

FID	Site	Sample	Lat	Lon	TribName	Body	RipChar	Bank	Confinement	FPZ
1	15T	Water	47.566957	-122.366819	Longfellow creek	Tributary	Urban Industrial	N	Entrenched	Lower Tributary 2-4%
2	15T	Biofilm	47.566957	-122.366819	Longfellow creek	Tributary	Urban Industrial	N	Entrenched	Lower Tributary 2-4%
3	15T	Substrate	47.566957	-122.366819	Longfellow creek	Tributary	Urban Industrial	N	Entrenched	Lower Tributary 2-4%
4	16	Water	47.571455	-122.354870	W. Duwamish waterway	Main Stem	Urban Industrial	C,S	Hardened	Lower Main Stem 1-2%
5	16	Biofilm	47.571455	-122.354870	W. Duwamish waterway	Main Stem	Urban Industrial	C,S	Hardened	Lower Main Stem 1-2%
6	17	Water	47.562088	-122.349802	W. Duwamish waterway	Main Stem	Urban Industrial	C,S	Hardened	Lower Main Stem 1-2%
7	17	Biofilm	47.562088	-122.349802	W. Duwamish waterway	Main Stem	Urban Industrial	C,S	Hardened	Lower Main Stem 1-2%
8	17	Substrate	47.562088	-122.349802	W. Duwamish waterway	Main Stem	Urban Industrial	C,S	Hardened	Lower Main Stem 1-2%
9	18T	Water	47.557529	-122.353488	Puget creek	Tributary	Urban Residential	N	Hardened	Lower Tributary 2-4%
10	18T	Biofilm	47.557529	-122.353488	Puget creek	Tributary	Urban Residential	N	Hardened	Lower Tributary 2-4%
11	18T	Substrate	47.557529	-122.353488	Puget creek	Tributary	Urban Residential	N	Hardened	Lower Tributary 2-4%
12	1	Water	47.542834	-122.333715	Duwamish river	Main Stem	Urban Industrial	C,S	Hardened	Lower Main Stem 1-2%
13	1	Substrate	47.542834	-122.333715	Duwamish river	Main Stem	Urban Industrial	C,S	Hardened	Lower Main Stem 1-2%
14	2	Water	47.530556	-122.317662	Duwamish river	Main Stem	Urban Industrial	C,S	Hardened	Lower Main Stem 1-2%
15	2	Biofilm	47.530556	-122.317662	Duwamish river	Main Stem	Urban Industrial	C,S	Hardened	Lower Main Stem 1-2%
16	3	Water	47.491117	-122.274417	Green river	Main Stem	Urban Residential	S,N	Frequently Confined	Lower Main Stem 1-2%
17	3	Substrate	47.491117	-122.274417	Green river	Main Stem	Urban Residential	S,N	Frequently Confined	Lower Main Stem 1-2%
18	4	Water	47.468270	-122.248695	Green river	Main Stem	Park	S,N	Frequently Confined	Lower Main Stem 1-2%
19	4	Substrate	47.468270	-122.248695	Green river	Main Stem	Park	S,N	Frequently Confined	Lower Main Stem 1-2%
20	5	Water	47.415743	-122.265954	Green river	Main Stem	Urban Residential	S,N	Confined	Lower Main Stem 1-2%
21	5	Biofilm	47.415743	-122.265954	Green river	Main Stem	Urban Residential	S,N	Confined	Lower Main Stem 1-2%
22	6	Water	47.353417	-122.208433	Green river	Main Stem	Rural Residential	S,N	Confined	Lower Main Stem 1-2%
23	6	Biofilm	47.353417	-122.208433	Green river	Main Stem	Rural Residential	S,N	Confined	Lower Main Stem 1-2%
24	7	Water	47.324296	-122.202592	Green river	Main Stem	Rural Residential	N	Confined	Lower Main Stem 1-2%
25	7	Biofilm	47.324296	-122.202592	Green river	Main Stem	Rural Residential	N	Confined	Lower Main Stem 1-2%
26	8T	Water	47.302956	-122.174935	Big Soos creek	Tributary	Wetland	N	Confined	Middle Tributary 1-2%
27	8T	Substrate	47.302956	-122.174935	Big Soos creek	Tributary	Wetland	N	Confined	Middle Tributary 1-2%
28	11	Water	47.301124	-122.174643	Green river	Main Stem	Rural Residential	S	Frequently Confined	Middle Main Stem 1-2%
29	11	Substrate	47.301124	-122.174643	Green river	Main Stem	Rural Residential	S	Frequently Confined	Middle Main Stem 1-2%
30	14T	Water	47.288076	-122.067293	Crisp creek	Tributary	Farmstead	LA	Confined	Middle Tributary 1-2%
31	14T	Biofilm	47.288076	-122.067293	Crisp creek	Tributary	Farmstead	LA	Confined	Middle Tributary 1-2%
32	12	Water	47.280481	-122.037651	Green river	Main Stem	Park	N	Frequently Confined	Middle Main Stem 2-4%
33	12	Biofilm	47.280481	-122.037651	Green river	Main Stem	Park	N	Frequently Confined	Middle Main Stem 2-4%
34	13	Water	47.273684	-122.025156	Green river	Main Stem	Park	S	Frequently Confined	Middle Main Stem 2-4%
35	13	Biofilm	47.273684	-122.025156	Green river	Main Stem	Park	S	Frequently Confined	Middle Main Stem 2-4%
36	9	Water	47.306145	-121.947118	Green river	Main Stem	Park	N	Confined	Middle Main Stem 1-2%
37	9	Biofilm	47.306145	-121.947118	Green river	Main Stem	Park	N	Confined	Middle Main Stem 1-2%
38	10	Water	47.322857	-121.908336	Green river	Main Stem	Park	N	Frequently Confined	Middle Main Stem 2-4%
39	10	Biofilm	47.322857	-121.908336	Green river	Main Stem	Park	N	Frequently Confined	Middle Main Stem 2-4%
40	19	Water	47.310350	-121.852900	Green river	Main Stem	Shrub Woodland	N	Confined	Middle Main Stem 1-2%
41	19	Biofilm	47.310350	-121.852900	Green river	Main Stem	Shrub Woodland	N	Confined	Middle Main Stem 1-2%
42	20	Water	47.2831	-121.79668	Green river	Main Stem	Shrub Woodland	N	Confined	Upper Main Stem 1-2%
43	20	Substrate	47.2831	-121.79668	Green river	Main Stem	Shrub Woodland	N	Confined	Upper Main Stem 1-2%
44	21T	Water	47.298760	-121.773060	Northfork Geen river	Tributary	Shrub Woodland	N	Confined	Upper Tributary 1-2%
45	21T	Biofilm	47.298760	-121.773060	Northfork Geen river	Tributary	Shrub Woodland	N	Confined	Upper Tributary 1-2%

46	22R	Water	47.26236	-121.74418	Reservoir	Main Stem	Grassland	N	Unconfined	Reservoir
47	22R	Biofilm	47.26236	-121.74418	Reservoir	Main Stem	Grassland	N	Unconfined	Reservoir
48	22R	Substrate	47.26236	-121.74418	Reservoir	Main Stem	Grassland	N	Unconfined	Reservoir
49	23T	Water	47.263050	-121.727550	Gale creek	Tributary	Shrub Woodland	N	Confined	Upper Tributary 1-2%
50	23T	Biofilm	47.263050	-121.727550	Gale creek	Tributary	Shrub Woodland	N	Confined	Upper Tributary 1-2%
51	23T	Substrate	47.263050	-121.727550	Gale creek	Tributary	Shrub Woodland	N	Confined	Upper Tributary 1-2%
52	24	Water	47.24274	-121.72816	Green river	Main Stem	Right-of-way	N	Occasionally Confined	Upper Main Stem 1-2%
53	24	Substrate	47.24274	-121.72816	Green river	Main Stem	Right-of-way	N	Occasionally Confined	Upper Main Stem 1-2%
54	25	Water	47.224920	-121.619560	Green river	Main Stem	Shrub Woodland	N	Occasionally Confined	Upper Main Stem 1-2%
55	25	Biofilm	47.224920	-121.619560	Green river	Main Stem	Shrub Woodland	N	Occasionally Confined	Upper Main Stem 1-2%
56	29T	Water	47.229700	-121.603920	Smay creek	Tributary	Shrub Woodland	N	Unconfined	Upper Tributary 1-2%
57	29T	Biofilm	47.229700	-121.603920	Smay creek	Tributary	Shrub Woodland	N	Unconfined	Upper Tributary 1-2%
58	29T	Substrate	47.229700	-121.603920	Smay creek	Tributary	Shrub Woodland	N	Unconfined	Upper Tributary 1-2%
59	26	Water	47.21878	-121.58703	Green river	Main Stem	Shrub Woodland	N	Frequently Confined	Upper Main Stem 1-2%
60	26	Biofilm	47.21878	-121.58703	Green river	Main Stem	Shrub Woodland	N	Frequently Confined	Upper Main Stem 1-2%
61	26	Substrate	47.21878	-121.58703	Green river	Main Stem	Shrub Woodland	N	Frequently Confined	Upper Main Stem 1-2%
62	27	Water	47.206390	-121.528430	Green river	Main Stem	Shrub Woodland	N	Unconfined	Upper Main Stem 1-2%
63	27	Biofilm	47.206390	-121.528430	Green river	Main Stem	Shrub Woodland	N	Unconfined	Upper Main Stem 1-2%
64	28	Water	47.21276	-121.4726	Green river	Main Stem	Shrub Woodland	N	Unconfined	Upper Main Stem 1-2%
65	28	Biofilm	47.21276	-121.4726	Green river	Main Stem	Shrub Woodland	N	Unconfined	Upper Main Stem 1-2%

ChannelPattern	Bedform	ValleyLith	ValleyAge	Landcover	AntibioticsEC	BasinGeoAge	BasinLithology	Lactose	Metazoa	RM	StOr	
Sinuuous	Run	Alluvium	Quarternary	Deciduous Forest	Ampicillin	Pleistocene	ntinental glacial till	PN		2	1.28	2
Sinuuous	Run	Alluvium	Quarternary	Deciduous Forest	None	Pleistocene	ntinental glacial till	N		2	1.28	2
Sinuuous	Run	Alluvium	Quarternary	Deciduous Forest	None	Pleistocene	ntinental glacial till	N		2	1.28	2
Straight	Pool	Artificial	Holocene	Deciduous Forest	None	Holocene	Artificial	N		3	1.63	4
Straight	Pool	Artificial	Holocene	Deciduous Forest	None	Holocene	Artificial	N		3	1.63	4
Straight	Pool	Artificial	Holocene	Deciduous Forest	Ampicillin, Tetracycline	Holocene	Artificial	P		5	2.33	4
Straight	Pool	Artificial	Holocene	Deciduous Forest	Tetracycline	Holocene	Artificial	PN		5	2.33	4
Straight	Pool	Artificial	Holocene	Deciduous Forest	None	Holocene	Artificial	N		5	2.33	4
Sinuuous	Riffle	Continental se	Quarternary	dium Intensity Developed	Tetracycline	Pleistocene	ntinental glacial till	PN		1	2.53	1
Sinuuous	Riffle	Continental se	Quarternary	dium Intensity Developed	None	Pleistocene	ntinental glacial till	N		1	2.53	1
Sinuuous	Riffle	Continental se	Quarternary	dium Intensity Developed	None	Pleistocene	ntinental glacial till	N		1	2.53	1
Straight	Pool	Artificial	Holocene	Deciduous Forest	Tetracycline	Holocene	Artificial	PN		6	3.62	4
Straight	Pool	Artificial	Holocene	Deciduous Forest	None	Holocene	Artificial	N		6	3.62	4
Straight	Pool	Artificial	Holocene	High Intensity Developed	None	Holocene	Artificial	S		6	5.1	4
Straight	Pool	Artificial	Holocene	High Intensity Developed	Ampicillin	Holocene	Artificial	P		6	5.1	4
Irregular	Pool	Alluvium	Quarternary	High Intensity Developed	Ampicillin	Pleistocene	ntinental glacial till	P		5	9.45	4
Irregular	Pool	Alluvium	Quarternary	High Intensity Developed	Ampicillin, Tetracycline	Pleistocene	ntinental glacial till	P		5	9.45	4
Irregular	Riffle	Alluvium	Quarternary	High Intensity Developed	None	Quaternary	Alluvium	N		5	12.75	4
Irregular	Riffle	Alluvium	Quarternary	High Intensity Developed	None	Quaternary	Alluvium	S		5	12.75	4
Sinuuous	Riffle	Alluvium	Quarternary	High Intensity Developed	Ampicillin	Quaternary	Alluvium	PN		7	18.42	4
Sinuuous	Riffle	Alluvium	Quarternary	High Intensity Developed	None	Quaternary	Alluvium	S		7	18.42	4
Sinuuous	Run	Alluvium	Quarternary	Low Intensity Developed	Ampicillin	Pleistocene	ntinental glacial till	N		5	28.20	4
Sinuuous	Run	Alluvium	Quarternary	Low Intensity Developed	None	Pleistocene	ntinental glacial till	S		5	28.20	4
Irregular	Riffle	Alluvium	Quarternary	ustrine Forested Wetland	Ampicillin	Quaternary	Alluvium	S		0	30.60	4
Irregular	Riffle	Alluvium	Quarternary	ustrine Forested Wetland	None	Quaternary	Alluvium	S		0	30.60	4
Irregular	Pool	Alluvium	Quarternary	Low Intensity Developed	Ampicillin, Tetracycline	Pleistocene	Glacial drift	PN		2	34.25	3
Irregular	Pool	Alluvium	Quarternary	Low Intensity Developed	None	Pleistocene	Glacial drift	S		2	34.25	3
Sinuuous	Run	Alluvium	Quarternary	Pasture	None	Quaternary	Alluvium	S		4	34.40	4
Sinuuous	Run	Alluvium	Quarternary	Pasture	Chloramphenicol, Tetracyc	Quaternary	Alluvium	PN		4	34.40	4
Irregular	Run	Alluvium	Quarternary	Scrub/Shrub	None	Pleistocene	Glacial outwash	N		8	40.40	1
Irregular	Run	Alluvium	Quarternary	Scrub/Shrub	None	Pleistocene	Glacial outwash	N		8	40.40	1
Tortuous	Run	Continental se	Eocene	Grassland	None	Quaternary	Landslides	S		4	43.27	4
Tortuous	Run	Continental se	Eocene	Grassland	Ampicillin, Chloramphenicol	Quaternary	Landslides	P		4	43.27	4
Tortuous	Riffle	Alluvium	Quarternary	Scrub/Shrub	None	Pleistocene	Glacial outwash	S		4	44.55	4
Tortuous	Riffle	Alluvium	Quarternary	Scrub/Shrub	Ampicillin	Pleistocene	Glacial outwash	PN		4	44.55	4
Irregular	Riffle	Continental se	Eocene	Evergreen Forest	Ampicillin	Pleistocene	Glacial outwash	P		4	51.50	4
Irregular	Riffle	Continental se	Eocene	Evergreen Forest	None	Pleistocene	Glacial outwash	S		4	51.50	4
Tortuous	Riffle	Continental gl:	Pleistocene	Scrub/Shrub	None	Pleistocene	Glacial outwash	S		4	56.30	4
Tortuous	Riffle	Continental gl:	Pleistocene	Scrub/Shrub	None	Pleistocene	Glacial outwash	S		4	56.30	4
Sinuuous	Run	Alluvium	Quarternary	Mixed Forest	None	Oligocene	Volcaniclastic	S		9	60.00	4
Sinuuous	Run	Alluvium	Quarternary	Mixed Forest	None	Oligocene	Volcaniclastic	S		9	60.00	4
Sinuuous	Pool	posits or rocks	Oligocene	Scrub/Shrub	None	Oligocene	Volcaniclastic	S		9	63.90	4
Sinuuous	Pool	posits or rocks	Oligocene	Scrub/Shrub	None	Oligocene	Volcaniclastic	S		9	63.90	4
Irregular	Riffle	Continental gl:	Pleistocene	Scrub/Shrub	None	Pleistocene	Glacial outwash	N		9	65.60	3
Irregular	Riffle	Continental gl:	Pleistocene	Scrub/Shrub	None	Pleistocene	Glacial outwash	N		9	65.60	3

Straight	Pool	Alluvium	Quarternary	Scrub/Shrub	None	Pleistocene	Glacial outwash	S	9	68.10	4
Straight	Pool	Alluvium	Quarternary	Scrub/Shrub	None	Pleistocene	Glacial outwash	S	9	68.10	4
Straight	Pool	Alluvium	Quarternary	Scrub/Shrub	Ampicillin	Pleistocene	Glacial outwash	S	9	68.10	4
Sinuuous	Riffle	Continental gl	Pleistocene	Scrub/Shrub	None	Miocene-Oligocene	Andesite flows	S	9	68.30	2
Sinuuous	Riffle	Continental gl	Pleistocene	Scrub/Shrub	Ampicillin	Miocene-Oligocene	Andesite flows	PN	9	68.30	2
Sinuuous	Riffle	Continental gl	Pleistocene	Scrub/Shrub	None	Miocene-Oligocene	Andesite flows	S	9	68.30	2
Irregular	Pool	Alluvium	Quarternary	Mixed Forest	None	Miocene-Oligocene	Andesite flows	N	9	69.70	4
Irregular	Pool	Alluvium	Quarternary	Mixed Forest	None	Miocene-Oligocene	Andesite flows	S	9	69.70	4
Irregular	Riffle	Alluvium	Quarternary	Scrub/Shrub	None	Miocene-Oligocene	Andesite flows	S	9	76.04	4
Irregular	Pool	Alluvium	Quarternary	Scrub/Shrub	Ampicillin	Miocene-Oligocene	Andesite flows	P	9	76.04	4
Irregular	Riffle	Alluvium	Quarternary	Scrub/Shrub	None	Oligocene	Volcaniclastic	S	6	76.54	3
Irregular	Riffle	Alluvium	Quarternary	Scrub/Shrub	None	Oligocene	Volcaniclastic	S	6	76.54	3
Irregular	Riffle	Alluvium	Quarternary	Scrub/Shrub	None	Oligocene	Volcaniclastic	N	6	76.54	3
Sinuuous	Pool	Andesite flows	Miocene-Oligocene	Scrub/Shrub	None	Miocene-Oligocene	Andesite flows	N	6	77.70	4
Sinuuous	Pool	Andesite flows	Miocene-Oligocene	Scrub/Shrub	None	Miocene-Oligocene	Andesite flows	S	6	77.70	4
Sinuuous	Pool	Andesite flows	Miocene-Oligocene	Scrub/Shrub	None	Miocene-Oligocene	Andesite flows	S	6	77.70	4
Regular	Riffle	Alluvium	Quarternary	Mixed Forest	None	Oligocene	Volcaniclastic	S	6	81.22	3
Regular	Riffle	Alluvium	Quarternary	Mixed Forest	None	Oligocene	Volcaniclastic	S	6	81.22	3
Braided	Run	Alluvium	Quarternary	Scrub/Shrub	None	Oligocene	Volcaniclastic	S	0	85.24	3
Braided	Run	Alluvium	Quarternary	Scrub/Shrub	None	Oligocene	Volcaniclastic	S	0	85.24	3

Migration	Elev	Drainage	StrLenTot	DrainDen	BasinRelief	BasinPk	WCWidth	FCWidth	Sinuosity	Slope	StreamSlope	Power	SubSmall	SubLarge	SubAvg
2.7	20	1333	14668	11.00	492.00	512.00	10	20	1.21	2.20	2.20	5000	1	6	3.50
2.7	20	1333	14668	11.00	492.00	512.00	10	20	1.21	2.20	2.20	5000	1	6	3.50
2.7	20	1333	14668	11.00	492.00	512.00	10	20	1.21	2.20	2.20	5000	1	6	3.50
0.0	-10	1267	4106	3.24	315.00	305.00	380	383	1.04	0.00	0.00	9912	7	7	7.00
0.0	-10	1267	4106	3.24	315.00	305.00	380	383	1.04	0.00	0.00	9912	7	7	7.00
0.7	-8	2095	7932	3.79	343.00	335.00	1212	1256	1.06	2.86	0.02	9912	1	2	1.50
0.7	-8	2095	7932	3.79	343.00	335.00	1212	1256	1.06	2.86	0.02	9912	1	2	1.50
0.7	-8	2095	7932	3.79	343.00	335.00	1212	1256	1.06	2.86	0.02	9912	1	2	1.50
2.3	30	34	9500	282.74	288.00	318.00	3	12	1.17	19.10	19.10	3000	1	7	3.25
2.3	30	34	9500	279.41	288.00	318.00	3	12	1.17	19.10	19.10	3000	1	7	3.25
2.3	30	34	9500	279.41	288.00	318.00	3	12	1.17	19.10	19.10	3000	1	7	3.25
0.0	-6	4418	7426	1.68	485.00	479.00	462	464	1.04	1.55	0.02	10651	1	7	4.00
0.0	-6	4418	7426	1.68	485.00	479.00	462	464	1.04	1.55	0.02	10651	1	7	4.00
0.0	5	5703	56216	9.86	280.00	285.00	157	160	1.07	7.43	0.13	51059	5	5	5.00
0.0	5	5703	56216	9.86	280.00	285.00	157	160	1.07	7.43	0.13	51059	5	5	5.00
1.7	10	17890	241857	13.52	482.00	492.00	62.9	63.7	1.42	1.15	0.06	7896	1	1	1.00
1.7	10	17890	241857	13.52	482.00	492.00	62.9	63.7	1.42	1.15	0.06	7896	1	1	1.00
1.7	15	4813	77338	16.07	398.00	413.00	27.7	29.9	1.87	1.52	0.06	10409	1	7	4.00
1.7	15	4813	77338	16.07	398.00	413.00	27.7	29.9	1.87	1.52	0.06	10409	1	7	4.00
1.0	25	15103	178878	11.84	464.00	489.00	23	25.7	1.23	1.76	0.12	12116	7	7	7.00
1.0	25	15103	178878	11.84	464.00	489.00	23	25.7	1.23	1.76	0.12	12116	7	7	7.00
2.3	40	2453	33293	13.57	452.00	492.00	21	23	1.09	1.53	0.18	10537	1	7	4.00
2.3	40	2453	33293	13.57	452.00	492.00	21	23	1.09	1.53	0.18	10537	1	7	4.00
2.7	55	949	25754	27.14	411.00	466.00	62	63.1	1.35	6.25	0.18	42936	1	6	3.50
2.7	55	949	25754	27.14	411.00	466.00	62	63.1	1.35	6.25	0.18	42936	1	6	3.50
3.3	80	46979	500887	10.66	602.00	682.00	14.2	15.9	1.72	63.37	5.00	27946	1	1	1.00
3.3	80	49979	500887	10.02	602.00	682.00	14.2	15.9	1.72	63.37	5.00	27946	1	1	1.00
2.7	75	40057	531216	13.26	2605.00	2680.00	46.2	47.7	1.23	5.26	0.23	24706	1	5	3.00
2.7	75	40057	531216	13.26	2605.00	2680.00	46.2	47.7	1.23	5.26	0.23	24706	1	5	3.00
2.7	160	1791	14781	8.25	454.00	614.00	4	25	1.34	8.00	8.00	2400	1	3	2.00
2.7	160	1791	14781	8.25	454.00	614.00	4	25	1.34	8.00	8.00	2400	1	3	2.00
4.0	200	1791	6764	3.78	1112.00	1312.00	32.2	3204	2.64	14.09	1.46	66153	1	4	2.50
4.0	200	406	6764	16.66	1031.00	1231.00	32.2	3204	2.64	14.09	1.46	66153	1	4	2.50
4.0	225	5161	63477	12.30	920.00	1145.00	42	43.1	1.88	19.53	0.29	91684	1	7	4.00
4.0	225	5161	63477	12.30	920.00	1145.00	42	43.1	1.88	19.53	0.29	91684	1	7	4.00
3.3	535	3074	24923	8.11	380.00	915.00	230	235	1.57	44.60	3.62	270142	2	7	4.50
3.3	535	3074	24923	8.11	380.00	915.00	230	235	1.57	44.60	3.62	270142	2	7	4.50
4.0	735	14845	79173	5.33	594.00	1329.00	195	205	2.27	41.67	2.34	252350	2	7	4.50
4.0	735	14845	79173	5.33	594.00	1329.00	195	205	2.27	41.67	2.34	252350	2	7	5.40
3.0	860	9064	198064	21.85	3061.00	3921.00	44	45	1.23	33.78	1.46	138723	1	7	3.25
3.0	860	9064	198064	21.85	3061.00	3921.00	44	45	1.23	33.78	1.46	138723	1	7	3.25
3.0	995	25375	382101	15.06	2005.00	3000.00	30	30.1	1.08	34.62	1.58	142138	1	3	2.00
3.0	995	25375	382101	15.06	2005.00	3000.00	30	30.1	1.08	34.62	1.58	142138	1	3	2.00
3.0	1213	10683	190540	17.84	3207.00	4420.00	20	33.2	1.27	9.00	9.00	12500	6	6	6.00
3.0	1213	10683	190540	17.84	3207.00	4420.00	20	33.2	1.27	9.00	9.00	12500	6	6	6.00

3.3	1158	4589	69391	15.12	1842.00	3000.00	163	192	1.00	38.81	1.90	71122	1	1	1.00
3.3	1158	4589	69391	15.12	1842.00	3000.00	163	192	1.00	38.81	1.90	71122	1	1	1.00
3.3	1158	4589	69391	15.12	1842.00	3000.00	163	192	1.00	38.81	1.90	71122	1	1	1.00
2.3	1207	3388	48865	14.43	2320.00	3527.00	5	10	1.12	13.00	13.00	18000	2	6	3.75
2.3	1207	3388	48865	14.42	2320.00	3527.00	5	10	1.12	13.00	13.00	18000	2	6	3.75
2.3	1207	3388	48865	14.42	2320.00	3527.00	5	10	1.12	13.00	13.00	18000	2	6	3.75
3.3	1175	19344	262339	13.56	3245.00	4420.00	30.4	52.9	1.30	10.62	0.20	19471	1	2	1.50
3.3	1175	19344	262339	13.56	3245.00	4420.00	30.4	52.9	1.30	10.62	0.20	19471	1	2	1.50
4.0	1312	16871	257157	15.24	2793.00	4105.00	22.5	35.5	1.24	21.61	1.60	39600	2	4	3.00
4.0	1312	16871	257157	15.24	2793.00	4105.00	22.5	35.5	1.24	21.61	1.60	39600	2	4	3.00
3.7	1396	13570	217803	16.05	2709.00	4105.00	10	50	1.13	9.00	9.00	23500	1	4	2.67
3.7	1396	13570	217803	16.05	2709.00	4105.00	10	50	1.13	9.00	9.00	23500	1	4	2.67
3.7	1396	13570	217803	16.05	2709.00	4105.00	10	50	1.13	9.00	9.00	23500	1	4	2.67
2.7	1354	16983	186740	11.00	2726.00	4080.00	30	33	1.14	25.30	0.49	46367	1	7	4.50
2.7	1354	16983	186740	11.00	2726.00	4080.00	30	33	1.14	25.30	0.49	46367	1	7	4.50
2.7	1354	16983	186740	11.00	2726.00	4080.00	30	33	1.14	25.30	0.49	46367	1	7	4.50
4.3	1508	5261	73407	13.95	3852.00	5360.00	23	39	1.47	43.75	1.80	80176	2	4	3.00
4.3	1508	5261	73407	13.95	3852.00	5360.00	23	39	1.47	43.75	1.80	80176	2	4	3.00
5.3	1628	47808	806328	16.87	4052.00	5680.00	35	66	1.29	29.85	1.40	54704	2	4	3.00
5.3	1628	47808	806328	16.87	4052.00	5680.00	35	66	1.29	29.85	1.40	54704	2	4	3.00

PercAvg	NearRoad	NearBridge	NearRR	HumanUse	Refuse	CanCov	Agriculture	MngForest	Commercia	Residential	Impervious	pH	Temp	mS2	Salinity	FC_MPN	
0.18	0.03		3.58	0.34	50	10	25	0	0.00	8.65	45.48	55	8.97	17.9	222.5	0.1	2941.80
0.18	0.03		3.58	0.34	50	10	25	0	0.00	8.65	45.48	55	8.97	17.9	222.5	0.1	6049.00
0.18	0.03		3.58	0.34	50	10	25	0	0.00	8.65	45.48	55	8.97	17.9	222.5	0.1	980.40
0.12	0.01		3.48	0.06	100	5	20	0	0.00	30.66	35.39	75	7.83	15.8	35.47	22.4	1197.35
0.12	0.01		3.48	0.06	100	5	20	0	0.00	30.66	35.39	75	7.83	15.8	35.47	22.4	2419.60
0.05	0.10		2.81	0.09	100	10	10	0	0.00	0.00	0	45	8.16	18.3	33.26	20.9	4839.20
0.05	0.10		2.81	0.09	100	10	10	0	0.00	0.00	0	45	8.16	18.3	33.26	20.9	15122.50
0.05	0.10		2.81	0.09	100	10	10	0	0.00	0.00	0	45	8.16	18.3	33.26	20.9	15122.50
0.36	0.03		2.68	0.09	25	10	90	0	0.00	0.00	15.22	10	9.38	16.5	490.2	0.2	2419.60
0.36	0.03		2.68	0.09	25	10	90	0	0.00	0.00	15.22	10	9.38	16.5	490.2	0.2	920.80
0.36	0.03		2.68	0.09	25	10	90	0	0.00	0.00	15.22	10	9.38	16.5	490.2	0.2	816.40
0.35	0.02		1.31	0.04	100	25	0	0.21	0.00	12.94	48.09	55	6.05	16.4	9.76	5.5	2419.60
0.35	0.02		1.31	0.04	100	25	0	0.21	0.00	12.94	48.09	55	6.05	16.4	9.76	5.5	248.90
0.35	0.01		0.19	0.87	100	25	8	0.03	0.00	20.70	52.54	50	5.92	17.2	5.82	3.1	2419.60
0.35	0.01		0.19	0.87	100	25	8	0.03	0.00	20.70	52.54	50	5.92	17.2	5.82	3.1	1413.60
0.15	0.02		0.27	0.32	50	10	15	0.28	0.00	30.70	37.99	65	6.22	17.6	103.7	0.1	1299.70
0.30	0.02		0.27	0.32	50	10	15	0.28	0.00	30.70	37.99	65	6.22	17.6	103.7	0.1	325.50
0.12	0.02		0.03	0.17	100	10	30	0.53	0.00	28.06	37.61	30	6.55	17.1	113.4	0.1	410.60
0.12	0.02		0.03	0.17	100	10	30	0.53	0.00	28.06	37.61	30	6.55	17.1	113.4	0.1	75.90
0.20	0.05		0.24	1.35	50	20	8	5.96	0.00	14.73	45.02	5	6.41	16.7	101.9	0.1	727.00
0.20	0.05		0.24	1.35	50	20	8	5.96	0.00	14.73	45.02	5	6.41	16.7	101.9	0.1	6.30
1.14	0.01		0.06	1.46	0	100	28	0	0.00	2.73	60.66	15	6.66	16.4	81.8	0	517.20
1.14	0.01		0.06	1.46	0	100	28	0	0.00	2.73	60.66	15	6.66	16.4	81.8	0	41.00
1.73	0.01		0.63	1.40	100	5	50	0.61	4.92	14.81	23.77	20	6.47	16.5	80.7	0	387.30
1.73	0.01		0.63	1.40	100	5	50	0.61	4.92	14.81	23.77	20	6.47	16.5	80.7	0	579.40
1.16	0.06		0.08	0.03	0	0	45	0.17	2.79	5.43	49.38	15	6.30	16.1	145	0.1	1046.20
1.16	0.06		0.08	0.03	0	0	45	0.17	2.79	5.43	49.38	15	6.30	16.1	145	0.1	15.80
1.26	0.03		0.06	0.11	75	0	30	13.28	27.16	1.34	39.82	20	6.37	16.3	75.2	0	290.90
1.26	0.03		0.06	0.11	75	0	30	13.28	27.16	1.34	39.82	20	6.37	16.3	75.2	0	410.60
1.10	0.01		0.02	3.67	50	0	18	0	0.00	0.00	28.04	10	5.99	15.3	132.3	0.1	1119.20
1.10	0.01		0.02	3.67	50	0	18	0	0.00	0.00	28.04	10	5.99	15.3	132.3	0.1	150.00
1.26	0.08		0.14	4.53	100	25	85	2.91	0.00	0.00	11.21	5	5.65	17.3	63.4	0	228.20
1.26	0.08		0.14	4.53	100	25	85	2.91	0.00	0.00	11.21	5	5.65	17.3	63.4	0	2419.60
1.19	0.04		0.73	3.79	100	0	70	0.04	25.18	0	20.73	0	5.73	17.5	64.3	0	285.10
1.19	0.04		0.73	3.79	100	0	70	0.04	25.18	0.00	20.73	0	5.73	17.5	64.3	0	2419.60
0.66	0.13		0.34	1.31	100	5	95	0.06	79.16	0.00	6.94	0	5.35	15.8	61.7	0	325.90
0.66	0.13		0.34	1.31	100	5	95	0.06	79.16	0.00	6.94	0	5.35	15.8	61.7	0	84.20
0.98	0.08		0.41	0.35	100	5	98	0.02	69.12	0.10	12.42	0	5.50	15.9	45.8	0	98.80
0.98	0.08		0.41	0.35	100	5	98	0.02	69.12	0.10	12.42	0	5.50	15.9	45.8	0	5.10
0.48	0.11		2.01	0.34	5	0	75	0	99.36	0.00	0	0	8.56	15.4	49	0	727.00
0.48	0.11		2.01	0.34	5	0	75	0	99.36	0.00	0	0	8.56	15.4	49	0	2419.60
0.72	0.01		5.20	0.14	5	0	70	0	99.12	0.00	0.59	5	8.59	16.2	50.1	0	613.10
0.72	0.01		5.20	0.14	5	0	70	0	99.12	0.00	0.59	5	8.59	16.2	50.1	0	920.80
0.60	0.01		5.84	1.52	5	0	10	0	98.60	0.00	1.64	10	8.39	10.7	30.6	0	1732.90
0.60	0.01		5.84	1.52	5	0	10	0	98.60	0.00	1.64	10	8.39	10.7	30.6	0	387.30

0.60	0.36	8.05	0.41	5	0	30	0	100.00	0.00	0	0	8.33	13.7	47.3	0	12098.00
0.60	0.36	8.05	0.41	5	0	30	0	100.00	0.00	0	0	8.33	13.7	47.3	0	6049.00
0.60	0.36	8.05	0.41	5	0	30	0	100.00	0.00	0	0	8.33	13.7	47.3	0	6049.00
0.43	0.01	8.72	1.01	5	0	100	0	100.00	0.00	0	0	7.87	11.5	42	0	686.70
0.43	0.01	8.72	1.01	5	0	100	0	100.00	0.00	0	0	7.87	11.5	42	0	5032.77
0.43	0.01	8.72	1.01	5	0	100	0	100.00	0.00	0	0	7.87	11.5	42	0	5032.77
0.95	0.02	8.99	0.00	5	0	90	0	98.60	0.00	0	0	7.66	13.7	52.6	0	410.60
0.95	0.02	8.99	0.00	5	0	90	0	98.60	0.00	0	0	7.66	13.7	52.6	0	2419.60
1.26	0.03	14.25	0.16	5	0	78	0	99.52	0.00	0	0	7.04	12.2	52.8	0	344.80
1.26	0.03	14.25	0.16	5	0	78	0	99.52	0.00	0	0	7.04	12.2	52.8	0	1119.90
1.32	0.09	14.90	0.40	5	0	40	0	100.00	0.00	0	0	6.15	11.4	44.9	0	365.40
1.32	0.09	14.90	0.40	5	0	40	0	100.00	0.00	0	0	6.15	11.4	44.9	0	2419.60
1.32	0.09	14.90	0.40	5	0	40	0	100.00	0.00	0	0	6.15	11.4	44.9	0	2419.60
1.07	0.01	15.83	0.04	5	0	75	0	98.08	0.00	0	5	6.86	12.8	59.6	0	461.10
1.07	0.01	15.83	0.04	5	0	75	0	98.08	0.00	0	5	6.86	12.8	59.6	0	2940.29
1.07	0.01	15.83	0.04	5	0	75	0	98.08	0.00	0	5	6.86	12.8	59.6	0	5032.77
1.07	0.01	18.71	0.18	5	0	95	0	98.20	0.00	0	0	6.88	13.2	57.3	0	328.20
1.07	0.01	18.71	0.18	5	0	95	0	98.20	0.00	0	0	6.88	13.2	57.3	0	2419.60
1.09	0.02	21.12	0.20	5	0	30	0	99.02	0.00	0	15	5.98	12.7	52.6	0	172.50
1.09	0.02	21.12	0.20	5	0	30	0	99.02	0.00	0	15	5.98	12.7	52.6	0	242.70

EC_MPN	EClog	AmpN	AmpP	ChlorN	ChlorP	TetN	TetP	Amp	Chlor	Tet	PrAmp	PrChlor	PrTet	Ampicillin-EC	Chloramphc	
740.80	2.87	0	1	0	0	0	1	0	2	0	1	31.25	0.00	0.00	125000	0
1568.93	3.20	1	0	0	0	0	1	1	1	0	3	0.00	0.00	0.00	0	0
59.80	1.78	1	0	0	0	0	0	0	1	0	0	0.00	0.00	0.00	0	0
9.50	0.98	1	0	0	0	0	0	0	1	0	0	0.00	0.00	0.00	0	0
4.10	0.61	1	0	0	0	0	0	0	1	0	0	0.00	0.00	0.00	0	0
18.60	1.27	0	1	0	0	0	0	1	2	0	2	58.33	0.00	13.33	350000	0
7.25	0.86	1	0	0	0	0	1	1	1	0	3	0.00	0.00	0.00	0	0
5.73	0.76	1	0	0	0	0	0	0	1	0	0	0.00	0.00	0.00	0	0
165.80	2.22	1	0	0	0	1	0	1	1	1	2	0.00	0.00	33.33	0	0
18.90	1.28	1	0	0	0	0	1	0	1	0	1	0.00	0.00	0.00	0	0
39.30	1.59	1	0	0	0	0	1	0	1	0	1	0.00	0.00	0.00	0	0
63.30	1.80	1	0	0	0	1	0	0	1	2	1	0.00	2.79	0.00	0	1200
31.50	1.50	1	0	0	0	0	1	0	1	0	1	0.00	0.00	0.00	0	0
488.40	2.69	0	0	0	0	0	1	0	0	0	1	0.00	0.00	0.00	0	0
517.20	2.71	0	1	0	0	0	0	0	2	0	0	19.85	0.00	0.00	262000	0
104.30	2.02	0	1	0	0	0	0	1	2	0	2	6.11	0.00	0.00	293500	0
1.00	0.00	0	1	0	0	1	0	1	2	2	2	22.92	12.13	19.27	550000	0
39.30	1.59	1	0	1	0	0	0	0	1	1	0	0.00	0.00	0.00	0	0
4.10	0.61	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0
35.90	1.56	1	0	0	0	0	0	0	1	0	0	0.31	0.00	0.00	0	0
1.00	0.00	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0
33.10	1.52	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0
0.00	0.00	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0
28.80	1.46	0	0	0	0	0	1	0	0	0	1	0.00	0.00	0.00	7500	0
1.00	0.00	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0
52.10	1.72	1	1	1	1	1	1	1	3	3	3	15.63	0.00	23.19	250000	0
1.00	0.00	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0
32.30	1.51	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0
8.40	0.92	1	0	1	1	1	1	1	1	3	3	0.00	22.67	9.00	0	650000
16.00	1.20	1	0	0	0	0	1	0	1	0	1	0.00	0.00	0.00	0	0
0.00	0.00	1	0	0	0	0	0	0	1	0	0	0.00	0.00	0.00	0	0
13.40	1.13	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0
2.00	0.30	0	1	0	0	1	0	1	2	2	2	25.11	0.46	11.71	491000	9000
6.30	0.80	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0
2.00	0.30	1	1	0	0	0	0	1	3	0	2	3.95	0.00	95.26	15000	0
10.80	1.03	0	1	0	0	0	0	0	2	0	0	10.42	0.00	0.00	250000	0
2.00	0.30	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0
4.10	0.61	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0
0.00	0.00	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0
14.40	1.16	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0
13.40	1.13	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0
5.20	0.72	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0
2.00	0.30	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0
248.10	2.39	1	0	0	0	0	0	0	1	0	0	0.00	0.00	0.00	0	0
12.20	1.09	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0

12.75	1.11	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0
8.15	0.91	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0
466.45	2.67	0	1	0	0	0	0	2	0	0	0.12	0.00	0.00	800	0
48.00	1.68	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0
51.20	1.71	1	1	0	0	0	0	3	0	0	0.16	0.00	0.00	3500	0
253.40	2.40	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0
26.20	1.42	1	0	0	0	0	0	1	0	0	0.00	0.00	0.00	0	0
35.50	1.55	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0
50.40	1.70	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0
9.70	0.99	0	1	0	0	0	0	2	0	0	0.14	0.00	0.00	2500	0
30.50	1.48	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0
313.00	2.50	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0
13.40	1.13	1	0	0	0	0	0	1	0	0	0.00	0.00	0.00	0	0
37.90	1.58	1	0	0	0	0	0	1	0	0	0.00	0.00	0.00	0	0
2.00	0.30	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0
21.80	1.34	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0
17.30	1.24	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0
4.10	0.61	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0
10.80	1.03	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0
10.80	1.03	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0

Tetracycline-EC	Ampicillin-FC	Chloramphen	Tetracycline-FC
0	0	0	150000
0	200000	0	42000
0	250000	0	0
0	100000	0	0
0	48000	0	0
80000	0	0	0
25000	136000	0	0
0	45000	0	120000
200000	600000	5000	0
0	200000	0	80000
0	40000	0	43000
0	3200	200	1900
0	100000	0	192000
0	0	0	0
0	0	0	0
0	0	0	3870
462000	0	0	0
0	272000	6500	12500
0	0	0	0
0	15000	114000	10300
0	0	0	0
0	37000	0	0
0	0	0	0
0	0	0	165000
0	0	0	0
370000	0	6800	0
0	0	0	0
0	0	0	0
258000	750000	7500	335000
0	20200	26350	0
0	138000	0	0
0	0	0	0
229000	0	0	0
0	0	0	0
0	362000	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	7500	0	0
0	0	0	0

0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	3500	0	0
0	0	0	0
0	12000	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	24000	0	0
0	0	0	0
0	8500	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0