Dicentra cucullaria	Dutchman's breeches
Dicentra canadensis	Squirrel corn
Geraniaceae (Geranium Family)	
Geranium maculatum	Wild geranium

Geranium carolinianum	Carolina cranes-bill
Juglandaceae (Walnut Family)	
Juglans nigra	Black walnut
Carya laciniosa	Shellbark hickory
Labiatae (Mint Family)	
Glechoma hederacea	Ground-ivy
Lamium amplexicaule	Henbit
Lamium purpureum	Purple dead-nettle
Synandra hispidula	Synandra
Lauraceae (Laural Family)	
Lindera benzion	Spice bush
Malaceae (Apple Family)	
Malus glaucescens	American crabapple
Moraceae (Mulberry Family)	
Morus rubra	Red mulberry
Maclura pomifera	Osageorange
Oleaceae (Olive Family)	
Fraxinus americana	White ash
Ligustrum vulgare	Privet
Papaveraceae (Poppy Family)	
Sanguinaria canadensis	Bloodroot
Stylophorum diphyllum	Celandine poppy
Platanaceae (Plane Tree Family)	
Platanus occidentalis	Sycamore
Polemoniaceae (Phlox Family)	
Phlox divericata	Wild blue phlox
Polemonium van-bruntiae	Jacob's ladder
Portulacaceae (Purslane Family)	
Claytonia virginica	Spring beauty
Portulaca oleracea	Common purslane
Rhamnaceae (Buckthorn Family)	
Rhamnus cathartica	Buckthorn
Ranunculaceae (Crowfoot Family)	
Actaea alba	White baneberry
Anemonella thalictroides	Rue anemone
Clematis viorna	Leatherflower
Delphinium sp.	Larkspur
Hepatica americana	Roundlobe hepatica
Hydrastis canadensis	Goldenseal
Isopyrum biternatum	False rue anemone
Ranunculus sp.	Buttercup
Rosaceae (Rose Family)	
Crataegus crus-galli	Hawthorn

Rubus occidentalis	Black raspberry
Rubiaceae (Bedstraw Family)	
Galium boreale	Bedstraw
Salicaeae (Willow Family)	
Populus deltoides	Eastern cottonwood
Saururaceae (Lizard's-Tail Family)	
Saururus cernuus	Lizard's tail
Simaroubaceae (Ailanthus Family)	
Ailanthus altissima	Tree-of-heaven
Scrophulariaceae (Figwort Family)	
Verbascum thapsus	Common mullein
Ulmaceae (Elm Family)	
Celtis occidentalis	Hackberry
Ulmus americana	American elm
Ulmus rubra	Slippery elm
Umbelliferae (Carrot Family)	
Erigenia bulbosa	Harbinger-of-spring
Pastinaca sativa	Parsnip
Urticaceae (Nettle Family)	
Laportea canadensis	Wood nettle
Violaceae (Violet Family)	
Viola blanda	Sweet white violet
Viola hastata	Halbred-yellow violet
Viola papilionacera	Common blue violet
Viola rotundifolia	Yellow violet
Vitaceae (Grape Family)	
Vitis vulpina	Winter grape

I. Drumanard

Pteridophyta

Polypodiaceae (Fern Family)	
Athyrium asplenioides	Southern lady fern

Gymnospermae

Pinaceae (Pine Family)	
Tsuga canadensis	Hemlock
Pinus strobus	White pine
Taxodiaceae (Bald Cypress Family)	
Taxodium distichum	Bald Cypress

Angiospermae - Monocotyledoneae

Araceae (Arum Family)

Arisaema dracontium	Green dragon
Arisaema triphyllum	Jack-in-the-pulpit

Liliaceae (Lily Family)

Smilax herbacea	Jacob's ladder

Angiospermae - Dicotyledoneae

Aceraceae (Maple Family)

Acer negundo	Boxelder
Acer rubra	Red maple
Acer saccharinum	Silver maple

Aesculaceae (Buckeye Family)

Aesculus glabra	Ohio buckeye

Apocynaceae (Dogbane Family)

Vinca minor	Periwinkle

Aquifoliaceae (Holly Family)

Ilex opaca	American holly

Betulaceae (Birch Family)

Betula nigra	River birch

Caprifoliaceae (Honeysuckle Family)

Lonicura japonica	Japanese honeysuckle
Symphoricarpos albus	Coralberry
Viburnum sp.	Viburnum

Cornaceae (Dogwood Family)

Cornus florida	Flowering dogwood

Cruciferae (Mustard Family)

Nasturtium officinale	Watercress

Ericaceae (Heath Family)

Oxydendrum arboreum	Sourwood

Fabaceae (Pea Family)

Cercis canadensis	Redbud
Gleditsia triacanthos	Honeylocust
Trifolium campestre	Low hop clover
Trifolium repens	White clover

Fagaceae (Beech Family)

Castanea dentata	American chestnut
Quercus coccinea	Red oak
Quercus palustris	Pin oak
Quercus shumardii	Shumard oak
Quercus velutina	Black oak

Hippuridaceae (Mare's Tail Family)

Hedera helix	English ivy

Juglandaceae (Walnut Family)	
Juglans nigra	Black walnut
Lauraceae (Laurel Family)	
Lindera benzoin	Spicebush
Magnoliaceae (Magnolia Family)	
Liriodendron tulipifera	Tuliptree
Menispermaceae (Moonseed Family)	
Menispermum canadense	Canada moonseed
Moraceae (Mulberry Family)	
Maclura pomifera	Osageorange
Oleaceae (Olive Family)	
Fraxinus americana	White ash
Fraxinius pennsylvanica	Green ash
Ligustrum vulgare	Privet
Polemoniaceae (Polemonium Family)	
Phlox divaricata	Wild blue phlox
Phytolaccaceae (Pokeweed Family)	
Phytolacca americana	Pokeweed
Rosaceae (Rose Family)	
Duchesnea indica	Indian strawberry
Prunus serotina	Wild black cherry
Rubus sp.	Blackberry
Rubus occidentalis	Black raspberry
Salicaceae (Willow Family)	
Populus alba	White poplar
Ulmaceae (Elm Family)	
Celtis occidentalis	Hackberry
Violaceae (Violet Family)	
Viola blanda	Sweet white violet
Viola papilionaceae	Common blue violet
Vitaceae (Vine Family)	
Parthenocissus quinquefolia	Virginia creeper

J. Utica Pike North of Utica

Angiospermae - Monocotyledoneae

Graminae (Grass Family)	
Festuca elatior	Fescue
Holcus halepensis	Johnson grass

Hystrix patula	Bottlebrush grass
Cyperaceae (Sedge Family)	
Carex amphibola	Narrow-leaved sedge
Carex blanda	Woodland sedge
Carex festuaceae	Fescue sedge
Carex plataginea	Plantain-leaved sedge
Carex rosea	Stellate sedge
Juncaceae (Rush Family)	
Juncus effusus	Common rush
Juncus tenuis	Path rush
Typhaceae (Cattail Family)	
Typha latifolia	Cattail
Angiospermae - Dicotyledoneae	
Aceraceae (Maple Family)	
Acer negundo	Boxelder
Acer rubra	Red maple
Acer saccharium	Silver maple
Acer saccharum	Sugar maple
Aesculaceae (Buckeye Family)	
Aesculus glabra	Ohio buckeye
Anacardiaceae (Sumac Family)	
Rhus copallina	Upland sumac
Rhus glabra	Smooth sumac
Rhus radicans	Poison ivy
Balsaminaceae (Jewel Weed Family)	
Impatiens capensis	Spotted touch-me-not
Betulaceae (Birch Family)	
Betula nigra	River birch
Bignoniaceae (Trumpet Creeper Family)	
Bignonia caperolata	Cross vine
Caprifoliaceae (Honeysuckle Family)	
Diervilla lonicera	Bush honeysuckle
Lonicera japonica	Japanese honeysuckle
Celastraceae (Staff-Tree Family)	
Euonymus americanus	Strawberry bush
Crassulaceae (Orpine Family)	
Sedum purpureum	Sedum
Compositae (Thistle Family)	
Aster umbellatus	Tall white aster
Cirsium discolor	Field thistle
Chrysanthemum leucanthemum	Oxeye daisy

Erigeron ramosus	Daisy fleabane
Solidago altissima	Tall goldenrod
Solidago canadensis	Canada goldenrod
Solidago gigantea	Late-flowering goldenrod
Solidago ugliginosa	Bog goldenrod
Crassulaceae (Orpine Family)	
Sedum purpureum	Live-forever sedum
Cruciferae (Mustard Family)	
Alliaria officinalis	Garlic mustard
Barbarea vulgaris	Wintercress
Fabaceae (Pea Family)	
Amphicarpa bracteata	Hog-peanut
Cercis canadensis	Redbud
Gleditsia triacanthos	Black locust
Medicago sativa	Alfalfa
Melilotus officinalis	Yellow sweetclover
Trifolium agrarium	Yellow hop clover
Trifolium hybridum	Alsike clover
Trifolium pratense	Red clover
Trifolium repens	White clover
Fagaceae (Beech Family)	
Fagus grandifolia	American beech
Quercus muehlenbergii	Chinquapin oak
Quercus palustris	Pin oak
Quercus prinus	Chesnut oak
Geraniaceae (Geranium Family)	
Geranium carolinianum	Carolina cranes-bill
Hydrophyllaceae (Waterleaf Family)	
Hydrophyllum virginianum	Virginia waterleaf
Phacelia purshii	Miami mist
Ilicaceae (Holly Family)	
Ilex verticillata	Winterberry
Juglandaceae (Walnut Family)	
Juglans nigra	Black walnut
Labiatae (Mint Family)	
Lamium purpureum	Purple dead-nettle
Moraceae (Mulberry Family)	
Maclura pomifera	Osageorange
Morus alba	White mulberry
Morus rubra	Red mulberry
Oleaceae (Olive Family)	
Fraxinus americana	White ash
Fraxinus pennsylvanica	Green ash

Oenothera (Evening-Primrose Family)	
Oenothera biennis	Common evening primrose
Platanaceae (Plane Tree Family)	
Platanus occidentalis	Sycamore
Phytolaccaceae (Pokeweed Family)	
Phytolacca americana	Pokeweed
Ranunculaceae (Crowfoot Family)	
Delphinium tricorne	Dwarf larkspur
Rosaceae (Rose Family)	
Fragaria vesca	Hedge strawberry
Rosa multiflora	Multiflora rose
Salicaceae (Willow Family)	
Populus deltoides	Eastern cottonwood
Populus grandidentata	Bigtooth aspen
Salix interior	Sandbar willow
Scrophulariaceae (Figwort Family)	
Verbascum thapsus	Common mullein
Simaroubaceae (Ailanthus Family)	
Ailanthus altissima	Tree-of-heaven
Solanaceae (Potato Family)	
Datura stramonium	Jimson weed
Ulmaceae (Elm Family)	
Celtis occidentalis	Hackberry
Ulmus americana	American elm
Umbelliferae (Carrot Family)	
Pastinaca sativa	Parsnip
Valerianaceae (Valerian Family)	
Valerianella sp.	Corn salad
Vitaceae (Grape Family)	
Vitis vulpina	Winter grape

K. Lancassange Creek

Pteridophyta

Equisetaceae (Horsetail Family)	
Equisetum hyemale	Scouring rush

Angiospermae - Monocotyledoneae

Alismataceae (Water Plantain Family)	
Sagittaria latifolia	Duck potato

Cyperaceae (Sedge Family)

Carex amphibola	Narrow-leaved sedge
Carex annectens	Yellow-fruited sedge
Carex blanda	Woodland sedge
Carex grayii	Gray's sedge
Carex plantaginea	Plantain-leaved sedge
Carex rosea	Stellate sedge

Gramineae (Grass Family)

Dactylis glomerata	Orchard grass
Elymus canadensis	Canada wild rye
Elymus virginicus	Virginia wild rye
Festuca elatior	Fescue
Panicum implicatum	Panic grass

Typhaceae (Cattail Family)

Typha latifolia	Cattail

Juncaceae (Rush Family)

Juncus effusus	Soft rush
Juncus marginatus	Grass-leaved rush

Angiospermae - Dicotyledoneae

Aceraceae (Maple Family)

Acer negundo	Boxelder
Acer rubrum	Red maple

Aesculaceae (Buckeye Family)

Aesculus hippocastanum	Horsechestnut

Anacardiaceae (Sumac Family)

Rhus radicans	Poison ivy

Annonaceae (Custard Apple Family)

Asimina triloba	Pawpaw

Balsaminaceae (Jewel Weed Family)

Impatiens capensis	Spotted touch-me-not

Betulaceae (Birch Family)

Betula nigra	River birch

Caprifoliaceae (Honeysuckle Family)

Diervilla lonicera	Bush honeysuckle
Lonicera japonica	Japanese honeysuckle
Sambucus canadensis	Common elder

Cichoriaceae (Chicory Family)

Lactuca canadensis	Tall lettuce

Compositae (Thistle Family)

Aster dumosus	Bushy aster
Bidens sp.	Tickseed sunflower
Cirsium sp.	Thistle
Erigeron annuus	Daisy fleabane

Eupatorium fistulosum	Common Joe-pye weed
Eupatorium perfoliatum	Boneset
Eupatorium purpureum	Wide-leaved Joe-pye weed
Ridan alternifolius	Wingstem
Scutellaria nervosa	Veined skullcap
Solidago rugosa	Wrinkled-leaf goldenrod
Verbesina alternifolia	Wingstem
Vernonia altissima	Tall ironweed
Cornaceae (Dogwood Family)	
Cornus rugosa	Dogwood
Cruciferae (Mustard Family)	
Alliaria officinalis	Garlic mustard
Barbarea vulgaris	Wintercress
Ericaceae (Heath Family)	
Rhodendron maximum	Great laurel
Fagaceae (Beech Family)	
Fagus granifolia	American beech
Quercus palustris	Pin oak
Geraniaceae (Geranium Family)	
Geranium carolinianum	Carolina cranes-bill
Juglandaceae (Walnut Family)	
Carya ovata	Shagbark hickory
Juglans nigra	Black walnut
Labiatae (Mint Family)	
Glechoma hederacea	Ground-ivy
Lamium purpureum	Purple dead-nettle
Scutellaria latetiflora	Mad-dog skullcap
Fabaceae (Pea Family)	
Amphicarpa bracteata	Hog-peanut
Cercis canadensis	Redbud
Gleditsia triacanthos	Black locust
Gymnocladus dioica	Kentucky coffeetree
Lespedeza virginica	Virginia bushclover
Trifolium agrarium	Yellow hop clover
Trifolium hybridum	Alsike clover
Trifolium pratense	Red clover
Trifolium repens	White clover
Magnoliaceae (Magnolia Family)	
Magnolia acuminata	Cucumber tree
Moraceae (Mulberry Family)	
Maclura pomifera	Osageorange
Morus alba	White mulberry
Morus rubra	Red mulberry
Oleaceae (Olive Family)	
Fraxinus americana	White ash

Fraxinus pennsylvanica	Green ash
Platanaceae (Plane Tree Family)	
Platanus occidentalis	Sycamore
Polygonaceae	
Polygonum coccineum	Smartweed
Tovara virginiana	Virginia knotweed
Rubiaceae (Bedstraw Family)	
Galium aparine	Cleavers
Salicaceae (Willow Family)	
Populus alba	White poplar
Populus deltoides	Eastern cottonwood
Salix interior	Sandbar willow
Salix nigra	Black willow
Scrophulariaceae (Figwort Family)	
Verbascum thapsus	Common mullein
Simaroubaceae (Ailanthus Family)	
Ailanthus altissima	Tree-of-heaven
Solanaceae (Potato Family)	
Physalis virginiana	Wild cherry
Ulmaceae (Elm Family)	
Celtis occidentalis	Hackberry
Ulmus americana	American elm
Umbelliferae (Carrot Family)	
Conium maculatum	Poison hemlock
Pastinaca sativa	Parsnip
Urticaceae (Nettle Family)	
Laportea canadensis	Wood nettle
Pilea pumila	Clearweed
Urtica dioica	Stinging nettle
Verbenaceae (Vervain Family)	
Verbena hastata	Ironweed
Violaceae (Violet Family)	
Viola papilionacea	Common blue violet
Vitaceae (Grape Family)	
Parthenocissus quinquefolia	Virginia creeper
Vitis aestivalis	Summer grape

L. Lentzier Creek

Gymnospermae

Pinaceae (Pine Family)

Juniperus virginiana	Red cedar
Pinus strobus	White pine

Angiospermae - Monocotyledonae

Araceae (Arum Family)

Arisaema triphyllum	Jack-in-the-pulpit

Cyperaceae (Sedge Family)

Carex plantaginea	Plantain-leaved sedge

Graminae (Grass Family)

Festuca elatior	Fescue
Lolium perenne	Rye grass
Panicum boscii	Panic grass
Triticum aestivum	Wheat
Uniola latifolia	Wild oats

Iridaceae (Iris Family)

Sisyrinchium montanum	Blue-eyed grass

Liliaeae (Lily Family)

Allium cernuum	Wild onion

Angiospermae - Dicotyledoneae

Aceraceae (Maple Family)

Acer negundo	Boxelder
Acer rubrum	Red maple
Acer saccharinum	Silver maple

Anacardiaceae (Sumac Family)

Rhus radicans	Poison ivy

Aristolochiaceae (Birthwort Family)

Aristolochia macrophylla	Pipevine

Asclepiadaceae (Milkweed Family)

Asclepias speciosa	Showy milkweed

Balsaminaceae (Jewel Weed Family)

Impatiens capensis	Spotted touch-me-not
Impatiens pallida	Jewel weed

Bignoniaceae (Trumpet Creeper Family)

Campsis radicans	Trumpet creeper
Catalpa bignonioides	Catalpa

Boraginaceae (Borage Family)

Symphytum officinale	Comfrey

Caprifoliaceae (Honeysuckle Family)

Lonicera japonica	Japanese honeysuckle
Diervilla lonicera	Bush honeysuckle
Symphoricarpos orbiculatus	Coralberry

Cichoriaceae (Chicory Famiy)	
Cichorium intybus	Chicory
Compositae (Thistle Family)	
Ambrosia trifida	Giant ragweed
Aster pilosus	White heath aster
Cirsium vulgare	Common Thistle
Erigeron annuus	Daisy fleabane
Eupatorium fistulosum	Common Joe-pye weed
Eupatorium perfoliatum	Boneset
Solidago altissima	Tall goldenrod
Solidago canadensis	Canada goldenrod
Solidago gigantea	Late goldenrod
Solidago nemoralis	Oldfield goldenrod
Solidago rugosa	Wrinkled-leaf goldenrod
Solidago speciosa	Showy goldenrod
Vernonia altissima	Tall ironweed
Cruciferae (Mustard Family)	
Barbarea vulgaris	Wintercress
Ericaceae (Heath Family)	
Rhododendron maximum	Great laurel
Fabaceae (Pea Family)	
Cercis canadensis	Redbud
Gleditsia triacanthos	Black locust
Trifolium agrarium	Yellow hop clover
Trifolium hybridum	Alsike clover
Trifolium pratense	Red clover
Trifolium repens	White clover
Fagaceae (Beech Family)	
Quercus palustris	Pin oak
Geraniaceae (Geranium Family)	
Geranium carolinianum	Carolina cranes-bill
Hamamelidaceae (Witch-Hazel Family)	
Liquidambar styraciflua	Sweetgum
Labiatae (Mint Family)	
Lamium amplexicaule	Henbit
Lamium purpureum	Purple dead-nettle
Lauraceae (Laurel Family)	
Lindera benzion	Spice bush
Sassafras albidum	Sassafras
Juglandaceae (Walnut Family)	
Juglans nigra	Black walnut
Moraceae (Mulberry Family)	
Maclura pomifera	Osageorange
Morus alba	White mulberry

Morus rubra	Red mulberry
Oleaceae (Olive Family)	
Fraxinus americana	White ash
Phytolaccaceae (Pokeweed Family)	
Phytolacca americana	Pokeweed
Platanaceae (Plane Tree Family)	
Platanus occidentalis	Sycamore
Rosacea (Rose Family)	
Prunus serotina	Wild cherry
Rosa multiflora	Multiflora rose
Rubus occidentalis	Black raspberry
Rubiaceae (Madder Family)	
Galium aparine	Cleavers
Galium boreale	Bedstraw
Salicaceae (Willow Family)	
Populus nigra	Lombardy poplar
Salix nigra	Black willow
Simaroubaceae (Ailanthus Family)	
Ailanthus altissima	Tree-of-heaven
Scrophulariaceae (Figwort Family)	
Verbascum thapus	Common mullein
Solanaceae (Nightshade Family)	
Solanum americanum	Black nightshade
Umbelliferae (Carrot Family)	
Conium maculatum	Poison hemlock
Pastinaca sativa	Parsnip
Ulmaceae (Elm Family)	
Celtis occidentalis	Hackberry
Ulmus rubra	Slippery elm
Ulmus americana	American elm
Vitaceae (Grape Family)	
Parthenocissus quinquefolia	Virginia creeper

TERRESTRIAL FAUNAL (ANIMAL) SPECIES

Endangered/Threatened status is provided in bold for those species; refer to the **LEGEND** following this listing.

A. Goose Creek Area

Aves

Anas platyrhynchos	Mallard
Aix sponsa	Wood duck
Nycticorax nycticorax	Black-crowned night heron
Nyctanassa violacea	Yellow-crowned night heron
Otus asio	Eastern screech-owl
Bubo virginianus	Great horned owl
Strix varia	Barred owl
Megaceryle alcyon	Belted kingfisher
Melanerpes erythrocephalus	Red-headed woodpecker
Dryocopus pileatus	Pileated woodpecker
Melanerpes carolinus	Red-bellied woodpecker
Picoides villosus	Hairy woodpecker
Cyanocitta cristata	Blue jay
Sitta carolinensis	White-breasted nuthatch
Thryothorus ludovicianus	Carolina wren
Turdus migratorius	American robin
Corvus brachyrhynchos	American crow
Contopus virens	Eastern wood peewee
Empidonax virescens	Acadian flycatcher
Vireo griseus	White-eyed vireo

Mammalia

Tamias striatus	Eastern chipmunk
Sciurus carolinensis	Gray squirrel
Glaucomys volans	Southern flying squirrel
Marmota monax	Ground hog
Castor canadensis	Beaver
Odocoileus canadensis	White-tailed deer
Blarina brevicauda	Short-tailed shrew
Eptesicus fuscus	Big brown bat
Myotis lucifugus	Little brown bat
Myotis sodalis	Indiana bat = **FE; E-IN & KY**
Myotis septentrionalis	Northern long-eared bat
Myotis griesescens	Gray bat = **FE; E-IN & KY**
Nycticeius humeralis	Evening bat = **T-KY, E-IN**
Pipistrellus subflavus	Eastern pipistrelle
Lasiurus borealis	Red bat

Amphibia

Eurycea bislineata bislineata	Southern two-lined salamander
Hyla chrysoscelis	Cope's gray treefrog
Rana clamitans melanota	Green frog
Rana u. utricularia	Southern leopard frog
Terrapene carolina carolina	Eastern box turtle

Crustacea

Orconectes jeffersoni	Louisville crayfish = **E-KY**

B. **Little Goose Creek Area**

Aves

Butorides striatus	Green-back heron
Anas rubripes	Black duck
Nycticorax nycticorax	Black-crowned night heron
Nyctanassa violacea	Yellow-crowned night heron
Buteo jamaicensis	Red tailed hawk
Falco sparverius	American kestrel
Coccyzus americanus	Yellow-billed cuckoo
Strix varia	Barred owl
Megaceryle alcyon	Belted kingfisher
Piciodes villosus	Hairy woodpecker
Tyrannus tyrannus	Eastern kingbird
Cyanocitta cristata	Blue jay
Thryothorus ludovicianus	Carolina wren
Turdus migratorius	American robin
Parus carolinensis	Carolina chickadee

Mammalia

Castor canadensis	Beaver
Marmota monax	Ground hog
Sciurus carolinensis	Gray squirrel
Sciurus niger	Fox squirrel
Odocoileus virginianus	White-tailed deer
Blarina brevicauda	Short-tailed shrew
Lasiurus borealis	Red bat
Eptesicus fuscus	Big brown bat
Myotis sodalis	Indiana bat = **FE; E-IN & KY**
Myotis grisescens	Gray bat = **FE; E-IN & KY**
Pipistrellus subflavus	Eastern pipistrelle

Reptilia

Thamnophis sirtalis	Garter snake

C. **Harrods Creek Area**

Aves

Thryothorus ludovicianus	Carolina wren
Ardea herodias	Great blue heron = **S**
Branta canadensis	Canada goose
Anas playtrhynchos	Mallard
Hylocichla mustelina	Wood thrush
Piranga rubra	Summer tanager
Charadrius vociferus	Kill deer
Strix varia	Barred owl
Bubo virginianus	Great horned owl
Mimus pollyglottos	Mockingbird
Turdus migratorius	American robin
Protonotaria citrea	Prothonotary warbler
Cardinalis cardinalis	Northern cardinal
Passerina cyanea	Indigo bunting
Buteo lineatus	Red-shouldered hawk

Mammalia

Eptesicus fuscus	Big brown bat
Procyon lotor	Raccoon
Ondatra zibethicus	Muskrat
Castor canadensis	Beaver
Odocoileus virginianus	White-tailed deer

Reptilia

Nerodia s. sipedon	Northern water snake
Nerodia s. pleuralis	Midland water snake

Amphibia

Desmognathus ochrophaeus	Mountain dusky salamander
Eurycea bislineata bislineata	Southern two-lined salamander
Rana catesbeiana	Bullfrog
Rana clamitans melanota	Green frog
Hyla versicolor	Gray treefrog

Mollusca

Anodonta grandis	Giant floater
Strophitus undulatus	Squawfoot
Corbicula fluminea	Asian clam

D. **Wolf Pen Area**

Aves

Ardea herodias	Great blue heron = **S**
Branta canadensis	Canada goose
Aix sponsa	Wood duck
Buteo jamaicensis	Red-tailed hawk
Falco peregrinus	Peregrine falcon = **E-IN & KY**
Meleagris gallopavo	Wild turkey
Colinus virginianus	Northern bobwhite
Otus asio	Eastern screech-owl
Bubo virginianus	Great horned owl
Strix varia	Barred owl
Megaceryle alcyon	Belted kingfisher
Dryocopus pileatus	Pileated woodpecker
Melanerpes carolinus	Red-bellied woodpecker
Picoides villosus	Hairy woodpecker
Parus bicolor	Tufted titmouse
Parus carolinensis	Carolina chickadee
Sitta carolinensis	White-breasted nuthatch
Cistothorus platensis	Sedge wren = **S, E-IN**
Cardinalis cardinalis	Northern cardinal
Corvus brachyrynchos	American crow
Cyanocitta cristata	Blue jay
Ammodramus henslowii	Henslow's sparrow = **E-IN, S**

Mammalia

Didelphis virginiana	Opposum
Lasiurus borealis	Red bat
Myotis septentrionalis	Northern long-eared bat
Procyon lotor	Raccoon
Mustela vison	Mink
Canis latrans	Coyote
Vulpes vulpes	Red fox
Urocyon cinereoargenteus	Gray fox
Tamias striatus	Eastern chipmunk
Sciurus carolinensis	Gray squirrel
Sciurus niger	Fox squirrel
Odocoileus virginianus	White-tailed deer

Reptilia

Apalone s. spinifera	Eastern spiny softshell
Terrapene carolina carolina	Eastern box turtle

Amphibia

Desmognathus fuscus	Dusky salamander
Acris crepitans blanchardi	Blanchard's cricket frog

Hyla chrysocelis	Cope's gray treefrog
Rana catesbeiana	Bullfrog
Rana clamitans melanota	Green frog

Mollusca

Corbicula fluminea	Asian clam

E. **Six Mile Island**

Aves

Anas platyrhynchos	Mallard
Sayornis phoebe	Eastern phoebee
Cardinalis cardinalis	Northern Cardinal
Corvus brachyrhynchyus	American crow
Cyanocitta cristata	Blue jay
Hylocichla mustelina	Wood thrush
Setophaga ruticilla	American redstart
Oporomis formosus	Kentucky warbler
Agellaius phoeiceus	Red-winged blackbird
Carduelis tristis	American goldfinsh

Mammalia

Odocoileus virginianus	White-tailed deer

F. **Drumanard Area**

Aves

Buteo jamaicensis	Red-tailed hawk
Cathartes aura	Turkey vulture
Bubo virginianus	Great horned owl
Sphyrapicus varius	Yellow-bellied sapsucker
Sayornis phoebe	Eastern phoebe
Melanerpes carolinus	Red-bellied woodpecker
Picoides villosus	Hairy woodpecker
Corvus brachyrynchos	American crow
Thryothorus ludovicianus	Carolina wren
Turdus migratorius	American robin
Vireo olivaceus	Red-eyed vireo
Cardinalis cardinalis	Northern cardinal

Mammalia

Scalopus aquaticus	Eastern mole
Odocoileus virginianus	White-tailed deer

Reptilia

Terrepene carolina carolina	Eastern box turtle

Amphibia

Rana utricularia	Southern leopard frog

G. **Muddy Fork Area**

Aves

Otus asio	Common screech owl
Bubo virginianus	Great horned owl
Buteo jamaicensis	Red-tailed hawk
Meleagris gallopavo	Wild turkey

Mammalia

Eptesicus fuscus	Big brown bat
Lasiurus borealis	Red bat
Sciurus carolinensis	Gray squirrel
Tamias striatus	Eastern chipmunk
Odocoileus virginianus	White-tailed deer

Amphibia

Rana clamitans melanota	Green frog
Hyla chrysoscelis	Cope's gray treefrog

H. **Ninth Street Area**

Aves

Anas rubripes	Black duck
Anas platyrhynchos	Mallard
Casmerodius albus	Great egret = **E-KY, SC**
Ardea herodias	Great blue heron = **S**

I. **Beargrass Creek**

Aves

Aix sponsa	Wood duck
Ardea herodias	Great blue heron = **S**
Butorides striatus	Green-back heron
Nycticorax nycticorax	Black-crowned night heron
Nyctanassa violacea	Yellow-crowned night heron
Megaceryle alcyon	Belted Kingfisher

Mammalia

Lasiurus borealis	Red bat
Eptesicus fuscus	Big brown bat

Reptilia

Graptemys geographica	Map turtle
Chrysemys scripta elegans	Red-eared turtle
Trionyx sp.	Softshell turtle

J. **Utica Pike Area**

Aves

Corvus brachyrynchos	American crow
Cyanocitta cristata	Blue jay
Anas platyrhynchos	Mallard
Fulica americana	American coot
Colinus virginianus	Northern bobwhite
Cathartes aura	Turkey vulture
Coccyzus americanus	Yellow-billed cuckoo
Megaceryl alcyon	Belted kingfisher
Meleagris gallopavo	Wild turkey
Riparia riparia	Bank swallow = **S**
Thryothorus ludovicianus	Carolina wren
Picoides villosus	Hairy woodpecker
Dumetella carolinensis	Gray catbird
Sturnus vulgaris	Starlings
Quiscalus quiscala	Common grackle
Sitta carolinensis	White-breasted nuthatch
Turdus migratorius	American robin
Lanius ludovicianus	Loggerhead shrike

Mammalia

Procyon lotor	Raccoon
Marmota monax	Ground hog
Canis latrans	Coyote
Sciurus carolinensis	Gray squirrel
Odocoileus virginianus	White-tailed deer

Amphibia

Rana u. utricularia	Southern leopard frog
Rana catesbeiana	Bullfrog

K. **Lancassange Creek Area**

Aves

Branta canadensis	Canada goose
Anus platyrhynchos	Mallard
Ardea herodias	Great blue heron = **S**
Accipiter striatus	Sharp-shinned hawk = **SC, S**
Buteo jamaicensis	Red-tailed hawk
Coragyps atratus	Black vulture
Tyto alba	Common barn owl = **S, E-IN**
Strix varia	Barred owl
Otus asio	Common Screech owl
Contopus virens	Eastern pewee
Mimus polyglottos	Northern mocking bird
Turdus migratorius	American robin
Piranga rubra	Summer tanager
Vireo griseus	White-eyed vireo

Mammalia

Blarina brevicauda	Short-tailed shrew
Myotis grisescens	Gray bat = **FE; E-IN & KY**
Lasiurus borealis	Red bat
Eptesicus fuscus	Big brown bat
Pipistrellus subflavus	Eastern pipistrelle
Procyon lotor	Raccoon
Marmota monax	Ground hog
Tamias striatus	Eastern chipmunk
Ondatra zibethicus	Muskrat
Odocoileus virginianus	White-tailed deer

Amphibia

Trionyx sp.	Softshell turtle
Natrix s. sipedon	Northern water snake
Bufo woodhousii fowleri	Fowler's toad
Bufo americana	American toad

L. **Lentzier Creek Area**

Aves

Branta canadensis	Canada goose
Meleagris gallopavo	Wild turkey
Colinus virginianus	Northern bobwhite
Buteo jamaicensis	Red-tailed hawk
Falco sparverius	Sparrow hawk
Otus asio	Common screech owl
Coccyzus americanus	Yellow-billed cuckoo
Riparia riparia	Bank swallow = **S**

Mimus polyglottos	Northern mockingbird
Protonotaria citrea	Prothonotary warbler
Turdus migratorius	American robin
Quiscalus quiscala	Common grackle
Sturnus vulgaris	Starling
Sturnella magna	Eastern meadowlark
Piranga rubra	Summer tanager
Passerina cyanea	Indigo bunting
Pipilo erythrophthalmus	Rufous-sided towhee

Mammalia

Pipestrellus subflavus	Eastern pipestrelle
Eptesicus fuscus	Big brown bat
Lasiurus borealis	Red bat
Procyon lotor	Raccoon
Glaucomys volans	Southern flying squirrel
Ondatra zibethica	Muskrat
Odocoileus virginianus	White-tailed deer

Amphibia

Rana catesbeiana	Bullfrog
Rana clamitans melanota	Green frog
Natrix s. sipedon	Northern water snake

Mollusca

Anodonta grandis	Giant floater
Corbicula fluminea	Asian clam

LEGEND

E = State Endangered
FE = Federally Endangered
S = Special Concern (Kentucky)
SC = Special Concern (Indiana)
T = State Threatened
H = Historic (Kentucky)
IN = Indiana
KY = Kentucky

MACROINVERTEBRATES

A. **Goose Creek**

Sampling was completed on April 5, 1999.

Ephemeroptera	
Heptageniidae	
Stenacron interpunctatum	1 nymph
Megaloptera	
Sialidae	
Sialis sp.	3 larvae
Diptera	
Chironomidae	81 larvae; 1 pupa
Decapoda	
Cambaridae	
Cambarus sp.	1 juvenile
Isopoda	
Asellidae	
Lirceus sp.	8 specimens
Amphipoda	
Gammaridae	
Gammarus sp.	1 specimen
Bivalvia	
Corbiculidae	
Corbicula sp.	4 specimens
Gastropoda	
Lymnaeidae	
Lymnaea sp.	11 specimens
Stagnicola sp. (?)	1 specimen
Pleuroceridae	
Elimia sp.	5 specimens
Physidae	
Physa sp.	13 specimens
Oligochaeta	25 worms
Tubificidae	7 worms
Hirudinae	3 worms

Total Taxa	(s)	=	14
Total Individuals	(N)	=	165
Biological Diversity	(d)	=	2.54
Equitability	(e)	=	0.57

B. **Little Goose Creek**

Sampling was completed on April 6, 1999.

Ephemeroptera	
Baetidae	
Baetis sp.	1 nymph
Odonata	
Gomphidae	
Hagenius brevistylus	1 nymph
Aeshnidae	
Boyeria sp.	1 nymph
Trichoptera	
Hydropsychidae	
Cheumatopsyche sp.	2 larvae
Lepidoptera	
Pyralidae (?)	2 larvae
Diptera	
Tipulidae	1 pupa
Tipula abdominalis	2 larvae
Chironomidae	4 larvae
Decapoda	
Cambaridae	
Orconectes sp.	1 adult
Isopoda	
Asellidae	
Lirceus sp.	5 specimens
Gastropoda	
Pleuroceridae	
Elimia sp.	2 specimens
Physidae	
Physa sp.	6 specimens
Oligochaeta	1 worm

Hirudinea	1 worm
Turbellaria	1 worm

Total Taxa	(s)	=	15
Total Individuals	(N)	=	31
Biological Diversity	(d)	=	3.56
Equitability	(e)	=	1.13

C. **Wolf Pen Branch**

Sampling was completed on April 6, 1999.

Ephemeroptera	
Baetidae	
Baetis sp.	46 nymphs
Odonata	
Calopterygidae	
Calopteryx sp.	6 nymphs
Megaloptera	
Sialidae	
Sialis sp.	1 larva
Corydalidae	
Nigronia sp.	1 larva
Coleoptera	
Psephenidae	
Psephenus herricki	9 larvae
Elmidae	
Stenelmis sp.	1 larva
Trichoptera	
Limnephilidae	
Hydatophylax sp.	1 larva
Uenoidae	
Neophylax sp.	22 larvae
Helicopsychidae	
Helicopsyche sp.	3 larvae
Rhyacophilidae	
Rhyacophila sp.	5 larvae
Diptera	
Tipulidae	
Tipula abdominalis	4 larvae

Tipula	1 larvae
Tabanidae	
Chrysops sp.	1 larva
Simuliidae	
Prosimulium	2 larva
Chironomidae	33 larvae
Decapoda	
Cambaridae	
Cambarus sp.	2 juveniles
Isopoda	
Asellidae	
Lirceus sp.	327 specimens
Amphipoda	
Gammaridae	
Gammarus sp.	212 specimens
Bivalvia	
Corbiculidae	
Corbicula sp.	6 specimens
Gastropoda	
Lymnaeidae	
Fossaria sp.	1 specimen
Physidae	
Physa sp.	217 specimens
Oligochaeta	5 worms
Hirudinea	1 worm
Turbellaria	28 worms

Total Taxa	(s)	=	24	
Total Individuals	(N)	=	935	(179)
Biological Diversity	(d)	=	2.59	(3.27)
Equitability	(e)	=	0.33	(0.58)

D. **Hunting Creek**

Sampling was completed April 7, 1999.

Odonata
Calopterygidae

Calopteryx sp.	1 nymph
Coenagrionidae	
Argia sp.	11 nymphs
Coleoptera	
Elmidae	
Stenelmis sp.	4 adults
Eubriidae	
Ectopria sp.	4 larvae
Trichoptera	
Hydropsychidae	96 pupae
Ceratopsyche sp.	5 larvae
Cheumatopsyche sp.	152 larvae
Diptera	
Empididae	
Hemerodromia sp.	1 larva
Simuliidae	
Prosimulium sp.	1 larva
Chironomidae	2 pupae; 26 larvae
Isopoda	
Asellidae	
Lirceus sp.	3 specimens
Bivalvia	
Corbiculidae	
Corbicula sp.	3 specimens
Gastropoda	
Lymnaeidae	
Fossaria sp.	1 specimen
Physidae	
Physa sp.	3 specimens
Hirudinea	1 worm
Turbellaria	13 worms

Total Taxa	(s)	=	16
Total Individuals	(N)	=	327
Biological Diversity	(d)	=	2.25
Equitability	(e)	=	0.38

E. **Muddy Fork**

Sampling was completed on April 7, 1999.

Odonata	
Calopterygidae	
Calopteryx sp.	9 nymphs
Coleoptera	
Elmidae	
Stenelmis sp.	11 larvae
Eubriidae	
Ectopria sp.	1 larvae
Trichoptera	
Hydropsychidae	3 pupae
Ceratopsyche sp.	1 larvae
Cheumatopsyche sp.	2 larvae
Lepidoptera	
Pyralidae (?)	1 larva
Diptera	
Simuliidae	
Simulium sp.	2 larvae
Chironomidae	27 larvae
Decapoda	
Cambaridae	
Cambarus sp.	2 juveniles
Isopoda	
Asellidae	
Lirceus sp.	136 specimens
Amphipoda	
Gammaridae	
Gammarus sp.	97 specimens
Bivalvia	
Corbiculidae	
Corbicula sp.	5 specimens
Gastropoda	
Pleuroceridae	
Pleurocera sp.	4 specimens
Physidae	
Physa sp.	1 specimen

Lymnaeidae
Fossaria sp. — 2 specimens

Planorbidae
Planorbella sp. (?) — 1 shell

Oligochaeta — 30 worms

Hirudinea — 4 worms

Turbellaria — 5 worms

Total Taxa	(s)	=	20	
Total Individuals	(N)	=	345	(112)
Biological Diversity	(d)	=	2.64	(3.29)
Equitability	(e)	=	0.45	(0.07)

F. **Harrods Creek**

Sampling was completed June 13, 2000.

Diptera
Chironomidae — 6 larvae; 1 pupa

Bivalvia
Sphaeriidae
Sphaerium sp. — 4 specimens

Gastropoda
Viviparidae
*Vivparus sp. (?) — 1 specimen
*Cipangopaludina sp. (?) — 1 specimen

Oligochaeta — 54 worms

*Shells were extremely weathered; difficult to evaluate some characters.

The number of total individuals included in the Harrods Creek sample is insufficient to conduct biological diversity and equitability indices. However, the distribution of taxa within the sample are typical of most dredge grab samples taken from the bottom sediments in Kentucky streams. Without knowing the depth of the water at the sample site and the type of bottom sediments, it was difficult to assess the expected diversity of the macroinvertebrate community within these samples.

G. **Beargrass Creek**

Diptera	
Chironomidae	2 larvae
Ephemeroptera	
Ephemeridea	
Hexagenia	4 nymphs
Oligochaeta	24 worms

This was an insufficient number of total individuals within the Beargrass Creek sample to conduct meaningful analysis of the macroinvertebrate community.

H. **Lancassange Creek**

Sampling was completed on April 8, 1999.

Odonata	
Calopterygidae	
Calopteryx sp.	3 nymphs
Coleoptera	
Hydrophilidae	
Berosus sp.	5 larvae
Elmidae	
Stenelmis sp.	3 adults; 6 larvae
Trichoptera	
Hydropsychidae	84 pupae
Hydropsyche sp.	39 larvae
Ceratopsyche sp.	34 larvae
Cheumatopsyche sp.	103 larvae
Diptera	
Tipulidae	
Tipula sp.	1 larva
Pilaria sp.	1 larva
Simuliidae	
Prosimulium sp.	2 larvae
Chironomidae	61 larvae
Isopoda	
Asellidae	
Lirceus sp.	136 specimens

Lepidoptera
Pyralidae (?) 1 larva

Amphipoda
Gammaridae
Gammarus sp. 5 specimens

Bivalvia
Corbiculidae
Corbicula sp. 3 specimens

Gastropoda
Lymnaeidae
Fossaria sp. 2 specimens

Physidae
Physa sp. 1 specimen

Oligochaeta 3 worms

Hirudinea 1 worm

Total Taxa	(s)	=	19	
Total Individuals	(N)	=	494	(255)
Biological Diversity	(d)	=	2.98	(2.71)
Equitability	(e)	=	0.58	(0.47)

I. **Lentzier Creek**

Sampling was completed on April 8, 1999.

Ephemeroptera
Heptageniidae
Stenacron interpunctatum 5 nymphs
Stenonema sp. 1 nymph

Ephemeridae
Hexagenia sp. 1 nymph

Baetidae
Baetis sp. 1 nymph

Plecoptera
Nemouridae
Amphinemura sp. (partial specimen) 1 nymph

Perlodidae
Isoperla sp. 1 nymph

Megaloptera	
Sialidae	
Sialis sp.	1 larva
Corydalidae	
Nigronia serricornis	1 larva
Coleoptera	
Psephenidae	
Psephenus herricki	27 larvae
Elmidae	
Stenelmis sp.	16 larvae
Trichoptera	
Hydropsychidae	12 pupae
Ceratopsyche sp.	4 larvae
Cheumatopsyche sp.	4 larvae
Hydroptilidae	
Hydroptila (?) sp.	1 larva
Philopotamidae	
Chimarra sp.	1 larva
Polycentropodidae	
Cernotina sp.	21 larvae
Limnephilidae	
Ironoquia sp.	1 larva
Diptera	
Tipulidae	4 pupae (?)
Tipula abdominalis	1 larva
Antocha sp.	1 larva
Pilaria sp.	2 larvae
Pedicia sp.	1 larva
Simuliidae	
Simulium sp.	1 larva; 19 pupae
Prosimulium sp.	1 pupa
Chironomidae	246 larvae; 9 pupae
Decapoda	
Cambaridae	
Orconectes sp.	1 adult; 4 juveniles

Isopoda
Asellidae
Lirceus sp. 14 specimens

Amphipoda
Gammaridae
Gammarus sp. 9 specimens

Gastropoda
Physidae
Physa sp. 9 specimens
Unidentified snail 1 specimen

Bivalvia
Corbiculidae
Corbicula sp. 11 specimens

Oligochaeta 7 worms

Turbellaria 1 worm

Total Taxa	(s)	=	33	(33)
Total Individuals	(N)	=	441	(187)
Biological Diversity	(d)	=	2.73	(4.17)
Equitability	(e)	=	0.27	(0.82)

J. **Ohio River**

Sampling was completed on June 12, 2000 and on July 6, 2000.

June 12, 2000 Sampling

This sample included four adult weevils of the Family Curculionidae (Coleoptera) and one spider (Arachnida). The specimens did not fit any of the keys to the aquatic insects or macroinvertebrates and are most like terrestrial forms. Therefore, no analysis can be made referenced to the organisms in this Ohio River sample.

July 6, 2000 Sampling

Trichoptera 1 pupa
Hydropsychidae
Potamyia sp. (?) 1 larva

Gastropoda
Pleuroceridae
Pleurocera sp. (?) 1 shell

Viviparidae
Campeloma sp. (?) 1 shell

There was insufficient data within this Ohio River sample to conduct a meaningful analysis of the macroinvertebrate community. It is interesting that chironomid larva and oligochaetes were missing from this sample.

AQUATIC VERTEBRATES

A. Goose Creek, 8 April 1999

Scientific Name	Common Name
Semotilus atromaculatus	Creek chub
Lythrurus ardens	Rosefin shiner
Notropis ludibundus	Sand shiner
Etheostoma caeruleum	Rainbow darter
Etheostoma nigrum	Johnny darter
Etheostoma blennioides	Greenside darter
Etheostoma flabellare	Fantail darter
Aplodinotus grunniens	Freshwater drum
Dorosoma cepedianum	Gizzard shad
Lepomis macrochirus	Bluegill
Lepomis megalotis	Longear sunfish
Hypentelium nigricans	Northern hog sucker

B. Little Goose Creek, 8 April 1999

Scientific Name	Common Name
Semotilus atromaculatus	Creek chub
Pimephales notatus	Bluntnose minnow
Lythrurus ardens	Rosefin shiner
Lepomis macrochirus	Bluegill
Lepomis megalotis	Longear sunfish
Notropis rubellus	Rosyface shiner
Etheostoma nigrum	Johnny darter
Etheostoma caeruleum	Rainbow darter

C. Wolf Pen Branch, 7 April 1999

Scientific Name	Common Name
Semotilus atromaculatus	Creek chub
Hypentelium nigricans	Northern hog sucker
Lythrurus ardens	Rosefin shiner
Lepomis macrochirus	Bluegill
Lepomis megalotis	Longear sunfish
Etheostoma caeruleum	Rainbow darter
Etheostoma nigrum	Johnny darter
Etheostoma blennioides	Greenside darter
Etheostoma flabellare	Fantail darter

D. Hunting Creek, 7 April 1999

Scientific Name	Common Name
Semotilus atromaculatus	Creek chub
Campostoma anomalum	Central stoneroller
Pimephales notatus	Bluntnose minnow
Cyprinus carpio	Common carp
Catostomus commersoni	White sucker
Noturus flavus	Stonecat
Ameriurus natalis	Yellow bullhead
Gambusia affinis	Mosquitofish
Lepomis gulosus	Warmouth
Lepomis cyanellus	Green sunfish
Micropterus punctulatus	Spotted bass
Lepomis macrochirus	Bluegill

E. Muddy Fork, 7 April 1999

Scientific Name	Common Name
Semotilus atromaculatus	Creek chub
Pimephales notatus	Bluntnose minnow
Lepomis cyanellus	Green sunfish
Lepomis macrochirus	Bluegill

F. Beargrass Creek - Archival Data

Scientific Name	Common Name
Dorosoma cepedianum	Gizzard shad
Catostomus commersoni	White sucker
Micropterus salmoides	Largemouth bass
Ictalurus natalis	Yellow bullhead
Lepomis megalotis	Longear sunfish
Cyprinus carpio	Common carp
Gambusia affinis	Mosquitofish
Etheostoma blennioides	Greenside darter
Etheostoma flabellare	Fantail darter
Notropis chrysocephalus	Striped shiner
Pimephales notatus	Bluntnose minnow
Semotilus atromaculatus	Creek chub
Campostoma anomalum	Central stoneroller
Lepomis cyanellus	Green sunfish
Lepomis macrochirus	Bluegill

G. **Lancassange Creek, 8 April 1999**

Scientific Name	Common Name
Semotilus atromaculatus	Creek chub
Campostoma anomalum	Central stoneroller
Cyprinella whipplei	Steelcolor shiner
Pimephales notatus	Bluntnose minnow
Notropis atherinoides	Emerald shiner
Notropis rubellus	Rosyface shiner
Notropis volucellus	Mimic shiner
Ameriurus natalis	Yellow bullhead
Gambusia affinis	Mosquitofish
Lepomis cyanellus	Green sunfish
Lepomis macrochirus	Bluegill
Etheostoma blennioides	Greenside darter

H. **Lentzier Creek, 8 April 1999**

Scientific Name	Common Name
Semotilus atromaculatus	Creek chub
Campostoma anomalum	Central stoneroller
Lythrurus ardens	Rosefin shiner
Cottus carolinae	Banded sculpin
Hypentelium nigricans	Northern hog sucker
Lepomis cyanellus	Green sunfish
Etheostoma nigrum	Johnny darter
Etheostoma blennioides	Greenside darter
Etheostoma flabellare	Fantail darter
Ambloplites rupestris	Rock bass
Campostoma anomalum	Central stoneroller
Micropterus dolomieu	Smallmouth bass

I. Ohio River - Archival Data

At the direction of the Kentucky Transportation Cabinet (KYTC), archival data is sufficient to document fish species in the Ohio River. This data was obtained from 1957, 1958, 1959, 1961, 1968, 1969, 1970, 1974, 1976, 1978, 1979, 1981, 1983, 1985, 1987, 1988, 1989, 1991 and 1997.

Scientific Name	Common Name
Ichthyomyzon bdellium	Ohio lamprey
Ichthyomyzon unicuspis	Silver lamprey
Polyodon spathula	Paddlefish
Lepisosteus platostomus	Shortnose gar
Lepisosteus osseus	Longnose gar
Anguilla rostrata	American eel
Alosa chrysochloris	Skipjack herring
Dorosoma cepedianum	Gizzard shad
Dorosoma petenense	Threadfin shad
Hiodon alosoides	Goldeye
Hiodon tergisus	Mooneye
Carassius auratus	Goldfish
Cyprinus carpio	Common carp
Cyprinus	Bighead carp
Ctenopharyngodon idella	Grass carp
Hypophthalmichthys molitrix	Silver carp
Hybopsis aestivalis	Speckled chub
Hybopsis stoneriana	Silver chub
Notemigonus crysoleucas	Golden shiner
Notropis atherinoides	Emerald shiner
Notropis photogenis	Silver shiner
Notropis blennius	River shiner
Notropis chrysocephalus	Striped shiner
Notropis volucellus	Mimic shiner
Hybognathus nuchalis	Mississippi silvery minnow
Campostoma anomalum	Central stoneroller
Cycleptus elongatus	Blue sucker
Carpiodes carpio	River carpsucker
Carpiodes cyprinus	Quillback carpsucker
Carpiodes velifer	Highfin carpsucker
Catostomus commersoni	White sucker
Ictiobus bubalus	Smallmouth buffalo
Ictiobus cyprinellus	Bigmouth buffalo
Ictiobus niger	Black buffalo
Minytrema melanops	Spotted sucker
Moxostoma erythrurum	Golden redhorse
Moxostoma macrolepidotum	Shorthead redhorse
Moxostoma carinatum	River redhorse
Moxostoma anisurum	Silver redhorse
Ictalurus furcatus	Blue catfish
Ictalurus punctatus	Channel catfish

Scientific Name	Common Name
Pylodictis olivaris	Flathead catfish
Ictalurus melas	Black bullhead
Ictalurus natalis	Yellow bullhead
Ictalurus nebulosus	Brown bullhead
Fundulus notatus	Blackstripe topminnow
Labidesthes sicculus	Brook silverside
Morone saxatilis	Striped bass
Morone saxatilis-hybrid	Hybrid striped bass
Morone chrysops	White bass
Ambloplites rupestris	Rock bass
Lepomis cyanellus	Green sunfish
Chaenobryttus gulosus	Warmouth
Lepomis humilis	Orangespotted sunfish
Lepomis macrochirus	Bluegill
Lepomis megalotis	Longear sunfish
Lepomis microlophus	Redear sunfish
Micropterus punctulatus	Spotted bass
Micropterus salmoides	Largemouth bass
Mircopterus dolomieui	Smallmouth bass
Pomoxis annularis	White crappie
Pomoxis nigromaculatus	Black crappie
Percina caprodes	Logperch
Percina sciera	Slenderhead darter
Etheostoma blennioides	Greenside darter
Etheostoma nigrum	Johnny darter
Etheostoma flabellare	Fantail darter
Etheostoma caeruleum	Rainbow darter
Stizostedion canadense	Sauger
Stizostedion vitreum	Walleye
Perca flavescens	Yellow perch
Aplodinotus grunniens	Freshwater drum
Hypentelium nigricans	Northern hog sucker
Notropis hudsonius	Spottail shiner
Lepomis gibbosus	Pumpkinseed
Moxostoma duquesnei	Black redhorse
Pimephales notatus	Bluntnose minnow
Carpiodes sp.	Carpiodes species
Percina copelandi	Channel darter
Cyprinidae sp.	Cyprinidae species
Luxilus cornutus	Common shiner
Etheostoma kennicotti	Stripetail darter
Noturus gyrinus	Tadpole madtom
Notropis stramineus	Sand shiner

J. Harrods Creek - Archival Data

At the direction of the Kentucky Department of Transportation (KYTC), archival data is sufficient to document fish species in Harrods Creek.

Scientific Name	Common Name
Micropterus salmoides	Largemouth bass
Micropterus punctulatus	Spotted bass
Ambloplites rupestris	Rock bass
Micropterus dolomieui	Smallmouth bass
Lepomis macrochirus	Bluegill
Lepomis megalotis	Longear sunfish
Lepomis cyanellus	Green sunfish
Lepomis microlophus	Redear sunfish
Chaenobryttus gulosus	Warmouth
Moxostoma erythrurum	Golden redhorse
Moxostoma duquesnei	Black redhorse
Moxostoma macrolepidotum	Shorthead redhorse
Hypentelium nigricans	Northern hogsucker
Catostomus commersoni	White sucker
Ictalurus natalis	Yellow bullhead
Aplodinotus grunniens	Freshwater drum
Dorosoma cepedianum	Gizzard shad
Campostoma anomalum	Central stoneroller
Semotilus atromaculatus	Creek chub
Ericymba buccata	Silverjaw minnow
Notropis chrysocephalus	Striped shiner
Labidesthes sicculus	Brook silverside
Notropis ardens	Rosefin shiner
Notropis atherinoides	Emerald shiner
Pimephales notatus	Bluntnose minnow
Fundulus notatus	Blackstripe topminnow
Noturus flavus	Stonecat
Etheostoma blennioides	Greenside darter
Etheostoma flabellare	Fantail darter
Etheostoma nigrum	Johnny darter
Etheostoma spectabile	Orangethroat darter
Percina caprodes	Logperch