

Fairfax County 2023 MS4 Program Plan and Annual Report

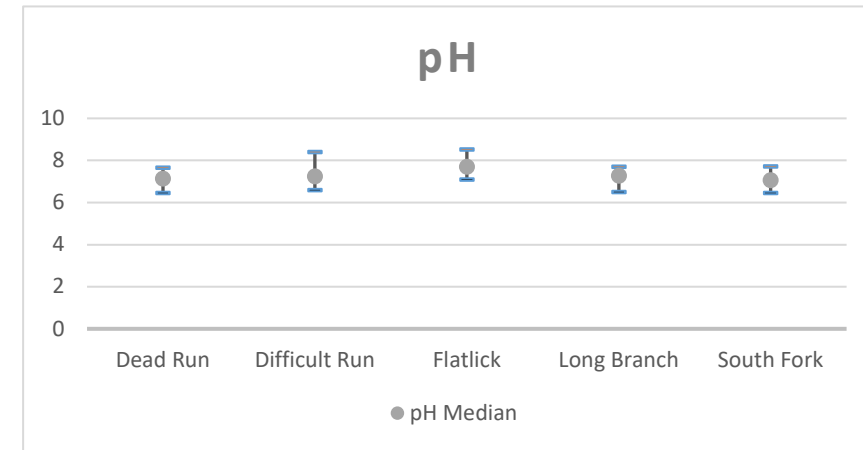
Appendix R13

In-Stream Monitoring Report

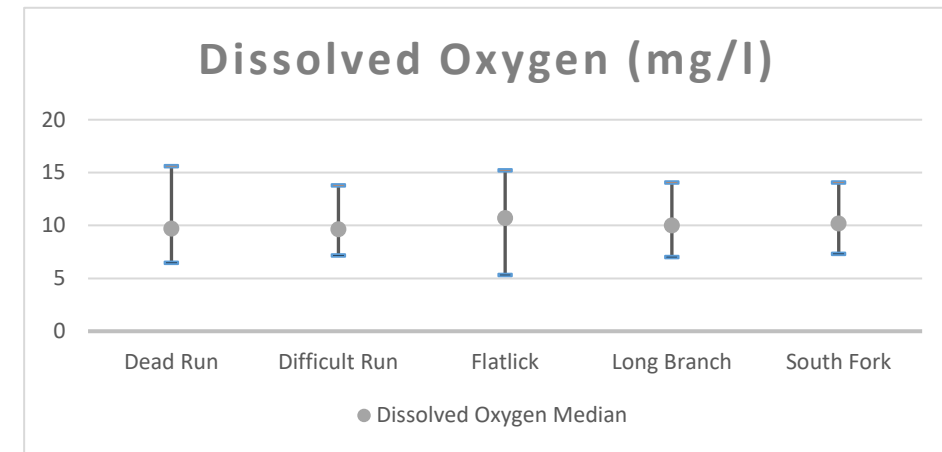
VSMP Permit Number VA0088587
9-29-2023

The in-stream monitoring sites began monitoring during reporting period 2017, trends will be evaluated in the future when sufficient data has been gathered.

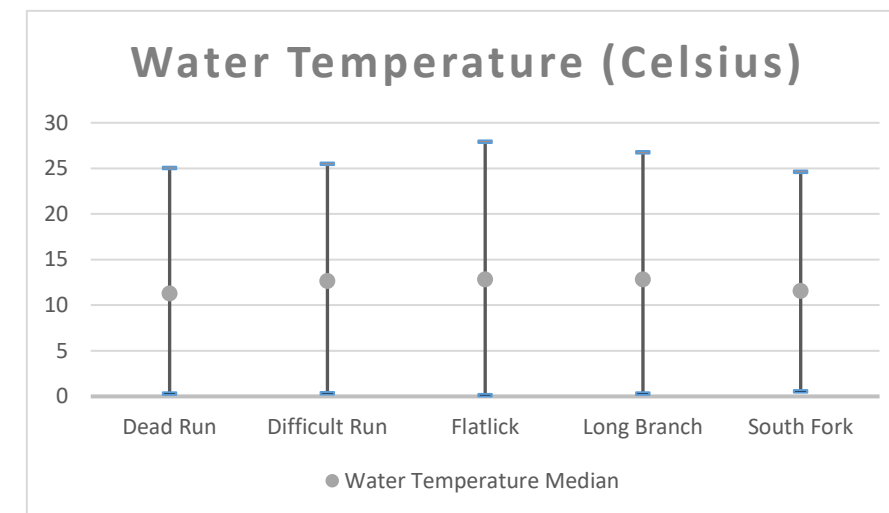
	Latitude	Longitude	pH		
			Min	Max	Median
Dead Run	38°57'34.8"	77°10'33.5" NAD27	6.46	7.66	7.135
Difficult Run	38°53'04.5"	77°19'57.8" NAD27	6.6	8.4	7.24
Flatlick	38°52'56.2"	77°25'55.9" NAD27	7.09	8.52	7.71
Long Branch	38°48'48"	77°14'13.7" NAD27	6.5	7.7	7.275
South Fork	38°54'35"	77°20'14.6" NAD27	6.46	7.72	7.07



	Latitude	Longitude	Dissolved Oxygen		
			Min	Max	Median
Dead Run	38°57'34.8"	77°10'33.5" NAD27	6.46	15.61	9.695
Difficult Run	38°53'04.5"	77°19'57.8" NAD27	7.18	13.78	9.64
Flatlick	38°52'56.2"	77°25'55.9" NAD27	5.31	15.21	10.71
Long Branch	38°48'48"	77°14'13.7" NAD27	7.03	14.06	10.02
South Fork	38°54'35"	77°20'14.6" NAD27	7.32	14.07	10.2

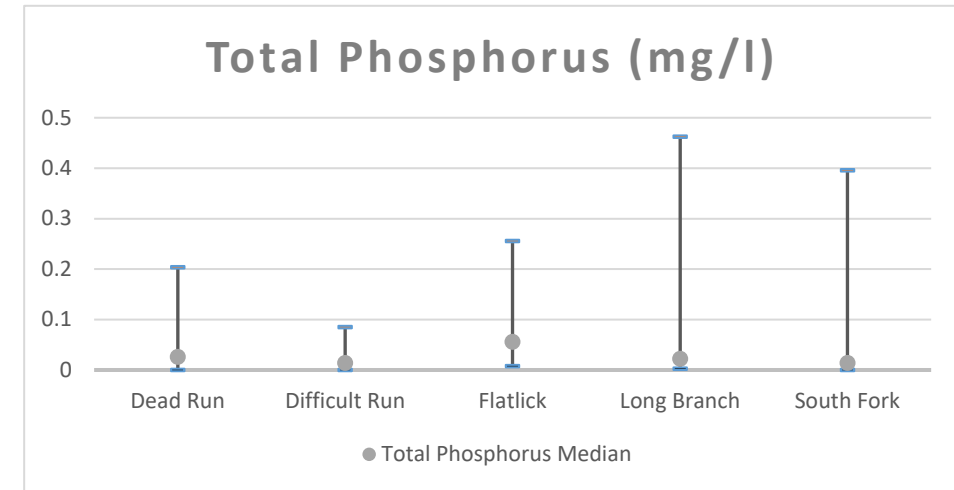


	Latitude	Longitude	Water Temperature		
			Min	Max	Median
Dead Run	38°57'34.8"	77°10'33.5" NAD27	0.305	25.016	11.2635
Difficult Run	38°53'04.5"	77°19'57.8" NAD27	0.33	25.49	12.6395
Flatlick	38°52'56.2"	77°25'55.9" NAD27	0.106	27.91	12.8305
Long Branch	38°48'48"	77°14'13.7" NAD27	0.306	26.747	12.8355
South Fork	38°54'35"	77°20'14.6" NAD27	0.55	24.603	11.553

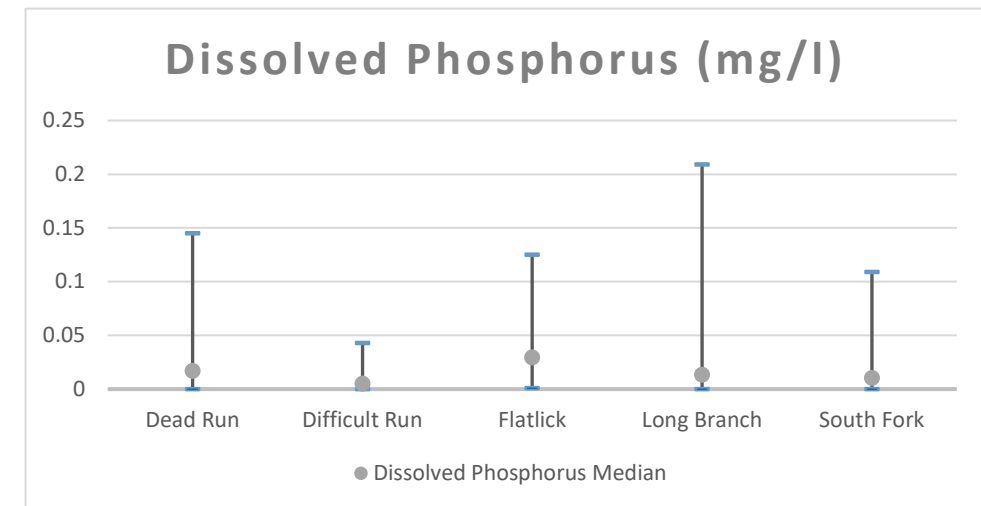


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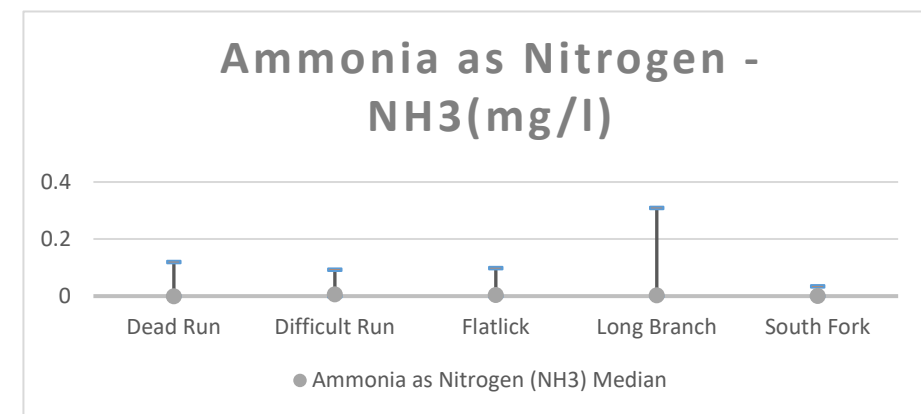
	Latitude	Longitude	Total Phosphorus		
			Min	Max	Median
Dead Run	38°57'34.8"	77°10'33.5" NAD27	0	0.204	0.026
Difficult Run	38°53'04.5"	77°19'57.8" NAD27	0	0.085	0.014
Flatlick	38°52'56.2"	77°25'55.9" NAD27	0.008	0.256	0.056
Long Branch	38°48'48"	77°14'13.7" NAD27	0.003	0.463	0.0225
South Fork	38°54'35"	77°20'14.6" NAD27	0	0.396	0.014



	Latitude	Longitude	Dissolved Phosphorus		
			Min	Max	Median
Dead Run	38°57'34.8"	77°10'33.5" NAD27	0	0.145	0.017
Difficult Run	38°53'04.5"	77°19'57.8" NAD27	0	0.043	0.005
Flatlick	38°52'56.2"	77°25'55.9" NAD27	0.001	0.125	0.0295
Long Branch	38°48'48"	77°14'13.7" NAD27	0	0.209	0.0135
South Fork	38°54'35"	77°20'14.6" NAD27	0	0.109	0.0105

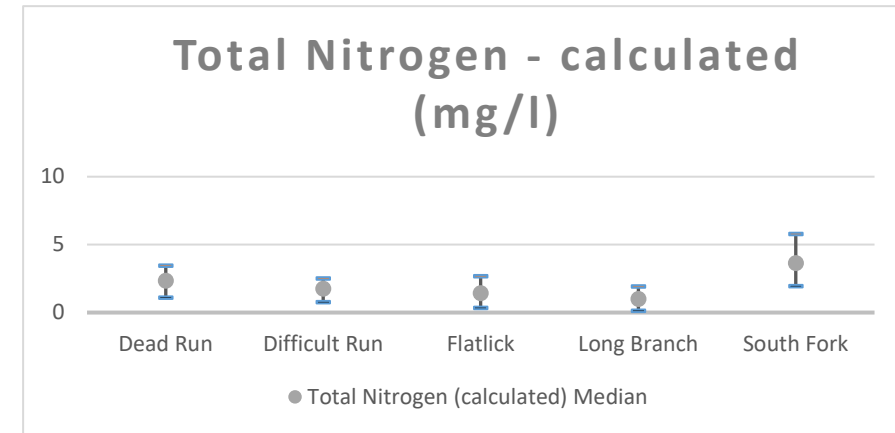


	Latitude	Longitude	Ammonia as Nitrogen (NH3)		
			Min	Max	Median
Dead Run	38°57'34.8"	77°10'33.5" NAD27	0	0.12	0
Difficult Run	38°53'04.5"	77°19'57.8" NAD27	0	0.093	0.006
Flatlick	38°52'56.2"	77°25'55.9" NAD27	0	0.098	0.004
Long Branch	38°48'48"	77°14'13.7" NAD27	0	0.309	0.0025
South Fork	38°54'35"	77°20'14.6" NAD27	0	0.034	0.001

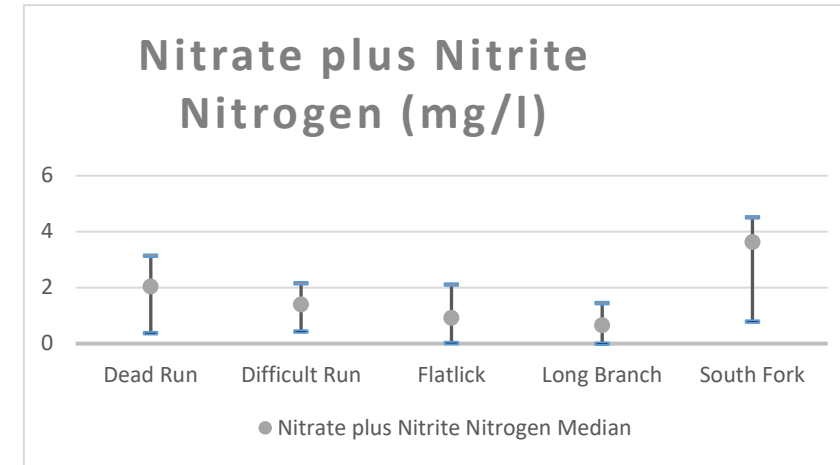


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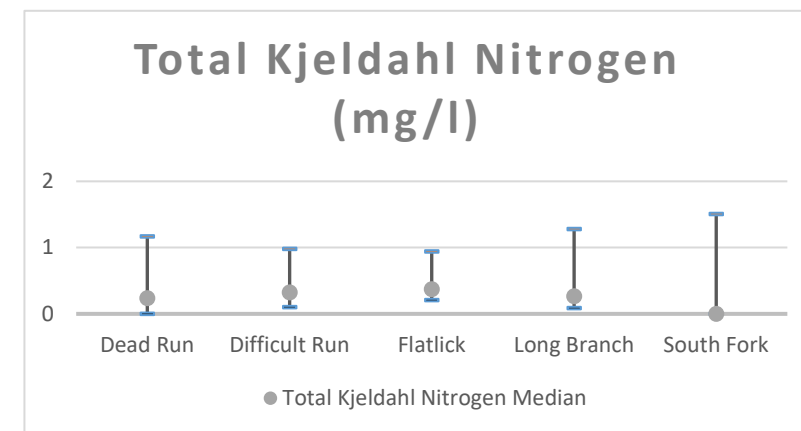
	Latitude	Longitude	Total Nitrogen (calculated)		
			Min	Max	Median
Dead Run	38°57'34.8"	77°10'33.5" NAD27	1.09	3.45	2.35
Difficult Run	38°53'04.5"	77°19'57.8" NAD27	0.77	2.51	1.765
Flatlick	38°52'56.2"	77°25'55.9" NAD27	0.346	2.68	1.425
Long Branch	38°48'48"	77°14'13.7" NAD27	0.121	1.91	1.0015
South Fork	38°54'35"	77°20'14.6" NAD27	1.94	5.78	3.63



	Latitude	Longitude	Nitrate plus Nitrite Nitrogen		
			Min	Max	Median
Dead Run	38°57'34.8"	77°10'33.5" NAD27	0.376	3.14	2.05
Difficult Run	38°53'04.5"	77°19'57.8" NAD27	0.43	2.16	1.405
Flatlick	38°52'56.2"	77°25'55.9" NAD27	0.016	2.11	0.921
Long Branch	38°48'48"	77°14'13.7" NAD27	0	1.45	0.664
South Fork	38°54'35"	77°20'14.6" NAD27	0.79	4.51	3.63

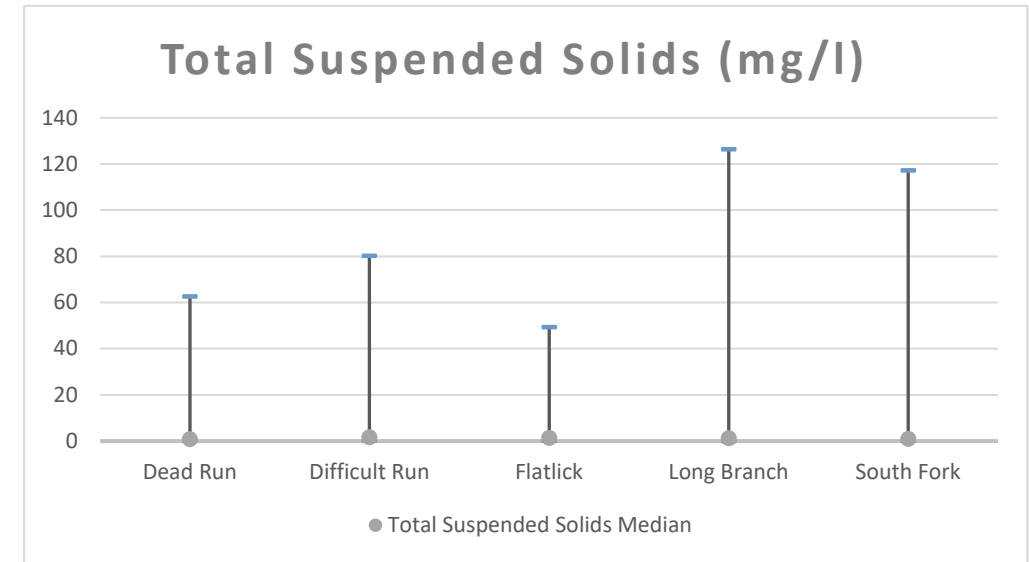


	Latitude	Longitude	Total Kjeldahl Nitrogen		
			Min	Max	Median
Dead Run	38°57'34.8"	77°10'33.5" NAD27	0	1.17	0.2395
Difficult Run	38°53'04.5"	77°19'57.8" NAD27	0.103	0.984	0.324
Flatlick	38°52'56.2"	77°25'55.9" NAD27	0.209	0.944	0.373
Long Branch	38°48'48"	77°14'13.7" NAD27	0.088	1.28	0.268
South Fork	38°54'35"	77°20'14.6" NAD27	0	1.51	0



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	Latitude	Longitude	Total Suspended Solids		
			Min	Max	Median
Dead Run	38°57'34.8"	77°10'33.5" NAD27	0.1	62.7	0.775
Difficult Run	38°53'04.5"	77°19'57.8" NAD27	0.1	80.3	1.65
Flatlick	38°52'56.2"	77°25'55.9" NAD27	0.1	49.4	1.4
Long Branch	38°48'48"	77°14'13.7" NAD27	0	126.4	1.25
South Fork	38°54'35"	77°20'14.6" NAD27	0.1	117.2	1



	Latitude	Longitude	Escherichia coli		
			Min	Max	Median
Dead Run	38°57'34.8"	77°10'33.5" NAD27	2	10910	125.5
Difficult Run	38°53'04.5"	77°19'57.8" NAD27	8	4780	72
Flatlick	38°52'56.2"	77°25'55.9" NAD27	8	10130	88.7
Long Branch	38°48'48"	77°14'13.7" NAD27	9	20050	142
South Fork	38°54'35"	77°20'14.6" NAD27	3	14450	75

