

Appendix A: Site Information

Routine Stream Monitoring Sites

WRIA	Locator	Name	Status	Years Monitored	Latitude	Longitude
7	AMES_1	Ames Creek	Active	2005-2006, 2011-2020	47.68683	-121.98314
	CHERRY_1	Cherry Creek	Active	2005-2006, 2011-2020	47.74356	-121.94147
	GRIFFIN	Griffin Creek	Active	2011 - 2020	47.60609	-121.88626
	HARRIS_1	Harris Creek	Active	2005-2006, 2011-2020	47.67808	-121.90733
	PATTER_3	Patterson Creek	Active	2005-2006, 2011-2020	47.59161	-121.92672
	RAGING_MTH	Raging River	Active	2011-2020	47.56689	-121.88341
	SKYKOMISH	Skykomish	Active	2011-2020	47.71145	-121.37334
	SNQDUVALL	Snoqualmie	Active	2011-2020	47.74524	-121.98679
	MFK_SNQ	Snoqualmie - Middle Fork	Active	2011-2020	47.51599	-121.76917
	NFK_SNQ	Snoqualmie - North Fork	Active	2011-2020	47.52194	-121.76970
	SFK_SNQ	Snoqualmie - South Fork	Active	2011-2020	47.50202	-121.78639
	TOLT_MTH	Tolt River	Active	2011-2020	47.63805	-121.91840
	8	0484	Bear	Active	1974, 1979- 2020	47.66956
0498		Fairweather	Inactive	1975-2008	47.63640	-122.23061
C484		Bear	Active	1974, 1979- 2008, 2013- 2020	47.68555	-122.08892
J484		Bear	Inactive	1974, 1979- 2008, 2015- 2020	47.71772	-122.07708
0438		Cedar	Active	1976-1982, 1996-2020	47.48229	-122.20279
A438		Cedar	Active	1976-2008, 2015-2020	47.45795	-122.07830
0442		Coal	Active	1979-2008, 2013-2022	47.56642	-122.17908
A499		Cochran Springs	Active	1974, 1979- 2008, 2013- 2020	47.64516	-122.20226
N484		Cottage Lake Creek	Active	1974, 1979- 2008, 2013- 2020	47.73644	-122.07936
A685		Ebright	Active	1996-2008, 2013-2020	47.60833	-122.07250

WRIA	Locator	Name	Status	Years Monitored	Latitude	Longitude
	A690	Eden	Active	1987-1988, 1995-2008, 2015-2020	47.61547	-122.06816
	B484	Evans	Active	1972-1973, 1979-2008, 2013-2020	47.67511	-122.08128
	S484	Evans	Active	1981-2008, 2015-2020	47.65245	-122.05144
	A456	Forbes	Active	2019-2020	47.69593	-122.19790
	A620	Idylwood	Active	1996-2020	47.64309	-122.10253
	0631	Issaquah	Active	1972, 1975- 1976, 1979- 2020	47.55217	-122.04795
	0632	Issaquah	Active	1972, 2017- 2020	47.55036	-122.04581
	A631	Issaquah	Active	1972, 1975- 1976, 1979- 2020	47.52711	-122.03844
	0446	Juanita	Active	1975-1977, 1979-2020	47.70536	-122.21678
	C446	Juanita	Inactive	1976-1977, 1979-2008	47.71817	-122.20394
	0444	Kelsey	Active	1977-2008, 2013-2020	47.60308	-122.18122
	D444	Kelsey	Inactive	1977-2008	47.60597	-122.16222
	A670	Laughing Jacobs	Active	1987-1988, 2014-2020	47.56558	-122.05259
	A617	Lewis	Active	1995-2008, 2013-2020	47.57061	-122.09228
	0478	Little Bear	Active	1972-1974, 1979-2020	47.75658	-122.16639
	S478	Little Bear	Active	1974, 2002- 2008, 2015- 2020	47.81144	-122.15900
	0430	Lyon	Active	1972-1974, 1979-2020	47.75292	-122.27778
	0440	May	Active	1978-2020	47.52930	-122.20343
	A432	McAleer	Active	1979-2008, 2013-2020	47.75195	-122.28128
	0474	North	Active	1972-1974, 1979-2020	47.75631	-122.18883
	D474	North	Active	1974, 1979- 1980, 1999- 2008, 2015- 2020	47.77992	-122.18814
	A680	Pine Lake	Active	1988, 1995- 2020	47.60105	-122.08008
	KSHZ06	Pipers	Active	1987-2020	47.71186	-122.37942
	KTHA01	Pipers	Active	1970-1986, 1988-2020	47.71056	-122.36928

WRIA	Locator	Name	Status	Years Monitored	Latitude	Longitude
	KTHA02	Pipers	Active	1987-2008, 2015-2020	47.71089	-122.37172
	0450	Sammamish	Inactive	1976-2008	47.75444	-122.24992
	0486	Sammamish	Active	1976-2020	47.66236	-122.12444
	0450CC	Sammamish	Active	2009-2020	47.73283	-122.14555
	0470	Swamp	Active	1972-1974, 1979-2020	47.75552	-122.23395
	BB470	Swamp	Active	1999-2008, 2015-2020	47.77975	-122.25097
	0434	Thornton	Active	1974, 1979- 2020	47.69631	-122.27664
	X630	Tibbetts	Active	1997 - 2008, 2013 - 2020	47.55400	-122.06955
	KTHA03	Venema	Active	1988-2008, 2013-2020	47.71106	-122.37178
	B499	Yarrow	Active	2017-2020	47.64381	-122.20561
	A687	Zackuse	Active	2019-2020	47.61230	-122.06850
9	C320	Covington	Active	1979-2008, 2013-2020	47.31230	-122.09658
	0321	Crisp	Active	1972-1973, 1977-1982, 1993-2008, 2013-2020	47.28836	-122.06714
	FF321	Crisp	Active	2017-2020	47.29075	-122.05682
	0309	Duwamish	Inactive	1970-2008	47.50070	-122.28817
	0311	Green	Active	1970-2008, 2015-2020	47.46547	-122.24794
	3106	Green	Active	1971-2020	47.46780	-122.24897
	A319	Green	Active	1976-2008, 2015-2020	47.30211	-122.17591
	B319	Green	Active	1972-1973, 1976-2020	47.28236	-122.05533
	D320	Jenkins	Active	1979-2020	47.34042	-122.12955
	G320	Little Soos	Active	1972-1973, 1977-2020	47.35797	-122.12570
	C370	Longfellow	Active	1979-1982, 1993-1999, 2001-2008, 2013-2020	47.56760	-122.36652
	J370	Longfellow	Inactive	1993-1999, 2001-2008	47.55386	-122.36695
	A315	Mill	Active	1979-2008, 2013-2020	47.36733	-122.24853
	0322	Newaukum	Active	1972-1973, 1978-2020	47.27408	-122.05620
	LSIN9	Ravensdale	Active	2015-2020	47.32622	-122.02811
	LSIN1	Rock	Active	2015-2020	47.32250	-122.02814
	A320	Soos	Active	1979-2020	47.31242	-122.16541

WRIA	Locator	Name	Status	Years Monitored	Latitude	Longitude
	0317	Springbrook/ Black River	Active	1979-2020	47.46586	-122.23264
10	BSE_1MUDMTNRD	Boise	Active	2015-2020	47.17608	-122.01843
	VA41A	Fisher	Active	2007-2012, 2014-2020	47.38399	-122.48139
	VA65A	Gorsuch	Active	2007-2010, 2013-2020	47.45363	-122.44464
	VA42A	Judd	Active	2007-2020	47.40328	-122.46871
	VA45A	Mileta	Active	2007-2012, 2014-2020	47.38839	-122.42775
	VA12A	Shinglemill	Active	2007-2012, 2014-2020	47.47830	-122.48174
	VA37A	Tahlequah	Active	2007, 2014- 2020	47.33458	-122.50860

Gaging Sites

WRIA	Site Code	Site Name	Water Years Monitored	Latitude	Longitude	Nearby Stream Program Locator
	12149000	Snoqualmie River Near Carnation, WA	1930-2020	47.66593	-121.925	SNQDUVALL Gage 23 km upstream
	12144500	Snoqualmie River Near Snoqualmie, WA	1903, 1927, 1959-2020	47.54510	-121.842	
	12141300	Middle Fork Snoqualmie River Near Tanner, WA	1962-1991, 1993-2020	47.48594	-121.648	MFK_SNQ Gage 16 km upstream
7	12142000	NF Snoqualmie River Near Snoqualmie Falls, WA	1930-1949, 1962-1989, 1991-2020	47.61483	-121.713	
	12143400	SF Snoqualmie River at Alice Creek Near Garcia, WA	1961-1989, 1991-2020	47.41511	-121.587	
	12144000	SF Snoqualmie River At North Bend, WA	1909, 1911-1912, 1914-1926, 1930-1938, 1946-1949, 1961-1973, 1985-2020	47.49288	-121.790	SFK_SNQ

WRIA	Site Code	Site Name	Water Years Monitored	Latitude	Longitude	Nearby Stream Program Locator
	12143600	SF Snoqualmie River at Edgewick, WA	1964-1965, 1984-2020	47.45260	-121.718	
	12143700	Boxley Creek Near Cedar Falls, WA	1946-2020	47.43260	-121.752	
	12143900	Boxley Creek Near Edgewick, WA	1982-2020	47.44871	-121.732	
	12145500	Raging River Near Fall City, WA	1946-1950, 1965-1972, 1975-2020	47.53982	-121.909	RAGING_MTH Gage 4 km upstream
	12148500	Tolt River Near Carnation, WA	1929-1931, 1938-2020	47.69566	-121.824	TOLT_MTH Gage 13 km upstream
	12148000	South Fork Tolt River Near Carnation, WA	1953-1963, 1970-2020	47.68927	-121.713	
	12148300	SF Tolt River BI Regulating Basin Nr Carnation, WA	1983-2020	47.69677	-121.787	
	12147600	South Fork Tolt River Near Index, WA	1961-1963, 1969-2020	47.70677	-121.600	
	21A	Griffin Creek	2002-2020	47.61632	-121.907	GRIFFIN Gage 2.1 km downstream
	22A	Harris Creek	2002-2020	47.69390	-121.901	HARRIS_1 Gage 2 km upstream
	05A	Cherry Creek	2002-2020	47.74260	-121.941	CHERRY_1 Gage 100 m upstream
	48c	Upper Patterson @ Fall City-Redmond Road	1991, 1996-2006, 2009-2019	47.63794	-122.006	
8	27a	Juanita Creek at Mouth (formerly USGS 12119600)	1964-1972, 1975-1989, 1993-1994, 1999-2001, 2005-2020	47.70767	-122.215	0446
	34a	Lyon Creek near Mouth in	1992-1995, 1999-2002,	47.75293	-122.278	0430

WRIA	Site Code	Site Name	Water Years Monitored	Latitude	Longitude	Nearby Stream Program Locator
		Lake Forest Park	2005, 2008-2020			
	35c	McAleer @ Mouth	1992-2020	47.75178	-122.281	A432
	37a	May Creek @ Mouth (formerly USGS 12120500)	1965-1971, 1990-2020	47.52993	-122.201	0444 Gage 500 ft upstream
	58A	Thornton Creek near Mouth, STA046, USGS 1212800 data before 2013	1946, 1962-1968, 1997-2020	47.69624	-122.277	0434
	16b	O.O.Denny Creek	1996-2004, 2007-2019	47.70916	-122.250	
	COB_MCF	City of Bellevue Mercer Creek, former USGS 12120000	1956-2020	47.60305	-122.181	0444
	51T	Sammamish River at NE 116th ST, USGS gage 12125200 data before 2005	1966-2020	47.70302	-122.144	0450CC Gage 3.4 km upstream
	02a	Bear Creek @ Union Hill RD	1988-2020	47.67505	-122.107	0484 Gage 650 m upstream
	02e	Bear Creek at 133rd ST NE, near Redmond	1995-2020	47.71768	-122.077	C484
	02g	Cottage Lake Creek at Avondale RD NE, Bear-Evans Watershed	2002-2020	47.7167	-122.088	N484
	18a	Evans Creek @ Union Hill Road	1988-2020	47.67507	-122.081	B484
	63a	Lewis Creek at West Lake Sammamish Parkway SE	2000-2008, 2014-2020	47.56377	-122.095	A617 Gage 800 m upstream
	15c	Laughing Jacobs Creek at E Lake Sammamish Pkwy	1992-2020	47.56538	-122.052	A670
	bl1	Beaver Lake 1	1998-2020	47.59737	-121.989	

WRIA	Site Code	Site Name	Water Years Monitored	Latitude	Longitude	Nearby Stream Program Locator
	bl2	Beaver Lake 2	1998-2020	47.59396	-121.998	
	12121600	Issaquah Creek Near Mouth Near Issaquah, WA	1964-2020	47.55232	-122.048	0631
	12120600	Issaquah Creek Near Hobart, WA	1987, 1989-2020	47.45732	-122.005	
	46a	Issaquah Creek, North Fork	1988-2020	47.54278	-122.034	0632 Gage 1 km upstream
	14b	East Fork Issaquah Creek @ NE Birch	2005-2020	47.5323	-122.030	
	12119000	Cedar River at Renton, WA	1946-2020	47.48260	-122.203	0438
	12114500	Cedar River Below Bear Creek Near Cedar Falls, WA	1946-1963, 1976-2020	47.34205	-121.549	
	12115000	Cedar River Near Cedar Falls, WA	1946-2020	47.37011	-121.625	
	12115500	Rex River Near Cedar Falls, WA	1946-2020	47.35066	-121.663	
	12115700	Boulder Creek Near Cedar Falls, WA	1984-2000, 2002-2020	47.36622	-121.693	
	12116100	Canyon Creek Near Cedar Falls, WA	1946-2020	47.41955	-121.766	
	12116400	Cedar River at Powerplant at Cedar Falls, WA	2002-2020	47.41871	-121.781	
	12116500	Cedar River at Cedar Falls, WA	1915-2020	47.41705	-121.792	
	12117000	Taylor Creek Near Selleck, WA	1957-2020	47.38649	-121.846	
	12117500	Cedar River Near Landsburg, WA	1897-1898, 1902-2020	47.39371	-121.955	
	31d	Madsen Creek above Sedimentation Pond	1989, 1992-1998, 2002-2020	47.46248	-122.143	
	12117600	Cedar River Below Diversion	1993-2020	47.37955	-121.983	

WRIA	Site Code	Site Name	Water Years Monitored	Latitude	Longitude	Nearby Stream Program Locator
		Near Landsburg, WA				
	12118400	Rock Creek at Highway 516 Near Ravensdale, WA	1957-1962, 2002-2020	47.36232	-122.011	
	12118500	Rock Creek Near Maple Valley, WA	1946-1952, 1954-1973, 2002, 2004-2020	47.37982	-122.017	
9	12113000	Green River Near Auburn, WA	1937-2020	47.31232	-122.204	A319 Gage 3.5 km downstream
	12106700	Green River at Purification Plant Near Palmer, WA	1964-2020	47.30510	-121.851	
	12113346	Springbrook Creek at Orillia, WA	1994-2020	47.43121	-122.228	
	12113347	Mill Creek at Earthworks Park at Kent, WA	1995-2007, 2009-2020	47.38316	-122.225	
	12113349	Mill Creek Near Mouth at Orillia, WA	1995-2020	47.43010	-122.243	
	12112600	Big Soos Creek Above Hatchery Near Auburn, WA	1961-2020	47.31232	-122.165	A320
	09a	Covington Creek near Mouth, Soos CR Watershed	1989-2020	47.31258	-122.108	C320 Gage 1.4 km downstream
	26a	Jenkins Creek near Mouth - Soos Creek Watershed	1989-2020	47.34039	-122.129	D320
	54h	Soosette Creek Above SR 18	1995-2020	47.33290	-122.156	
	54i	Little Soos Creek at SE 272nd	1996-2020	47.35824	-122.125	
	40d	Crisp Creek at Green River RD	1995-2020	47.28903	-122.067	0321
	41c	Mill Creek at Peaseley Canyon RD	1989-1991, 2005-2008, 2012-2020	47.30357	-122.265	

WRIA	Site Code	Site Name	Water Years Monitored	Latitude	Longitude	Nearby Stream Program Locator
	12108500	Newaukum Creek Near Black Diamond, WA	1945-1950, 1953-2020	47.27566	-122.060	0322
	11c	Des Moines Creek above Tye Regional Pond	1992-2020	47.4298	-122.305	
	11d	Des Moines Creek below SR 509, Des Moines (near mouth)	1992-2020	47.40591	-122.328	
	11f	Des Moines Tributary 0377 at Tye Weir	1997-2020	47.42461	-122.306	
	11g	NW Ponds Outlet Des Moines CR 0379	1999-2002, 2006-2019	47.4271	-122.311	
	11h	Bow Lake	1999-2001, 2005-2013, 2015, 2017-2020	47.43714	-122.295	
	42a	Miller Creek near Mouth	1991-2010, 2014-2020	47.44548	-122.352	
	42b	Miller Creek Detention Facility	1990-2020	47.46751	-122.318	
	42e	Walker Creek, 13th SW, in Normandy Park	1993-1996, 2000-2020	47.44497	-122.350	
10 & 15	12099600	Boise Creek at Buckley, WA	1978-1981, 1983-2020	47.17594	-122.018	BSE_1MUDMTNRD
	12097850	White River Below Clearwater River Nr Buckley, WA	1975-1976, 1983-1995, 2009-2020	47.14677	-121.860	
	12099200	White River Above Boise Creek at Buckley, WA	2004-2020	47.17389	-122.008	
	28a	Judd Creek, Vashon Island	2000-2020	47.40340	-122.469	VA42A
	43a	Shingle Mill Creek, Vashon Island	1999-2020	47.47830	-122.482	VA12A

WRIA	Site Code	Site Name	Water Years Monitored	Latitude	Longitude	Nearby Stream Program Locator
	65B	Fisher Creek at mouth, Vashon Island	2005-2020	47.38410	-122.482	VA41A
	65A	Tahlequah Creek at mouth, Vashon Island	2005-2020	47.33450	-122.509	VA37A

Appendix B: Site-Specific Analyses

Locator	Stream	Locator Status (2020)	Status			Trends
			Summary Statistics	WQI	WQA	
AMES_1	Ames Creek	Active	●	●	●	●
484	Bear	Active	●	●	●	●
C484	Bear	Active	●	●	●	●
J484	Bear	Inactive				●
BSE_1MUDMTNRD	Boise	Active	●	●	●	●
438	Cedar	Active	●	●	●	●
A438	Cedar	Active	●	●	●	●
CHERRY_1	Cherry Creek	Active	●	●	●	●
442	Coal	Active	●	●	●	●
A499	Cochran Springs	Active	●	●	●	●
N484	Cottage Lake Creek	Active	●	●	●	●
C320	Covington	Active	●	●	●	●
321	Crisp	Active	●	●	●	●
FF321	Crisp	Active	●	●	●	●
309	Duwamish	Inactive				●
A685	Ebright	Active	●	●	●	●
A690	Eden	Active	●	●	●	●
B484	Evans	Active	●	●	● ¹	●
S484	Evans	Active	●	●	● ¹	●
498	Fairweather	Inactive				●
VA41A	Fisher	Active	●	●	●	●
A456	Forbes	Active	●	●	NA ²	●
VA65A	Gorsuch	Active	●	●	●	●
311	Green	Active	●	●	● ¹	●
3106	Green	Active	●	●	● ¹	●
A319	Green	Active	●	●	●	●
B319	Green	Active	●	●	●	●
GRIFFIN	Griffin Creek	Active	●	●	●	●
HARRIS_1	Harris Creek	Active	●	●	●	●
A620	Idylwood	Active	●	●	●	●
631	Issaquah	Active	●	●	●	●
632	Issaquah	Active	●	●	●	●
A631	Issaquah	Active	●	●	●	NA
D320	Jenkins	Active	●	●	●	●
446	Juanita	Active	●	●	●	●
C446	Juanita	Inactive				●
VA42A	Judd	Active	●	●	●	●
444	Kelsey	Active	●	●	●	●
D444	Kelsey	Inactive				●
A670	Laughing Jacobs	Active	●	●	●	●
A617	Lewis	Active	●	●	●	●
478	Little Bear	Active	●	●	●	●
S478	Little Bear	Active	●	●	●	●
G320	Little Soos	Active	●	●	●	●
C370	Longfellow	Active	●	●	●	●
J370	Longfellow	Inactive				●

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Locator	Stream	Locator Status (2020)	Status			Trends
			Summary Statistics	WQI	WQA	
430	Lyon	Active	●	●	●	●
440	May	Active	●	●	●	●
A432	McAleer	Active	●	●	●	●
VA45A	Mileta	Active	●	●	●	●
A315	Mill	Active	●	●	●	●
322	Newaukum	Active	●	●	●	●
474	North	Active	●	●	●	●
D474	North	Active	●	●	●	●
PATTER_3	Patterson Creek	Active	●	●	●	●
A680	Pine Lake	Active	●	●	●	●
KSHZ06	Pipers	Active	●	●	● ¹	●
KTHA01	Pipers	Active	●	●		●
KTHA02	Pipers	Active	●	●		●
KTHA03	Venema	Active	●	●		●
RAGING_MTH	Raging River	Active	●	●	●	●
LSIN9	Ravensdale	Active	●	●	●	●
LSIN1	Rock	Active	●	●	●	●
450	Sammamish	Inactive				●
486	Sammamish	Active	●	●	●	●
0450CC	Sammamish	Active	●	●	●	●
VA12A	Shinglemill	Active	●	●	●	●
SKYKOMISH	Skykomish	Active	●	●	●	●
SNQDUVALL	Snoqualmie	Active	●	●	●	●
MFK_SNQ	Snoqualmie – Middle Fork	Active	●	●	●	●
NFK_SNQ	Snoqualmie – North Fork	Active	●	●	●	●
SFK_SNQ	Snoqualmie – South Fork	Active	●	●	●	●
A320	Soos	Active	●	●	●	●
317	Springbrook	Active	●	●	●	●
470	Swamp	Active	●	●	●	●
BB470	Swamp	Active	●	●	●	●
VA37A	Tahlequah	Active	●	●	●	●
434	Thornton	Active	●	●	●	●
X630	Tibbetts	Active	●	●	●	●
TOLT_MTH	Tolt River	Active	●	●	●	●
B499	Yarrow	Active	●	NA ³	●	NA ³
A687	Zackuse	Active	●	NA ³	NA ³	NA ³
Count:			75	73	68	79

¹All streams fall within the same assessment unit.

²Forbes Creek (A456) was not assessed in Ecology’s 2018 WQA, as monitoring did not begin until 2019.

³Yarrow Creek (B499) did not begin monitoring until 2017.

⁴Zackuse did not begin monitoring until 2019.

Appendix C: Summary Statistics by Site and Parameter

Temperature

Temperature summary statistics for all active sites monitored between water years 2016 and 2020.

Land Use	Locator	Stream/River	FOD [‡]	Mean (°C)	Median (°C)	Min. (°C)	Max. (°C)
Urban	0317	Springbrook	59/59	11.5	11.3	3.6	17.7
	0430	Lyon	59/59	11.5	11.0	3.8	17.5
	0434	Thornton	62/62	12.2	11.7	4.0	20.1
	0444	Kelsey	58/58	11.4	11.2	3.7	18.7
	0446	Juanita	130/130	13.5	14.3	4.0	18.1
	0470	Swamp	59/59	11.1	10.4	1.9	18.4
	0474	North	58/58	10.3	10.4	3.2	17.2
	A315	Mill	59/59	11.2	10.7	0.9	19.9
	A432	McAleer	59/59	11.5	11.8	4.2	16.8
	A456	Forbes	59/59	11.1	10.9	3.2	16.4
	A620	Idylwood	127/127	12.7	13.6	3.9	18.5
	BB470	Swamp	59/59	11.2	10.6	2.8	19.0
	C370	Longfellow	58/58	11.1	10.5	3.3	17.4
	D474	North	58/58	10.1	10.4	3.3	16.1
	KSHZ06	Pipers	58/58	11.3	11.3	5.4	15.4
	KTHA01	Pipers	69/69	11.8	11.8	7.7	15.6
	KTHA02	Pipers	58/58	11.7	11.6	6.1	15.6
KTHA03	Venema	58/58	11.0	11.1	5.3	14.5	
Suburban	0440	May	58/58	11.3	10.8	2.8	17.9
	0442	Coal	58/58	10.6	10.3	3.8	16.4
	0478	Little Bear	58/58	10.2	10.3	3.3	16.3
	0484	Bear	58/58	11.2	10.6	2.5	19.7
	0632	Issaquah	58/58	11.6	11.3	3.7	20.8
	A320	Soos	58/58	10.1	9.9	3.8	15.2
	A499	Cochran Springs	58/58	10.9	11.0	7.8	13.3
	A617	Lewis	58/58	11.2	10.7	4.3	19.5
	A670	Laughing Jacobs	58/58	10.0	10.5	3.2	15.2
	A680	Pine Lake	58/58	9.7	10.0	2.7	15.1
	A685	Ebright	58/58	9.1	9.6	4.2	11.5
	A687	Zackuse	19/19	9.4	9.6	5.5	11.9
	A690	Eden	58/58	9.5	9.2	5.6	13.4
B484	Evans	58/58	11.3	11.7	1.4	19.5	

[‡] FOD: frequency of detection

Land Use	Locator	Stream/River	FOD [‡]	Mean (°C)	Median (°C)	Min. (°C)	Max. (°C)
	B499	Yarrow	42/42	12.4	12.2	6.1	18.0
	C320	Covington	59/59	10.6	10.4	3.5	16.7
	C484	Bear	70/70	10.3	10.5	2.9	18.5
	D320	Jenkins	59/59	11.1	10.5	5.3	16.6
	G320	Little Soos	59/59	11.7	11.2	2.5	20.1
	N484	Cottage Lake Creek	70/70	9.9	10.0	3.1	16.5
	S478	Little Bear	58/58	9.1	9.4	2.9	14.3
	S484	Evans	58/58	9.5	10.2	3.1	13.8
	VA65A	Gorsuch	58/58	9.4	9.3	2.2	14.9
Rural	0321	Crisp	59/59	9.7	10.0	5.9	12.5
	0631	Issaquah	58/58	10.7	10.4	4.6	18.3
	X630	Tibbetts	58/58	11.9	11.2	4.7	21.2
	A631	Issaquah	58/58	10.3	10.1	4.4	17.3
	FF321	Crisp	73/73	9.2	9.3	5.4	12.6
	HARRIS_1	Harris Creek	59/59	9.5	10.6	2.6	14.3
	LSIN1	Rock	56/56	11.2	10.0	0.9	21.3
	LSIN9	Ravensdale	59/59	10.8	9.7	4.5	17.8
	PATTER_3	Patterson Creek	59/59	9.7	10.5	2.6	15.5
	VA12A	Shinglemill	58/58	9.1	9.3	3.1	12.8
	VA37A	Tahlequah	58/58	9.3	9.6	3.2	13.6
	VA42A	Judd	58/58	9.3	9.3	2.4	14.2
VA45A	Mileta	58/58	9.6	10.3	3.2	13.5	
Agricultural	0322	Newaukum	59/59	10.2	9.9	3.5	15.8
	AMES_1	Ames Creek	59/59	9.9	10.3	1.9	16.6
	BSE_1MUDMTNRD	Boise	59/59	9.7	8.8	2.3	17.3
	VA41A	Fisher	58/58	9.5	9.4	3.3	14.1
Forested	CHERRY_1	Cherry Creek	59/59	10.2	10.3	3.0	17.8
	GRIFFIN	Griffin Creek	59/59	9.5	10.0	2.4	17.4
	MFK_SNQ	Snoqualmie - Middle Fork	59/59	8.8	7.6	0.4	19.6
	NFK_SNQ	Snoqualmie - North Fork	59/59	8.7	7.9	2.9	16.0
	RAGING_MTH	Raging River	59/59	9.9	9.6	2.4	19.3
	SFK_SNQ	Snoqualmie - South Fork	59/59	8.7	8.0	4.2	16.5
	TOLT_MTH	Tolt River	59/59	9.1	9.1	3.4	16.0
Major River	0311	Green	59/59	11.1	10.9	3.4	19.8
	0438	Cedar	59/59	10.2	10.1	4.5	17.2
	0486	Sammamish	58/58	13.4	12.7	4.9	23.0
	3106	Green	59/59	11.1	11.0	2.8	19.8
	0450CC	Sammamish	58/58	12.6	12.1	4.9	21.2
	A319	Green	58/58	10.0	10.1	2.9	16.7
	A438	Cedar	58/58	11.0	10.6	5.2	18.4
	B319	Green	59/59	10.0	8.9	2.9	17.7
	SKYKOMISH	Skykomish	59/59	8.1	6.9	1.5	18.6
	SNQDUVALL	Snoqualmie	59/59	10.3	9.2	2.8	20.1

Dissolved Oxygen

Dissolved oxygen summary statistics for all active sites monitored between water years 2016 and 2020.

Land Use	Locator	Stream/River	FOD*	Mean (mg/L)	Median (mg/L)	Min. (mg/L)	Max. (mg/L)
Urban	0317	Springbrook	59/59	5.9	5.6	2.5	9.7
	0430	Lyon	59/59	10.7	10.6	9.1	12.7
	0434	Thornton	59/59	10.3	10.3	8.5	12.5
	0444	Kelsey	58/58	8.4	8.2	5.0	11.3
	0446	Juanita	59/59	10.5	10.4	8.9	12.6
	0470	Swamp	59/59	9.7	9.7	7.2	12.8
	0474	North	58/58	10.3	9.9	8.1	12.8
	A315	Mill	59/59	7.5	7.4	3.8	12.0
	A432	McAleer	59/59	10.7	10.5	9.3	12.6
	A456	Forbes	59/59	9.1	9.1	1.1	12.1
	A620	Idylwood	58/58	10.9	10.9	9.0	12.9
	BB470	Swamp	59/59	11.3	11.1	9.9	13.5
	C370	Longfellow	58/58	10.6	10.5	8.3	13.2
	D474	North	58/58	10.9	10.6	8.9	12.9
	KSHZ06	Pipers	58/58	10.8	10.6	9.7	12.5
	KTHA01	Pipers	50/50	10.7	10.6	9.8	12.2
	KTHA02	Pipers	58/58	10.8	10.7	9.8	12.2
	KTHA03	Venema	58/58	11.0	10.9	10.1	12.5
Suburban	0440	May	58/58	10.9	10.8	9.2	13.3
	0442	Coal	58/58	11.0	10.9	9.4	12.9
	0478	Little Bear	58/58	11.2	11.0	9.5	13.2
	0484	Bear	58/58	10.8	10.7	8.5	13.1
	0632	Issaquah	58/58	10.1	9.9	4.4	12.8
	A320	Soos	58/58	11.2	11.0	10.0	12.9
	A499	Cochran Springs	58/58	11.0	10.9	10.3	11.9
	A617	Lewis	58/58	11.1	10.9	9.1	13.1
	A670	Laughing Jacobs	58/58	10.8	10.5	9.2	13.4
	A680	Pine Lake	58/58	10.8	10.4	9.3	13.3
	A685	Ebright	58/58	11.4	11.1	10.6	13.0
	A687	Zackuse	19/19	11.1	11.1	10.4	12.4
	A690	Eden	58/58	11.4	11.4	10.3	12.7
	B484	Evans	58/58	7.7	7.4	5.1	10.3
	B499	Yarrow	42/42	9.9	9.6	7.9	12.3
	C320	Covington	59/59	10.5	10.2	8.8	12.8
	C484	Bear	70/70	11.0	10.7	8.9	13.3
	D320	Jenkins	59/59	10.7	10.7	9.8	12.1
G320	Little Soos	59/59	10.7	10.7	8.7	13.3	

* FOD: frequency of detection

Land Use	Locator	Stream/River	FOD*	Mean (mg/L)	Median (mg/L)	Min. (mg/L)	Max. (mg/L)
	N484	Cottage Lake Creek	70/70	10.6	10.5	8.3	12.5
	S478	Little Bear	58/58	11.2	11.0	9.8	13.2
	S484	Evans	58/58	7.5	7.2	3.6	11.1
	VA65A	Gorsuch	58/58	11.2	11.1	9.8	13.4
Rural	0321	Crisp	59/59	10.2	10.4	6.1	11.6
	0631	Issaquah	58/58	11.4	11.3	10.0	13.1
	X630	Tibbetts	58/58	9.9	10.0	6.1	13.0
	A631	Issaquah	58/58	11.3	11.1	10.0	12.9
	FF321	Crisp	73/73	11.4	11.4	10.8	12.4
	HARRIS_1	Harris Creek	59/59	11.3	11.1	10.0	13.4
	LSIN1	Rock	56/56	7.0	7.8	1.2	11.8
	LSIN9	Ravensdale	59/59	10.6	10.7	7.7	12.3
	PATTER_3	Patterson Creek	59/59	10.0	9.9	7.7	12.0
	VA12A	Shinglemill	58/58	11.3	11.2	10.4	13.2
	VA37A	Tahlequah	58/58	11.1	11.0	10.1	13.1
	VA42A	Judd	58/58	11.2	11.1	10.0	13.4
	VA45A	Mileta	58/58	9.0	9.7	2.7	13.0
	Agricultural	0322	Newaukum	59/59	11.2	11.1	9.9
AMES_1		Ames Creek	59/59	8.7	8.7	4.7	11.3
BSE_1MUDMTNRD		Boise	59/59	11.2	11.3	9.7	13.4
VA41A		Fisher	58/58	11.1	11.0	10.0	13.1
Forested	CHERRY_1	Cherry Creek	59/59	11.4	11.2	9.7	13.4
	GRIFFIN	Griffin Creek	59/59	11.4	11.3	9.7	13.6
	MFK_SNQ	Snoqualmie - Middle Fork	59/59	11.6	11.8	8.9	13.6
	NFK_SNQ	Snoqualmie - North Fork	59/59	11.3	11.7	8.3	13.2
	RAGING_MTH	Raging River	59/59	11.7	11.5	9.9	13.9
	SFK_SNQ	Snoqualmie - South Fork	59/59	11.0	11.4	9.1	12.3
	TOLT_MTH	Tolt River	59/59	11.8	11.7	10.3	13.9
Major River	0311	Green	59/59	10.1	10.4	7.4	12.1
	0438	Cedar	59/59	11.6	11.6	10.2	13.2
	0486	Sammamish	58/58	9.9	9.7	6.7	13.1
	3106	Green	59/59	10.1	10.3	7.3	12.4
	0450CC	Sammamish	58/58	9.5	9.2	6.1	12.0
	A319	Green	59/59	10.9	11.0	8.5	12.9
	A438	Cedar	58/58	11.3	11.3	9.6	12.7
	B319	Green	59/59	11.8	11.8	10.5	13.9
	SKYKOMISH	Skykomish	59/59	11.7	11.9	9.6	13.5
	SNQDUVALL	Snoqualmie	59/59	11.0	11.2	8.7	12.7

pH

pH summary statistics for all active sites monitored between water years 2016 and 2020.

Land Use	Locator	Stream/River	FOD*	Mean (SU)	Median (SU)	Min. (SU)	Max. (SU)
Urban	0317	Springbrook	59/59	6.98	6.98	6.72	7.23
	0430	Lyon	59/59	7.67	7.68	7.36	8.01
	0434	Thornton	59/59	7.67	7.67	7.27	8.05
	0444	Kelsey	58/58	7.30	7.31	6.94	7.97
	0446	Juanita	59/59	7.45	7.50	7.04	7.74
	0470	Swamp	59/59	7.37	7.37	7.06	7.61
	0474	North	58/58	7.48	7.49	7.02	7.80
	A315	Mill	59/59	7.11	7.09	6.71	7.57
	A432	McAleer	59/59	7.77	7.80	7.50	7.96
	A456	Forbes	59/59	7.39	7.39	6.40	8.14
	A620	Idylwood	58/58	7.62	7.65	6.93	8.01
	BB470	Swamp	59/59	7.89	7.87	7.19	8.69
	C370	Longfellow	58/58	7.64	7.67	7.08	7.93
	D474	North	58/58	7.56	7.54	6.97	7.98
	KSHZ06	Pipers	58/58	7.86	7.90	7.29	8.13
	KTHA01	Pipers	50/50	7.96	7.98	7.69	8.19
	KTHA02	Pipers	58/58	7.96	7.99	7.59	8.18
KTHA03	Venema	58/58	7.95	8.00	7.43	8.18	
Suburban	0440	May	58/58	7.75	7.78	6.97	8.18
	0442	Coal	58/58	8.03	8.11	7.33	8.40
	0478	Little Bear	58/58	7.62	7.61	7.15	8.06
	0484	Bear	58/58	7.47	7.40	6.77	8.56
	0632	Issaquah	58/58	7.36	7.34	6.97	7.85
	A320	Soos	58/58	7.62	7.63	7.28	7.86
	A499	Cochran Springs	58/58	7.98	8.01	7.45	8.12
	A617	Lewis	58/58	7.77	7.76	7.28	8.26
	A670	Laughing Jacobs	58/58	7.56	7.57	6.99	8.08
	A680	Pine Lake	58/58	7.49	7.46	7.06	7.80
	A685	Ebright	58/58	7.76	7.77	7.38	7.98
	A687	Zackuse	19/19	7.78	7.82	7.50	7.98
	A690	Eden	58/58	7.73	7.77	7.46	7.96
	B484	Evans	58/58	7.04	7.04	6.82	7.26
	B499	Yarrow	42/42	7.54	7.54	7.29	7.85
	C320	Covington	59/59	7.41	7.44	6.98	7.78
	C484	Bear	70/70	7.54	7.55	6.76	8.41
	D320	Jenkins	59/59	7.42	7.43	6.79	7.72
	G320	Little Soos	59/59	7.45	7.47	6.67	7.70
	N484	Cottage Lake Creek	70/70	7.43	7.41	6.99	7.88
S478	Little Bear	58/58	7.50	7.52	6.66	7.91	
S484	Evans	58/58	7.02	7.03	6.68	7.30	

* FOD: Frequency of Detection

Land Use	Locator	Stream/River	FOD*	Mean (SU)	Median (SU)	Min. (SU)	Max. (SU)
	VA65A	Gorsuch	58/58	7.60	7.64	6.91	7.92
Rural	0321	Crisp	59/59	7.38	7.38	6.82	7.67
	0631	Issaquah	58/58	7.58	7.49	7.04	8.55
	X630	Tibbetts	58/58	7.34	7.35	6.93	7.73
	A631	Issaquah	58/58	7.40	7.36	6.97	7.90
	FF321	Crisp	73/73	7.78	7.81	7.04	7.97
	HARRIS_1	Harris Creek	59/59	7.35	7.37	6.92	7.70
	LSIN1	Rock	56/56	7.32	7.31	6.87	7.60
	LSIN9	Ravensdale	59/59	7.51	7.53	6.92	7.90
	PATTER_3	Patterson Creek	59/59	7.18	7.15	6.54	7.71
	VA12A	Shinglemill	58/58	7.64	7.73	6.80	7.93
	VA37A	Tahlequah	58/58	7.35	7.41	6.24	7.76
	VA42A	Judd	58/58	7.59	7.65	6.66	7.89
	VA45A	Mileta	58/58	6.82	6.83	6.14	7.40
Agricultural	0322	Newaukum	59/59	7.77	7.78	7.07	8.05
	AMES_1	Ames Creek	59/59	6.81	6.72	6.26	7.46
	BSE_1MUDMTNRD	Boise	59/59	7.65	7.66	6.90	8.15
	VA41A	Fisher	58/58	7.46	7.50	6.58	7.77
Forested	CHERRY_1	Cherry Creek	59/59	7.41	7.35	6.83	8.69
	GRIFFIN	Griffin Creek	59/59	7.41	7.41	6.99	7.85
	MFK_SNQ	Snoqualmie - Middle Fork	59/59	7.11	7.13	6.43	7.81
	NFK_SNQ	Snoqualmie - North Fork	59/59	7.00	7.02	6.32	7.57
	RAGING_MTH	Raging River	59/59	7.51	7.42	6.73	8.77
	SFK_SNQ	Snoqualmie - South Fork	59/59	7.01	6.99	6.61	7.71
	TOLT_MTH	Tolt River	59/59	7.32	7.34	6.58	7.98
Major River	0311	Green	59/59	7.21	7.23	6.75	7.58
	0438	Cedar	59/59	7.57	7.47	7.02	8.66
	0486	Sammamish	58/58	7.66	7.65	7.12	8.60
	3106	Green	59/59	7.24	7.25	6.92	7.57
	0450CC	Sammamish	58/58	7.21	7.20	6.98	7.44
	A319	Green	59/59	7.36	7.36	6.95	7.76
	A438	Cedar	58/58	7.56	7.53	7.10	8.33
	B319	Green	59/59	7.75	7.74	7.15	8.61
	SKYKOMISH	Skykomish	59/59	7.21	7.25	6.65	7.71
	SNQDUVALL	Snoqualmie	59/59	7.10	7.07	6.54	7.58

Alkalinity

Alkalinity summary statistics for all active sites monitored between water years 2016 and 2020.

Land Use	Locator	Stream/River	FOD*	Mean (mg CaCO ₃ /L)	Median (mg CaCO ₃ /L)	Min. (mg CaCO ₃ /L)	Max. (mg CaCO ₃ /L)
Urban	0317	Springbrook	57/57	91.7	88.3	19.9	146.0
	0430	Lyon	57/57	74.9	78.6	26.7	100.0
	0434	Thornton	57/57	73.3	76.1	32.3	98.0
	0444	Kelsey	56/56	77.4	76.4	25.0	112.0
	0446	Juanita	57/57	66	69.0	28.0	89.3
	0470	Swamp	57/57	68.5	69.4	25.5	98.9
	0474	North	56/56	65	62.0	27.5	89.5
	A315	Mill	57/57	84	81.1	14.3	132.0
	A432	McAlear	57/57	70	69.3	43.4	90.9
	A456	Forbes	57/57	76.1	78.3	32.7	112.0
	A620	Idylwood	56/56	86	88.2	19.5	127.0
	BB470	Swamp	57/57	63.1	64.5	23.8	91.0
	C370	Longfellow	56/56	96.2	103.0	37.5	124.0
	D474	North	56/56	64.4	61.9	27.5	92.1
	KSHZ06	Pipers	56/56	82.2	89.1	34.6	99.1
	KTHA01	Pipers	48/48	87.9	92.1	46.9	101.0
	KTHA02	Pipers	56/56	84.9	91.3	44.4	101.0
KTHA03	Venema	56/56	79.7	86.7	28.4	97.0	
Suburban	0440	May	57/57	59.1	61.2	20.3	80.8
	0442	Coal	56/56	149	131.0	25.1	262.0
	0478	Little Bear	56/56	56	54.9	24.4	76.1
	0484	Bear	56/56	51.2	49.8	23.3	73.1
	0632	Issaquah	56/56	61.7	57.6	22.6	105.0
	A320	Soos	56/56	47.7	47.9	33.6	59.4
	A499	Cochran Springs	56/56	84.6	88.0	36.6	93.6
	A617	Lewis	56/56	48.4	48.1	18.2	66.6
	A670	Laughing Jacobs	56/56	64.4	65.7	22.3	99.0
	A680	Pine Lake	56/56	55.8	59.7	14.7	86.4
	A685	Ebright	56/56	62.5	67.1	28.9	77.1
	A687	Zackuse	18/18	69.2	69.7	52.4	78.1
	A690	Eden	56/56	45.6	51.4	18.9	61.0
	B484	Evans	56/56	60.3	61.0	27.3	87.6
	B499	Yarrow	40/40	84.4	90.0	48.0	105.0
	C320	Covington	57/57	45.4	45.7	35.9	56.1
	C484	Bear	56/56	47.2	46.7	20.8	67.6
D320	Jenkins	57/57	45.5	45.8	19.2	58.7	
G320	Little Soos	57/57	18.5	18.4	7.9	23.6	

* FOD: Frequency of Detection

Land Use	Locator	Stream/River	FOD*	Mean (mg CaCO3/L)	Median (mg CaCO3/L)	Min. (mg CaCO3/L)	Max. (mg CaCO3/L)
	N484	Cottage Lake Creek	56/56	52.9	55.2	27.4	69.7
	S478	Little Bear	56/56	49.4	50.5	19.6	67.8
	S484	Evans	56/56	49.9	49.4	21.6	75.1
	VA65A	Gorsuch	56/56	56.9	66.7	11.7	79.4
Rural	0321	Crisp	57/57	49.1	49.7	14.9	61.1
	0631	Issaquah	56/56	43.2	46.2	15.0	62.4
	X630	Tibbetts	56/56	68.9	58.2	18.1	126.0
	A631	Issaquah	56/56	45.3	41.3	15.7	77.5
	FF321	Crisp	86/86	46.4	46.2	10.1	61.5
	HARRIS_1	Harris Creek	58/58	26.4	20.6	9.7	45.1
	LSIN1	Rock	54/54	135	116.0	32.3	274.0
	LSIN9	Ravensdale	57/57	40.8	41.1	32.0	46.9
	PATTER_3	Patterson Creek	58/58	53.1	49.9	12.6	80.2
	VA12A	Shinglemill	56/56	58	67.8	7.2	81.4
	VA37A	Tahlequah	56/56	39.8	44.2	4.4	55.7
	VA42A	Judd	56/56	48.6	55.2	8.3	68.1
	VA45A	Mileta	56/56	29.7	28.2	2.2	91.5
Agricultural	0322	Newaukum	57/57	47.9	49.2	16.0	60.8
	AMES_1	Ames Creek	58/58	53	54.1	5.0	71.8
	BSE_1MUDMTNRD	Boise	57/57	27	26.5	9.2	39.0
	VA41A	Fisher	56/56	44.8	47.4	8.0	59.0
Forested	CHERRY_1	Cherry Creek	58/58	20.5	15.1	7.9	42.2
	GRIFFIN	Griffin Creek	58/58	24.4	18.3	10.5	40.7
	MFK_SNQ	Snoqualmie - Middle Fork	58/58	7.06	6.4	3.0	13.7
	NFK_SNQ	Snoqualmie - North Fork	58/58	13.4	11.9	4.0	27.3
	RAGING_MTH	Raging River	58/58	17.9	14.0	5.6	39.2
	SFK_SNQ	Snoqualmie - South Fork	58/58	21.2	19.7	4.3	39.9
	TOLT_MTH	Tolt River	58/58	14.2	14.8	6.3	18.9
Major River	0311	Green	57/57	35	36.0	13.5	51.3
	0438	Cedar	57/57	27.7	27.3	10.0	41.0
	0486	Sammamish	56/56	41.7	41.6	36.9	46.0
	3106	Green	57/57	35.1	35.9	13.9	51.7
	0450CC	Sammamish	56/56	48.6	46.1	29.9	66.7
	A319	Green	57/57	25.4	25.2	12.1	35.4
	A438	Cedar	56/56	25.3	25.0	13.9	36.8
	B319	Green	57/57	21.3	22.2	10.7	29.2
	SKYKOMISH	Skykomish	58/58	12.5	12.3	7.8	16.5
	SNQDUVALL	Snoqualmie	58/58	16.3	15.1	4.5	32.3

Conductance

Conductance summary statistics for all active sites monitored between water years 2016 and 2020 ($\mu\text{mhos/cm}$).

Land Use	Locator	Stream/River	FOD*	Mean ($\mu\text{mhos/cm}$)	Median ($\mu\text{mhos/cm}$)	Min. ($\mu\text{mhos/cm}$)	Max. ($\mu\text{mhos/cm}$)
Urban	0317	Springbrook	59/59	244.0	249.0	67.0	387.0
	0430	Lyon	59/59	201.0	217.0	86.9	251.0
	0434	Thornton	59/59	214.0	232.0	97.4	286.0
	0444	Kelsey	58/58	205.0	216.0	78.6	333.0
	0446	Juanita	59/59	184.0	195.0	85.4	226.0
	0470	Swamp	59/59	183.0	188.0	99.1	231.0
	0474	North	58/58	175.0	173.0	98.2	225.0
	A315	Mill	59/59	211.0	215.0	46.2	380.0
	A432	McAleer	59/59	198.0	201.0	124.0	244.0
	A456	Forbes	59/59	191.0	197.0	92.0	257.0
	A620	Idylwood	58/58	219.0	236.0	54.8	340.0
	BB470	Swamp	59/59	177.0	177.0	94.3	227.0
	C370	Longfellow	57/57	259.0	284.0	99.9	322.0
	D474	North	58/58	173.0	172.0	89.7	225.0
	KSHZ06	Pipers	58/58	232.0	253.0	101.0	262.0
	KTHA01	Pipers	50/50	246.0	257.0	158.0	272.0
	KTHA02	Pipers	58/58	239.0	257.0	123.0	274.0
	KTHA03	Venema	58/58	223.0	239.0	91.9	250.0
Suburban	0440	May	58/58	163.0	170.0	78.4	208.0
	0442	Coal	58/58	423.0	388.0	110.0	696.0
	0478	Little Bear	58/58	157.0	159.0	103.0	187.0
	0484	Bear	58/58	133.0	134.0	84.9	169.0
	0632	Issaquah	58/58	165.0	162.0	76.2	243.0
	A320	Soos	58/58	129.0	129.0	95.3	149.0
	A499	Cochran Springs	58/58	231.0	239.0	108.0	254.0
	A617	Lewis	58/58	170.0	169.0	74.4	363.0
	A670	Laughing Jacobs	58/58	164.0	159.0	84.0	222.0
	A680	Pine Lake	58/58	143.0	150.0	70.8	195.0
	A685	Ebright	58/58	162.0	173.0	97.5	191.0
	A687	Zackuse	19/19	181.0	185.0	158.0	192.0
	A690	Eden	58/58	143.0	150.0	94.7	172.0
	B484	Evans	58/58	144.0	141.0	71.3	198.0
	B499	Yarrow	42/42	257.0	258.0	180.0	405.0
	C320	Covington	59/59	121.0	122.0	101.0	140.0
	C484	Bear	70/70	124.0	126.0	77.1	160.0
	D320	Jenkins	59/59	126.0	128.0	74.9	149.0
G320	Little Soos	59/59	59.9	59.6	49.2	80.4	

* FOD: Frequency of Detection

Land Use	Locator	Stream/River	FOD*	Mean (µmhos /cm)	Median (µmhos /cm)	Min. (µmhos /cm)	Max. (µmhos /cm)
	N484	Cottage Lake Creek	70/70	137.0	141.0	94.2	178.0
	S478	Little Bear	58/58	137.0	141.0	90.3	166.0
	S484	Evans	58/58	126.0	125.0	74.9	176.0
	VA65A	Gorsuch	58/58	151.0	176.0	59.9	194.0
Rural	0321	Crisp	59/59	128.0	129.0	88.6	157.0
	0631	Issaquah	58/58	114.0	115.0	56.9	155.0
	X630	Tibbetts	58/58	223.0	211.0	79.0	374.0
	A631	Issaquah	58/58	117.0	112.0	59.9	183.0
	FF321	Crisp	73/73	117.0	117.0	54.1	146.0
	HARRIS_1	Harris Creek	59/59	72.1	61.2	37.7	111.0
	LSIN1	Rock	56/56	294.0	269.0	79.8	586.0
	LSIN9	Ravensdale	59/59	110.0	108.0	95.3	127.0
	PATTER_3	Patterson Creek	59/59	132.0	125.0	48.9	187.0
	VA12A	Shinglemill	58/58	153.0	177.0	34.9	200.0
	VA37A	Tahlequah	58/58	124.0	136.0	56.8	151.0
	VA42A	Judd	58/58	133.0	145.0	59.1	170.0
VA45A	Mileta	58/58	112.0	112.0	57.4	184.0	
Agricultural	0322	Newaukum	59/59	138.0	140.0	72.4	167.0
	AMES_1	Ames Creek	59/59	134.0	146.0	21.5	176.0
	BSE_1MUDMTNRD	Boise	59/59	73.5	71.8	46.2	105.0
	VA41A	Fisher	58/58	125.0	131.0	58.7	151.0
Forested	CHERRY_1	Cherry Creek	59/59	56.7	46.0	31.3	101.0
	GRIFFIN	Griffin Creek	59/59	61.4	53.4	33.7	96.2
	MFK_SNQ	Snoqualmie - Middle Fork	59/59	22.7	20.9	12.5	41.3
	NFK_SNQ	Snoqualmie - North Fork	59/59	36.1	34.0	15.9	68.9
	RAGING_MTH	Raging River	59/59	57.6	50.2	29.6	103.0
	SFK_SNQ	Snoqualmie - South Fork	59/59	64.3	66.0	21.1	102.0
	TOLT_MTH	Tolt River	59/59	42.0	41.7	20.6	104.0
Major River	0311	Green	59/59	105.0	104.0	47.3	164.0
	0438	Cedar	59/59	70.1	69.2	36.7	103.0
	0486	Sammamish	58/58	112.0	110.0	102.0	133.0
	3106	Green	59/59	105.0	103.0	47.4	159.0
	0450CC	Sammamish	58/58	126.0	125.0	86.4	168.0
	A319	Green	59/59	65.1	66.9	41.6	84.7
	A438	Cedar	58/58	62.7	62.0	38.2	83.7
	B319	Green	59/59	56.4	57.7	33.6	111.0
	SKYKOMISH	Skykomish	59/59	33.8	34.1	22.2	44.0
	SNQDUVALL	Snoqualmie	59/59	46.5	46.3	19.3	79.8

Nitrate+Nitrite Nitrogen

Nitrate+nitrite nitrogen summary statistics for all active sites monitored between water years 2016 and 2020.

Land Use	Locator	Stream/River	FOD*	Mean (µg/L)	Median (µg/L)	Min. (µg/L)	Max. (µg/L)
Urban	0317	Springbrook	58/58	425	409	175	742
	0430	Lyon	58/58	888	875	419	1940
	0434	Thornton	58/58	817	837	412	1480
	0444	Kelsey	57/57	266	221	35	680
	0446	Juanita	58/58	881	879	273	1290
	0470	Swamp	58/58	519	443	171	1430
	0474	North	57/57	684	709	339	937
	A315	Mill	58/58	297	297	13	691
	A432	McAleeer	58/58	1090	1030	581	1600
	A456	Forbes	58/58	380	345	14	874
	A620	Idylwood	57/57	487	445	98	1170
	BB470	Swamp	58/58	709	717	260	1520
	C370	Longfellow	57/57	875	868	373	1880
	D474	North	57/57	731	766	357	1020
	KSHZ06	Pipers	57/57	1430	1450	614	2900
	KTHA01	Pipers	69/69	1470	1490	788	1760
	KTHA02	Pipers	57/57	1460	1500	781	2830
KTHA03	Venema	57/57	1270	1280	621	2740	
Suburban	0440	May	58/58	876	810	415	1660
	0442	Coal	57/57	543	387	93	2310
	0478	Little Bear	57/57	734	642	383	1870
	0484	Bear	57/57	486	423	194	1090
	0632	Issaquah	57/57	164	125	15	602
	A320	Soos	57/57	792	780	520	1250
	A499	Cochran Springs	57/57	2090	2190	885	2390
	A617	Lewis	57/57	630	603	289	1270
	A670	Laughing Jacobs	57/57	806	730	239	1610
	A680	Pine Lake	57/57	332	284	103	1680
	A685	Ebright	57/57	1160	1320	481	1620
	A687	Zackuse	18/18	1410	1400	1240	1570
	A690	Eden	57/57	1890	2030	954	2800
	B484	Evans	57/57	262	259	92	462
	B499	Yarrow	41/41	686	670	428	964
	C320	Covington	58/58	697	648	306	1530
	C484	Bear	69/69	648	588	262	1360
	D320	Jenkins	58/58	916	894	407	1520
	G320	Little Soos	58/58	245	95	18	1660
	N484	Cottage Lake Creek	69/69	665	669	172	1060
S478	Little Bear	57/57	899	819	562	1980	

* FOD: Frequency of Detection

Land Use	Locator	Stream/River	FOD*	Mean (µg/L)	Median (µg/L)	Min. (µg/L)	Max. (µg/L)
	S484	Evans	57/57	332	309	30	646
	VA65A	Gorsuch	57/57	1310	1270	539	2480
Rural	0321	Crisp	58/58	796	783	561	1700
	0631	Issaquah	57/57	639	614	351	1260
	X630	Tibbetts	57/57	786	679	28	2010
	A631	Issaquah	57/57	697	669	368	1400
	FF321	Crisp	87/87	675	651	464	2090
	HARRIS_1	Harris Creek	58/58	532	503	207	851
	LSIN1	Rock	33/55	140	19	10	1070
	LSIN9	Ravensdale	58/58	370	292	33	1100
	PATTER_3	Patterson Creek	58/58	642	624	371	1370
	VA12A	Shinglemill	57/57	866	847	415	2050
	VA37A	Tahlequah	57/57	1440	1410	855	2930
	VA42A	Judd	57/57	864	837	432	1960
	VA45A	Mileta	57/57	1970	974	107	7490
Agricultural	0322	Newaukum	58/58	1420	1390	739	2500
	AMES_1	Ames Creek	58/58	454	454	216	948
	BSE_1MUDMTNR D	Boise	58/58	536	473	127	1400
	VA41A	Fisher	57/57	880	784	464	2180
Forested	CHERRY_1	Cherry Creek	58/58	429	341	119	1040
	GRIFFIN	Griffin Creek	58/58	371	292	148	1030
	MFK_SNQ	Snoqualmie - Middle Fork	58/58	104	94	11	267
	NFK_SNQ	Snoqualmie - North Fork	58/58	233	229	102	428
	RAGING_MTH	Raging River	57/58	481	403	31	1700
	SFK_SNQ	Snoqualmie - South Fork	57/57	295	281	117	821
	TOLT_MTH	Tolt River	58/58	229	209	100	432
Major River	0311	Green	58/58	363	318	156	811
	0438	Cedar	58/58	221	184	63	664
	0486	Sammamish	56/57	118	74	11	304
	3106	Green	58/58	363	321	150	814
	0450CC	Sammamish	57/57	246	240	30	640
	A319	Green	58/58	288	228	102	738
	A438	Cedar	57/57	188	157	92	429
	B319	Green	58/58	204	169	62	521
	SKYKOMISH	Skykomish	58/58	77	53	13	315
	SNQDUVALL	Snoqualmie	58/58	222	203	96	461

Ammonia Nitrogen

Ammonia nitrogen summary statistics for all active sites monitored between water years 2016 and 2020.

Land Use	Locator	Stream/River	FOD*	Mean (µg/L)	Median (µg/L)	Min. (µg/L)	Max. (µg/L)
Urban	0317	Springbrook	58/58	162.0	138.0	20.0	460.0
	0430	Lyon	58/58	14.3	13.1	5.2	28.6
	0434	Thornton	58/58	29.6	25.7	7.6	86.5
	0444	Kelsey	57/57	20.9	19.5	7.7	38.6
	0446	Juanita	58/58	20.3	18.5	6.8	45.7
	0470	Swamp	58/58	22.2	20.0	7.5	59.8
	0474	North	57/57	31.0	25.2	13.6	76.0
	A315	Mill	58/58	74.3	44.9	9.4	420.0
	A432	McAleer	58/58	22.6	14.8	8.4	87.0
	A456	Forbes	58/58	51.3	31.3	5.5	559.0
	A620	Idylwood	57/57	25.8	18.0	3.8	388.0
	BB470	Swamp	58/58	9.2	7.5	2.7	24.1
	C370	Longfellow	57/57	42.0	31.8	7.5	564.0
	D474	North	57/57	31.4	26.0	9.9	80.7
	KSHZ06	Pipers	57/57	17.9	10.8	4.7	145.0
	KTHA01	Pipers	69/69	10.3	9.0	2.2	53.4
	KTHA02	Pipers	57/57	20.4	9.3	3.3	209.0
KTHA03	Venema	57/57	7.7	5.2	2.6	32.2	
Suburban	0440	May	58/58	15.8	10.6	3.3	90.5
	0442	Coal	57/57	11.0	8.7	2.2	33.7
	0478	Little Bear	57/57	19.4	17.1	5.2	54.3
	0484	Bear	57/57	14.2	11.2	6.0	46.8
	0632	Issaquah	57/57	14.6	13.6	4.7	45.8
	A320	Soos	57/57	7.5	7.1	3.7	17.4
	A499	Cochran Springs	57/57	10.8	9.2	3.9	35.1
	A617	Lewis	56/57	10.2	6.8	2.3	49.6
	A670	Laughing Jacobs	57/57	18.7	14.6	4.0	106.0
	A680	Pine Lake	57/57	12.2	11.9	5.5	21.6
	A685	Ebright	57/57	6.1	5.6	2.6	13.4
	A687	Zackuse	18/18	9.2	8.9	6.8	13.9
	A690	Eden	55/57	5.0	3.9	2.0	42.2
	B484	Evans	57/57	14.9	13.4	6.1	32.3
	B499	Yarrow	41/41	25.3	24.2	11.6	62.4
	C320	Covington	58/58	7.5	6.9	2.3	23.0
	C484	Bear	69/69	15.7	13.0	5.4	107.0
D320	Jenkins	58/58	6.7	5.5	3.2	33.5	
G320	Little Soos	58/58	7.8	6.6	3.0	23.4	

* FOD: Frequency of Detection

Land Use	Locator	Stream/River	FOD*	Mean (µg/L)	Median (µg/L)	Min. (µg/L)	Max. (µg/L)
	N484	Cottage Lake Creek	69/69	19.3	13.8	5.6	68.2
	S478	Little Bear	57/57	9.6	8.4	3.2	26.5
	S484	Evans	57/57	12.0	11.6	4.3	21.3
	VA65A	Gorsuch	56/56	8.6	7.6	4.7	23.6
Rural	0321	Crisp	57/57	122.0	92.0	31.1	526.0
	0631	Issaquah	57/57	16.8	13.3	7.4	70.4
	X630	Tibbetts	57/57	73.9	59.4	23.3	192.0
	A631	Issaquah	57/57	9.1	8.2	4.2	25.7
	FF321	Crisp	81/86	4.0	3.4	2.0	25.3
	HARRIS_1	Harris Creek	58/58	5.2	5.0	2.3	14.0
	LSIN1	Rock	55/55	20.6	15.7	4.8	179.0
	LSIN9	Ravensdale	58/58	5.0	4.5	2.6	22.7
	PATTER_3	Patterson Creek	58/58	16.9	15.3	3.5	44.8
	VA12A	Shinglemill	57/57	8.0	7.1	3.8	19.1
	VA37A	Tahlequah	57/57	15.9	15.6	7.7	31.2
	VA42A	Judd	57/57	11.3	9.9	5.4	23.8
	VA45A	Mileta	57/57	48.4	6.6	3.2	2300.0
Agricultural	0322	Newaukum	58/58	57.9	11.2	4.3	1520.0
	AMES_1	Ames Creek	58/58	58.6	46.9	9.9	213.0
	BSE_1MUDMTNRD	Boise	58/58	57.6	10.0	4.2	1510.0
	VA41A	Fisher	57/57	11.2	10.7	4.2	36.5
Forested	CHERRY_1	Cherry Creek	57/58	5.2	4.8	2.1	11.8
	GRIFFIN	Griffin Creek	58/58	4.9	4.6	2.1	10.1
	MFK_SNQ	Snoqualmie - Middle Fork	53/58	4.2	3.4	2.1	15.6
	NFK_SNQ	Snoqualmie - North Fork	37/58	3.0	2.9	2.0	4.4
	RAGING_MTH	Raging River	54/58	5.5	3.8	2.0	23.8
	SFK_SNQ	Snoqualmie - South Fork	57/58	34.5	8.7	2.7	303.0
	TOLT_MTH	Tolt River	51/58	3.7	3.2	2.0	13.9
Major River	0311	Green	58/58	36.0	30.5	5.2	124.0
	0438	Cedar	58/58	6.7	5.8	2.8	31.9
	0486	Sammamish	57/57	9.5	8.2	3.8	26.5
	3106	Green	58/58	35.2	29.6	7.4	125.0
	0450CC	Sammamish	57/57	17.3	15.8	5.8	52.3
	A319	Green	58/58	14.4	9.5	4.0	110.0
	A438	Cedar	57/57	6.1	5.8	2.8	13.6
	B319	Green	57/58	6.6	4.6	2.0	43.1
	SKYKOMISH	Skykomish	41/58	2.9	2.7	2.0	5.5
	SNQDUVALL	Snoqualmie	58/58	7.0	6.0	3.3	23.1

Total Nitrogen

Total nitrogen summary statistics for all active sites monitored between water years 2016 and 2020.

Land Use	Locator	Stream/River	FOD*	Mean (µg/L)	Median (µg/L)	Min. (µg/L)	Max. (µg/L)
Urban	0317	Springbrook	57/57	882	897	562	1320
	0430	Lyon	57/57	1160	1070	770	2390
	0434	Thornton	57/57	1110	1120	764	1860
	0444	Kelsey	56/56	569	550	278	951
	0446	Juanita	57/57	1130	1140	663	1650
	0470	Swamp	57/57	840	783	423	1830
	0474	North	56/56	1020	1010	692	1390
	A315	Mill	57/57	816	854	392	1250
	A432	McAleer	57/57	1380	1340	950	1830
	A456	Forbes	57/57	770	750	433	2320
	A620	Idylwood	56/56	690	625	326	1300
	BB470	Swamp	57/57	1010	986	649	1920
	C370	Longfellow	56/56	1240	1240	696	3140
	D474	North	56/56	1060	1080	730	1480
	KSHZ06	Pipers	56/56	1670	1650	1110	3250
	KTHA01	Pipers	48/48	1630	1660	1220	1960
	KTHA02	Pipers	56/56	1700	1680	1170	3290
KTHA03	Venema	56/56	1440	1420	1030	3170	
Suburban	0440	May	57/57	1160	1120	720	2410
	0442	Coal	56/56	728	597	200	3080
	0478	Little Bear	56/56	1050	950	604	2370
	0484	Bear	56/56	817	772	430	1520
	0632	Issaquah	56/56	412	379	215	766
	A320	Soos	56/56	1000	974	765	1470
	A499	Cochran Springs	56/56	2260	2300	1080	3300
	A617	Lewis	56/56	820	774	344	2390
	A670	Laughing Jacobs	56/56	1100	1020	576	2160
	A680	Pine Lake	56/56	693	679	301	2380
	A685	Ebright	56/56	1350	1420	774	1880
	A687	Zackuse	18/18	1490	1450	1330	1720
	A690	Eden	56/56	2040	2130	1040	3040
	B484	Evans	56/56	619	625	428	867
	B499	Yarrow	40/40	965	946	603	2160
	C320	Covington	57/57	860	817	487	1730
	C484	Bear	68/68	963	893	441	1790
	D320	Jenkins	57/57	1120	1140	572	1850
	G320	Little Soos	57/57	490	396	131	2310
	N484	Cottage Lake Creek	68/68	1020	1030	547	1380

* FOD: Frequency of Detection

Land Use	Locator	Stream/River	FOD*	Mean (µg/L)	Median (µg/L)	Min. (µg/L)	Max. (µg/L)
	S478	Little Bear	56/56	1220	1130	787	2480
	S484	Evans	56/56	644	607	390	1050
	VA65A	Gorsuch	56/56	1580	1510	982	2660
Rural	0321	Crisp	57/57	1120	1020	801	2610
	0631	Issaquah	56/56	821	800	479	1850
	X630	Tibbetts	56/56	1080	830	286	2410
	A631	Issaquah	56/56	850	809	482	1820
	FF321	Crisp	86/86	784	732	531	3640
	HARRIS_1	Harris Creek	58/58	730	718	457	1120
	LSIN1	Rock	54/54	626	576	360	1430
	LSIN9	Ravensdale	57/57	491	429	128	1320
	PATTER_3	Patterson Creek	58/58	952	896	719	1770
	VA12A	Shinglemill	56/56	1090	955	665	3410
	VA37A	Tahlequah	56/56	1830	1700	1240	6270
	VA42A	Judd	56/56	1200	1130	720	3290
	VA45A	Mileta	56/56	2470	1400	488	8520
	Agricultural	0322	Newaukum	57/57	1930	1790	1060
AMES_1		Ames Creek	58/58	956	935	469	1860
BSE_1MUDMTNRD		Boise	57/57	804	742	219	3000
VA41A		Fisher	56/56	1200	1050	668	4400
Forested	CHERRY_1	Cherry Creek	58/58	555	453	243	1280
	GRIFFIN	Griffin Creek	58/58	529	442	270	1220
	MFK_SNQ	Snoqualmie - Middle Fork	58/58	165	126	50	615
	NFK_SNQ	Snoqualmie - North Fork	58/58	292	292	140	459
	RAGING_MTH	Raging River	58/58	585	456	81	1850
	SFK_SNQ	Snoqualmie - South Fork	58/58	398	387	159	862
	TOLT_MTH	Tolt River	58/58	298	271	170	629
Major River	0311	Green	57/57	544	534	254	989
	0438	Cedar	57/57	324	271	169	1590
	0486	Sammamish	56/56	336	307	161	560
	3106	Green	57/57	543	522	277	953
	0450CC	Sammamish	56/56	516	526	223	961
	A319	Green	57/57	413	379	175	946
	A438	Cedar	56/56	265	233	119	551
	B319	Green	57/57	288	272	112	614
	SKYKOMISH	Skykomish	45/58	138	113	51	379
	SNQDUVALL	Snoqualmie	58/58	316	292	128	731

Orthophosphate Phosphorus

Orthophosphate phosphorus summary statistics for all active sites monitored between water years 2016 and 2020.

Land Use	Locator	Stream/River	FOD*	Mean (µg/L)	Median (µg/L)	Min. (µg/L)	Max. (µg/L)
Urban	0317	Springbrook	58/58	58.20	58.40	18.30	271.00
	0430	Lyon	58/58	23.50	22.60	11.80	38.00
	0434	Thornton	58/58	35.90	33.00	15.10	66.20
	0444	Kelsey	57/57	46.20	52.10	23.00	73.50
	0446	Juanita	58/58	27.00	25.90	10.40	47.30
	0470	Swamp	58/58	26.10	25.00	8.16	45.90
	0474	North	57/57	47.20	41.60	17.30	131.00
	A315	Mill	58/58	37.80	35.10	11.80	97.10
	A432	McAleeer	58/58	25.80	23.60	8.44	41.50
	A456	Forbes	58/58	53.70	42.70	19.50	308.00
	A620	Idylwood	57/57	21.30	19.00	8.02	99.00
	BB470	Swamp	58/58	18.10	17.80	5.67	31.20
	C370	Longfellow	57/57	44.90	43.30	19.80	126.00
	D474	North	57/57	43.20	36.00	15.80	132.00
	KSHZ06	Pipers	57/57	50.60	52.40	24.80	70.40
	KTHA01	Pipers	69/69	50.10	51.60	29.10	81.20
	KTHA02	Pipers	57/57	50.80	51.30	28.10	84.70
KTHA03	Venema	57/57	50.90	51.50	27.20	132.00	
Suburban	0440	May	58/58	22.70	20.70	7.60	46.50
	0442	Coal	57/57	13.30	13.90	2.99	22.50
	0478	Little Bear	57/57	22.80	22.60	13.50	34.90
	0484	Bear	57/57	20.30	20.00	8.47	45.40
	0632	Issaquah	57/57	18.50	16.70	7.20	36.90
	A320	Soos	57/57	12.60	13.00	6.78	21.30
	A499	Cochran Springs	56/56	42.10	41.20	29.60	54.80
	A617	Lewis	57/57	35.50	29.50	12.70	69.90
	A670	Laughing Jacobs	57/57	21.40	22.70	9.09	66.10
	A680	Pine Lake	57/57	41.40	45.40	12.40	68.40
	A685	Ebright	57/57	27.90	31.90	12.10	48.10
	A687	Zackuse	18/18	51.90	53.50	36.30	62.70
	A690	Eden	57/57	20.60	21.80	9.61	40.40
	B484	Evans	57/57	26.10	23.50	6.38	57.00
	B499	Yarrow	41/41	29.90	31.10	17.00	42.10
	C320	Covington	58/58	4.73	4.18	1.30	26.30
	C484	Bear	57/57	16.00	16.50	8.32	29.10
D320	Jenkins	58/58	10.80	9.82	5.37	20.00	
G320	Little Soos	58/58	4.60	3.26	1.50	58.60	

* FOD: Frequency of Detection

Land Use	Locator	Stream/River	FOD*	Mean (µg/L)	Median (µg/L)	Min. (µg/L)	Max. (µg/L)
	N484	Cottage Lake Creek	57/57	19.00	18.50	10.80	28.50
	S478	Little Bear	57/57	25.30	25.60	16.30	35.30
	S484	Evans	57/57	20.80	19.60	7.94	41.30
	VA65A	Gorsuch	57/57	35.50	39.10	14.20	63.00
Rural	0321	Crisp	58/58	33.20	29.60	15.00	76.00
	0631	Issaquah	57/57	11.30	9.72	6.26	48.20
	X630	Tibbetts	57/57	17.20	15.20	6.61	41.00
	A631	Issaquah	57/57	8.56	8.36	4.46	15.90
	FF321	Crisp	87/87	10.80	10.60	7.66	15.50
	HARRIS_1	Harris Creek	58/58	9.32	7.23	3.23	20.20
	LSIN1	Rock	55/55	16.10	12.40	3.85	45.50
	LSIN9	Ravensdale	58/58	1.95	1.70	0.74	7.72
	PATTER_3	Patterson Creek	58/58	24.00	23.70	10.30	38.40
	VA12A	Shinglemill	56/56	33.60	38.60	11.60	56.80
	VA37A	Tahlequah	56/56	17.10	15.90	8.30	29.00
	VA42A	Judd	57/57	22.70	20.70	10.20	38.90
	VA45A	Mileta	56/56	19.60	9.30	2.15	418.00
	Agricultural	0322	Newaukum	58/58	59.80	43.10	26.00
AMES_1		Ames Creek	58/58	31.90	30.50	6.76	85.00
BSE_1MUDMTNR D		Boise	58/58	20.40	12.20	6.64	200.00
VA41A		Fisher	56/56	35.60	35.30	11.60	67.10
Forested	CHERRY_1	Cherry Creek	58/58	5.73	4.35	2.06	14.80
	GRIFFIN	Griffin Creek	58/58	7.46	5.81	2.38	15.30
	MFK_SNQ	Snoqualmie – Middle Fork	57/57	1.81	1.50	0.53	10.70
	NFK_SNQ	Snoqualmie – North Fork	55/58	1.34	1.10	0.51	6.75
	RAGING_MTH	Raging River	58/58	3.36	2.84	0.89	11.80
	SFK_SNQ	Snoqualmie – South Fork	58/58	17.30	8.06	1.20	107.00
	TOLT_MTH	Tolt River	54/58	1.63	1.50	0.57	6.99
Major River	0311	Green	58/58	21.20	18.70	8.66	115.00
	0438	Cedar	58/58	4.37	4.16	1.40	13.00
	0486	Sammamish	57/57	5.77	5.25	1.10	21.50
	3106	Green	58/58	20.00	18.80	8.19	40.60
	0450CC	Sammamish	57/57	9.86	9.32	4.88	23.40
	A319	Green	58/58	8.32	6.99	2.48	26.50
	A438	Cedar	57/57	3.93	3.84	1.60	8.32
	B319	Green	58/58	3.99	3.32	1.00	9.80
	SKYKOMISH	Skykomish	50/58	1.19	1.00	0.54	5.02
	SNQDUVALL	Snoqualmie	58/58	4.47	4.02	1.90	9.61

Total Phosphorus

Total phosphorus summary statistics for all active sites monitored between water years 2016 and 2020.

Land Use	Locator	Stream/River	FOD*	Mean (µg/L)	Median (µg/L)	Min. (µg/L)	Max. (µg/L)
Urban	0317	Springbrook	57/57	173.0	163.0	68.1	447.0
	0430	Lyon	57/57	48.5	46.6	25.3	105.0
	0434	Thornton	57/57	71.6	71.0	45.5	116.0
	0444	Kelsey	56/56	92.2	88.0	47.1	198.0
	0446	Juanita	57/57	60.1	56.1	27.6	142.0
	0470	Swamp	57/57	63.3	63.9	27.3	129.0
	0474	North	56/56	90.0	81.4	36.6	183.0
	A315	Mill	57/57	135.0	128.0	44.9	316.0
	A432	McAleer	57/57	55.6	55.4	32.8	93.2
	A456	Forbes	57/57	126.0	84.3	49.4	1220.0
	A620	Idylwood	56/56	44.7	36.0	18.9	181.0
	BB470	Swamp	57/57	41.0	40.0	16.5	116.0
	C370	Longfellow	56/56	97.0	89.5	50.3	307.0
	D474	North	56/56	85.7	74.8	37.5	194.0
	KSHZ06	Pipers	56/56	74.6	69.3	48.9	210.0
	KTHA01	Pipers	48/48	68.9	69.5	51.2	110.0
	KTHA02	Pipers	56/56	74.0	71.1	51.8	182.0
KTHA03	Venema	56/56	62.3	62.9	43.0	93.0	
Suburban	0440	May	57/57	50.0	43.0	25.4	337.0
	0442	Coal	56/56	44.8	29.0	13.9	434.0
	0478	Little Bear	56/56	54.7	48.0	33.1	188.0
	0484	Bear	56/56	48.3	45.6	23.5	131.0
	0632	Issaquah	56/56	45.2	44.6	20.6	83.3
	A320	Soos	56/56	29.9	28.0	19.4	81.2
	A499	Cochran Springs	56/56	59.9	56.6	42.7	150.0
	A617	Lewis	56/56	58.2	51.0	27.3	344.0
	A670	Laughing Jacobs	56/56	52.1	46.9	24.7	194.0
	A680	Pine Lake	56/56	73.8	72.9	28.6	148.0
	A685	Ebright	56/56	42.1	42.4	23.1	78.5
	A687	Zackuse	18/18	67.0	66.5	50.9	85.8
	A690	Eden	56/56	32.4	29.4	15.0	114.0
	B484	Evans	56/56	63.2	60.2	22.0	138.0
	B499	Yarrow	40/40	59.5	55.5	37.3	117.0
	C320	Covington	56/57	13.8	12.7	7.5	36.4
	C484	Bear	56/56	41.2	37.4	18.9	124.0
	D320	Jenkins	57/57	22.9	23.0	13.2	31.9
G320	Little Soos	57/57	20.5	19.2	6.6	44.3	
N484	Cottage Lake Creek	56/56	41.6	38.4	21.4	83.7	

* FOD: Frequency of Detection

Land Use	Locator	Stream/River	FOD*	Mean (µg/L)	Median (µg/L)	Min. (µg/L)	Max. (µg/L)
	S478	Little Bear	56/56	46.4	41.7	28.7	122.0
	S484	Evans	56/56	59.1	52.8	20.4	250.0
	VA65A	Gorsuch	56/56	74.6	61.0	24.0	525.0
Rural	0321	Crisp	57/57	59.3	48.1	22.8	172.0
	0631	Issaquah	56/56	35.2	25.0	16.4	192.0
	X630	Tibbetts	56/56	65.0	57.8	28.2	275.0
	A631	Issaquah	56/56	29.3	22.2	14.2	130.0
	FF321	Crisp	86/86	22.6	17.4	11.2	415.0
	HARRIS_1	Harris Creek	58/58	25.7	24.2	10.7	90.4
	LSIN1	Rock	54/54	55.5	38.4	16.6	188.0
	LSIN9	Ravensdale	51/57	8.8	7.8	5.2	39.6
	PATTER_3	Patterson Creek	58/58	52.8	48.9	30.5	93.5
	VA12A	Shinglemill	56/56	66.6	51.7	26.0	670.0
	VA37A	Tahlequah	56/56	49.4	37.1	22.1	463.0
	VA42A	Judd	56/56	52.7	45.2	25.3	330.0
	VA45A	Mileta	56/56	41.1	25.0	9.7	560.0
	Agricultural	0322	Newaukum	57/57	110.0	70.6	38.4
AMES_1		Ames Creek	58/58	80.5	73.3	49.9	245.0
BSE_1MUDMTNRD		Boise	57/57	45.9	30.2	15.7	280.0
VA41A		Fisher	56/56	71.2	61.1	34.0	522.0
Forested	CHERRY_1	Cherry Creek	57/58	15.5	14.1	5.4	71.9
	GRIFFIN	Griffin Creek	58/58	19.8	18.3	7.4	73.0
	MFK_SNQ	Snoqualmie - Middle Fork	44/58	18.0	6.7	5.0	343.0
	NFK_SNQ	Snoqualmie - North Fork	27/58	11.2	NA	5.0	178.0
	RAGING_MTH	Raging River	52/58	14.1	9.1	5.6	219.0
	SFK_SNQ	Snoqualmie - South Fork	54/58	27.0	16.1	5.2	199.0
	TOLT_MTH	Tolt River	35/58	12.8	5.5	5.0	191.0
	Major River	0311	Green	57/57	54.0	46.1	18.6
0438		Cedar	57/57	22.2	12.2	6.3	369.0
0486		Sammamish	56/56	19.6	18.1	6.8	42.9
3106		Green	57/57	52.9	47.1	23.2	156.0
0450CC		Sammamish	56/56	32.4	30.7	14.6	71.5
A319		Green	56/57	26.2	19.4	10.9	197.0
A438		Cedar	54/56	12.9	9.8	6.2	86.8
B319		Green	54/57	16.0	10.3	5.8	131.0
SKYKOMISH		Skykomish	26/58	7.3	NA	5.1	28.1
SNQDUVALL		Snoqualmie	58/58	24.7	16.1	5.4	273.0

Total Suspended Solids

Total suspended solids summary statistics for all active sites monitored between water years 2016 and 2020.

Land Use	Locator	Stream/River	FOD*	Mean (mg/L)	Median (mg/L)	Min. (mg/L)	Max. (mg/L)
Urban	0317	Springbrook	57/57	5.9	4.7	2.6	25.6
	0430	Lyon	57/57	7.8	3.3	0.9	41.8
	0434	Thornton	57/57	7.3	5.1	1.9	35.1
	0444	Kelsey	57/57	5.9	2.2	0.8	86.9
	0446	Juanita	57/57	11.2	2.6	0.8	84.5
	0470	Swamp	57/57	5.6	3.6	1.3	47.3
	0474	North	57/57	7.8	5.7	1.7	50.1
	A315	Mill	57/57	13.5	8.5	0.9	103.0
	A432	McAleer	57/57	13.5	10.0	2.7	65.5
	A456	Forbes	57/57	13.1	5.4	0.8	176.0
	A620	Idylwood	47/57	6.4	1.2	0.5	148.0
	BB470	Swamp	56/57	6.5	2.2	0.5	64.8
	C370	Longfellow	57/57	19.6	6.1	2.3	260.0
	D474	North	57/57	8.0	4.7	2.1	44.0
	KSHZ06	Pipers	57/57	8.9	4.4	1.3	90.0
	KTHA01	Pipers	49/49	6.2	5.4	1.3	31.0
	KTHA02	Pipers	57/57	12.6	5.5	1.3	223.0
	KTHA03	Venema	57/57	6.3	3.0	0.8	68.1
Suburban	0440	May	57/57	20.7	4.2	0.9	564.0
	0442	Coal	56/56	24.4	2.1	0.5	598.0
	0478	Little Bear	57/57	8.2	4.1	2.0	80.2
	0484	Bear	57/57	6.1	3.6	1.4	35.2
	0632	Issaquah	57/57	4.2	2.0	0.7	31.9
	A320	Soos	56/56	7.5	3.6	1.3	92.8
	A499	Cochran Springs	57/57	9.2	5.5	1.4	123.0
	A617	Lewis	55/57	12.6	2.2	0.5	482.0
	A670	Laughing Jacobs	57/57	12.4	8.4	1.3	113.0
	A680	Pine Lake	57/57	7.7	2.6	0.5	131.0
	A685	Ebright	57/57	6.4	2.9	1.1	89.2
	A687	Zackuse	18/18	3.8	2.5	0.9	13.6
	A690	Eden	56/57	10.0	4.0	0.6	91.7
	B484	Evans	56/57	5.2	3.8	1.0	55.1
	B499	Yarrow	41/41	4.3	3.0	0.8	26.2
	C320	Covington	52/57	1.5	1.0	0.5	7.6
	C484	Bear	69/69	10.3	5.3	1.3	92.4
	D320	Jenkins	57/57	3.0	2.3	0.8	15.7
G320	Little Soos	57/57	4.0	3.6	0.5	11.8	

* FOD: Frequency of Detection

Land Use	Locator	Stream/River	FOD*	Mean (mg/L)	Median (mg/L)	Min. (mg/L)	Max. (mg/L)
	N484	Cottage Lake Creek	69/69	3.5	2.4	1.3	15.3
	S478	Little Bear	57/57	4.4	2.6	1.3	27.4
	S484	Evans	55/57	4.8	1.7	0.5	52.9
	VA65A	Gorsuch	57/57	36.2	5.0	1.4	776.0
Rural	0321	Crisp	57/57	8.0	3.9	0.7	70.4
	0631	Issaquah	57/57	15.3	3.6	1.4	291.0
	X630	Tibbetts	57/57	11.9	3.2	0.7	261.0
	A631	Issaquah	57/57	13.1	3.1	0.7	185.0
	FF321	Crisp	84/86	4.5	1.2	0.5	203.0
	HARRIS_1	Harris Creek	57/57	11.1	6.5	0.6	97.4
	LSIN1	Rock	48/54	2.4	1.3	0.6	14.7
	LSIN9	Ravensdale	49/57	1.6	1.0	0.5	26.4
	PATTER_3	Patterson Creek	57/57	7.4	5.7	2.8	37.4
	VA12A	Shinglemill	57/57	32.1	2.6	0.9	969.0
	VA37A	Tahlequah	57/57	22.9	5.5	0.5	588.0
	VA42A	Judd	57/57	19.1	5.2	1.5	488.0
	VA45A	Mileta	48/57	5.4	1.5	0.5	93.4
	Agricultural	0322	Newaukum	57/57	25.0	3.9	1.4
AMES_1		Ames Creek	57/57	8.3	5.5	1.4	43.0
BSE_1MUDMTNRD		Boise	57/57	6.8	2.4	0.8	84.8
VA41A		Fisher	57/57	24.7	6.1	1.6	805.0
Forested	CHERRY_1	Cherry Creek	54/57	4.9	1.6	0.5	43.4
	GRIFFIN	Griffin Creek	57/57	4.4	1.8	0.5	120.0
	MFK_SNQ	Snoqualmie - Middle Fork	56/57	18.5	3.7	0.6	427.0
	NFK_SNQ	Snoqualmie - North Fork	47/57	8.1	1.2	0.5	149.0
	RAGING_MTH	Raging River	54/57	7.5	1.6	0.6	194.0
	SFK_SNQ	Snoqualmie - South Fork	46/57	5.8	1.0	0.5	215.0
	TOLT_MTH	Tolt River	56/57	12.9	1.6	0.5	256.0
Major River	0311	Green	57/57	10.6	4.5	1.2	141.0
	0438	Cedar	57/57	14.5	2.6	0.9	476.0
	0486	Sammamish	57/57	1.9	1.7	0.6	5.2
	3106	Green	57/57	11.0	4.6	1.3	160.0
	0450CC	Sammamish	55/57	3.9	3.1	0.6	13.8
	A319	Green	57/57	10.7	3.5	1.1	209.0
	A438	Cedar	56/56	4.4	1.7	0.6	88.0
	B319	Green	56/57	8.7	1.9	0.8	160.0
	SKYKOMISH	Skykomish	42/57	4.2	1.0	0.5	31.5
	SNQDUVALL	Snoqualmie	57/57	18.7	5.8	0.7	249.0

Turbidity

Turbidity summary statistics for all active sites monitored between water years 2016 and 2020.

Land Use	Locator	Stream/River	FOD*	Mean (NTU)	Median (NTU)	Min. (NTU)	Max. (NTU)
Urban	0317	Springbrook	58/58	11.0	10.0	4.9	24.3
	0430	Lyon	58/58	5.1	2.5	0.9	22.1
	0434	Thornton	58/58	5.2	3.6	1.5	22.4
	0444	Kelsey	56/56	4.1	3.1	1.8	11.0
	0446	Juanita	58/58	5.5	2.6	1.4	44.3
	0470	Swamp	58/58	4.1	3.1	1.7	18.1
	0474	North	57/57	5.0	4.3	1.8	20.3
	A315	Mill	58/58	15.8	10.4	2.6	89.8
	A432	McAleer	58/58	6.1	4.7	1.8	27.5
	A456	Forbes	58/58	7.0	4.0	1.6	43.5
	A620	Idylwood	57/57	3.9	1.7	0.5	66.4
	BB470	Swamp	58/58	3.8	1.8	1.0	26.1
	C370	Longfellow	56/56	13.1	6.6	3.3	122.0
	D474	North	57/57	5.1	3.7	1.6	21.4
	KSHZ06	Pipers	56/56	6.0	2.8	0.9	53.3
	KTHA01	Pipers	48/48	3.7	2.7	1.0	21.6
	KTHA02	Pipers	56/56	6.4	3.2	1.1	61.0
KTHA03	Venema	56/56	3.1	1.7	0.7	24.3	
Suburban	0440	May	58/58	9.4	2.2	0.8	302.0
	0442	Coal	57/57	12.7	3.3	1.3	292.0
	0478	Little Bear	57/57	5.0	3.0	1.5	31.5
	0484	Bear	57/57	4.1	3.0	1.5	19.5
	0632	Issaquah	57/57	3.2	2.2	1.2	16.0
	A320	Soos	57/57	2.9	2.1	1.0	26.0
	A499	Cochran Springs	57/57	4.6	2.8	1.1	52.2
	A617	Lewis	56/56	5.6	1.6	0.7	163.0
	A670	Laughing Jacobs	57/57	5.8	4.5	1.3	51.6
	A680	Pine Lake	57/57	3.2	1.8	0.8	20.6
	A685	Ebright	57/57	2.6	1.6	0.7	26.0
	A687	Zackuse	18/18	2.0	1.7	0.7	5.7
	A690	Eden	57/57	4.0	2.0	0.4	21.2
	B484	Evans	57/57	3.5	3.3	1.7	6.4
	B499	Yarrow	41/41	4.1	2.7	1.3	20.7
	C320	Covington	58/58	1.0	0.8	0.3	3.5
	C484	Bear	69/69	5.3	3.6	1.2	33.8
	D320	Jenkins	58/58	1.9	1.6	0.6	5.2
G320	Little Soos	58/58	2.7	2.4	0.7	7.6	
N484	Cottage Lake Creek	69/69	2.3	1.9	0.9	7.6	

* FOD: Frequency of Detection

Land Use	Locator	Stream/River	FOD*	Mean (NTU)	Median (NTU)	Min. (NTU)	Max. (NTU)
	S478	Little Bear	57/57	2.9	2.0	1.0	16.2
	S484	Evans	57/57	3.0	2.2	0.9	18.9
	VA65A	Gorsuch	56/56	16.5	3.2	1.2	407.0
Rural	0321	Crisp	58/58	3.1	1.8	0.4	47.4
	0631	Issaquah	56/56	5.8	2.1	0.8	62.1
	X630	Tibbetts	56/56	8.8	4.9	2.4	107.0
	A631	Issaquah	57/57	5.4	1.8	0.8	62.5
	FF321	Crisp	58/58	2.6	0.8	0.3	92.4
	HARRIS_1	Harris Creek	58/58	3.9	2.7	0.7	36.9
	LSIN1	Rock	55/55	2.9	1.8	0.9	35.8
	LSIN9	Ravensdale	58/58	1.1	0.7	0.4	12.4
	PATTER_3	Patterson Creek	58/58	6.3	4.0	1.7	45.2
	VA12A	Shinglemill	56/56	13.0	1.6	0.7	351.0
	VA37A	Tahlequah	56/56	11.3	4.5	1.0	258.0
	VA42A	Judd	56/56	8.7	3.6	1.5	153.0
	VA45A	Mileta	56/56	5.5	3.9	0.6	41.5
	Agricultural	0322	Newaukum	58/58	10.3	2.6	0.8
AMES_1		Ames Creek	58/58	8.4	5.2	2.2	47.8
BSE_1MUDMTNRD		Boise	58/58	4.7	2.2	0.7	56.2
VA41A		Fisher	56/56	9.7	3.5	1.2	241.0
Forested	CHERRY_1	Cherry Creek	58/58	2.1	1.4	0.3	14.7
	GRIFFIN	Griffin Creek	58/58	1.8	1.4	0.6	14.2
	MFK_SNQ	Snoqualmie - Middle Fork	58/58	11.6	3.4	0.5	236.0
	NFK_SNQ	Snoqualmie - North Fork	58/58	4.0	1.0	0.3	82.3
	RAGING_MTH	Raging River	58/58	3.9	1.2	0.5	105.0
	SFK_SNQ	Snoqualmie - South Fork	58/58	2.6	0.6	0.3	88.0
	TOLT_MTH	Tolt River	58/58	6.8	1.3	0.4	118.0
Major River	0311	Green	58/58	7.7	3.2	1.2	105.0
	0438	Cedar	58/58	7.0	1.3	0.7	218.0
	0486	Sammamish	57/57	1.3	1.3	0.6	2.8
	3106	Green	58/58	7.8	3.4	1.3	108.0
	0450CC	Sammamish	57/57	3.2	2.8	1.4	9.1
	A319	Green	58/58	7.5	2.1	0.7	154.0
	A438	Cedar	57/57	2.1	0.9	0.4	37.0
	B319	Green	58/58	5.9	1.2	0.5	119.0
	SKYKOMISH	Skykomish	58/58	2.9	1.1	0.2	21.7
SNQDUVALL	Snoqualmie	58/58	11.5	3.3	0.8	192.0	

Fecal Coliform

Fecal coliform summary statistics for all active sites monitored between water years 2016 and 2020 (CFU/100mL).

Land Use	Locator	Site Name	FOD*	Geomean	Median	Min.	Max.
Urban	0317	Springbrook	58/58	268	240	9	3200
	0430	Lyon	58/58	301	170	17	3400
	0434	Thornton	61/61	512	190	20	2000
	0444	Kelsey	57/57	177	36	3	820
	0446	Juanita	118/118	315	240	8	4600
	0470	Swamp	58/58	181	82	6	1400
	0474	North	57/57	250	400	45	16000
	A315	Mill	58/58	308	80	10	990
	A432	McAlear	62/62	228	92	4	2500
	A456	Forbes	58/58	190	72	8	620
	A620	Idylwood	113/113	239	190	2	5900
	BB470	Swamp	58/58	99	71	4	830
	C370	Longfellow	56/56	256	140	23	1000
	D474	North	57/57	140	76	4	1900
	KSHZ06	Pipers	57/57	190	76	5	5900
	KTHA01	Pipers	69/69	150	78	10	1400
	KTHA02	Pipers	57/57	185	94	8	7400
	KTHA03	Venema	55/55	58	18	1	1100
Suburban	0440	May	58/58	92	50	1	530
	0442	Coal	57/57	90	43	3	300
	0478	Little Bear	57/57	173	77	9	2800
	0484	Bear	57/57	228	48	2	860
	0632	Issaquah	57/57	73	48	1	1300
	A320	Soos	57/57	59	45	8	340
	A499	Cochran Springs	56/56	43	23	1	330
	A617	Lewis	56/56	90	59	2	1200
	A670	Laughing Jacobs	57/57	38	47	1	4200
	A680	Pine Lake	57/57	58	39	2	340
	A685	Ebright	57/57	33	17	1	290
	A687	Zackuse	17/17	31	40	5	930
	A690	Eden	57/57	26	22	1	730
	B484	Evans	57/57	71	27	1	130
	B499	Yarrow	41/41	54	67	2	960
	C320	Covington	58/58	31	20	1	380
	C484	Bear	69/69	157	70	4	3100
	D320	Jenkins	58/58	37	23	3	270
G320	Little Soos	58/58	154	54	2	270	
N484	Cottage Lake Creek	69/69	104	56	5	1100	

* FOD: Frequency of Detection

Land Use	Locator	Site Name	FOD*	Geomean	Median	Min.	Max.
	S478	Little Bear	57/57	55	27	1	1200
	S484	Evans	56/56	47	9	1	260
	VA65A	Gorsuch	57/57	34	51	2	570
Rural	0321	Crisp	58/58	55	43	8	550
	0631	Issaquah	57/57	99	49	1	3900
	X630	Tibbetts	57/57	150	65	5	1100
	A631	Issaquah	56/56	61	30	1	1000
	FF321	Crisp	74/74	7	6	1	220
	HARRIS_1	Harris Creek	56/56	20	24	3	250
	LSIN1	Rock	55/55	34	32	5	1400
	LSIN9	Ravensdale	51/51	6	4	1	85
	PATTER_3	Patterson Creek	57/57	55	51	1	4600
	VA12A	Shinglemill	53/53	25	24	3	310
	VA37A	Tahlequah	52/52	48	48	3	880
	VA42A	Judd	58/58	90	79	1	10000
	VA45A	Mileta	51/51	27	18	2	1900
	Agricultural	0322	Newaukum	58/58	194	69	10
AMES_1		Ames Creek	58/58	97	69	2	1800
BSE_1MUDMTNRD		Boise	54/54	106	88	7	820
VA41A		Fisher	52/52	75	56	2	4500
Forested	CHERRY_1	Cherry Creek	57/57	18	19	1	250
	GRIFFIN	Griffin Creek	54/54	15	14	1	200
	MFK_SNQ	Snoqualmie - Middle Fork	45/45	10	8	1	88
	NFK_SNQ	Snoqualmie - North Fork	53/53	10	8	1	65
	RAGING_MTH	Raging River	56/56	22	20	1	260
	SFK_SNQ	Snoqualmie - South Fork	57/57	15	12	1	110
	TOLT_MTH	Tolt River	53/53	8	6	1	95
Major River	3106	Green	57/57	80	32	5	880
	0311	Green	57/57	82	36	4	950
	0438	Cedar	58/58	48	29	2	220
	0450CC	Sammamish	57/57	31	37	2	710
	0486	Sammamish	56/56	22	10	1	300
	A319	Green	57/57	29	17	1	510
	A438	Cedar	51/51	25	6	1	43
	B319	Green	57/57	9	8	1	65
	SKYKOMISH	Skykomish	39/39	3	3	1	22
	SNQDUVALL	Snoqualmie	57/57	13	9	1	1600

E. coli

E. coli summary statistics for all active sites monitored between water years 2016 and 2020 (CFU/100mL).

Land Use	Locator	Site Name	FOD*	Geomean	Median	Min.	Max.
Urban	0317	Springbrook	14/14	250	160	15	4900
	0430	Lyon	14/14	346	100	35	6100
	0434	Thornton	15/15	549	170	23	1500
	0444	Kelsey	14/14	161	42	7	370
	0446	Juanita	30/30	354	340	11	2100
	0470	Swamp	14/14	190	70	15	840
	0474	North	14/14	161	400	64	11000
	A315	Mill	14/14	199	68	11	1000
	A432	McAleer	14/14	244	98	15	960
	A456	Forbes	14/14	157	46	5	870
	A620	Idylwood	30/30	274	240	12	4600
	BB470	Swamp	14/14	111	62	5	710
	C370	Longfellow	14/14	185	120	31	1100
	D474	North	14/14	119	74	6	3100
	KSHZ06	Pipers	23/23	228	70	9	1200
	KTHA01	Pipers	23/23	104	74	12	1000
	KTHA02	Pipers	24/24	157	76	18	1300
KTHA03	Venema	23/23	65	19	2	360	
Suburban	0440	May	14/14	119	68	2	610
	0442	Coal	13/13	92	39	14	360
	0478	Little Bear	14/14	181	55	12	950
	0484	Bear	14/14	128	68	16	1000
	0632	Issaquah	14/14	58	69	2	410
	A320	Soos	14/14	62	25	9	310
	A499	Cochran Springs	14/14	49	24	1	140
	A617	Lewis	14/14	104	41	3	550
	A670	Laughing Jacobs	14/14	39	45	4	290
	A680	Pine Lake	14/14	75	50	5	360
	A685	Ebright	14/14	36	17	1	84
	A687	Zackuse	14/14	38	23	2	1100
	A690	Eden	13/13	31	27	7	670
	B484	Evans	14/14	51	28	1	84
	B499	Yarrow	14/14	90	79	4	2200
	C320	Covington	16/16	38	25	2	210
	C484	Bear	16/16	109	66	30	1100
D320	Jenkins	14/14	31	30	10	150	
G320	Little Soos	14/14	84	36	3	500	

* FOD: Frequency of Detection

Land Use	Locator	Site Name	FOD*	Geomean	Median	Min.	Max.
	N484	Cottage Lake Creek	16/16	84	66	18	740
	S478	Little Bear	14/14	70	21	3	430
	S484	Evans	14/14	22	16	1	150
	VA65A	Gorsuch	14/14	33	38	3	650
Rural	0321	Crisp	14/14	73	41	23	150
	0631	Issaquah	14/14	109	47	7	400
	X630	Tibbetts	14/14	114	140	5	860
	A631	Issaquah	14/14	57	25	4	390
	FF321	Crisp	34/34	6	5	1	77
	HARRIS_1	Harris Creek	14/14	18	18	2	130
	LSIN1	Rock	13/13	31	32	5	360
	LSIN9	Ravensdale	12/12	5	3	1	41
	PATTER_3	Patterson Creek	14/14	67	65	8	1000
	VA12A	Shinglemill	17/17	25	17	2	310
	VA37A	Tahlequah	17/17	35	51	2	610
	VA42A	Judd	15/15	106	70	5	660
	VA45A	Mileta	15/15	31	25	1	340
	Agricultural	0322	Newaukum	14/14	150	49	12
AMES_1		Ames Creek	14/14	44	51	5	370
BSE_1MUDMTNRD		Boise	18/18	125	82	23	950
VA41A		Fisher	17/17	99	69	6	360
Forested	CHERRY_1	Cherry Creek	13/13	24	43	1	330
	GRIFFIN	Griffin Creek	13/13	13	8	2	81
	MFK_SNQ	Snoqualmie - Middle Fork	12/12	9	4	1	92
	NFK_SNQ	Snoqualmie - North Fork	14/14	9	7	1	60
	RAGING_MTH	Raging River	14/14	22	11	1	270
	SFK_SNQ	Snoqualmie - South Fork	14/14	14	15	1	120
	TOLT_MTH	Tolt River	12/12	8	4	1	220
Major River	3106	Green	14/14	51	36	7	1400
	0311	Green	14/14	35	32	7	990
	0438	Cedar	14/14	27	27	4	110
	0450CC	Sammamish	14/14	29	24	6	740
	0486	Sammamish	14/14	19	9	1	120
	A319	Green	14/14	23	28	2	610
	A438	Cedar	14/14	24	5	1	48
	B319	Green	13/13	8	6	1	76
	SKYKOMISH	Skykomish	8/8	5	5	2	15
	SNQDUVALL	Snoqualmie	14/14	14	11	1	330

Appendix D: Water Quality Index Scores

Summary of Overall Scores

Seventy-three stream monitoring sites have monitoring data spanning water years 2016 to 2020.

Table D-1. Water quality categories based on mean 2016-2020 overall WQI scores for various watershed groupings of routinely monitored stream sites.

Ecology WQI Classification	WQI Category	Urban	Suburban	Rural	Agricultural	Forested	Major River
	(n)	(18)	(21)	(13)	(4)	(7)	(10)
Good – Low Concern	Excellent (WQI > 80)	0	4	3	0	4	4
Moderate Concern	Moderate (WQI 60-79)	9	15	6	2	3	5
	Fair (WQI 40-59)	8	2	2	2	0	1
Poor – High Concern	Poor (WQI 20-39)	1	0	2	0	0	0
	Very Poor (WQI < 20)	0	0	0	0	0	0

Summary of Site-Specific Scores

Table D-2. Mean water quality index scores from 2016-2020 for all monitoring sites.

Locator	Overall WQI	Temperature	Dissolved Oxygen	pH	Fecal Bacteria	Total Nitrogen	Total Phosphorus	Nutrients	Total Suspended Solids	Turbidity	Sediment
0311	67	78	78	89	76	61	54	62	84	82	83
0317	33	83	12	87	41	96	5	96	86	71	78
0321	60	86	44	93	77	78	59	58	84	92	88
0322	43	79	86	93	52	34	40	36	81	81	81
0430	61	74	79	95	55	78	71	71	82	82	82
0434	51	70	75	94	53	86	61	64	84	85	85
0438	82	79	90	88	83	82	83	83	86	87	86
0440	67	75	81	92	73	78	71	72	77	82	79
0442	74	81	84	85	76	86	69	77	77	76	76
0444	51	73	30	93	75	100	40	69	88	88	88
0446	63	78	78	96	59	83	68	70	80	83	82
0450CC	52	65	50	93	78	65	73	70	94	91	93
0470	64	74	58	95	71	92	67	73	90	88	89
0474	45	78	68	95	36	92	43	61	82	84	83
0478	66	81	83	94	61	80	68	71	83	83	83
0484	67	70	79	89	70	94	71	71	89	89	89
0486	63	57	56	88	87	85	83	85	99	99	99
0631	68	74	87	88	68	92	74	76	77	82	79
0632	60	68	51	94	66	100	76	81	90	89	90
3106	68	78	78	91	75	61	55	62	83	82	82
A315	54	76	43	88	60	96	29	94	79	66	73
A319	76	77	77	94	82	74	75	77	84	82	83
A320	84	80	87	96	77	90	81	81	89	92	91
A432	65	74	81	94	61	60	70	70	77	82	79
A438	88	74	86	92	94	90	92	93	94	95	95
A456	52	80	36	90	69	92	24	64	74	76	75

Locator	Overall WQI	Temperature	Dissolved Oxygen	pH	Fecal Bacteria	Total Nitrogen	Total Phosphorus	Nutrients	Total Suspended Solids	Turbidity	Sediment
A499	76	89	88	91	83	10	67	65	82	86	84
A617	68	75	80	90	65	92	69	73	85	87	86
A620	67	81	79	94	56	97	68	78	86	88	87
A631	72	77	87	95	73	90	77	77	79	83	81
A670	72	86	81	96	74	78	64	67	73	80	77
A680	78	85	79	96	72	93	55	70	85	89	87
A685	85	93	92	94	85	66	75	75	88	93	90
A690	79	89	90	94	72	12	81	81	77	83	80
AMES_1	59	89	61	75	67	85	55	61	83	77	80
B319	86	75	90	87	92	86	85	90	87	85	86
B484	49	68	26	90	84	100	59	78	91	90	91
BB470	74	73	87	82	71	91	76	78	87	87	87
BSE_1MUDMTNRD	68	79	84	91	64	80	56	64	86	85	85
C320	83	71	76	94	83	94	95	95	99	99	99
C370	50	83	87	95	54	73	42	53	72	70	72
C484	70	74	81	92	70	89	74	74	84	86	85
CHERRY_1	87	77	84	87	82	98	94	94	89	93	91
D320	88	75	85	94	85	80	88	88	97	97	97
D474	63	79	79	94	64	92	41	64	81	83	82
FF321	90	90	93	94	93	93	87	86	95	95	95
G320	73	69	75	94	75	95	88	88	88	89	88
GRIFFIN	90	80	84	94	85	99	91	93	93	95	94
HARRIS_1	89	87	86	94	86	100	86	88	79	87	83
KSHZ06	52	84	84	91	52	57	59	60	81	81	81
KTHA01	68	84	85	89	65	59	67	67	85	88	87
KTHA02	53	84	85	89	52	52	61	62	78	81	79
KTHA03	73	86	87	89	74	71	68	68	87	90	89
LSIN1	24	65	1	93	77	96	52	81	90	87	89
LSIN9	88	78	74	95	94	99	100	100	97	97	97
MFK_SNQ	79	72	77	83	90	90	82	93	75	73	74

Locator	Overall WQI	Temperature	Dissolved Oxygen	pH	Fecal Bacteria	Total Nitrogen	Total Phosphorus	Nutrients	Total Suspended Solids	Turbidity	Sediment
N484	77	78	77	93	74	89	75	75	93	93	93
NFK_SNQ	85	82	75	84	90	84	89	96	85	86	86
PATTER_3	63	82	69	85	66	92	71	73	84	81	83
RAGING_MTH	77	73	86	82	78	32	88	86	87	89	88
S478	76	85	85	92	70	74	73	73	90	90	90
S484	40	88	6	88	84	100	58	79	84	85	85
SFK_SNQ	78	84	79	85	87	69	62	72	91	93	92
SKYKOMISH	91	78	85	88	99	95	97	97	90	90	90
SNQDUVALL	70	74	88	87	76	82	74	82	72	70	71
TOLT_MTH	86	81	88	89	91	85	88	95	83	82	83
VA12A	72	91	89	93	79	80	62	68	75	76	76
VA37A	66	89	87	87	71	46	67	67	70	74	72
VA41A	65	88	86	93	67	72	59	64	74	77	75
VA42A	62	88	86	93	60	76	68	68	78	80	79
VA45A	35	90	1	78	75	2	71	71	90	85	88
VA65A	64	87	86	94	69	54	56	65	71	73	72
X630	54	68	46	93	67	70	62	70	82	78	80

Appendix E: Water Quality Assessment Listings

Water Quality Assessment Data: County-Wide

The 2018 WQA included 438 stream reaches (defined by assessment units) with monitoring data, consisting of 3,723 listings for water quality in streams and rivers across King County (Figure E-1). County-wide stream and river listings for conventional parameters are listed in Table E-1.

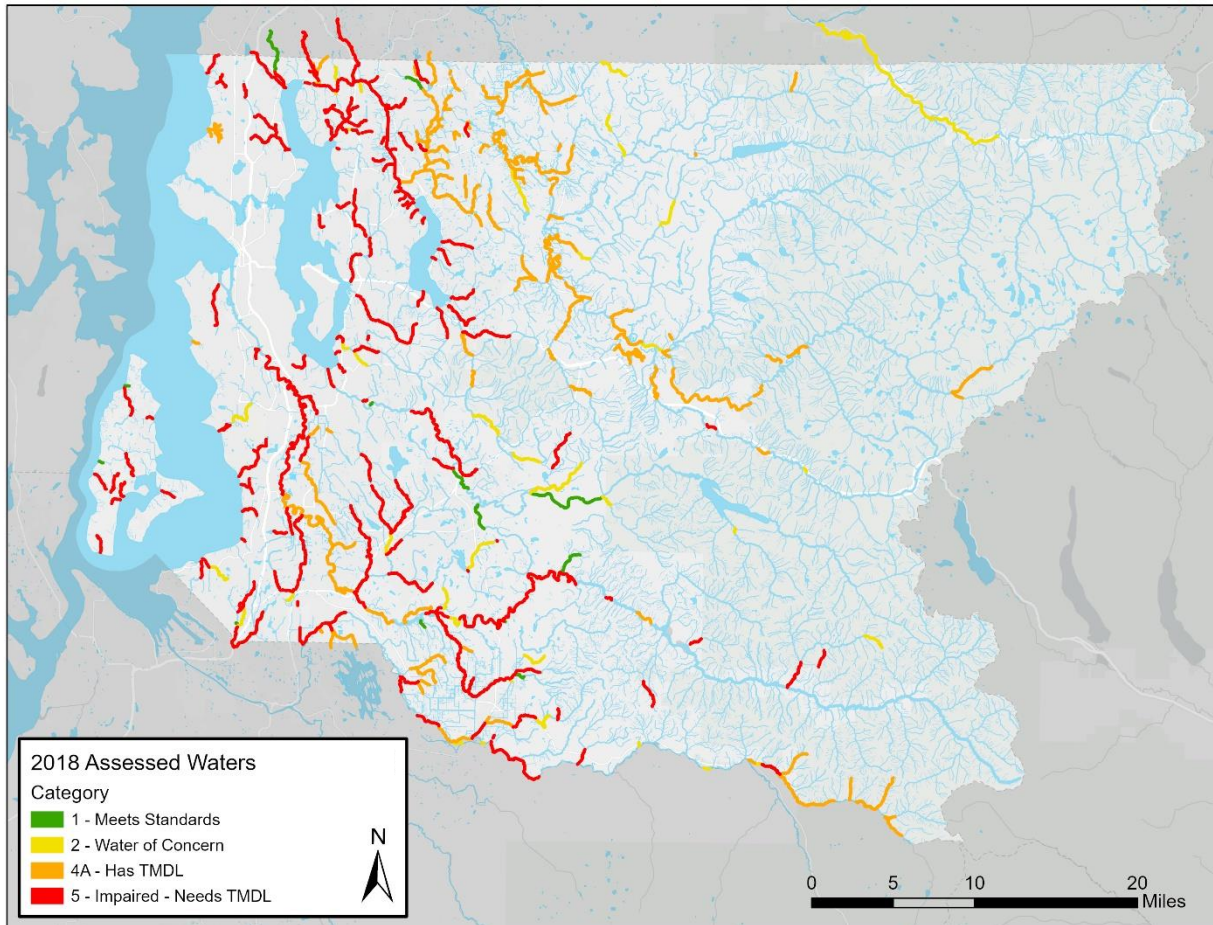


Figure E-1. Assessment categories for King County streams and rivers. All parameters are plotted. Many streams are listed for multiple parameters, often in different categories. Categories are drawn in order, with Category 5 waters showing on top, followed by categories 4a, 2, and 1. Category 3 waters are not shown since they do not have enough data for assessment.

Table E-1. King county stream and river listings by category for conventional parameters.

Water Quality Assessment Category	No. Listings					
	Temperature	Dissolved Oxygen	pH	Turbidity	Bacteria: Fecal Coliform	Bacteria: <i>E. coli</i>
1	16	1	7	0	20	3
2	49	81	62	2	15	2
3	66	37	157	0	16	4
4A	133	35	9	0	79	17
5	90	79	11	0	124	43

Conventional Parameters Assessment Data: King County Routine Stream Monitoring Program

The King County routine streams monitoring program monitors 75 sites spanning 69 assessment units, 68 of which had data within the assessment period and were included in the 2018 WQA. Results for conventional parameters are summarized in Table E-2. Specific categorizations for stream reaches encompassing routine monitoring sites can be found in Table E-3.

Table E-2. Stream and river listings by category for conventional parameters on stream reaches monitored through King County's routine stream monitoring program.

Water Quality Assessment Category	No. Listings					
	Temperature	Dissolved Oxygen	pH	Turbidity	Bacteria: Fecal Coliform	Bacteria: <i>E. coli</i>
1	2	0	4	0	12	3
2	6	22	23	1	3	3
3	6	3	36	0	0	0
4A	20	9	2	0	22	14
5	34	34	3	0	31	30

Table E-3. Conventional parameter assessment categories for assessment units encompassing monitoring stations from the King County routine stream monitoring program.

Locator	Assessment Unit ID	Listing Category					
		Temperature	Dissolved Oxygen	pH	Turbidity	Bacteria: Fecal Coliform	Bacteria: <i>E. coli</i>
0311	17110013000014_001_001	4A	5	1	NA	5	2
0317	17110013000129_001_001	4A	5	2	NA	5	5
0321	17110013002286_001_002	5	5	3	NA	5	5
0322	17110013000032_001_001	4A	2	3	NA	5	5
0430	17110012000152_001_002	5	5	3	NA	5	5
0434	17110012000182_001_001	5	5	2	NA	5	5

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Locator	Assessment Unit ID	Listing Category					
		Temperature	Dissolved Oxygen	pH	Turbidity	Bacteria: Fecal Coliform	Bacteria: E. coli
0438	17110012000024_001_002	5	5	1	NA	5	5
0440	17110012000228_001_002	5	2	3	NA	5	5
0442	17110012000226_001_001	5	2	2	NA	5	5
0444	17110012000206_001_002	5	5	2	NA	5	5
0446	17110012000180_001_002	5	5	3	NA	5	5
0470	17110012000118_002_002	5	5	3	NA	4A	4A
0474	17110012000115_001_002	5	5	3	NA	4A	4A
0478	17110012000814_002_002	5	5	1	NA	4A	4A
0484	17110012000107_002_002	4A	4A	3	NA	4A	4A
0486	17110012000093_001_001	5	5	5	NA	2	2
0631	17110012000095_001_001	5	2	2	NA	4A	4A
0632	17110012000223_001_002	5	5	3	NA	4A	4A
3106	17110013000014_001_001	4A	5	1	NA	5	2
0450CC	17110012000089_001_001	5	5	2	NA	5	NA
A315	17110013002282_001_001	4A	5	5	NA	5	5
A319	17110013002272_001_001	4A	5	3	NA	2	5
A320	17110013000097_001_001	5	5	3	NA	5	5
A432	17110012000153_001_002	5	5	3	NA	5	5
A438	17110012000033_001_001	5	3	3	NA	1	1
A456	17110012000872_001_001	NA	NA	NA	NA	NA	NA
A499	17110012000195_001_001	3	2	2	NA	5	5
A617	17110012005159_001_001	5	5	2	NA	5	5
A620	17110012001272_001_001	5	5	3	NA	5	5
A631	17110012000097_001_001	2	2	3	NA	4A	4A
A670	17110012001600_001_001	5	2	3	NA	5	NA
A680	17110012005155_001_001	5	5	3	NA	5	5
A685	17110012001408_001_001	3	2	3	NA	1	5
A687	NA	NA	NA	NA	NA	NA	NA
A690	17110012000208_001_001	5	2	3	NA	5	5
AMES_1	17110010000556_001_001	4A	4A	4A	NA	4A	NA
B319	17110013002277_001_001	4A	5	2	NA	1	1
B484	17110012000197_002_002	4A	4A	2	NA	4A	4A
B499	17110012000194_001_001	2	5	3	NA	5	NA
BB470	17110012000119_001_001	5	5	2	NA	4A	4A
BSE_1MUDMTNRD	17110014000473_001_001	5	2	2	NA	4A	NA
C320	17110013000104_001_002	5	5	2	NA	1	5
C370	17110019019025_001_001	5	5	2	NA	5	5
C484	17110012000109_001_001	4A	4A	3	NA	4A	4A
CHERRY_1	17110010000463_001_001	4A	2	3	NA	1	NA
D320	17110013000168_001_002	5	5	3	NA	5	5

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Locator	Assessment Unit ID	Listing Category					
		Temperature	Dissolved Oxygen	pH	Turbidity	Bacteria: Fecal Coliform	Bacteria: <i>E. coli</i>
D474	17110012000115_002_002	5	5	1	NA	4A	4A
FF321	17110013002285_001_001	3	3	3	NA	2	1
G320	17110013002281_001_001	5	5	3	NA	5	5
GRIFFIN	17110010000408_003_003	3	2	2	NA	1	NA
HARRIS_1	17110010001517_001_001	4A	2	3	NA	1	NA
KSHZ06	17110019000562_001_001	2	2	3	2	4A	4A
KTHA01	17110019000562_001_001	2	2	3	2	4A	4A
KTHA02	17110019000562_001_001	2	2	3	2	4A	4A
KTHA03	17110019000562_001_001	2	2	3	2	4A	4A
LSIN1	17110013000521_001_001	5	5	3	NA	1	NA
LSIN9	17110013000171_001_001	2	2	3	NA	1	NA
MFK_SNQ	17110010004487_001_001	4A	4A	2	NA	4A	NA
N484	17110012000181_001_001	4A	4A	3	NA	4A	4A
NFK_SNQ	17110010002277_001_001	4A	4A	2	NA	1	NA
PATTER_3	17110010000485_001_001	4A	4A	2	NA	4A	NA
RAGING_MTH	17110010000209_001_001	4A	2	4A	NA	4A	NA
S478	17110012000143_001_001	5	5	2	NA	4A	2
S484	17110012000197_002_002	4A	4A	2	NA	4A	4A
SFK_SNQ	17110010000232_001_001	4A	4A	2	NA	4A	NA
SKYKOMISH	17110009000129_001_002	2	2	3	NA	1	NA
SNQDUVALL	17110010000189_001_001	4A	2	3	NA	4A	NA
TOLT_MTH	17110010014456_001_001	4A	3	2	NA	1	NA
VA12A	17110019000638_001_001	1	2	3	NA	5	5
VA37A	17110019000690_001_001	1	2	2	NA	5	5
VA41A	17110019013099_001_001	2	2	3	NA	5	5
VA42A	17110019000655_001_001	5	2	3	NA	5	5
VA45A	17110019000672_001_001	3	5	5	NA	5	5
VA65A	17110019006205_001_001	3	5	2	NA	5	5
X630	17110012000221_001_001	5	5	3	NA	4A	4A

Metals, Toxics, Organic Compounds Assessment Data

Metals, toxics and organic compounds are not routinely monitored in King County, resulting in few records for assessment. Assessment results for each parameter are in Table E-4.

Table E-4. Summary of metals, inorganics, and toxic compounds listings for Ecology's 2018 WQA. The number of King County routine monitoring stream segments in each category are listed first, with the total number of county-wide segments for each category listed in parentheses.

Parameter	Compound Class	WQA Category				
		1	2	3	4A	5
2,4,6-Trichlorophenol	Acid compounds	2 (3)	0 (0)	0 (5)	0 (0)	0 (0)
2,4-Dichlorophenol	Acid compounds	0 (0)	0 (0)	0 (5)	0 (0)	0 (0)
2,4-Dimethylphenol	Acid compounds	0 (0)	0 (0)	0 (5)	0 (0)	0 (0)
2,4-Dinitrophenol	Acid compounds	0 (0)	0 (0)	0 (5)	0 (0)	0 (0)
2-Chlorophenol	Acid compounds	0 (0)	0 (0)	0 (5)	0 (0)	0 (0)
2-Methyl-4,6-Dinitrophenol	Acid compounds	0 (0)	0 (0)	0 (5)	0 (0)	0 (0)
3-Methyl-4-Chlorophenol (parachlorometa cresol)	Acid compounds	0 (0)	0 (0)	0 (5)	0 (0)	0 (0)
Pentachlorophenol (PCP)	Acid compounds	2 (5)	1 (3)	12 (30)	0 (0)	0 (0)
Phenol	Acid compounds	0 (0)	0 (0)	13 (27)	0 (0)	0 (0)
1,2,4-Trichlorobenzene	Base/neutral compounds	0 (0)	0 (0)	5 (13)	0 (0)	0 (0)
2,4-Dinitrotoluene	Base/neutral compounds	0 (0)	0 (0)	0 (5)	0 (0)	0 (0)
2-Chloronaphthalene	Base/neutral compounds	0 (0)	0 (0)	0 (6)	0 (0)	0 (0)
Acenaphthene	Base/neutral compounds	0 (0)	0 (0)	12 (27)	0 (0)	0 (0)
Anthracene	Base/neutral compounds	0 (0)	0 (0)	23 (47)	0 (0)	0 (0)
Benzo(a)anthracene	Base/neutral compounds	0 (0)	0 (0)	12 (26)	0 (0)	0 (0)
Benzo(a)pyrene	Base/neutral compounds	0 (0)	0 (1)	1 (1)	0 (0)	0 (2)
Benzo(b)fluoranthene	Base/neutral compounds	0 (0)	0 (1)	1 (5)	0 (0)	0 (0)
Benzo(k)fluoranthene	Base/neutral compounds	0 (0)	0 (0)	1 (7)	0 (0)	0 (0)
Bis(2-ethylhexyl)phthalate	Base/neutral compounds	0 (0)	3 (4)	12 (26)	0 (0)	0 (0)
Butyl benzyl phthalate	Base/neutral compounds	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)

Parameter	Compound Class	WQA Category				
		1	2	3	4A	5
Chrysene	Base/neutral compounds	0 (0)	0 (0)	12 (27)	0 (0)	0 (0)
Dibenzo(a,h)anthracene	Base/neutral compounds	0 (0)	0 (0)	1 (1)	0 (0)	0 (2)
Diethyl phthalate	Base/neutral compounds	0 (0)	0 (0)	13 (27)	0 (0)	0 (0)
Dimethyl phthalate	Base/neutral compounds	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)
Di-n-butyl phthalate	Base/neutral compounds	0 (0)	0 (0)	1 (6)	0 (0)	0 (0)
Fluoranthene	Base/neutral compounds	0 (0)	0 (0)	23 (47)	0 (0)	0 (0)
Fluorene	Base/neutral compounds	0 (0)	0 (0)	12 (27)	0 (0)	0 (0)
Hexachlorobenzene	Base/neutral compounds	2 (3)	0 (0)	0 (5)	0 (0)	0 (0)
Hexachlorobutadiene	Base/neutral compounds	0 (0)	0 (0)	5 (13)	0 (0)	0 (0)
Hexachlorocyclopentadiene	Base/neutral compounds	0 (0)	0 (0)	0 (5)	0 (0)	0 (0)
Hexachloroethane	Base/neutral compounds	0 (0)	0 (0)	5 (13)	0 (0)	0 (0)
Indeno(1,2,3-c,d)pyrene	Base/neutral compounds	0 (0)	0 (1)	12 (25)	0 (0)	0 (0)
Isophorone	Base/neutral compounds	0 (0)	0 (0)	13 (27)	0 (0)	0 (0)
Nitrobenzene	Base/neutral compounds	0 (0)	0 (0)	0 (5)	0 (0)	0 (0)
N-Nitrosodiphenylamine	Base/neutral compounds	0 (0)	0 (0)	0 (5)	0 (0)	0 (0)
Pyrene	Base/neutral compounds	0 (0)	0 (0)	23 (47)	0 (0)	0 (0)
Antimony	Metals, cyanide, and total phenols	0 (0)	0 (0)	37 (42)	0 (0)	0 (0)
Arsenic	Metals, cyanide, and total phenols	0 (3)	0 (0)	42 (72)	0 (0)	0 (0)
Arsenic, Inorganic	Metals, cyanide, and total phenols	0 (0)	0 (1)	41 (67)	0 (0)	0 (0)
Cadmium	Metals, cyanide, and total phenols	0 (0)	0 (0)	41 (72)	0 (0)	0 (0)
Chromium	Metals, cyanide, and total phenols	0 (0)	0 (0)	43 (69)	0 (0)	0 (0)
Copper	Metals, cyanide, and total phenols	1 (11)	2 (13)	40 (69)	0 (0)	0 (9)
Lead	Metals, cyanide, and total phenols	0 (0)	0 (2)	41 (71)	0 (0)	0 (1)
Mercury	Metals, cyanide, and total phenols	1 (1)	22 (27)	18 (37)	0 (0)	0 (2)
Nickel	Metals, cyanide, and total phenols	0 (1)	0 (0)	43 (62)	0 (0)	0 (0)

Parameter	Compound Class	WQA Category				
		1	2	3	4A	5
Selenium	Metals, cyanide, and total phenols	0 (1)	0 (0)	41 (52)	0 (0)	0 (0)
Silver	Metals, cyanide, and total phenols	0 (0)	0 (0)	41 (64)	0 (0)	0 (0)
Thallium	Metals, cyanide, and total phenols	0 (0)	0 (0)	37 (45)	0 (0)	0 (0)
Zinc	Metals, cyanide, and total phenols	5 (13)	1 (8)	45 (104)	0 (0)	0 (4)
Chloride	Nonconventional	2 (4)	0 (0)	17 (43)	0 (0)	0 (0)
4,4'-DDD	Pesticides/PCBs	2 (3)	0 (0)	0 (6)	0 (0)	0 (0)
4,4'-DDE	Pesticides/PCBs	2 (3)	0 (0)	0 (6)	0 (0)	0 (0)
4,4'-DDT	Pesticides/PCBs	2 (3)	0 (0)	0 (5)	0 (0)	0 (0)
Aldrin	Pesticides/PCBs	0 (0)	0 (0)	2 (8)	0 (0)	0 (0)
Aldrin/Dieldrin	Pesticides/PCBs	0 (0)	1 (1)	6 (17)	0 (0)	0 (0)
Alpha-BHC	Pesticides/PCBs	0 (0)	0 (0)	2 (8)	0 (0)	0 (0)
Beta-BHC	Pesticides/PCBs	0 (0)	0 (0)	2 (7)	0 (0)	0 (0)
Chlordane	Pesticides/PCBs	2 (3)	0 (0)	5 (16)	0 (0)	0 (0)
4,4'-DDT (and metabolites)	Pesticides/PCBs	0 (0)	1 (3)	1 (6)	0 (0)	0 (1)
Dieldrin	Pesticides/PCBs	0 (0)	0 (1)	7 (17)	0 (0)	0 (0)
Endosulfan	Pesticides/PCBs	2 (3)	0 (0)	8 (22)	0 (0)	0 (0)
Endrin	Pesticides/PCBs	2 (3)	0 (1)	2 (10)	0 (0)	0 (0)
Endrin Aldehyde	Pesticides/PCBs	2 (3)	0 (0)	0 (5)	0 (0)	0 (0)
Gamma-bhc (Lindane)	Pesticides/PCBs	2 (3)	0 (0)	0 (5)	0 (0)	0 (0)
Heptachlor	Pesticides/PCBs	0 (0)	0 (0)	5 (17)	0 (0)	0 (0)
Heptachlor Epoxide	Pesticides/PCBs	0 (0)	0 (0)	2 (8)	0 (0)	0 (0)
Hexachlorocyclohexane (Lindane)	Pesticides/PCBs	2 (4)	0 (0)	3 (13)	0 (0)	0 (0)
Polychlorinated Biphenyls (PCBs)	Pesticides/PCBs	0 (1)	1 (1)	9 (22)	0 (0)	0 (0)
Toxaphene	Pesticides/PCBs	0 (0)	0 (1)	0 (5)	0 (0)	0 (0)
Chlorpyrifos	Toxic pollutants and hazardous substances	2 (5)	0 (0)	16 (38)	0 (0)	0 (0)
Parathion	Toxic pollutants and hazardous substances	2 (2)	0 (0)	0 (1)	0 (0)	0 (0)
1,1,1-Trichloroethane	Volatile	0 (0)	0 (0)	6 (13)	0 (0)	0 (0)
1,1,2,2-Tetrachloroethane	Volatile	0 (0)	1 (2)	5 (11)	0 (0)	0 (0)
1,1,2-Trichloroethane	Volatile	0 (0)	0 (0)	6 (13)	0 (0)	0 (0)
1,1-Dichloroethylene	Volatile	0 (0)	0 (0)	6 (13)	0 (0)	0 (0)

Parameter	Compound Class	WQA Category				
		1	2	3	4A	5
1,2-Dichlorobenzene	Volatile	0 (0)	0 (0)	5 (13)	0 (0)	0 (0)
1,2-Dichloroethane	Volatile	0 (0)	0 (0)	6 (13)	0 (0)	0 (0)
1,2-Dichloropropane	Volatile	0 (0)	0 (0)	6 (13)	0 (0)	0 (0)
1,2-Trans-Dichloroethylene	Volatile	0 (0)	0 (0)	6 (13)	0 (0)	0 (0)
1,3-Dichlorobenzene	Volatile	0 (0)	0 (0)	5 (13)	0 (0)	0 (0)
1,4-Dichlorobenzene	Volatile	0 (0)	0 (0)	16 (31)	0 (0)	0 (0)
Benzene	Volatile	0 (0)	0 (0)	6 (13)	0 (0)	0 (0)
Bromoform	Volatile	0 (0)	0 (0)	16 (30)	0 (0)	0 (0)
Carbon Tetrachloride	Volatile	0 (0)	0 (0)	6 (13)	0 (0)	0 (0)
Chlorobenzene	Volatile	0 (0)	0 (0)	6 (13)	0 (0)	0 (0)
Chlorodibromomethane	Volatile	0 (0)	0 (0)	6 (13)	0 (0)	0 (0)
Chloroform	Volatile	0 (0)	0 (0)	6 (13)	0 (0)	0 (0)
Dichlorobromomethane	Volatile	0 (0)	0 (0)	6 (13)	0 (0)	0 (0)
Ethylbenzene	Volatile	0 (0)	0 (0)	6 (13)	0 (0)	0 (0)
Methyl bromide	Volatile	0 (0)	0 (0)	6 (13)	0 (0)	0 (0)
Methylene Chloride	Volatile	0 (0)	0 (0)	6 (13)	0 (0)	0 (0)
Tetrachloroethylene	Volatile	0 (0)	0 (0)	16 (30)	0 (0)	0 (0)
Toluene	Volatile	0 (0)	0 (0)	6 (13)	0 (0)	0 (0)
Trichloroethylene	Volatile	0 (0)	0 (0)	6 (12)	0 (0)	0 (1)
Vinyl Chloride	Volatile	0 (0)	1 (2)	5 (10)	0 (0)	0 (1)

Appendix F: Trend Detection Analysis Results

Trend detection analysis results. Note that averages and standard deviations for nutrients, fecal coliform, turbidity, total suspended solids were calculated geometrically, i.e., they were first log-transformed. Ammonia, nitrite+nitrate, total nitrogen, orthophosphate phosphorus, total phosphorus: ug/L. Fecal coliform: CFU/100 mL. Total suspended solids and dissolved oxygen: mg/L. Turbidity: NTU. pH: unitless. Temperature: deg C. Total alkalinity: mg CaCO₃/L. Conductance: umhos/cm.

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
0309	Ammonia Nitrogen	1970-2008	100% Likelihood Downward	-8.12	131 (99.1 - 174)
0309	Nitrite + Nitrate Nitrogen	1970-2008	100% Likelihood Downward	-1.78	425 (370 - 488)
0309	Total Nitrogen	1993-2008	77% Likelihood Downward	-1.78	598 (572 - 624)
0309	Fecal Coliform	1970-2008	100% Likelihood Downward	-3	174 (114 - 267)
0309	Orthophosphate Phosphorus	1981-2008	100% Likelihood Downward	-1.85	36.8 (31.4 - 43)
0309	Total Phosphorus	1975-2008	100% Likelihood Downward	-6.35	98.9 (76.8 - 127)
0309	Total Suspended Solids	1976-2008	100% Likelihood Downward	-0.124	10.9 (6.27 - 18.8)
0309	Turbidity	1976-2008	100% Likelihood Downward	-0.0324	4.97 (2.91 - 8.49)
0309	Temperature	1970-2008	100% Likelihood Upward	0.0217	11.5 (10.6 - 12.4)
0309	Dissolved Oxygen	1976-2008	100% Likelihood Upward	0.0222	9.54 (9.33 - 9.76)
0309	pH	1976-2008	100% Likelihood Upward	0.00273	7.17 (7.07 - 7.28)
0309	Conductivity	1976-2008	99% Likelihood Downward	-0.828	1580 (444 - 2710)
0309	Total Alkalinity	1998-2008	81% Likelihood Upward	0.25	41.1 (38.1 - 44.1)
0311	Ammonia Nitrogen	1970-2008, 2015-2020	100% Likelihood Downward	-0.5	42.2 (30.9 - 57.7)
0311	Nitrite + Nitrate Nitrogen	1970-2008, 2015-2020	100% Likelihood Upward	0.881	363 (319 - 414)
0311	Total Nitrogen	1993-2008, 2015-2020	97% Likelihood Downward	-1.79	575 (504 - 655)
0311	Fecal Coliform	1970-2008, 2015-2020	100% Likelihood Downward	-1	128 (70.9 - 231)
0311	Orthophosphate Phosphorus	1981-2008, 2015-2020	100% Likelihood Downward	-0.343	22.6 (18.8 - 27.2)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
0311	Total Phosphorus	1975-2008, 2015-2020	100% Likelihood Downward	-0.353	54.2 (42.6 - 69.1)
0311	Total Suspended Solids	1976-2008, 2015-2020	100% Likelihood Downward	-0.055	10.3 (6.26 - 16.9)
0311	Turbidity	1976-2008, 2015-2020	88% Likelihood Downward	-0.00476	4.78 (2.77 - 8.23)
0311	Temperature	1970-2008, 2015-2020	100% Likelihood Upward	0.032	11.2 (10.6 - 11.8)
0311	Dissolved Oxygen	1976-2008, 2015-2020	100% Likelihood Downward	-0.00683	9.88 (9.64 - 10.1)
0311	pH	1976-2008, 2015-2020	99% Likelihood Upward	0	7.13 (7.02 - 7.24)
0311	Conductivity	1976-2008, 2015-2020	Trend About as Likely as Not	0	116 (85 - 147)
0311	Total Alkalinity	1998-2008, 2015-2020	93% Likelihood Downward	-0.1	36.3 (33.6 - 38.9)
0317	Ammonia Nitrogen	1979-2020	100% Likelihood Downward	-7.44	260 (221 - 306)
0317	Nitrite + Nitrate Nitrogen	1979-2020	100% Likelihood Downward	-8.19	533 (487 - 584)
0317	Total Nitrogen	1993-2020	100% Likelihood Downward	-4.98	986 (925 - 1050)
0317	Fecal Coliform	1979-2020	100% Likelihood Downward	-4.1	545 (299 - 995)
0317	Orthophosphate Phosphorus	1979-2020	100% Likelihood Downward	-2.92	72.5 (51.1 - 103)
0317	Total Phosphorus	1979-2020	100% Likelihood Downward	-2.69	181 (145 - 225)
0317	Total Suspended Solids	1979-2020	100% Likelihood Downward	-0.367	11.2 (8.55 - 14.7)
0317	Turbidity	1979-2008, 2012-2020	100% Likelihood Downward	-0.332	16.3 (14.2 - 18.7)
0317	Temperature	1979-2020	95% Likelihood Upward	0.0087	11.5 (11 - 12)
0317	Dissolved Oxygen	1979-2020	77% Likelihood Downward	-0.0025	5.72 (5.21 - 6.23)
0317	pH	1979-2020	89% Likelihood Upward	0	6.89 (6.81 - 6.96)
0317	Conductivity	1979-2020	99% Likelihood Downward	-0.667	281 (226 - 336)
0317	Total Alkalinity	1998-2020	100% Likelihood Downward	-0.908	99.7 (91.2 - 108)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
0321	Ammonia Nitrogen	1972-1973, 1979-1982, 1993-2008, 2013-2020	100% Likelihood Upward	1.11	78.1 (61.9 - 98.6)
0321	Nitrite + Nitrate Nitrogen	1972-1973, 1979-1982, 1993-2008, 2013-2020	100% Likelihood Upward	3.2	733 (673 - 798)
0321	Total Nitrogen	1993-2008, 2013-2020	95% Likelihood Upward	1.74	1040 (953 - 1130)
0321	Fecal Coliform	1973, 1979-1982, 1993-2008, 2013-2020	Trend About as Likely as Not	0	80.8 (51.7 - 126)
0321	Orthophosphate Phosphorus	1979-1982, 1993-2008, 2013-2020	100% Likelihood Upward	0.11	28 (25.3 - 31.1)
0321	Total Phosphorus	1979-1982, 1993-2008, 2013-2020	100% Likelihood Upward	0.403	48.6 (43.1 - 54.8)
0321	Total Suspended Solids	1972-1973, 1979-1982, 1993-2008, 2013-2020	95% Likelihood Downward	-0.0157	6.64 (4.58 - 9.63)
0321	Turbidity	1972-1973, 1979-1982, 1993-2008, 2013-2020	70% Likelihood Upward	0.00161	2.62 (1.62 - 4.24)
0321	Temperature	1972-1973, 1979-1982, 1993-2008, 2013-2020	74% Likelihood Upward	0.00162	9.63 (9.17 - 10.1)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
0321	Dissolved Oxygen	1972-1973, 1979-1982, 1993-2008, 2013-2020	100% Likelihood Downward	-0.0222	10.6 (10.3 - 10.9)
0321	pH	1972-1973, 1979-1982, 1993-2008, 2013-2020	79% Likelihood Upward	0	7.38 (7.27 - 7.49)
0321	Conductivity	1972-1973, 1979-1982, 1993-2008, 2013-2020	100% Likelihood Upward	0.714	116 (110 - 122)
0321	Total Alkalinity	1972-1973, 1998-2008, 2013-2020	100% Likelihood Upward	0.284	46.4 (44 - 48.8)
0322	Ammonia Nitrogen	1972-1973, 1978-2020	100% Likelihood Downward	-0.307	54.9 (29.9 - 101)
0322	Nitrite + Nitrate Nitrogen	1972-1973, 1978-2020	99% Likelihood Downward	-2.55	1730 (1630 - 1830)
0322	Total Nitrogen	1993-2020	100% Likelihood Downward	-27.2	2230 (2040 - 2440)
0322	Fecal Coliform	1973, 1978-2020	100% Likelihood Downward	-4.85	506 (255 - 1000)
0322	Orthophosphate Phosphorus	1978-2020	99% Likelihood Downward	-0.128	66.5 (51.9 - 85.2)
0322	Total Phosphorus	1978-2020	67% Likelihood Downward	-0.0443	107 (83.3 - 139)
0322	Total Suspended Solids	1972-1973, 1978-2020	100% Likelihood Downward	-0.0358	6.51 (3.66 - 11.6)
0322	Turbidity	1972-1973, 1978-2008, 2012-2020	99% Likelihood Upward	0.01	3.59 (2.15 - 5.98)
0322	Temperature	1972-1973, 1978-2020	100% Likelihood Upward	0.0179	9.74 (9.18 - 10.3)
0322	Dissolved Oxygen	1972-1973, 1978-2020	97% Likelihood Downward	0	11.2 (10.8 - 11.5)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
0322	pH	1972-1973, 1978-2020	100% Likelihood Upward	0.00385	7.65 (7.5 - 7.8)
0322	Conductivity	1972-1973, 1978-2020	100% Likelihood Upward	0.241	140 (133 - 147)
0322	Total Alkalinity	1972-1973, 1998-2020	100% Likelihood Upward	0.1	48.6 (46.5 - 50.7)
0430	Ammonia Nitrogen	1972-1974, 1979-2020	100% Likelihood Downward	-0.119	20.6 (15.4 - 27.4)
0430	Nitrite + Nitrate Nitrogen	1972-1974, 1979-2020	100% Likelihood Downward	-6.52	1080 (1010 - 1160)
0430	Total Nitrogen	1993-2020	100% Likelihood Downward	-15	1320 (1250 - 1400)
0430	Fecal Coliform	1973-1974, 1979-2020	100% Likelihood Downward	-4.76	569 (342 - 946)
0430	Orthophosphate Phosphorus	1974, 1979-2020	100% Likelihood Downward	-0.232	28.8 (24.8 - 33.4)
0430	Total Phosphorus	1974, 1979-2020	97% Likelihood Downward	-0.0817	57.3 (46.2 - 71)
0430	Total Suspended Solids	1972-1974, 1979-2020	100% Likelihood Downward	-0.0469	9.4 (5.08 - 17.4)
0430	Turbidity	1972-1974, 1979-2008, 2012-2020	97% Likelihood Downward	-0.00833	4.66 (2.87 - 7.59)
0430	Temperature	1972-1974, 1979-2020	100% Likelihood Upward	0.0238	10.4 (9.88 - 11)
0430	Dissolved Oxygen	1972-1974, 1979-2020	100% Likelihood Downward	-0.01	10.8 (10.6 - 11)
0430	pH	1972-1974, 1979-2020	100% Likelihood Upward	0.001	7.56 (7.48 - 7.64)
0430	Conductivity	1972-1974, 1979-2020	100% Likelihood Upward	0.769	199 (186 - 212)
0430	Total Alkalinity	1972-1974, 1998-2020	100% Likelihood Upward	0.2	76.2 (71.3 - 81.1)
0434	Ammonia Nitrogen	1974, 1979-2020	86% Likelihood Upward	0.0545	31.3 (25.6 - 38.3)
0434	Nitrite + Nitrate Nitrogen	1974, 1979-2020	100% Likelihood Downward	-10.3	1060 (1000 - 1110)
0434	Total Nitrogen	1993-2020	100% Likelihood Downward	-19.1	1330 (1270 - 1400)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
0434	Fecal Coliform	1974, 1979-2020	100% Likelihood Downward	-9.1	758 (512 - 1120)
0434	Orthophosphate Phosphorus	1974, 1979-2020	100% Likelihood Downward	-0.282	37.1 (32.9 - 41.7)
0434	Total Phosphorus	1974, 1979-2020	97% Likelihood Upward	0.124	74.7 (64.1 - 87)
0434	Total Suspended Solids	1974, 1979-2020	Trend About as Likely as Not	0	8.93 (5.91 - 13.5)
0434	Turbidity	1974, 1979-2008, 2012-2020	100% Likelihood Upward	0.03	4.41 (3.12 - 6.23)
0434	Temperature	1974, 1979-2020	100% Likelihood Upward	0.0354	11.1 (10.4 - 11.8)
0434	Dissolved Oxygen	1974, 1979-2020	100% Likelihood Downward	-0.00909	10.5 (10.2 - 10.7)
0434	pH	1974, 1979-2020	85% Likelihood Upward	0	7.54 (7.45 - 7.63)
0434	Conductivity	1974, 1979-2020	99% Likelihood Upward	0.233	216 (194 - 238)
0434	Total Alkalinity	1974, 1998-2020	Trend About as Likely as Not	-0.0137	76.4 (72.4 - 80.5)
0438	Ammonia Nitrogen	1976-1982, 1996-2020	100% Likelihood Downward	-0.238	14.5 (11.6 - 18.2)
0438	Nitrite + Nitrate Nitrogen	1976-1982, 1996-2020	100% Likelihood Downward	-0.731	230 (204 - 260)
0438	Total Nitrogen	1996-2020	100% Likelihood Downward	-4.08	340 (309 - 375)
0438	Fecal Coliform	1976-1982, 1996-2020	100% Likelihood Downward	-0.405	73.6 (50.2 - 108)
0438	Orthophosphate Phosphorus	1981-1982, 1996-2020	100% Likelihood Downward	-0.294	7.38 (6.14 - 8.88)
0438	Total Phosphorus	1976-1982, 1996-2020	100% Likelihood Downward	-0.222	20 (13.3 - 30.1)
0438	Total Suspended Solids	1976-1982, 1996-2020	87% Likelihood Downward	-0.00741	5.88 (3.01 - 11.5)
0438	Turbidity	1976-1982, 1996-2008, 2012-2020	75% Likelihood Downward	-0.00063	2.7 (1.25 - 5.83)
0438	Temperature	1976-1982, 1996-2020	98% Likelihood Upward	0.00952	10.3 (9.67 - 11)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
0438	Dissolved Oxygen	1976-1982, 1996-2020	Trend About as Likely as Not	0	11.2 (10.9 - 11.5)
0438	pH	1976-1982, 1997-2020	100% Likelihood Upward	0.0087	7.44 (7.33 - 7.55)
0438	Conductivity	1976-1982, 1996-2020	79% Likelihood Downward	-0.0243	70.8 (64.4 - 77.2)
0438	Total Alkalinity	1998-2020	100% Likelihood Downward	-0.105	29.6 (26.3 - 32.9)
0440	Ammonia Nitrogen	1978-2020	100% Likelihood Downward	-0.141	16.8 (12.5 - 22.6)
0440	Nitrite + Nitrate Nitrogen	1978-2020	100% Likelihood Downward	-8.34	1080 (988 - 1180)
0440	Total Nitrogen	1993-2020	100% Likelihood Downward	-16.1	1300 (1200 - 1420)
0440	Fecal Coliform	1978-2020	100% Likelihood Downward	-1.3	148 (95.3 - 231)
0440	Orthophosphate Phosphorus	1978-2020	100% Likelihood Downward	-0.246	25.6 (22.3 - 29.3)
0440	Total Phosphorus	1978-2020	83% Likelihood Upward	0.0331	45.7 (37.9 - 55.2)
0440	Total Suspended Solids	1978-2020	100% Likelihood Downward	-0.0345	8.41 (3.57 - 19.8)
0440	Turbidity	1978-2008, 2012-2020	84% Likelihood Downward	-0.00316	4.09 (2.09 - 8.01)
0440	Temperature	1978-2020	100% Likelihood Upward	0.0448	10.2 (9.66 - 10.7)
0440	Dissolved Oxygen	1978-2020	100% Likelihood Downward	-0.00833	11.1 (10.9 - 11.4)
0440	pH	1978-2020	100% Likelihood Upward	0.00304	7.63 (7.53 - 7.74)
0440	Conductivity	1978-2020	100% Likelihood Upward	0.655	158 (144 - 171)
0440	Total Alkalinity	1998-2020	100% Likelihood Upward	0.257	58.5 (55.6 - 61.4)
0442	Ammonia Nitrogen	1979-2008, 2013-2020	Trend About as Likely as Not	0	13.7 (9.09 - 20.8)
0442	Nitrite + Nitrate Nitrogen	1979-2008, 2013-2020	100% Likelihood Downward	-2.14	713 (595 - 855)
0442	Total Nitrogen	1993-2008, 2013-2020	100% Likelihood Downward	-8.77	883 (758 - 1030)
0442	Fecal Coliform	1979-2008, 2013-2020	100% Likelihood Downward	-0.762	185 (86.3 - 397)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
0442	Orthophosphate Phosphorus	1979-2008, 2013-2020	100% Likelihood Downward	-0.353	19 (15.5 - 23.3)
0442	Total Phosphorus	1979-2008, 2013-2020	92% Likelihood Downward	-0.0447	38.2 (26.2 - 55.7)
0442	Total Suspended Solids	1979-2008, 2013-2020	100% Likelihood Downward	-0.0372	9.96 (3.71 - 26.7)
0442	Turbidity	1979-2008, 2013-2020	100% Likelihood Upward	0.04	5.82 (2.59 - 13.1)
0442	Temperature	1979-2008, 2013-2020	100% Likelihood Upward	0.0286	10.4 (9.86 - 11)
0442	Dissolved Oxygen	1979-2008, 2013-2020	100% Likelihood Downward	-0.00667	11.1 (10.8 - 11.3)
0442	pH	1979-2008, 2013-2020	91% Likelihood Downward	0	8.03 (7.92 - 8.13)
0442	Conductivity	1979-2008, 2013-2020	100% Likelihood Downward	-1.71	460 (410 - 510)
0442	Total Alkalinity	1998-2008, 2013-2020	Trend About as Likely as Not	-0.00833	154 (141 - 168)
0444	Ammonia Nitrogen	1979-2008, 2013-2020	100% Likelihood Downward	-0.215	29.1 (20.3 - 41.5)
0444	Nitrite + Nitrate Nitrogen	1979-2008, 2013-2020	100% Likelihood Downward	-9.93	512 (456 - 574)
0444	Total Nitrogen	1993-2008, 2013-2020	100% Likelihood Downward	-16.2	779 (735 - 826)
0444	Fecal Coliform	1979-2008, 2013-2020	100% Likelihood Downward	-4.45	265 (151 - 463)
0444	Orthophosphate Phosphorus	1979-2008, 2013-2020	100% Likelihood Downward	-0.387	49.8 (44.7 - 55.5)
0444	Total Phosphorus	1979-2008, 2013-2020	100% Likelihood Upward	0.201	83.7 (77.2 - 90.8)
0444	Total Suspended Solids	1979-2008, 2013-2020	100% Likelihood Downward	-0.127	6.16 (3.85 - 9.86)
0444	Turbidity	1979-2008, 2013-2020	100% Likelihood Downward	-0.0275	4.33 (3.33 - 5.62)
0444	Temperature	1979-2008, 2013-2020	100% Likelihood Upward	0.0479	10.9 (10.3 - 11.4)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
0444	Dissolved Oxygen	1979-2008, 2013-2020	100% Likelihood Downward	-0.0333	9.2 (8.83 - 9.57)
0444	pH	1979-2008, 2013-2020	93% Likelihood Downward	0	7.31 (7.2 - 7.41)
0444	Conductivity	1979-2008, 2013-2020	100% Likelihood Upward	1.5	185 (170 - 200)
0444	Total Alkalinity	1998-2008, 2013-2020	99% Likelihood Upward	0.333	78 (72 - 84.1)
0446	Ammonia Nitrogen	1977, 1979-2020	100% Likelihood Downward	-0.0945	25.6 (18.9 - 34.7)
0446	Nitrite + Nitrate Nitrogen	1977, 1979-2020	100% Likelihood Downward	-11.7	1170 (1090 - 1260)
0446	Total Nitrogen	1993-2020	100% Likelihood Downward	-25	1380 (1320 - 1450)
0446	Fecal Coliform	1977, 1979-2020	100% Likelihood Downward	-4.29	525 (324 - 851)
0446	Orthophosphate Phosphorus	1977, 1979-2020	100% Likelihood Downward	-0.325	31.5 (26 - 38)
0446	Total Phosphorus	1977, 1979-2020	76% Likelihood Upward	0.0324	60 (47.6 - 75.7)
0446	Total Suspended Solids	1977, 1979-2020	100% Likelihood Downward	-0.0381	9.44 (4.49 - 19.8)
0446	Turbidity	1977, 1979-2008, 2012-2020	83% Likelihood Downward	-0.00385	5.06 (2.95 - 8.66)
0446	Temperature	1977, 1979-2020	100% Likelihood Upward	0.0222	12.1 (11.5 - 12.8)
0446	Dissolved Oxygen	1977, 1979-2020	100% Likelihood Downward	-0.00768	10.5 (10.3 - 10.7)
0446	pH	1977, 1979-2020	100% Likelihood Upward	0.00133	7.4 (7.31 - 7.5)
0446	Conductivity	1977, 1979-2020	100% Likelihood Upward	0.579	179 (165 - 193)
0446	Total Alkalinity	1998-2020	98% Likelihood Downward	-0.1	68.4 (64.7 - 72.2)
0450	Ammonia Nitrogen	1976-2008	99% Likelihood Downward	-0.183	38.5 (31.1 - 47.8)
0450	Nitrite + Nitrate Nitrogen	1976-2008	Trend About as Likely as Not	0.237	458 (420 - 498)
0450	Total Nitrogen	1993-2008	100% Likelihood Downward	-8.45	808 (747 - 875)
0450	Fecal Coliform	1976-2008	100% Likelihood Downward	-3.7	310 (191 - 505)
0450	Orthophosphate Phosphorus	1981-2008	100% Likelihood Downward	-0.5	25.4 (21.5 - 30.1)
0450	Total Phosphorus	1976-2008	100% Likelihood Downward	-0.472	55.3 (47.6 - 64.3)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
0450	Total Suspended Solids	1976-2008	100% Likelihood Downward	-0.145	6.88 (5.52 - 8.58)
0450	Turbidity	1976-2008	100% Likelihood Downward	-0.04	4.11 (3.04 - 5.55)
0450	Temperature	1976-2008	95% Likelihood Upward	0.0136	12.5 (11.7 - 13.2)
0450	Dissolved Oxygen	1976-2008	100% Likelihood Downward	-0.0267	9.59 (9.4 - 9.79)
0450	pH	1976-2008	100% Likelihood Upward	0.00375	7.2 (7.11 - 7.29)
0450	Conductivity	1976-2008	100% Likelihood Upward	0.765	134 (127 - 141)
0450	Total Alkalinity	1998-2008	99% Likelihood Upward	0.278	54.7 (51.7 - 57.8)
0450CC	Ammonia Nitrogen	2009-2020	70% Likelihood Downward	-0.0364	16.4 (13.8 - 19.5)
0450CC	Nitrite + Nitrate Nitrogen	2009-2020	77% Likelihood Downward	-0.6	236 (210 - 267)
0450CC	Total Nitrogen	2009-2020	79% Likelihood Downward	-1	501 (480 - 522)
0450CC	Fecal Coliform	2009-2020	90% Likelihood Upward	0.667	65.4 (40.7 - 105)
0450CC	Orthophosphate Phosphorus	2009-2020	94% Likelihood Upward	0.1	9.49 (8.49 - 10.6)
0450CC	Total Phosphorus	2009-2020	100% Likelihood Upward	0.54	29.1 (25.9 - 32.7)
0450CC	Total Suspended Solids	2009-2020	100% Likelihood Downward	-0.052	3.93 (3.35 - 4.61)
0450CC	Turbidity	2012-2020	75% Likelihood Downward	-0.008	3.1 (2.84 - 3.39)
0450CC	Temperature	2009-2020	Trend About as Likely as Not	0	12.7 (12.1 - 13.3)
0450CC	Dissolved Oxygen	2009-2020	67% Likelihood Downward	0	9.54 (9.19 - 9.89)
0450CC	pH	2009-2020	Trend About as Likely as Not	0.00143	7.19 (7.13 - 7.25)
0450CC	Conductivity	2009-2020	97% Likelihood Upward	0.667	125 (123 - 127)
0450CC	Total Alkalinity	2009-2020	Trend About as Likely as Not	0.0333	48.8 (47.5 - 50)
0470	Ammonia Nitrogen	1972-1974, 1979-2020	79% Likelihood Upward	0.0242	22 (18.1 - 26.7)
0470	Nitrite + Nitrate Nitrogen	1972-1974, 1979-2020	100% Likelihood Downward	-11.9	771 (701 - 848)
0470	Total Nitrogen	1993-2020	100% Likelihood Downward	-19.5	1020 (956 - 1100)
0470	Fecal Coliform	1973-1974, 1979-2020	100% Likelihood Downward	-2.45	283 (183 - 437)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
0470	Orthophosphate Phosphorus	1974, 1979-2020	100% Likelihood Downward	-0.325	30.2 (26.6 - 34.3)
0470	Total Phosphorus	1974, 1979-2020	Trend About as Likely as Not	-0.00663	59.3 (52.3 - 67.2)
0470	Total Suspended Solids	1972-1974, 1979-2020	100% Likelihood Downward	-0.0333	5.87 (3.84 - 8.98)
0470	Turbidity	1972-1974, 1979-2008, 2012-2020	83% Likelihood Upward	0.00371	3.81 (2.86 - 5.09)
0470	Temperature	1972-1974, 1979-2020	100% Likelihood Upward	0.0286	10.3 (9.71 - 10.9)
0470	Dissolved Oxygen	1972-1974, 1979-2020	100% Likelihood Downward	-0.0294	10 (9.58 - 10.5)
0470	pH	1972-1974, 1979-2020	100% Likelihood Downward	-0.00292	7.38 (7.28 - 7.48)
0470	Conductivity	1972-1974, 1979-2020	100% Likelihood Upward	1	170 (164 - 176)
0470	Total Alkalinity	1972-1974, 1998-2020	100% Likelihood Upward	0.5	67.1 (63.9 - 70.3)
0474	Ammonia Nitrogen	1972-1974, 1979-2020	100% Likelihood Downward	-0.2	30.2 (26.4 - 34.5)
0474	Nitrite + Nitrate Nitrogen	1972-1974, 1979-2020	100% Likelihood Downward	-2.62	765 (707 - 827)
0474	Total Nitrogen	1993-2020	100% Likelihood Downward	-12.2	1110 (1070 - 1150)
0474	Fecal Coliform	1973-1974, 1979-2020	100% Likelihood Downward	-2.69	441 (256 - 761)
0474	Orthophosphate Phosphorus	1974, 1979-2020	100% Likelihood Downward	-0.442	44.8 (40.8 - 49.2)
0474	Total Phosphorus	1974, 1979-2020	100% Likelihood Downward	-0.274	83.5 (74.9 - 93.1)
0474	Total Suspended Solids	1972-1974, 1979-2020	100% Likelihood Downward	-0.0571	7.63 (5.98 - 9.74)
0474	Turbidity	1972-1974, 1979-2008, 2012-2020	100% Likelihood Upward	0.0229	4.29 (3.24 - 5.69)
0474	Temperature	1972-1974, 1979-2020	100% Likelihood Upward	0.0286	10.2 (9.59 - 10.9)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
0474	Dissolved Oxygen	1972-1974, 1979-2020	100% Likelihood Downward	-0.025	10.6 (10.3 - 10.9)
0474	pH	1972-1974, 1979-2020	98% Likelihood Upward	0.000882	7.47 (7.37 - 7.58)
0474	Conductivity	1972-1974, 1979-2020	100% Likelihood Upward	1.23	158 (142 - 173)
0474	Total Alkalinity	1972-1974, 1998-2020	100% Likelihood Upward	0.58	61.8 (59.1 - 64.5)
0478	Ammonia Nitrogen	1972-1974, 1979-2020	100% Likelihood Downward	-0.125	25.1 (20.1 - 31.4)
0478	Nitrite + Nitrate Nitrogen	1972-1974, 1979-2020	82% Likelihood Downward	-0.532	806 (737 - 881)
0478	Total Nitrogen	1993-2020	100% Likelihood Downward	-9.29	1130 (1050 - 1210)
0478	Fecal Coliform	1973-1974, 1979-2020	100% Likelihood Downward	-3.1	333 (157 - 709)
0478	Orthophosphate Phosphorus	1974, 1979-2020	100% Likelihood Downward	-0.301	29.4 (25.1 - 34.4)
0478	Total Phosphorus	1974, 1979-2020	94% Likelihood Downward	-0.0713	60.1 (51.9 - 69.6)
0478	Total Suspended Solids	1972-1974, 1979-2020	100% Likelihood Downward	-0.0429	8.89 (5.62 - 14)
0478	Turbidity	1972-1974, 1979-2008, 2012-2020	100% Likelihood Upward	0.0143	4.59 (3 - 7.02)
0478	Temperature	1972-1974, 1979-2020	100% Likelihood Upward	0.0333	9.8 (9.29 - 10.3)
0478	Dissolved Oxygen	1972-1974, 1979-2020	91% Likelihood Downward	0	10.9 (10.6 - 11.3)
0478	pH	1972-1974, 1979-2020	100% Likelihood Upward	0.00556	7.47 (7.36 - 7.58)
0478	Conductivity	1972-1974, 1979-2020	100% Likelihood Upward	1.42	134 (125 - 142)
0478	Total Alkalinity	1972-1974, 1998-2020	100% Likelihood Upward	0.518	52.7 (50 - 55.5)
0484	Ammonia Nitrogen	1974, 1979-2020	100% Likelihood Downward	-0.496	27.3 (18.8 - 39.8)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
0484	Nitrite + Nitrate Nitrogen	1974, 1979-2020	100% Likelihood Downward	-3.05	568 (526 - 615)
0484	Total Nitrogen	1993-2020	100% Likelihood Downward	-9.34	904 (843 - 970)
0484	Fecal Coliform	1974, 1979-2020	100% Likelihood Downward	-12.3	357 (217 - 585)
0484	Orthophosphate Phosphorus	1974, 1979-2020	100% Likelihood Downward	-0.515	28.2 (22.9 - 34.8)
0484	Total Phosphorus	1974, 1979-2020	100% Likelihood Downward	-0.631	61.4 (46.5 - 81)
0484	Total Suspended Solids	1974, 1979-2020	100% Likelihood Downward	-0.115	8.16 (6.14 - 10.8)
0484	Turbidity	1974, 1979-2008, 2012-2020	Trend About as Likely as Not	0	4.25 (3.19 - 5.65)
0484	Temperature	1974, 1979-2020	100% Likelihood Upward	0.0367	10.7 (10 - 11.3)
0484	Dissolved Oxygen	1974, 1979-2020	Trend About as Likely as Not	0	10.5 (10.1 - 10.9)
0484	pH	1974, 1979-2020	100% Likelihood Upward	0.00182	7.39 (7.29 - 7.48)
0484	Conductivity	1974, 1979-2020	100% Likelihood Upward	1	118 (110 - 126)
0484	Total Alkalinity	1974, 1998-2020	100% Likelihood Upward	0.4	49.5 (47.3 - 51.7)
0486	Ammonia Nitrogen	1976-2020	97% Likelihood Downward	-0.0323	13.7 (8.77 - 21.2)
0486	Nitrite + Nitrate Nitrogen	1976-2020	100% Likelihood Downward	-1.26	159 (127 - 199)
0486	Total Nitrogen	1993-2020	100% Likelihood Downward	-5.46	383 (330 - 446)
0486	Fecal Coliform	1976-2020	100% Likelihood Downward	-0.286	37.9 (25.2 - 57)
0486	Orthophosphate Phosphorus	1981-2020	100% Likelihood Downward	-0.115	6.87 (5.25 - 8.99)
0486	Total Phosphorus	1976-2020	99% Likelihood Downward	-0.0381	19.5 (15.2 - 25.2)
0486	Total Suspended Solids	1976-2020	100% Likelihood Downward	-0.0606	3.17 (2.48 - 4.04)
0486	Turbidity	1976-2008, 2012-2020	100% Likelihood Downward	-0.0104	1.53 (1.21 - 1.92)
0486	Temperature	1976-2020	100% Likelihood Upward	0.02	13.6 (12.6 - 14.7)
0486	Dissolved Oxygen	1976-2020	100% Likelihood Downward	-0.0267	10.2 (9.85 - 10.5)
0486	pH	1976-2020	Trend About as Likely as Not	0	7.68 (7.51 - 7.84)
0486	Conductivity	1976-2020	100% Likelihood Upward	0.241	109 (99 - 119)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
0486	Total Alkalinity	1998-2020	Trend About as Likely as Not	-0.00833	42.3 (41.2 - 43.4)
0498	Ammonia Nitrogen	1979-2008	92% Likelihood Downward	-0.25	63.7 (42.5 - 95.3)
0498	Nitrite + Nitrate Nitrogen	1979-2008	100% Likelihood Downward	-13.3	1010 (939 - 1090)
0498	Total Nitrogen	1993-2008	100% Likelihood Downward	-12.9	1530 (1480 - 1590)
0498	Fecal Coliform	1979-2008	100% Likelihood Downward	-12.9	862 (520 - 1430)
0498	Orthophosphate Phosphorus	1979-2008	100% Likelihood Downward	-0.455	84 (68.9 - 102)
0498	Total Phosphorus	1979-2008	100% Likelihood Upward	0.612	147 (125 - 172)
0498	Total Suspended Solids	1979-2008	100% Likelihood Downward	-0.0917	10.4 (7.55 - 14.4)
0498	Turbidity	1979-2008	99% Likelihood Downward	-0.0312	7.41 (4.16 - 13.2)
0498	Temperature	1979-2008	100% Likelihood Upward	0.0571	12.8 (12.1 - 13.5)
0498	Dissolved Oxygen	1979-2008	100% Likelihood Downward	-0.0143	9.73 (9.46 - 10)
0498	pH	1979-2008	95% Likelihood Upward	0	7.55 (7.45 - 7.66)
0498	Conductivity	1979-2008	Trend About as Likely as Not	0	240 (224 - 255)
0498	Total Alkalinity	1998-2008	78% Likelihood Upward	0.332	88.5 (82.7 - 94.3)
0631	Ammonia Nitrogen	1972, 1976, 1979-2020	100% Likelihood Downward	-0.0571	18.6 (15.1 - 22.9)
0631	Nitrite + Nitrate Nitrogen	1972, 1976, 1979-2020	100% Likelihood Downward	-7.51	862 (797 - 933)
0631	Total Nitrogen	1993-2020	100% Likelihood Downward	-17.3	1020 (938 - 1110)
0631	Fecal Coliform	1976, 1979-2020	100% Likelihood Downward	-1.1	158 (100 - 249)
0631	Orthophosphate Phosphorus	1979-2020	100% Likelihood Downward	-0.221	13.8 (12.2 - 15.6)
0631	Total Phosphorus	1976, 1979-2020	82% Likelihood Downward	-0.0188	32.4 (26.1 - 40.1)
0631	Total Suspended Solids	1972, 1979-2020	98% Likelihood Downward	-0.0137	9.42 (5.15 - 17.3)
0631	Turbidity	1972, 1976, 1979-2009, 2012-2020	100% Likelihood Upward	0.00662	3.65 (2.07 - 6.42)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
0631	Temperature	1972, 1976, 1979-2020	100% Likelihood Upward	0.0333	10 (9.54 - 10.5)
0631	Dissolved Oxygen	1972, 1976, 1979-2020	81% Likelihood Downward	0	11.2 (11 - 11.4)
0631	pH	1972, 1976, 1979-2020	100% Likelihood Upward	0.00174	7.38 (7.29 - 7.47)
0631	Conductivity	1972, 1976, 1979-2020	100% Likelihood Upward	0.308	112 (103 - 122)
0631	Total Alkalinity	1972, 1997-2020	89% Likelihood Upward	0.0531	43.8 (40.9 - 46.8)
0632	Ammonia Nitrogen	1979-2008, 2015-2020	96% Likelihood Downward	-0.0526	20.8 (14.4 - 30.1)
0632	Nitrite + Nitrate Nitrogen	1979-2008, 2015-2020	100% Likelihood Downward	-9.96	361 (298 - 438)
0632	Total Nitrogen	1993-2008, 2015-2020	100% Likelihood Downward	-10.4	569 (512 - 633)
0632	Fecal Coliform	1979-2008, 2015-2020	100% Likelihood Downward	-1.29	178 (103 - 308)
0632	Orthophosphate Phosphorus	1979-2008, 2015-2020	100% Likelihood Downward	-0.383	25.8 (20.2 - 33.1)
0632	Total Phosphorus	1979-2008, 2015-2020	83% Likelihood Downward	-0.0504	45.8 (36.8 - 57.1)
0632	Total Suspended Solids	1979-2008, 2015-2020	100% Likelihood Downward	-0.0958	4.6 (3.24 - 6.53)
0632	Turbidity	1979-2008, 2015-2020	100% Likelihood Downward	-0.0286	3.34 (2.58 - 4.32)
0632	Temperature	1979-2008, 2015-2020	100% Likelihood Upward	0.0533	10.8 (10 - 11.5)
0632	Dissolved Oxygen	1979-2008, 2015-2020	98% Likelihood Upward	0.00625	9.7 (9.33 - 10.1)
0632	pH	1979-2008, 2015-2020	100% Likelihood Upward	0.00276	7.23 (7.16 - 7.3)
0632	Conductivity	1979-2008, 2015-2020	100% Likelihood Upward	1.47	143 (129 - 157)
0632	Total Alkalinity	1998-2008, 2015-2020	100% Likelihood Upward	0.712	56.4 (52.7 - 60.1)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
3106	Ammonia Nitrogen	1971-2020	100% Likelihood Downward	-6.69	88.9 (68.2 - 116)
3106	Nitrite + Nitrate Nitrogen	1971-2020	99% Likelihood Downward	-0.649	379 (336 - 429)
3106	Total Nitrogen	1993-2020	98% Likelihood Downward	-1.98	556 (509 - 608)
3106	Fecal Coliform	1971-2020	100% Likelihood Downward	-1.07	120 (76.7 - 188)
3106	Orthophosphate Phosphorus	1981-2020	100% Likelihood Downward	-1.82	30.9 (26.3 - 36.3)
3106	Total Phosphorus	1975-2020	100% Likelihood Downward	-4.56	81.5 (64.7 - 103)
3106	Total Suspended Solids	1976-2020	100% Likelihood Downward	-0.0594	10.5 (6.7 - 16.4)
3106	Turbidity	1976-2008, 2012-2020	99% Likelihood Downward	-0.01	5.01 (3.06 - 8.21)
3106	Temperature	1971-2020	100% Likelihood Upward	0.0211	11.1 (10.4 - 11.7)
3106	Dissolved Oxygen	1976-2020	96% Likelihood Downward	-0.00321	9.84 (9.61 - 10.1)
3106	pH	1976-2020	Trend About as Likely as Not	0	7.11 (6.96 - 7.25)
3106	Conductivity	1976-2020	100% Likelihood Downward	-0.53	114 (91.9 - 137)
3106	Total Alkalinity	1998-2020	97% Likelihood Downward	-0.112	35.8 (33.3 - 38.4)
A315	Ammonia Nitrogen	1979-2008, 2013-2020	100% Likelihood Downward	-1.68	117 (62 - 222)
A315	Nitrite + Nitrate Nitrogen	1979-2008, 2013-2020	100% Likelihood Downward	-8.97	450 (402 - 504)
A315	Total Nitrogen	1993-2008, 2013-2020	100% Likelihood Downward	-14.1	1030 (858 - 1230)
A315	Fecal Coliform	1979-2008, 2013-2020	100% Likelihood Downward	-15.6	644 (329 - 1260)
A315	Orthophosphate Phosphorus	1979-2008, 2013-2020	100% Likelihood Downward	-2.96	73 (51.9 - 103)
A315	Total Phosphorus	1979-2008, 2013-2020	100% Likelihood Downward	-2.88	163 (116 - 230)
A315	Total Suspended Solids	1979-2008, 2013-2020	100% Likelihood Downward	-0.0833	10.9 (7.66 - 15.5)
A315	Turbidity	1979-2008, 2013-2020	Trend About as Likely as Not	0	11.3 (8.83 - 14.4)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
A315	Temperature	1979-2008, 2013-2020	100% Likelihood Upward	0.0226	11 (10.3 - 11.6)
A315	Dissolved Oxygen	1979-2008, 2013-2020	100% Likelihood Upward	0.0167	7.02 (6.67 - 7.37)
A315	pH	1979-2008, 2013-2020	100% Likelihood Downward	-0.00159	7.07 (6.98 - 7.16)
A315	Conductivity	1979-2008, 2013-2020	89% Likelihood Upward	0.19	218 (186 - 249)
A315	Total Alkalinity	1998-2008, 2013-2020	Trend About as Likely as Not	0	86.7 (80.6 - 92.7)
A319	Ammonia Nitrogen	1976-2008, 2015-2020	100% Likelihood Downward	-0.0766	16.7 (11.1 - 25.1)
A319	Nitrite + Nitrate Nitrogen	1976-2008, 2015-2020	100% Likelihood Upward	1	295 (264 - 330)
A319	Total Nitrogen	1993-2008, 2015-2020	98% Likelihood Downward	-1.44	432 (394 - 474)
A319	Fecal Coliform	1976-2008, 2015-2020	100% Likelihood Downward	-0.333	58 (28.5 - 118)
A319	Orthophosphate Phosphorus	1981-2008, 2015-2020	100% Likelihood Downward	-0.208	11.8 (9.68 - 14.3)
A319	Total Phosphorus	1976-2008, 2015-2020	92% Likelihood Downward	-0.0381	25 (17.3 - 36.1)
A319	Total Suspended Solids	1976-2008, 2015-2020	100% Likelihood Downward	-0.03	6.64 (3.57 - 12.4)
A319	Turbidity	1976-2008, 2015-2020	87% Likelihood Downward	-0.00263	3.16 (1.61 - 6.2)
A319	Temperature	1976-2008, 2015-2020	Trend About as Likely as Not	0	9.96 (9.25 - 10.7)
A319	Dissolved Oxygen	1976-2008, 2015-2020	100% Likelihood Downward	-0.01	11.1 (10.9 - 11.3)
A319	pH	1976-2008, 2015-2020	98% Likelihood Upward	0.000909	7.3 (7.21 - 7.4)
A319	Conductivity	1976-2008, 2015-2020	100% Likelihood Downward	-0.148	71.4 (61.4 - 81.5)
A319	Total Alkalinity	1998-2008, 2015-2020	99% Likelihood Downward	-0.1	27 (25.1 - 28.9)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
A320	Ammonia Nitrogen	1979-2020	100% Likelihood Downward	-0.0913	13 (10.3 - 16.5)
A320	Nitrite + Nitrate Nitrogen	1979-2020	Trend About as Likely as Not	0.14	893 (830 - 960)
A320	Total Nitrogen	1993-2020	100% Likelihood Downward	-9.92	1150 (1070 - 1230)
A320	Fecal Coliform	1979-2020	100% Likelihood Downward	-0.423	101 (50.2 - 203)
A320	Orthophosphate Phosphorus	1979-2020	100% Likelihood Downward	-0.228	16.6 (15 - 18.4)
A320	Total Phosphorus	1979-2020	Trend About as Likely as Not	0.00227	31.3 (25.7 - 38.1)
A320	Total Suspended Solids	1979-2020	76% Likelihood Upward	0.00392	5.74 (3.29 - 10)
A320	Turbidity	1979-2008, 2012-2020	100% Likelihood Upward	0.0133	2.35 (1.37 - 4.05)
A320	Temperature	1979-2020	95% Likelihood Upward	0.00769	9.87 (9.4 - 10.3)
A320	Dissolved Oxygen	1979-2020	100% Likelihood Downward	-0.00476	11.1 (10.9 - 11.4)
A320	pH	1979-2020	100% Likelihood Upward	0.00143	7.53 (7.43 - 7.64)
A320	Conductivity	1979-2020	100% Likelihood Upward	0.654	123 (118 - 128)
A320	Total Alkalinity	1998-2020	100% Likelihood Upward	0.106	48.1 (46.4 - 49.7)
A432	Ammonia Nitrogen	1979-2008, 2013-2020	100% Likelihood Downward	-0.128	25.8 (20.3 - 32.8)
A432	Nitrite + Nitrate Nitrogen	1979-2008, 2013-2020	100% Likelihood Downward	-3.52	1240 (1180 - 1300)
A432	Total Nitrogen	1993-2008, 2013-2020	100% Likelihood Downward	-9.6	1540 (1490 - 1590)
A432	Fecal Coliform	1979-2008, 2013-2020	100% Likelihood Downward	-3.33	320 (225 - 456)
A432	Orthophosphate Phosphorus	1979-2008, 2013-2020	100% Likelihood Downward	-0.207	30 (26.3 - 34.2)
A432	Total Phosphorus	1979-2008, 2013-2020	Trend About as Likely as Not	-0.00626	62 (52.3 - 73.6)
A432	Total Suspended Solids	1979-2008, 2013-2020	73% Likelihood Downward	-0.00769	13.1 (8.69 - 19.9)
A432	Turbidity	1979-2008, 2013-2020	100% Likelihood Upward	0.04	5.13 (3.54 - 7.43)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
A432	Temperature	1979-2008, 2013-2020	100% Likelihood Upward	0.03	10.5 (10.1 - 11)
A432	Dissolved Oxygen	1979-2008, 2013-2020	100% Likelihood Downward	-0.00714	10.8 (10.6 - 11)
A432	pH	1979-2008, 2013-2020	87% Likelihood Upward	0	7.67 (7.57 - 7.78)
A432	Conductivity	1979-2008, 2013-2020	100% Likelihood Upward	0.522	192 (182 - 202)
A432	Total Alkalinity	1998-2008, 2013-2020	75% Likelihood Downward	-0.0421	72.3 (68.9 - 75.6)
A438	Ammonia Nitrogen	1976-2008, 2015-2020	100% Likelihood Downward	-0.104	12.6 (8.85 - 18.1)
A438	Nitrite + Nitrate Nitrogen	1976-2008, 2015-2020	100% Likelihood Downward	-0.65	227 (193 - 265)
A438	Total Nitrogen	1993-2008, 2015-2020	100% Likelihood Downward	-2.86	316 (273 - 365)
A438	Fecal Coliform	1976-2008, 2015-2020	100% Likelihood Downward	-0.383	35.1 (23.1 - 53.3)
A438	Orthophosphate Phosphorus	1981-2008, 2015-2020	100% Likelihood Downward	-0.179	7.22 (5.64 - 9.23)
A438	Total Phosphorus	1976-2008, 2015-2020	100% Likelihood Downward	-0.0913	15.7 (11.4 - 21.8)
A438	Total Suspended Solids	1976-2008, 2015-2020	100% Likelihood Downward	-0.0125	3.47 (1.88 - 6.4)
A438	Turbidity	1976-2008, 2015-2020	100% Likelihood Downward	-0.00476	1.53 (0.862 - 2.71)
A438	Temperature	1976-2008, 2015-2020	100% Likelihood Upward	0.0333	10.1 (9.44 - 10.7)
A438	Dissolved Oxygen	1976-2008, 2015-2020	96% Likelihood Downward	0	11.4 (11.2 - 11.6)
A438	pH	1976-2008, 2015-2020	100% Likelihood Upward	0.00435	7.41 (7.28 - 7.55)
A438	Conductivity	1976-2008, 2015-2020	93% Likelihood Upward	0.0429	63.5 (58.6 - 68.3)
A438	Total Alkalinity	1998-2008, 2015-2020	94% Likelihood Downward	-0.05	26.1 (24.3 - 27.8)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
A456	Ammonia Nitrogen	1979-2008, 2013-2020	69% Likelihood Downward	-0.015	38.3 (28.8 - 51)
A456	Nitrite + Nitrate Nitrogen	1979-2008, 2013-2020	100% Likelihood Downward	-10.6	560 (514 - 610)
A456	Total Nitrogen	1993-2008, 2013-2020	100% Likelihood Downward	-10.6	847 (779 - 920)
A456	Fecal Coliform	1979-2008, 2013-2020	100% Likelihood Downward	-5.88	309 (148 - 647)
A456	Orthophosphate Phosphorus	1979-2008, 2013-2020	100% Likelihood Downward	-0.367	54 (46.5 - 62.6)
A456	Total Phosphorus	1979-2008, 2013-2020	100% Likelihood Upward	0.511	95.4 (76.2 - 119)
A456	Total Suspended Solids	1979-2008, 2013-2020	95% Likelihood Downward	-0.0208	7.92 (4.88 - 12.9)
A456	Turbidity	1979-2008, 2013-2020	99% Likelihood Upward	0.0167	5.12 (3.65 - 7.16)
A456	Temperature	1979-2008, 2013-2020	100% Likelihood Upward	0.0316	10.8 (10.2 - 11.4)
A456	Dissolved Oxygen	1979-2008, 2013-2020	100% Likelihood Downward	-0.0571	9.43 (9.1 - 9.76)
A456	pH	1979-2008, 2013-2020	100% Likelihood Downward	-0.00455	7.37 (7.28 - 7.47)
A456	Conductivity	1979-2008, 2013-2020	100% Likelihood Upward	0.643	191 (180 - 201)
A456	Total Alkalinity	1998-2008, 2013-2020	99% Likelihood Downward	-0.2	80.9 (74.9 - 87)
A499	Ammonia Nitrogen	1979-2008, 2015-2020	99% Likelihood Downward	-0.0573	16.2 (11.8 - 22.3)
A499	Nitrite + Nitrate Nitrogen	1979-2008, 2015-2020	100% Likelihood Upward	17.8	1940 (1840 - 2040)
A499	Total Nitrogen	1993-2008, 2015-2020	100% Likelihood Upward	5.69	2290 (2230 - 2360)
A499	Fecal Coliform	1979-2008, 2015-2020	100% Likelihood Downward	-0.267	108 (47.4 - 247)
A499	Orthophosphate Phosphorus	1979-2008, 2015-2020	100% Likelihood Downward	-0.273	49.5 (46.2 - 53)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
A499	Total Phosphorus	1979-2008, 2015-2020	99% Likelihood Downward	-0.129	72.5 (65.4 - 80.2)
A499	Total Suspended Solids	1979-2008, 2015-2020	100% Likelihood Downward	-0.0363	10.5 (6.67 - 16.6)
A499	Turbidity	1979-2008, 2015-2020	100% Likelihood Upward	0.0226	3.78 (2.4 - 5.96)
A499	Temperature	1979-2008, 2015-2020	100% Likelihood Upward	0.0212	10.5 (10.2 - 10.9)
A499	Dissolved Oxygen	1979-2008, 2015-2020	100% Likelihood Downward	-0.00323	10.9 (10.7 - 11.2)
A499	pH	1979-2008, 2015-2020	100% Likelihood Upward	0.00368	7.87 (7.75 - 7.99)
A499	Conductivity	1979-2008, 2015-2020	100% Likelihood Upward	1.47	206 (198 - 213)
A499	Total Alkalinity	1998-2008, 2015-2020	100% Likelihood Upward	0.35	80.8 (77.9 - 83.7)
A617	Ammonia Nitrogen	1995-2008, 2013-2020	91% Likelihood Downward	-0.0541	11.1 (8.85 - 14)
A617	Nitrite + Nitrate Nitrogen	1995-2008, 2013-2020	100% Likelihood Downward	-13.5	772 (705 - 845)
A617	Total Nitrogen	1995-2008, 2013-2020	100% Likelihood Downward	-16.1	987 (891 - 1090)
A617	Fecal Coliform	1995-2008, 2013-2020	99% Likelihood Downward	-0.857	183 (81.8 - 410)
A617	Orthophosphate Phosphorus	1995-2008, 2013-2020	100% Likelihood Downward	-0.158	37.4 (34.6 - 40.4)
A617	Total Phosphorus	1995-2008, 2013-2020	100% Likelihood Downward	-0.352	61.4 (49.7 - 76)
A617	Total Suspended Solids	1995-2008, 2013-2020	88% Likelihood Downward	-0.01	6.79 (2.44 - 18.9)
A617	Turbidity	1995-2008, 2013-2020	Trend About as Likely as Not	0	3.97 (1.67 - 9.44)
A617	Temperature	1995-2008, 2013-2020	100% Likelihood Upward	0.0375	10.5 (10.1 - 11)
A617	Dissolved Oxygen	1995-2008, 2013-2020	90% Likelihood Downward	-0.00455	11.1 (10.9 - 11.3)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
A617	pH	1995-2008, 2013-2020	98% Likelihood Upward	0.00429	7.66 (7.58 - 7.74)
A617	Conductivity	1995-2008, 2013-2020	99% Likelihood Upward	0.5	159 (152 - 167)
A617	Total Alkalinity	1998-2008, 2013-2020	100% Likelihood Downward	-0.2	51.3 (48.2 - 54.3)
A620	Ammonia Nitrogen	1996-2008, 2013-2020	100% Likelihood Downward	-0.25	21.7 (16.3 - 28.9)
A620	Nitrite + Nitrate Nitrogen	1996-2008, 2013-2020	100% Likelihood Downward	-7.29	527 (480 - 579)
A620	Total Nitrogen	1996-2008, 2013-2020	100% Likelihood Downward	-7.76	750 (660 - 853)
A620	Fecal Coliform	1996-2020	100% Likelihood Downward	-13.3	534 (291 - 979)
A620	Orthophosphate Phosphorus	1996-2008, 2013-2020	100% Likelihood Downward	-0.316	21.9 (19.3 - 24.8)
A620	Total Phosphorus	1996-2008, 2013-2020	Trend About as Likely as Not	0.0197	45 (33.1 - 61.1)
A620	Total Suspended Solids	1996-2008, 2013-2020	Trend About as Likely as Not	0	5.06 (1.43 - 17.9)
A620	Turbidity	1996-2008, 2013-2020	Trend About as Likely as Not	0.00143	3.94 (1.52 - 10.2)
A620	Temperature	1996-2020	76% Likelihood Upward	0.00488	12.8 (12.2 - 13.4)
A620	Dissolved Oxygen	1996-2008, 2013-2020	67% Likelihood Downward	0	10.7 (10.5 - 10.9)
A620	pH	1996-2008, 2013-2020	100% Likelihood Downward	-0.00455	7.67 (7.59 - 7.75)
A620	Conductivity	1996-2008, 2013-2020	100% Likelihood Upward	1.11	214 (199 - 228)
A620	Total Alkalinity	1998-2008, 2013-2020	100% Likelihood Upward	0.536	87.5 (80.7 - 94.4)
A670	Ammonia Nitrogen	1988, 2015-2020	99% Likelihood Upward	0.394	17.5 (14.6 - 21)
A670	Nitrite + Nitrate Nitrogen	1988, 2015-2020	99% Likelihood Downward	-20	817 (789 - 845)
A670	Total Nitrogen	2015-2020	100% Likelihood Downward	-90.2	1110 (1060 - 1160)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
A670	Fecal Coliform	1988, 2015-2020	87% Likelihood Downward	-0.22	70.4 (34.7 - 143)
A670	Orthophosphate Phosphorus	1988, 2015-2020	Trend About as Likely as Not	0.0405	21.5 (20.6 - 22.3)
A670	Total Phosphorus	1988, 2015-2020	100% Likelihood Upward	0.845	49.2 (45.6 - 53)
A670	Total Suspended Solids	1988, 2015-2020	Trend About as Likely as Not	0.055	11.9 (8.39 - 16.8)
A670	Turbidity	1988, 2015-2020	97% Likelihood Upward	0.103	5 (3.88 - 6.45)
A670	Temperature	1988, 2015-2020	76% Likelihood Upward	0.0327	9.54 (9.37 - 9.71)
A670	Dissolved Oxygen	1988, 2015-2020	100% Likelihood Downward	-0.0207	11 (10.9 - 11)
A670	pH	1988, 2015-2020	100% Likelihood Downward	-0.00889	7.58 (7.54 - 7.63)
A670	Conductivity	1988, 2015-2020	100% Likelihood Upward	1.44	157 (151 - 163)
A670	Total Alkalinity	2015-2020	70% Likelihood Downward	0.08	65.6 (63.8 - 67.4)
A680	Ammonia Nitrogen	1988, 1995-2020	100% Likelihood Downward	-0.358	16.2 (14 - 18.7)
A680	Nitrite + Nitrate Nitrogen	1988, 1995-2020	100% Likelihood Downward	-3.92	364 (300 - 441)
A680	Total Nitrogen	1995-2020	100% Likelihood Downward	-4.68	741 (657 - 836)
A680	Fecal Coliform	1988, 1995-2020	100% Likelihood Downward	-1	123 (70.9 - 213)
A680	Orthophosphate Phosphorus	1988, 1995-2020	100% Likelihood Downward	-0.344	42.9 (40.3 - 45.7)
A680	Total Phosphorus	1988, 1995-2020	98% Likelihood Downward	-0.264	74.6 (67.4 - 82.5)
A680	Total Suspended Solids	1988, 1995-2020	100% Likelihood Downward	-0.036	6.63 (3.59 - 12.3)
A680	Turbidity	1988, 1995-2008, 2012-2020	75% Likelihood Upward	0.00667	3.07 (1.96 - 4.81)
A680	Temperature	1988, 1995-2020	89% Likelihood Upward	0.0105	9.7 (9.39 - 10)
A680	Dissolved Oxygen	1988, 1995-2020	86% Likelihood Upward	0.00167	10.6 (10.4 - 10.8)
A680	pH	1988, 1995-2020	96% Likelihood Upward	0.00182	7.39 (7.31 - 7.47)
A680	Conductivity	1988, 1995-2020	100% Likelihood Upward	0.591	136 (127 - 146)
A680	Total Alkalinity	1998-2020	99% Likelihood Upward	0.137	56.5 (51.9 - 61)
A685	Ammonia Nitrogen	1996-2008, 2013-2020	100% Likelihood Downward	-0.0772	9.78 (8.62 - 11.1)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
A685	Nitrite + Nitrate Nitrogen	1996-2008, 2013-2020	76% Likelihood Downward	-0.96	1240 (1170 - 1310)
A685	Total Nitrogen	1996-2008, 2013-2020	100% Likelihood Downward	-4.32	1460 (1410 - 1510)
A685	Fecal Coliform	1996-2008, 2013-2020	100% Likelihood Downward	-0.796	64.7 (33.3 - 126)
A685	Orthophosphate Phosphorus	1996-2008, 2013-2020	100% Likelihood Downward	-0.312	30.9 (28.6 - 33.4)
A685	Total Phosphorus	1996-2008, 2013-2020	100% Likelihood Downward	-0.415	48 (42.6 - 54.1)
A685	Total Suspended Solids	1996-2008, 2013-2020	90% Likelihood Downward	-0.0126	5.65 (3.14 - 10.2)
A685	Turbidity	1996-2008, 2013-2020	Trend About as Likely as Not	0	2.33 (1.39 - 3.91)
A685	Temperature	1996-2008, 2013-2020	98% Likelihood Upward	0.0143	9 (8.83 - 9.17)
A685	Dissolved Oxygen	1996-2008, 2013-2020	91% Likelihood Upward	0.00465	11.2 (11.1 - 11.4)
A685	pH	1996-2008, 2013-2020	100% Likelihood Upward	0.00929	7.63 (7.55 - 7.72)
A685	Conductivity	1996-2008, 2013-2020	100% Likelihood Upward	1.86	146 (140 - 153)
A685	Total Alkalinity	1998-2008, 2013-2020	100% Likelihood Upward	0.741	57.9 (55.1 - 60.6)
A690	Ammonia Nitrogen	1988, 1995-2008, 2015-2020	100% Likelihood Downward	-0.0527	8.79 (7.43 - 10.4)
A690	Nitrite + Nitrate Nitrogen	1988, 1995-2008, 2015-2020	100% Likelihood Upward	12.8	1890 (1760 - 2040)
A690	Total Nitrogen	1995-2008, 2015-2020	100% Likelihood Upward	11.3	2060 (1900 - 2240)
A690	Fecal Coliform	1988, 1995-2008, 2015-2020	73% Likelihood Upward	0	68.8 (42.2 - 112)
A690	Orthophosphate Phosphorus	1988, 1995-	98% Likelihood Downward	-0.0452	21.5 (19.3 - 24)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
		2008, 2015-2020			
A690	Total Phosphorus	1988, 1995-2008, 2015-2020	74% Likelihood Upward	0.0622	35.7 (27.3 - 46.7)
A690	Total Suspended Solids	1988, 1995-2008, 2015-2020	82% Likelihood Upward	0.0176	7.64 (3.23 - 18.1)
A690	Turbidity	1988, 1995-2008, 2015-2020	100% Likelihood Upward	0.0222	3.14 (1.54 - 6.41)
A690	Temperature	1988, 1995-2008, 2015-2020	88% Likelihood Upward	0.00976	9.39 (9 - 9.78)
A690	Dissolved Oxygen	1988, 1995-2008, 2015-2020	Trend About as Likely as Not	0	11.3 (11.1 - 11.4)
A690	pH	1988, 1995-2008, 2015-2020	100% Likelihood Upward	0.00719	7.59 (7.5 - 7.68)
A690	Conductivity	1988, 1995-2008, 2015-2020	100% Likelihood Upward	1.56	125 (116 - 134)
A690	Total Alkalinity	1998-2008, 2015-2020	100% Likelihood Upward	0.486	42.2 (38.5 - 45.9)
AMES_1	Ammonia Nitrogen	2011-2020	100% Likelihood Downward	-2.86	72.5 (53.8 - 97.8)
AMES_1	Nitrite + Nitrate Nitrogen	2011-2020	100% Likelihood Downward	-25.8	528 (465 - 599)
AMES_1	Total Nitrogen	2005-2006, 2011-2020	100% Likelihood Downward	-28.2	1080 (889 - 1320)
AMES_1	Fecal Coliform	2005-2006, 2011-2020	100% Likelihood Downward	-8.43	163 (84.6 - 312)
AMES_1	Orthophosphate Phosphorus	2011-2020	100% Likelihood Downward	-2.8	39.9 (34 - 46.9)
AMES_1	Total Phosphorus	2005-2006, 2011-2020	100% Likelihood Downward	-2.64	90.7 (75.2 - 110)
AMES_1	Total Suspended Solids	2011-2020	100% Likelihood Downward	-0.32	9.11 (6.66 - 12.5)
AMES_1	Turbidity	2012-2020	Trend About as Likely as Not	0.0333	8.03 (5.92 - 10.9)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
AMES_1	Temperature	2005-2006, 2011-2020	84% Likelihood Upward	0.0333	10 (8.94 - 11.1)
AMES_1	Dissolved Oxygen	2005-2006, 2011-2020	98% Likelihood Downward	-0.0429	8.85 (8.51 - 9.19)
AMES_1	pH	2005-2006, 2011-2020	100% Likelihood Downward	-0.0175	6.89 (6.78 - 7)
AMES_1	Conductivity	2011-2020	100% Likelihood Upward	1	135 (126 - 143)
AMES_1	Total Alkalinity	2011-2020	71% Likelihood Upward	0.116	53.9 (50.5 - 57.2)
B319	Ammonia Nitrogen	1973, 1976-2020	100% Likelihood Downward	-0.0971	10.4 (7.69 - 14.1)
B319	Nitrite + Nitrate Nitrogen	1973, 1976-2020	99% Likelihood Upward	0.487	197 (163 - 239)
B319	Total Nitrogen	1993-2020	100% Likelihood Downward	-1.71	292 (253 - 337)
B319	Fecal Coliform	1973, 1976-2020	100% Likelihood Downward	-0.143	11.8 (8.07 - 17.2)
B319	Orthophosphate Phosphorus	1981-2020	100% Likelihood Downward	-0.141	6.03 (4.68 - 7.77)
B319	Total Phosphorus	1976-2020	97% Likelihood Downward	-0.0275	16.3 (10.8 - 24.5)
B319	Total Suspended Solids	1973, 1976-2020	100% Likelihood Downward	-0.02	5.28 (2.64 - 10.5)
B319	Turbidity	1973, 1976-2008, 2012-2020	97% Likelihood Downward	-0.00323	2.66 (1.32 - 5.34)
B319	Temperature	1973, 1976-2020	Trend About as Likely as Not	0	9.78 (9.17 - 10.4)
B319	Dissolved Oxygen	1973, 1976-2020	100% Likelihood Downward	-0.00455	11.7 (11.4 - 11.9)
B319	pH	1973, 1976-2020	100% Likelihood Upward	0.00667	7.54 (7.45 - 7.62)
B319	Conductivity	1973, 1976-2020	100% Likelihood Downward	-0.15	59.8 (51.4 - 68.2)
B319	Total Alkalinity	1973, 1998-2020	100% Likelihood Downward	-0.075	22.8 (21.5 - 24)
B484	Ammonia Nitrogen	1972-1973, 1979-2008, 2013-2020	100% Likelihood Downward	-0.115	17.7 (13.6 - 23)
B484	Nitrite + Nitrate Nitrogen	1972-1973, 1979-2008, 2013-2020	100% Likelihood Downward	-5.85	346 (312 - 385)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
B484	Total Nitrogen	1993-2008, 2013-2020	100% Likelihood Downward	-3.77	672 (614 - 735)
B484	Fecal Coliform	1973, 1979-2008, 2013-2020	100% Likelihood Downward	-2.54	119 (73.3 - 193)
B484	Orthophosphate Phosphorus	1979-2008, 2013-2020	100% Likelihood Downward	-0.397	30 (25.5 - 35.3)
B484	Total Phosphorus	1979-2008, 2013-2020	86% Likelihood Downward	-0.0541	57.5 (50.8 - 65.1)
B484	Total Suspended Solids	1972-1973, 1979-2008, 2013-2020	100% Likelihood Downward	-0.0771	5.92 (4.63 - 7.56)
B484	Turbidity	1972-1973, 1979-2008, 2013-2020	99% Likelihood Upward	0.0105	3.63 (2.98 - 4.41)
B484	Temperature	1972-1973, 1979-2008, 2013-2020	100% Likelihood Upward	0.05	10.5 (9.82 - 11.1)
B484	Dissolved Oxygen	1972-1973, 1979-2008, 2013-2020	100% Likelihood Downward	-0.085	8.83 (8.33 - 9.33)
B484	pH	1972-1973, 1979-2008, 2013-2020	100% Likelihood Downward	-0.00633	7.11 (7.02 - 7.2)
B484	Conductivity	1972-1973, 1979-2008, 2013-2020	100% Likelihood Upward	1.15	126 (116 - 135)
B484	Total Alkalinity	1972-1973, 1998-2008, 2013-2020	100% Likelihood Upward	0.593	55.9 (53 - 58.8)
BB470	Ammonia Nitrogen	1999-2008, 2015-2020	99% Likelihood Downward	-0.037	11.3 (10.2 - 12.5)
BB470	Nitrite + Nitrate Nitrogen	1999-2008, 2015-2020	100% Likelihood Downward	-15.1	852 (806 - 901)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
BB470	Total Nitrogen	1999-2008, 2015-2020	100% Likelihood Downward	-17.3	1160 (1120 - 1210)
BB470	Fecal Coliform	1999-2008, 2015-2020	100% Likelihood Downward	-1.95	129 (98.3 - 168)
BB470	Orthophosphate Phosphorus	1999-2008, 2015-2020	100% Likelihood Downward	-0.598	22.8 (22.2 - 23.4)
BB470	Total Phosphorus	1999-2008, 2015-2020	100% Likelihood Downward	-0.58	44.4 (39.5 - 49.8)
BB470	Total Suspended Solids	1999-2008, 2015-2020	85% Likelihood Upward	0.0153	3.62 (2.45 - 5.35)
BB470	Turbidity	1999-2008, 2015-2020	97% Likelihood Upward	0.0143	2.39 (1.78 - 3.23)
BB470	Temperature	1999-2008, 2015-2020	100% Likelihood Upward	0.0856	10.5 (9.58 - 11.5)
BB470	Dissolved Oxygen	1999-2008, 2015-2020	93% Likelihood Upward	0.00909	11.1 (10.9 - 11.4)
BB470	pH	1999-2008, 2015-2020	100% Likelihood Upward	0.01	7.79 (7.73 - 7.86)
BB470	Conductivity	1999-2008, 2015-2020	99% Likelihood Upward	0.6	175 (170 - 181)
BB470	Total Alkalinity	1999-2008, 2015-2020	84% Likelihood Upward	0.0917	65.3 (62.5 - 68)
BSE_1MUDMTNRD	Ammonia Nitrogen	2015-2020	Trend About as Likely as Not	0.165	32.8 (10.7 - 100)
BSE_1MUDMTNRD	Nitrite + Nitrate Nitrogen	2015-2020	100% Likelihood Downward	-26.8	529 (469 - 596)
BSE_1MUDMTNRD	Total Nitrogen	2015-2020	100% Likelihood Downward	-26.9	781 (680 - 897)
BSE_1MUDMTNRD	Fecal Coliform	2015-2020	Trend About as Likely as Not	0.333	145 (91.6 - 228)
BSE_1MUDMTNRD	Orthophosphate Phosphorus	2015-2020	98% Likelihood Downward	-0.575	18.7 (12.9 - 27.1)
BSE_1MUDMTNRD	Total Phosphorus	2015-2020	75% Likelihood Downward	0.221	42.8 (34.4 - 53.3)
BSE_1MUDMTNRD	Total Suspended Solids	2015-2020	75% Likelihood Downward	0.01	5.67 (4.12 - 7.81)
BSE_1MUDMTNRD	Turbidity	2015-2020	83% Likelihood Downward	-0.00375	4.04 (2.97 - 5.5)
BSE_1MUDMTNRD	Temperature	2015-2020	93% Likelihood Downward	-0.1	9.89 (9.54 - 10.2)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
BSE_1MUDMTNRD	Dissolved Oxygen	2015-2020	84% Likelihood Upward	0.05	11.2 (11.1 - 11.3)
BSE_1MUDMTNRD	pH	2015-2020	96% Likelihood Downward	-0.0075	7.65 (7.63 - 7.68)
BSE_1MUDMTNRD	Conductivity	2015-2020	82% Likelihood Downward	-1.05	74 (72.4 - 75.5)
BSE_1MUDMTNRD	Total Alkalinity	2015-2020	100% Likelihood Downward	-0.75	27.6 (26.3 - 29)
C320	Ammonia Nitrogen	1979-2008, 2013-2020	100% Likelihood Downward	-0.0877	12.9 (10.1 - 16.5)
C320	Nitrite + Nitrate Nitrogen	1979-2008, 2013-2020	100% Likelihood Upward	4.27	659 (577 - 754)
C320	Total Nitrogen	1993-2008, 2013-2020	100% Likelihood Downward	-11.6	941 (818 - 1080)
C320	Fecal Coliform	1979-2008, 2013-2020	96% Likelihood Downward	-0.0952	54.9 (36.5 - 82.8)
C320	Orthophosphate Phosphorus	1979-2008, 2013-2020	100% Likelihood Downward	-0.195	8.24 (6.52 - 10.4)
C320	Total Phosphorus	1979-2008, 2013-2020	86% Likelihood Downward	-0.0168	16.6 (14.4 - 19.2)
C320	Total Suspended Solids	1979-2008, 2013-2020	100% Likelihood Downward	-0.029	2.39 (1.83 - 3.11)
C320	Turbidity	1979-2008, 2013-2020	80% Likelihood Downward	0	1.13 (0.899 - 1.42)
C320	Temperature	1979-2008, 2013-2020	100% Likelihood Upward	0.0174	10.4 (9.77 - 11)
C320	Dissolved Oxygen	1979-2008, 2013-2020	100% Likelihood Downward	-0.0103	10.5 (10.3 - 10.8)
C320	pH	1979-2008, 2013-2020	98% Likelihood Downward	-0.00074	7.39 (7.29 - 7.49)
C320	Conductivity	1979-2008, 2013-2020	100% Likelihood Upward	0.324	124 (117 - 130)
C320	Total Alkalinity	1998-2008, 2013-2020	Trend About as Likely as Not	-0.0118	47.3 (44.7 - 49.8)
C370	Ammonia Nitrogen	1979-1982, 1993-2008, 2013-2020	73% Likelihood Downward	-0.0341	37.5 (25.9 - 54.3)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
C370	Nitrite + Nitrate Nitrogen	1979-1982, 1993-2008, 2013-2020	99% Likelihood Downward	-2.67	932 (870 - 997)
C370	Total Nitrogen	1993-2008, 2013-2020	89% Likelihood Downward	-1.9	1250 (1160 - 1340)
C370	Fecal Coliform	1979-1982, 1993-2008, 2013-2020	100% Likelihood Downward	-6.22	637 (293 - 1390)
C370	Orthophosphate Phosphorus	1979-1982, 1993-2008, 2013-2020	100% Likelihood Downward	-0.185	48.2 (41.8 - 55.7)
C370	Total Phosphorus	1979-1982, 1993-2008, 2013-2020	100% Likelihood Upward	0.292	91.4 (68.6 - 122)
C370	Total Suspended Solids	1979-1982, 1996-2008, 2013-2020	100% Likelihood Upward	0.0592	8.79 (4.17 - 18.5)
C370	Turbidity	1979-1982, 1993-2008, 2013-2020	100% Likelihood Upward	0.0639	7.74 (4.71 - 12.7)
C370	Temperature	1979-1982, 1993-1999, 2001-2008, 2013-2020	76% Likelihood Upward	0.00476	11.1 (10 - 12.2)
C370	Dissolved Oxygen	1979-1982, 1993-2008, 2013-2020	100% Likelihood Downward	-0.0143	10.5 (10.2 - 10.8)
C370	pH	1979-1982, 1993-2008, 2013-2020	100% Likelihood Downward	-0.00553	7.7 (7.51 - 7.89)
C370	Conductivity	1979-1982, 1993-	97% Likelihood Upward	0.435	272 (243 - 302)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
		2008, 2013-2020			
C370	Total Alkalinity	1998-2008, 2013-2020	89% Likelihood Downward	-0.143	102 (95.8 - 109)
C446	Ammonia Nitrogen	1977, 1979-2008	100% Likelihood Downward	-0.283	24.2 (19.3 - 30.3)
C446	Nitrite + Nitrate Nitrogen	1977, 1979-2008	100% Likelihood Downward	-5.52	1280 (1200 - 1370)
C446	Total Nitrogen	1993-2008	100% Likelihood Downward	-28.9	1560 (1470 - 1650)
C446	Fecal Coliform	1977, 1979-2008	91% Likelihood Upward	1.43	604 (315 - 1160)
C446	Orthophosphate Phosphorus	1977, 1979-2008	100% Likelihood Downward	-0.448	31.9 (26.7 - 38)
C446	Total Phosphorus	1977, 1979-2008	Trend About as Likely as Not	0	52.5 (43.2 - 63.6)
C446	Total Suspended Solids	1977, 1979-2008	100% Likelihood Downward	-0.0642	6.89 (2.95 - 16.1)
C446	Turbidity	1977, 1979-2008	100% Likelihood Downward	-0.0253	4.13 (2.23 - 7.62)
C446	Temperature	1977, 1979-2008	91% Likelihood Upward	0.012	10.9 (10.2 - 11.6)
C446	Dissolved Oxygen	1977, 1979-2008	94% Likelihood Downward	-0.00435	10.7 (10.5 - 10.9)
C446	pH	1977, 1979-2008	97% Likelihood Upward	0	7.64 (7.53 - 7.74)
C446	Conductivity	1977, 1979-2008	100% Likelihood Upward	1.15	188 (178 - 198)
C446	Total Alkalinity	1998-2008	92% Likelihood Upward	0.237	74.7 (68.8 - 80.6)
C484	Ammonia Nitrogen	1974, 1979-2008, 2013-2020	100% Likelihood Downward	-0.24	26 (18.5 - 36.6)
C484	Nitrite + Nitrate Nitrogen	1974, 1979-2008, 2013-2020	91% Likelihood Downward	-0.563	691 (636 - 751)
C484	Total Nitrogen	1993-2008, 2013-2020	100% Likelihood Downward	-8.25	1030 (943 - 1120)
C484	Fecal Coliform	1974, 1979-2008, 2013-2020	100% Likelihood Downward	-4.46	254 (145 - 446)
C484	Orthophosphate Phosphorus	1974, 1979-2008, 2013-2020	100% Likelihood Downward	-0.336	24 (20.2 - 28.6)
C484	Total Phosphorus	1974, 1979-	100% Likelihood Downward	-0.404	50.4 (44.3 - 57.3)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
		2008, 2013-2020			
C484	Total Suspended Solids	1974, 1979-2008, 2013-2020	100% Likelihood Downward	-0.09	8.35 (6.21 - 11.2)
C484	Turbidity	1974, 1979-2008, 2013-2020	99% Likelihood Upward	0.0109	3.73 (2.9 - 4.8)
C484	Temperature	1974, 1979-2008, 2013-2020	100% Likelihood Upward	0.0375	10.4 (9.7 - 11.1)
C484	Dissolved Oxygen	1974, 1979-2008, 2013-2020	Trend About as Likely as Not	0	10.6 (10.2 - 11.1)
C484	pH	1974, 1979-2008, 2013-2020	100% Likelihood Upward	0.00518	7.38 (7.28 - 7.49)
C484	Conductivity	1974, 1979-2008, 2013-2020	100% Likelihood Upward	1.11	112 (106 - 118)
C484	Total Alkalinity	1974, 1998-2008, 2013-2020	100% Likelihood Upward	0.4	45.8 (43.5 - 48.1)
CHERRY_1	Ammonia Nitrogen	2011-2020	81% Likelihood Downward	-0.04	5.63 (5.06 - 6.26)
CHERRY_1	Nitrite + Nitrate Nitrogen	2011-2020	100% Likelihood Downward	-12	455 (366 - 565)
CHERRY_1	Total Nitrogen	2005-2006, 2011-2020	100% Likelihood Downward	-14	597 (486 - 734)
CHERRY_1	Fecal Coliform	2005-2006, 2011-2020	85% Likelihood Downward	-0.125	31.8 (24.8 - 40.8)
CHERRY_1	Orthophosphate Phosphorus	2011-2020	95% Likelihood Downward	-0.0483	6.95 (3.96 - 12.2)
CHERRY_1	Total Phosphorus	2005-2006, 2011-2020	96% Likelihood Downward	-0.183	15.2 (13.5 - 17.1)
CHERRY_1	Total Suspended Solids	2011-2020	73% Likelihood Upward	0.03	3.5 (2.3 - 5.34)
CHERRY_1	Turbidity	2012-2020	80% Likelihood Upward	0.0229	1.78 (1.42 - 2.23)
CHERRY_1	Temperature	2005-2006, 2011-2020	Trend About as Likely as Not	0.0106	10.1 (8.99 - 11.3)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
CHERRY_1	Dissolved Oxygen	2005-2006, 2011-2020	100% Likelihood Upward	0.0387	11.2 (10.8 - 11.5)
CHERRY_1	pH	2005-2006, 2011-2020	75% Likelihood Upward	0.00286	7.41 (7.32 - 7.5)
CHERRY_1	Conductivity	2011-2020	96% Likelihood Upward	0.425	56.2 (53.6 - 58.7)
CHERRY_1	Total Alkalinity	2011-2020	82% Likelihood Downward	-0.0792	21.1 (19.9 - 22.2)
D320	Ammonia Nitrogen	1979-2020	100% Likelihood Downward	-0.0296	10.1 (7.89 - 12.8)
D320	Nitrite + Nitrate Nitrogen	1979-2020	100% Likelihood Upward	3.39	1060 (986 - 1150)
D320	Total Nitrogen	1993-2020	100% Likelihood Downward	-11.4	1300 (1200 - 1410)
D320	Fecal Coliform	1979-2020	100% Likelihood Downward	-0.85	53.8 (36.8 - 78.7)
D320	Orthophosphate Phosphorus	1979-2020	100% Likelihood Downward	-0.239	14.4 (13.3 - 15.6)
D320	Total Phosphorus	1979-2020	95% Likelihood Downward	-0.0328	24.8 (23 - 26.7)
D320	Total Suspended Solids	1979-2020	77% Likelihood Downward	-0.0007	2.81 (2.3 - 3.44)
D320	Turbidity	1979-2008, 2012-2020	100% Likelihood Upward	0.0131	1.44 (1.18 - 1.75)
D320	Temperature	1979-2020	100% Likelihood Upward	0.0294	10.5 (10 - 11)
D320	Dissolved Oxygen	1979-2020	100% Likelihood Downward	-0.0125	10.9 (10.6 - 11.1)
D320	pH	1979-2020	Trend About as Likely as Not	0	7.35 (7.28 - 7.43)
D320	Conductivity	1979-2020	100% Likelihood Upward	0.947	119 (112 - 125)
D320	Total Alkalinity	1998-2020	100% Likelihood Upward	0.15	45.7 (43.9 - 47.5)
D444	Ammonia Nitrogen	1979-2008	100% Likelihood Downward	-0.167	26.1 (14.6 - 46.6)
D444	Nitrite + Nitrate Nitrogen	1979-2008	98% Likelihood Upward	2.82	848 (788 - 912)
D444	Total Nitrogen	1993-2008	100% Likelihood Downward	-10.3	1260 (1190 - 1340)
D444	Fecal Coliform	1979-2008	92% Likelihood Downward	-1.11	385 (253 - 585)
D444	Orthophosphate Phosphorus	1979-2008	100% Likelihood Downward	-0.583	45.7 (38.9 - 53.6)
D444	Total Phosphorus	1979-2008	77% Likelihood Downward	-0.0849	79 (65.2 - 95.8)
D444	Total Suspended Solids	1979-2008	100% Likelihood Downward	-0.0875	6 (3.7 - 9.73)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
D444	Turbidity	1979-2008	100% Likelihood Downward	-0.025	3.77 (2.41 - 5.9)
D444	Temperature	1979-2008	100% Likelihood Upward	0.0628	11.3 (10.7 - 11.8)
D444	Dissolved Oxygen	1979-2008	99% Likelihood Upward	0.0111	11 (10.8 - 11.2)
D444	pH	1979-2008	100% Likelihood Upward	0.0115	7.75 (7.6 - 7.9)
D444	Conductivity	1979-2008	100% Likelihood Upward	2.54	182 (168 - 195)
D444	Total Alkalinity	1998-2008	100% Likelihood Upward	0.8	80.8 (74.6 - 87)
D474	Ammonia Nitrogen	1974, 1979-1980, 1999-2008, 2015-2020	100% Likelihood Downward	-0.333	30.5 (23.8 - 39.1)
D474	Nitrite + Nitrate Nitrogen	1974, 1979-1980, 1999-2008, 2015-2020	94% Likelihood Downward	-2.02	775 (736 - 817)
D474	Total Nitrogen	1999-2008, 2015-2020	100% Likelihood Downward	-9.66	1130 (1080 - 1190)
D474	Fecal Coliform	1974, 1979-1980, 1999-2008, 2015-2020	100% Likelihood Downward	-3.88	206 (132 - 321)
D474	Orthophosphate Phosphorus	1974, 1979-1980, 1999-2008, 2015-2020	100% Likelihood Downward	-0.3	43 (39.4 - 47)
D474	Total Phosphorus	1974, 1979-1980, 1999-2008, 2015-2020	100% Likelihood Downward	-0.458	86.1 (76.9 - 96.4)
D474	Total Suspended Solids	1974, 1979-1980, 1999-2008, 2015-2020	100% Likelihood Downward	-0.044	7 (5.08 - 9.65)
D474	Turbidity	1974, 1979-1980,	78% Likelihood Upward	0.00647	4.38 (3.47 - 5.51)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
		1999-2008, 2015-2020			
D474	Temperature	1974, 1979-1980, 1999-2008, 2015-2020	97% Likelihood Upward	0.0133	10.2 (9.19 - 11.2)
D474	Dissolved Oxygen	1974, 1979-1980, 1999-2008, 2015-2020	Trend About as Likely as Not	0	10.8 (10.4 - 11.2)
D474	pH	1974, 1979-1980, 1999-2008, 2015-2020	100% Likelihood Upward	0.0042	7.5 (7.43 - 7.57)
D474	Conductivity	1974, 1979-1980, 1999-2008, 2015-2020	100% Likelihood Upward	1.45	162 (157 - 166)
D474	Total Alkalinity	1974, 1999-2008, 2015-2020	100% Likelihood Upward	0.441	63 (60.9 - 65.2)
FF321	Ammonia Nitrogen	1993-2008, 2013-2020	100% Likelihood Downward	-0.05	8.31 (6.25 - 11.1)
FF321	Nitrite + Nitrate Nitrogen	1993-2008, 2013-2020	86% Likelihood Downward	-0.783	665 (611 - 724)
FF321	Total Nitrogen	1993-2008, 2013-2020	96% Likelihood Downward	-1.32	767 (690 - 851)
FF321	Fecal Coliform	1993-2008, 2013-2020	95% Likelihood Downward	0	12.2 (8.5 - 17.4)
FF321	Orthophosphate Phosphorus	1993-2008, 2013-2020	100% Likelihood Downward	-0.265	14.5 (13.8 - 15.1)
FF321	Total Phosphorus	1993-2008, 2013-2020	100% Likelihood Downward	-0.154	22.5 (17.7 - 28.5)
FF321	Total Suspended Solids	1993-2008, 2011, 2013-2020	84% Likelihood Upward	0.00125	1.69 (1.02 - 2.81)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
FF321	Turbidity	1993-2008, 2013-2020	100% Likelihood Upward	0.00667	1.04 (0.624 - 1.73)
FF321	Temperature	1993-2008, 2013-2020	99% Likelihood Upward	0.00769	9.13 (8.8 - 9.47)
FF321	Dissolved Oxygen	1993-2008, 2013-2020	71% Likelihood Downward	0	11.5 (11.3 - 11.6)
FF321	pH	1993-2008, 2013-2020	100% Likelihood Upward	0.00789	7.67 (7.56 - 7.77)
FF321	Conductivity	1993-2008, 2013-2020	100% Likelihood Upward	0.6	110 (106 - 115)
FF321	Total Alkalinity	1998-2008, 2011, 2013-2020	100% Likelihood Upward	0.333	44.5 (41.3 - 47.6)
G320	Ammonia Nitrogen	1972-1973, 1979-2008, 2013-2020	100% Likelihood Downward	-0.17	13.7 (10.7 - 17.6)
G320	Nitrite + Nitrate Nitrogen	1972-1973, 1979-2008, 2013-2020	100% Likelihood Downward	-1.5	335 (276 - 406)
G320	Total Nitrogen	1993-2008, 2013-2020	100% Likelihood Downward	-3.98	557 (466 - 665)
G320	Fecal Coliform	1973, 1979-2008, 2013-2020	100% Likelihood Downward	-6.46	278 (191 - 406)
G320	Orthophosphate Phosphorus	1979-2008, 2013-2020	100% Likelihood Downward	-0.175	6.75 (5.25 - 8.67)
G320	Total Phosphorus	1979-2008, 2013-2020	100% Likelihood Downward	-0.152	23.5 (20 - 27.6)
G320	Total Suspended Solids	1972-1973, 1979-2008, 2013-2020	100% Likelihood Downward	-0.04	4.53 (3.44 - 5.96)
G320	Turbidity	1972-1973, 1979-2008, 2013-2020	100% Likelihood Upward	0.0131	2.24 (1.73 - 2.92)
G320	Temperature	1972-1973,	100% Likelihood Upward	0.0309	11.3 (10.4 - 12.3)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
		1979-2008, 2013-2020			
G320	Dissolved Oxygen	1972-1973, 1979-2008, 2013-2020	99% Likelihood Downward	-0.00465	10.7 (10.4 - 11)
G320	pH	1972-1973, 1979-2008, 2013-2020	100% Likelihood Upward	0.00366	7.34 (7.24 - 7.44)
G320	Conductivity	1972-1973, 1979-2008, 2013-2020	99% Likelihood Upward	0.0459	61 (57.1 - 64.8)
G320	Total Alkalinity	1972-1973, 1998-2008, 2013-2020	100% Likelihood Upward	0.0398	19.3 (17.8 - 20.8)
GRIFFIN	Ammonia Nitrogen	2011-2020	72% Likelihood Upward	0.0416	4.9 (4.64 - 5.17)
GRIFFIN	Nitrite + Nitrate Nitrogen	2011-2020	100% Likelihood Downward	-9.77	397 (324 - 488)
GRIFFIN	Total Nitrogen	2011-2020	100% Likelihood Downward	-12.3	552 (481 - 635)
GRIFFIN	Fecal Coliform	2011-2020	Trend About as Likely as Not	0	26.5 (19.2 - 36.7)
GRIFFIN	Orthophosphate Phosphorus	2011-2020	75% Likelihood Downward	-0.03	7.74 (7.09 - 8.45)
GRIFFIN	Total Phosphorus	2011-2020	99% Likelihood Upward	0.4	17.9 (15.8 - 20.4)
GRIFFIN	Total Suspended Solids	2011-2020	99% Likelihood Downward	-0.0667	2.72 (1.74 - 4.26)
GRIFFIN	Turbidity	2012-2020	81% Likelihood Downward	-0.00833	1.62 (1.28 - 2.05)
GRIFFIN	Temperature	2011-2020	77% Likelihood Downward	-0.025	9.63 (9.01 - 10.2)
GRIFFIN	Dissolved Oxygen	2011-2020	100% Likelihood Upward	0.0778	11.2 (11 - 11.4)
GRIFFIN	pH	2011-2020	Trend About as Likely as Not	0.00167	7.4 (7.35 - 7.46)
GRIFFIN	Conductivity	2011-2020	78% Likelihood Upward	0.3	60.6 (57.7 - 63.4)
GRIFFIN	Total Alkalinity	2011-2020	Trend About as Likely as Not	0	24.6 (23.2 - 26.1)
HARRIS_1	Ammonia Nitrogen	2011-2020	75% Likelihood Downward	0	5.59 (4.98 - 6.27)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
HARRIS_1	Nitrite + Nitrate Nitrogen	2011-2020	86% Likelihood Downward	-4.62	542 (517 - 567)
HARRIS_1	Total Nitrogen	2005-2006, 2011-2020	100% Likelihood Downward	-15	766 (713 - 822)
HARRIS_1	Fecal Coliform	2005-2006, 2011-2020	80% Likelihood Upward	0.232	35 (19.9 - 61.3)
HARRIS_1	Orthophosphate Phosphorus	2011-2020	Trend About as Likely as Not	0.015	9.56 (8.51 - 10.7)
HARRIS_1	Total Phosphorus	2005-2006, 2011-2020	Trend About as Likely as Not	0.0571	25.3 (20.1 - 32)
HARRIS_1	Total Suspended Solids	2011-2020	94% Likelihood Upward	0.2	7.18 (5.68 - 9.06)
HARRIS_1	Turbidity	2012-2020	99% Likelihood Upward	0.119	3.06 (2.45 - 3.81)
HARRIS_1	Temperature	2005-2006, 2011-2020	92% Likelihood Upward	0.05	9.57 (8.42 - 10.7)
HARRIS_1	Dissolved Oxygen	2005-2006, 2011-2020	100% Likelihood Upward	0.0375	11.1 (10.7 - 11.5)
HARRIS_1	pH	2005-2006, 2011-2020	100% Likelihood Downward	-0.0122	7.4 (7.36 - 7.44)
HARRIS_1	Conductivity	2011-2020	99% Likelihood Upward	0.8	70.5 (66.7 - 74.2)
HARRIS_1	Total Alkalinity	2011-2020	73% Likelihood Downward	-0.0633	26.8 (25.2 - 28.4)
J370	Ammonia Nitrogen	1993-2008	96% Likelihood Upward	0.27	34 (17.1 - 67.6)
J370	Nitrite + Nitrate Nitrogen	1993-2008	86% Likelihood Upward	5.16	1040 (966 - 1120)
J370	Total Nitrogen	1993-2008	Trend About as Likely as Not	1.98	1380 (1230 - 1550)
J370	Fecal Coliform	1993-2008	100% Likelihood Downward	-20	906 (389 - 2110)
J370	Orthophosphate Phosphorus	1993-2008	99% Likelihood Downward	-0.205	35.1 (29.6 - 41.5)
J370	Total Phosphorus	1993-2008	99% Likelihood Upward	0.692	71.5 (57.5 - 88.9)
J370	Total Suspended Solids	1996-2008	90% Likelihood Upward	0.04	5.22 (2.4 - 11.3)
J370	Turbidity	1993-2008	98% Likelihood Upward	0.0378	5.19 (3.39 - 7.97)
J370	Temperature	1993-1999, 2001-2008	99% Likelihood Downward	-0.0483	10.9 (9.82 - 12.1)
J370	Dissolved Oxygen	1993-2008	100% Likelihood Downward	-0.0429	10.2 (9.96 - 10.5)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
J370	pH	1993-2008	100% Likelihood Downward	-0.0106	7.61 (7.42 - 7.8)
J370	Conductivity	1993-2008	100% Likelihood Upward	1.18	270 (251 - 289)
J370	Total Alkalinity	1998-2008	100% Likelihood Upward	0.667	99 (93 - 105)
J484	Ammonia Nitrogen	1974, 1979-2008, 2016	100% Likelihood Downward	-0.115	24.3 (15.9 - 37.1)
J484	Nitrite + Nitrate Nitrogen	1974, 1979-2008, 2016	100% Likelihood Downward	-2.29	525 (463 - 595)
J484	Total Nitrogen	1993-2008, 2015-2016	100% Likelihood Downward	-8.83	817 (704 - 948)
J484	Fecal Coliform	1974, 1979-2008, 2015-2016	100% Likelihood Downward	-0.789	117 (85.2 - 162)
J484	Orthophosphate Phosphorus	1974, 1979-2008	100% Likelihood Downward	-0.248	20.4 (16.4 - 25.5)
J484	Total Phosphorus	1974, 1979-2008	100% Likelihood Downward	-0.209	40.8 (35 - 47.5)
J484	Total Suspended Solids	1974, 1979-2008, 2015-2016	100% Likelihood Downward	-0.0442	5.12 (3.97 - 6.61)
J484	Turbidity	1974, 1979-2008, 2015-2016	100% Likelihood Upward	0.01	2.24 (1.64 - 3.05)
J484	Temperature	1974, 1979-2008, 2015-2016	100% Likelihood Upward	0.0467	10.3 (9.38 - 11.3)
J484	Dissolved Oxygen	1974, 1979-2008, 2015-2016	100% Likelihood Downward	-0.0105	10.5 (10.1 - 10.9)
J484	pH	1974, 1979-2008, 2015-2016	99% Likelihood Upward	0.002	7.31 (7.18 - 7.43)
J484	Conductivity	1974, 1979-2008, 2015-2016	100% Likelihood Upward	0.944	91.2 (85.2 - 97.3)
J484	Total Alkalinity	1974, 1998-2008	100% Likelihood Upward	0.492	36.9 (34.8 - 38.9)
KSHZ06	Ammonia Nitrogen	1989-2020	88% Likelihood Upward	0.0303	18.3 (14.4 - 23.1)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
KSHZ06	Nitrite + Nitrate Nitrogen	1989-2020	99% Likelihood Upward	2.86	1450 (1370 - 1540)
KSHZ06	Total Nitrogen	1993-2020	100% Likelihood Downward	-4.08	1720 (1610 - 1830)
KSHZ06	Fecal Coliform	1987-2020	100% Likelihood Downward	-2.5	429 (203 - 906)
KSHZ06	Orthophosphate Phosphorus	1989-2020	87% Likelihood Downward	-0.0363	53.5 (48.1 - 59.6)
KSHZ06	Total Phosphorus	1989-2020	77% Likelihood Downward	-0.0589	83.3 (72.5 - 95.7)
KSHZ06	Total Suspended Solids	1989-2020	99% Likelihood Upward	0.0286	8.89 (5.91 - 13.4)
KSHZ06	Turbidity	1989-2008, 2012-2020	100% Likelihood Upward	0.04	4.01 (2.81 - 5.71)
KSHZ06	Temperature	1987-2020	100% Likelihood Upward	0.044	10.3 (9.62 - 11)
KSHZ06	Dissolved Oxygen	1989-2020	100% Likelihood Downward	-0.00909	10.8 (10.7 - 11)
KSHZ06	pH	1989-2020	88% Likelihood Upward	0.00125	7.74 (7.61 - 7.87)
KSHZ06	Conductivity	1989-2020	Trend About as Likely as Not	0	237 (225 - 250)
KSHZ06	Total Alkalinity	1998-2020	73% Likelihood Upward	0.0304	84.2 (80.2 - 88.1)
KTHA01	Ammonia Nitrogen	1999-2020	100% Likelihood Downward	-0.14	13.5 (9.6 - 19)
KTHA01	Nitrite + Nitrate Nitrogen	1999-2020	82% Likelihood Upward	1.12	1480 (1410 - 1560)
KTHA01	Total Nitrogen	2016-2020	98% Likelihood Downward	-51.2	1630 (1590 - 1670)
KTHA01	Fecal Coliform	1970-2020	100% Likelihood Downward	-1.86	280 (147 - 532)
KTHA01	Orthophosphate Phosphorus	2011-2020	89% Likelihood Downward	-0.123	50.8 (50.2 - 51.5)
KTHA01	Total Phosphorus	1999-2010, 2016-2020	100% Likelihood Downward	-1.63	87.4 (79.2 - 96.4)
KTHA01	Total Suspended Solids	2016-2020	82% Likelihood Downward	-0.2	6.15 (5.11 - 7.4)
KTHA01	Turbidity	2016-2020	100% Likelihood Downward	-0.024	3.66 (2.9 - 4.61)
KTHA01	Temperature	1970-1986, 1988-2020	100% Likelihood Upward	0.0286	11.2 (10.7 - 11.7)
KTHA01	Dissolved Oxygen	2016-2020	100% Likelihood Downward	-0.00571	10.7 (10.6 - 10.8)
KTHA01	pH	2016-2020	82% Likelihood Upward	0.00333	7.96 (7.95 - 7.97)
KTHA01	Conductivity	2016-2020	71% Likelihood Upward	0.357	247 (240 - 254)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
KTHA01	Total Alkalinity	2016-2020	98% Likelihood Downward	-0.667	88.1 (85.6 - 90.6)
KTHA02	Ammonia Nitrogen	1989-2008, 2015-2020	88% Likelihood Downward	-0.0146	18.7 (13.5 - 25.9)
KTHA02	Nitrite + Nitrate Nitrogen	1989-2008, 2015-2020	99% Likelihood Upward	3.28	1470 (1380 - 1570)
KTHA02	Total Nitrogen	1994-2008, 2015-2020	99% Likelihood Downward	-3.6	1750 (1670 - 1830)
KTHA02	Fecal Coliform	1987-2008, 2015-2020	96% Likelihood Downward	-1.04	407 (205 - 807)
KTHA02	Orthophosphate Phosphorus	1989-2008, 2015-2020	Trend About as Likely as Not	-0.00357	54.7 (49.7 - 60.2)
KTHA02	Total Phosphorus	1989-2008, 2015-2020	92% Likelihood Upward	0.117	80.4 (72.3 - 89.4)
KTHA02	Total Suspended Solids	1989-2008, 2015-2020	100% Likelihood Upward	0.035	7.43 (3.68 - 15)
KTHA02	Turbidity	1989-2008, 2015-2020	100% Likelihood Upward	0.043	3.59 (1.88 - 6.88)
KTHA02	Temperature	1987-2008, 2015-2020	100% Likelihood Upward	0.0333	10.9 (10.3 - 11.5)
KTHA02	Dissolved Oxygen	1989-2008, 2015-2020	85% Likelihood Downward	0	10.8 (10.7 - 11)
KTHA02	pH	1989-2008, 2015-2020	98% Likelihood Upward	0.00222	7.86 (7.75 - 7.98)
KTHA02	Conductivity	1989-2008, 2015-2020	96% Likelihood Upward	0.222	246 (233 - 259)
KTHA02	Total Alkalinity	1998-2008, 2015-2020	79% Likelihood Downward	-0.03	87.9 (84.1 - 91.7)
KTHA03	Ammonia Nitrogen	1989-2008, 2013-2020	74% Likelihood Downward	-0.018	11.4 (8.79 - 14.7)
KTHA03	Nitrite + Nitrate Nitrogen	1989-2008, 2013-2020	98% Likelihood Downward	-1.71	1370 (1300 - 1430)
KTHA03	Total Nitrogen	1993-2008, 2013-2020	100% Likelihood Downward	-7.46	1550 (1490 - 1610)
KTHA03	Fecal Coliform	1988-2008, 2013-2020	100% Likelihood Downward	-1.41	126 (65.7 - 242)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
KTHA03	Orthophosphate Phosphorus	1989-2008, 2013-2020	100% Likelihood Downward	-0.133	54.7 (50.2 - 59.6)
KTHA03	Total Phosphorus	1989-2008, 2013-2020	85% Likelihood Downward	-0.062	71.8 (66.3 - 77.8)
KTHA03	Total Suspended Solids	1989-2008, 2013-2020	96% Likelihood Upward	0.02	6.11 (3.1 - 12.1)
KTHA03	Turbidity	1989-2008, 2013-2020	100% Likelihood Upward	0.0312	2.38 (1.26 - 4.51)
KTHA03	Temperature	1988-2008, 2013-2020	100% Likelihood Upward	0.0533	10.1 (9.67 - 10.5)
KTHA03	Dissolved Oxygen	1989-2008, 2013-2020	100% Likelihood Downward	-0.0111	11 (10.8 - 11.1)
KTHA03	pH	1989-2008, 2013-2020	90% Likelihood Upward	0.000833	7.86 (7.75 - 7.98)
KTHA03	Conductivity	1989-2008, 2013-2020	98% Likelihood Upward	0.188	228 (217 - 239)
KTHA03	Total Alkalinity	1998-2008, 2013-2020	100% Likelihood Upward	0.137	81 (76.9 - 85.1)
LSIN1	Ammonia Nitrogen	1995, 2015-2020	83% Likelihood Downward	-0.113	23.2 (19.7 - 27.4)
LSIN1	Nitrite + Nitrate Nitrogen	1994-1995, 2015-2020	100% Likelihood Downward	-0.402	129 (72.7 - 228)
LSIN1	Total Nitrogen	1994-1995, 2015-2020	99% Likelihood Downward	-5.46	653 (611 - 698)
LSIN1	Fecal Coliform	1994-1995, 2015-2020	91% Likelihood Downward	-0.375	61.2 (37.1 - 101)
LSIN1	Orthophosphate Phosphorus	1994-1995, 2007, 2015-2020	100% Likelihood Downward	-0.502	20.7 (17.2 - 25)
LSIN1	Total Phosphorus	1994-1995, 2007, 2009-2020	96% Likelihood Downward	-0.215	45.5 (34.1 - 60.6)
LSIN1	Total Suspended Solids	1995, 2007-2020	99% Likelihood Downward	-0.0182	1.9 (1.04 - 3.46)
LSIN1	Turbidity	1994-1995, 2015-2020	74% Likelihood Upward	0.0177	2.45 (1.8 - 3.33)
LSIN1	Temperature	2015-2020	Trend About as Likely as Not	-0.025	11.4 (10.7 - 12)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
LSIN1	Dissolved Oxygen	2015-2020	Trend About as Likely as Not	0.1	6.89 (6.69 - 7.08)
LSIN1	pH	2015-2020	69% Likelihood Upward	0.01	7.32 (7.3 - 7.33)
LSIN1	Conductivity	2007-2020	Trend About as Likely as Not	0.2	257 (234 - 279)
LSIN1	Total Alkalinity	2007-2020	Trend About as Likely as Not	0	115 (100 - 130)
LSIN9	Ammonia Nitrogen	1995, 2015-2020	73% Likelihood Downward	-0.00395	5.97 (4.99 - 7.13)
LSIN9	Nitrite + Nitrate Nitrogen	1994-1995, 2015-2020	100% Likelihood Downward	-11.1	433 (344 - 545)
LSIN9	Total Nitrogen	1994-1995, 2015-2020	100% Likelihood Downward	-13.1	566 (463 - 693)
LSIN9	Fecal Coliform	2015-2020	100% Likelihood Downward	-0.28	7.57 (5.52 - 10.4)
LSIN9	Orthophosphate Phosphorus	1994-1995, 2007, 2015-2020	100% Likelihood Downward	-0.107	2.72 (1.83 - 4.05)
LSIN9	Total Phosphorus	1994-1995, 2007, 2009-2020	100% Likelihood Downward	-0.134	9.41 (8.12 - 10.9)
LSIN9	Total Suspended Solids	1995, 2007-2020	100% Likelihood Downward	-0.0317	1.48 (1.11 - 1.97)
LSIN9	Turbidity	1994-1995, 2015-2020	Trend About as Likely as Not	0.00259	0.929 (0.684 - 1.26)
LSIN9	Temperature	2015-2020	Trend About as Likely as Not	0.05	10.8 (10.6 - 11.1)
LSIN9	Dissolved Oxygen	2015-2020	Trend About as Likely as Not	0.0225	10.6 (10.5 - 10.7)
LSIN9	pH	2015-2020	96% Likelihood Downward	-0.00667	7.52 (7.47 - 7.58)
LSIN9	Conductivity	2007-2020	78% Likelihood Downward	-0.1	113 (111 - 115)
LSIN9	Total Alkalinity	2007-2020	100% Likelihood Upward	0.186	40.2 (39.2 - 41.2)
MFK_SNQ	Ammonia Nitrogen	2011-2020	95% Likelihood Upward	0.0504	3.95 (3.33 - 4.69)
MFK_SNQ	Nitrite + Nitrate Nitrogen	2011-2020	82% Likelihood Downward	-0.625	95.8 (81.8 - 112)
MFK_SNQ	Total Nitrogen	2011-2020	69% Likelihood Downward	-0.417	152 (133 - 174)
MFK_SNQ	Fecal Coliform	2011-2020	67% Likelihood Upward	0	16.8 (11.2 - 25.2)
MFK_SNQ	Orthophosphate Phosphorus	2011-2020	97% Likelihood Downward	-0.025	2.01 (1.3 - 3.08)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
MFK_SNQ	Total Phosphorus	2011-2020	70% Likelihood Downward	-0.00316	13.5 (8.23 - 22)
MFK_SNQ	Total Suspended Solids	2011-2020	97% Likelihood Downward	-0.1	11.2 (5 - 25.3)
MFK_SNQ	Turbidity	2012-2020	70% Likelihood Downward	-0.00633	7.81 (3.99 - 15.3)
MFK_SNQ	Temperature	2011-2020	97% Likelihood Upward	0.13	8.71 (7.86 - 9.55)
MFK_SNQ	Dissolved Oxygen	2011-2020	100% Likelihood Upward	0.05	11.4 (11.1 - 11.6)
MFK_SNQ	pH	2011-2020	99% Likelihood Upward	0.032	7.01 (6.96 - 7.06)
MFK_SNQ	Conductivity	2011-2020	99% Likelihood Upward	0.471	21.7 (19.7 - 23.7)
MFK_SNQ	Total Alkalinity	2011-2020	100% Likelihood Downward	-0.158	7.66 (7 - 8.32)
N484	Ammonia Nitrogen	1974, 1979-2008, 2013-2020	78% Likelihood Downward	-0.00833	25.6 (19.3 - 34)
N484	Nitrite + Nitrate Nitrogen	1974, 1979-2008, 2013-2020	Trend About as Likely as Not	-0.0465	747 (707 - 791)
N484	Total Nitrogen	1993-2008, 2013-2020	100% Likelihood Downward	-10.3	1140 (1080 - 1190)
N484	Fecal Coliform	1974, 1979-2008, 2013-2020	100% Likelihood Downward	-2.37	183 (99.1 - 339)
N484	Orthophosphate Phosphorus	1974, 1979-2008, 2013-2020	100% Likelihood Downward	-0.328	27.7 (24.1 - 31.7)
N484	Total Phosphorus	1974, 1979-2008, 2013-2020	100% Likelihood Downward	-0.222	51.9 (46.4 - 58)
N484	Total Suspended Solids	1974, 1979-2008, 2013-2020	100% Likelihood Downward	-0.0522	4.38 (3.34 - 5.74)
N484	Turbidity	1974, 1979-2008, 2013-2020	97% Likelihood Upward	0.00433	2.05 (1.69 - 2.5)
N484	Temperature	1974, 1979-2008, 2013-2020	100% Likelihood Upward	0.0235	10.3 (9.55 - 11)
N484	Dissolved Oxygen	1974, 1979-	100% Likelihood Downward	-0.01	10.6 (10.3 - 11)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
		2008, 2013-2020			
N484	pH	1974, 1979-2008, 2013-2020	83% Likelihood Upward	0	7.39 (7.27 - 7.51)
N484	Conductivity	1974, 1979-2008, 2013-2020	100% Likelihood Upward	1.11	127 (120 - 134)
N484	Total Alkalinity	1974, 1998-2008, 2013-2020	100% Likelihood Upward	0.322	52.1 (49.4 - 54.8)
NFK_SNQ	Ammonia Nitrogen	2011-2020	Trend About as Likely as Not	0.00181	3.22 (2.47 - 4.19)
NFK_SNQ	Nitrite + Nitrate Nitrogen	2011-2020	76% Likelihood Upward	2.19	221 (201 - 244)
NFK_SNQ	Total Nitrogen	2011-2020	97% Likelihood Upward	5	277 (253 - 304)
NFK_SNQ	Fecal Coliform	2011-2020	71% Likelihood Downward	0	18 (10 - 32.4)
NFK_SNQ	Orthophosphate Phosphorus	2011-2020	99% Likelihood Downward	-0.0321	1.61 (1.26 - 2.07)
NFK_SNQ	Total Phosphorus	2011-2020	74% Likelihood Downward	4.68E-05	8.46 (5.89 - 12.2)
NFK_SNQ	Total Suspended Solids	2011-2020	81% Likelihood Downward	-0.00351	4.04 (1.85 - 8.83)
NFK_SNQ	Turbidity	2012-2020	Trend About as Likely as Not	0.00425	2.18 (1.13 - 4.21)
NFK_SNQ	Temperature	2011-2020	75% Likelihood Upward	0.0489	8.63 (7.97 - 9.29)
NFK_SNQ	Dissolved Oxygen	2011-2020	99% Likelihood Upward	0.075	11.1 (10.9 - 11.4)
NFK_SNQ	pH	2011-2020	96% Likelihood Upward	0.0167	6.92 (6.89 - 6.96)
NFK_SNQ	Conductivity	2011-2020	95% Likelihood Upward	0.629	35.4 (32.4 - 38.3)
NFK_SNQ	Total Alkalinity	2011-2020	77% Likelihood Downward	-0.0757	13.9 (12.8 - 14.9)
PATTER_3	Ammonia Nitrogen	2011-2020	68% Likelihood Upward	0.154	16.3 (14.8 - 17.9)
PATTER_3	Nitrite + Nitrate Nitrogen	2011-2020	100% Likelihood Downward	-13	672 (621 - 727)
PATTER_3	Total Nitrogen	2005-2006, 2011-2020	100% Likelihood Downward	-12.4	996 (863 - 1150)
PATTER_3	Fecal Coliform	2005-2006, 2011-2020	68% Likelihood Upward	0.69	118 (69.2 - 203)
PATTER_3	Orthophosphate Phosphorus	2011-2020	92% Likelihood Upward	0.3	23.2 (21.5 - 25)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
PATTER_3	Total Phosphorus	2005-2006, 2011-2020	Trend About as Likely as Not	0.0504	51.9 (49.4 - 54.5)
PATTER_3	Total Suspended Solids	2011-2020	Trend About as Likely as Not	0.0375	7.19 (4.76 - 10.8)
PATTER_3	Turbidity	2012-2020	Trend About as Likely as Not	0.0229	5.39 (4.16 - 6.97)
PATTER_3	Temperature	2005-2006, 2011-2020	Trend About as Likely as Not	0.0167	9.82 (8.54 - 11.1)
PATTER_3	Dissolved Oxygen	2005-2006, 2011-2020	91% Likelihood Upward	0.0222	9.81 (9.55 - 10.1)
PATTER_3	pH	2005-2006, 2011-2020	97% Likelihood Downward	-0.005	7.21 (7.12 - 7.3)
PATTER_3	Conductivity	2011-2020	99% Likelihood Upward	1	132 (125 - 139)
PATTER_3	Total Alkalinity	2011-2020	Trend About as Likely as Not	0.00833	54 (51.3 - 56.7)
RAGING_MTH	Ammonia Nitrogen	2011-2020	80% Likelihood Upward	0.0354	5.25 (4.63 - 5.95)
RAGING_MTH	Nitrite + Nitrate Nitrogen	2011-2020	84% Likelihood Downward	-2.62	432 (352 - 530)
RAGING_MTH	Total Nitrogen	2011-2020	91% Likelihood Downward	-3.11	539 (468 - 621)
RAGING_MTH	Fecal Coliform	2011-2020	74% Likelihood Downward	0	57.7 (32.6 - 102)
RAGING_MTH	Orthophosphate Phosphorus	2011-2020	100% Likelihood Downward	-0.08	3.51 (3.24 - 3.8)
RAGING_MTH	Total Phosphorus	2011-2020	79% Likelihood Upward	0.161	12.1 (8.39 - 17.4)
RAGING_MTH	Total Suspended Solids	2011-2020	96% Likelihood Downward	-0.058	5.2 (2.56 - 10.6)
RAGING_MTH	Turbidity	2012-2020	81% Likelihood Downward	-0.00937	2.82 (1.64 - 4.84)
RAGING_MTH	Temperature	2011-2020	70% Likelihood Upward	0.0467	9.9 (9.16 - 10.6)
RAGING_MTH	Dissolved Oxygen	2011-2020	99% Likelihood Upward	0.05	11.5 (11.3 - 11.7)
RAGING_MTH	pH	2011-2020	Trend About as Likely as Not	0.00667	7.52 (7.45 - 7.59)
RAGING_MTH	Conductivity	2011-2020	99% Likelihood Upward	0.867	55.8 (53.5 - 58.1)
RAGING_MTH	Total Alkalinity	2011-2020	74% Likelihood Downward	-0.0333	18.4 (17.4 - 19.4)
S478	Ammonia Nitrogen	1974, 2003-2008, 2015-2020	99% Likelihood Downward	-0.0529	10.8 (9.73 - 12)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
S478	Nitrite + Nitrate Nitrogen	1974, 2003-2008, 2015-2020	Trend About as Likely as Not	0.0184	922 (869 - 979)
S478	Total Nitrogen	2003-2008, 2015-2020	99% Likelihood Downward	-5.83	1270 (1220 - 1320)
S478	Fecal Coliform	1974, 2003-2008, 2015-2020	100% Likelihood Downward	-1.67	95.4 (58.3 - 156)
S478	Orthophosphate Phosphorus	1974, 2003-2008, 2015-2020	100% Likelihood Downward	-0.432	30.2 (29.3 - 31.1)
S478	Total Phosphorus	1974, 2003-2008, 2015-2020	100% Likelihood Downward	-1.07	55.5 (50.2 - 61.3)
S478	Total Suspended Solids	1974, 2003-2008, 2015-2020	Trend About as Likely as Not	0.00333	3.81 (2.53 - 5.74)
S478	Turbidity	1974, 2003-2008, 2015-2020	98% Likelihood Upward	0.0152	2.36 (1.72 - 3.23)
S478	Temperature	1974, 2003-2008, 2015-2020	92% Likelihood Upward	0.0178	8.94 (8.56 - 9.32)
S478	Dissolved Oxygen	1974, 2003-2008, 2015-2020	97% Likelihood Upward	0.00694	11.1 (11 - 11.2)
S478	pH	1974, 2003-2008, 2015-2020	99% Likelihood Upward	0.00478	7.49 (7.42 - 7.57)
S478	Conductivity	1974, 2003-2008, 2015-2020	100% Likelihood Upward	1.2	129 (126 - 131)
S478	Total Alkalinity	1974, 2003-2008, 2015-2020	100% Likelihood Upward	0.517	46.9 (45 - 48.7)
S484	Ammonia Nitrogen	1982-2008, 2015-2020	74% Likelihood Upward	0.00599	13.7 (11.4 - 16.5)
S484	Nitrite + Nitrate Nitrogen	1982-2008, 2015-2020	100% Likelihood Downward	-7.76	508 (459 - 562)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
S484	Total Nitrogen	1993-2008, 2015-2020	100% Likelihood Downward	-14.5	784 (720 - 853)
S484	Fecal Coliform	1982-2008, 2015-2020	100% Likelihood Downward	-2.42	85.8 (43.2 - 170)
S484	Orthophosphate Phosphorus	1982-2008, 2015-2020	100% Likelihood Downward	-0.505	28.2 (25.6 - 31.2)
S484	Total Phosphorus	1982-2008, 2015-2020	73% Likelihood Downward	-0.0263	52.2 (45.9 - 59.3)
S484	Total Suspended Solids	1982-2008, 2015-2020	100% Likelihood Downward	-0.0378	3.5 (2.11 - 5.82)
S484	Turbidity	1982-2008, 2015-2020	100% Likelihood Upward	0.0107	2.02 (1.54 - 2.65)
S484	Temperature	1981-2008, 2015-2020	91% Likelihood Upward	0.00667	9.77 (9.2 - 10.3)
S484	Dissolved Oxygen	1982-2008, 2015-2020	100% Likelihood Downward	-0.0667	8.67 (8.42 - 8.91)
S484	pH	1982-2008, 2015-2020	100% Likelihood Downward	-0.00579	7.1 (7 - 7.2)
S484	Conductivity	1982-2008, 2015-2020	100% Likelihood Upward	0.8	117 (110 - 124)
S484	Total Alkalinity	1998-2008, 2015-2020	96% Likelihood Upward	0.116	50 (46.9 - 53.2)
SFK_SNQ	Ammonia Nitrogen	2011-2020	100% Likelihood Downward	-0.8	34.3 (17.7 - 66.3)
SFK_SNQ	Nitrite + Nitrate Nitrogen	2011-2020	70% Likelihood Downward	-0.5	307 (281 - 335)
SFK_SNQ	Total Nitrogen	2011-2020	100% Likelihood Downward	-9.22	420 (386 - 457)
SFK_SNQ	Fecal Coliform	2011-2020	96% Likelihood Downward	-0.333	44.8 (29.1 - 68.9)
SFK_SNQ	Orthophosphate Phosphorus	2011-2020	100% Likelihood Downward	-0.643	19.7 (13.8 - 28.3)
SFK_SNQ	Total Phosphorus	2011-2020	97% Likelihood Downward	-0.593	27.7 (23.1 - 33.2)
SFK_SNQ	Total Suspended Solids	2011-2020	76% Likelihood Downward	0	1.96 (0.987 - 3.9)
SFK_SNQ	Turbidity	2012-2020	79% Likelihood Downward	-0.00453	1.18 (0.677 - 2.06)
SFK_SNQ	Temperature	2011-2020	87% Likelihood Upward	0.05	8.55 (7.95 - 9.16)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
SFK_SNQ	Dissolved Oxygen	2011-2020	99% Likelihood Upward	0.0333	10.9 (10.6 - 11.1)
SFK_SNQ	pH	2011-2020	98% Likelihood Upward	0.0167	6.95 (6.91 - 6.98)
SFK_SNQ	Conductivity	2011-2020	98% Likelihood Upward	0.9	63.2 (59.7 - 66.6)
SFK_SNQ	Total Alkalinity	2011-2020	67% Likelihood Upward	0.0829	21.5 (20 - 22.9)
SKYKOMISH	Ammonia Nitrogen	2011-2020	Trend About as Likely as Not	-0.00382	2.99 (2.61 - 3.42)
SKYKOMISH	Nitrite + Nitrate Nitrogen	2011-2020	100% Likelihood Downward	-1.33	72.3 (58.8 - 88.7)
SKYKOMISH	Total Nitrogen	2011-2020	100% Likelihood Downward	-2.09	114 (98.3 - 132)
SKYKOMISH	Fecal Coliform	2011-2020	74% Likelihood Downward	0	2.87 (2.05 - 4.03)
SKYKOMISH	Orthophosphate Phosphorus	2011-2020	100% Likelihood Downward	-0.0373	1.61 (1.03 - 2.5)
SKYKOMISH	Total Phosphorus	2011-2020	91% Likelihood Upward	0.000438	6.42 (5.4 - 7.63)
SKYKOMISH	Total Suspended Solids	2011-2020	88% Likelihood Downward	-0.00794	2.43 (1.27 - 4.67)
SKYKOMISH	Turbidity	2012-2020	90% Likelihood Downward	-0.01	1.77 (1 - 3.14)
SKYKOMISH	Temperature	2011-2020	96% Likelihood Upward	0.1	7.95 (7.24 - 8.67)
SKYKOMISH	Dissolved Oxygen	2011-2020	100% Likelihood Upward	0.05	11.6 (11.4 - 11.7)
SKYKOMISH	pH	2011-2020	100% Likelihood Upward	0.0411	7.1 (6.99 - 7.22)
SKYKOMISH	Conductivity	2011-2020	99% Likelihood Upward	0.4	32.7 (31 - 34.3)
SKYKOMISH	Total Alkalinity	2011-2020	98% Likelihood Downward	-0.1	12.8 (12.2 - 13.4)
SNQDUVALL	Ammonia Nitrogen	2011-2020	97% Likelihood Downward	-0.1	7.59 (7.06 - 8.15)
SNQDUVALL	Nitrite + Nitrate Nitrogen	2011-2020	98% Likelihood Downward	-2.67	223 (202 - 245)
SNQDUVALL	Total Nitrogen	2011-2020	93% Likelihood Downward	-1.42	310 (280 - 343)
SNQDUVALL	Fecal Coliform	2011-2020	83% Likelihood Downward	-0.125	38.1 (19.8 - 73.3)
SNQDUVALL	Orthophosphate Phosphorus	2011-2020	98% Likelihood Downward	-0.0912	5.23 (4.52 - 6.05)
SNQDUVALL	Total Phosphorus	2011-2020	Trend About as Likely as Not	0.031	20.5 (14.6 - 28.9)
SNQDUVALL	Total Suspended Solids	2011-2020	97% Likelihood Downward	-0.14	12 (6.48 - 22.1)
SNQDUVALL	Turbidity	2012-2020	91% Likelihood Downward	-0.0282	7.39 (4.03 - 13.6)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
SNQDUVALL	Temperature	2011-2020	67% Likelihood Upward	0.0357	10.3 (9.46 - 11.2)
SNQDUVALL	Dissolved Oxygen	2011-2020	100% Likelihood Upward	0.062	10.8 (10.6 - 11.1)
SNQDUVALL	pH	2011-2020	95% Likelihood Upward	0.012	7.06 (7.01 - 7.11)
SNQDUVALL	Conductivity	2011-2020	85% Likelihood Upward	0.4	46.3 (42.5 - 50)
SNQDUVALL	Total Alkalinity	2011-2020	96% Likelihood Downward	-0.173	17.1 (15.7 - 18.6)
TOLT_MTH	Ammonia Nitrogen	2011-2020	75% Likelihood Downward	-0.0159	4.12 (3.26 - 5.21)
TOLT_MTH	Nitrite + Nitrate Nitrogen	2011-2020	100% Likelihood Downward	-10	242 (215 - 273)
TOLT_MTH	Total Nitrogen	2011-2020	100% Likelihood Downward	-9	309 (277 - 344)
TOLT_MTH	Fecal Coliform	2011-2020	89% Likelihood Downward	0	13.8 (9.89 - 19.4)
TOLT_MTH	Orthophosphate Phosphorus	2011-2020	100% Likelihood Downward	-0.1	2.5 (1.74 - 3.58)
TOLT_MTH	Total Phosphorus	2011-2020	81% Likelihood Downward	0.00201	10.8 (6.92 - 16.8)
TOLT_MTH	Total Suspended Solids	2011-2020	100% Likelihood Downward	-0.16	8.84 (3.94 - 19.8)
TOLT_MTH	Turbidity	2012-2020	100% Likelihood Downward	-0.08	5.95 (2.9 - 12.2)
TOLT_MTH	Temperature	2011-2020	92% Likelihood Upward	0.0671	9.06 (8.39 - 9.74)
TOLT_MTH	Dissolved Oxygen	2011-2020	99% Likelihood Upward	0.04	11.6 (11.4 - 11.9)
TOLT_MTH	pH	2011-2020	89% Likelihood Upward	0.0112	7.28 (7.23 - 7.34)
TOLT_MTH	Conductivity	2011-2020	91% Likelihood Upward	0.25	40.8 (38 - 43.7)
TOLT_MTH	Total Alkalinity	2011-2020	100% Likelihood Downward	-0.227	14.8 (14 - 15.5)
VA12A	Ammonia Nitrogen	2007-2012, 2014-2020	100% Likelihood Downward	-0.276	8.52 (7.27 - 10)
VA12A	Nitrite + Nitrate Nitrogen	2007-2012, 2014-2020	99% Likelihood Downward	-5.88	891 (823 - 964)
VA12A	Total Nitrogen	2007-2012, 2014-2020	99% Likelihood Downward	-5.12	1080 (1000 - 1170)
VA12A	Fecal Coliform	2007-2012, 2014-2019	70% Likelihood Downward	0	52.6 (29.9 - 92.4)
VA12A	Orthophosphate Phosphorus	2007-2012, 2014-2020	79% Likelihood Downward	-0.0583	33.9 (30.9 - 37.1)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
VA12A	Total Phosphorus	2007-2012, 2014-2020	87% Likelihood Downward	-0.12	54.6 (42.9 - 69.5)
VA12A	Total Suspended Solids	2007-2012, 2014-2020	100% Likelihood Downward	-0.134	9.33 (3.4 - 25.6)
VA12A	Turbidity	2007-2012, 2014-2020	Trend About as Likely as Not	0.00246	3.96 (1.61 - 9.76)
VA12A	Temperature	2007-2012, 2014-2020	96% Likelihood Upward	0.0384	9.07 (8.26 - 9.87)
VA12A	Dissolved Oxygen	2007-2012, 2014-2020	90% Likelihood Upward	0.00955	11.2 (11 - 11.5)
VA12A	pH	2007-2012, 2014-2020	99% Likelihood Upward	0.0075	7.64 (7.58 - 7.71)
VA12A	Conductivity	2007-2012, 2014-2020	100% Likelihood Upward	0.568	153 (142 - 164)
VA12A	Total Alkalinity	2007-2012, 2014-2020	96% Likelihood Upward	0.2	59.5 (54.1 - 64.8)
VA37A	Ammonia Nitrogen	2007, 2014-2020	100% Likelihood Downward	-0.48	16.4 (15.1 - 17.7)
VA37A	Nitrite + Nitrate Nitrogen	2007, 2014-2020	100% Likelihood Downward	-17.3	1460 (1350 - 1590)
VA37A	Total Nitrogen	2007, 2014-2020	100% Likelihood Downward	-23.8	1840 (1670 - 2020)
VA37A	Fecal Coliform	2007, 2014-2019	76% Likelihood Downward	0	111 (77.4 - 159)
VA37A	Orthophosphate Phosphorus	2007, 2014-2020	Trend About as Likely as Not	0	17.9 (16.2 - 19.8)
VA37A	Total Phosphorus	2007, 2014-2020	83% Likelihood Downward	-0.0775	46.7 (38 - 57.3)
VA37A	Total Suspended Solids	2007, 2014-2020	88% Likelihood Downward	-0.0778	13.6 (6.53 - 28.5)
VA37A	Turbidity	2007, 2014-2020	73% Likelihood Downward	-0.00382	7.75 (4.32 - 13.9)
VA37A	Temperature	2007, 2014-2020	73% Likelihood Downward	0	9.73 (8.9 - 10.6)
VA37A	Dissolved Oxygen	2007, 2014-2020	99% Likelihood Upward	0.04	10.9 (10.6 - 11.1)
VA37A	pH	2007, 2014-2020	83% Likelihood Upward	0.00608	7.35 (7.3 - 7.4)
VA37A	Conductivity	2007, 2014-2020	100% Likelihood Upward	0.61	124 (117 - 131)
VA37A	Total Alkalinity	2007, 2014-2020	94% Likelihood Upward	0.325	40.8 (36.5 - 45.2)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
VA41A	Ammonia Nitrogen	2007-2012, 2014-2020	99% Likelihood Downward	-0.1	11.2 (10.2 - 12.3)
VA41A	Nitrite + Nitrate Nitrogen	2007-2012, 2014-2020	100% Likelihood Downward	-20.6	986 (908 - 1070)
VA41A	Total Nitrogen	2007-2012, 2014-2020	100% Likelihood Downward	-23.8	1290 (1180 - 1410)
VA41A	Fecal Coliform	2007-2012, 2014-2019	99% Likelihood Downward	-1.41	210 (120 - 368)
VA41A	Orthophosphate Phosphorus	2007-2012, 2014-2020	86% Likelihood Downward	-0.0886	36.3 (33.4 - 39.5)
VA41A	Total Phosphorus	2007-2012, 2014-2020	Trend About as Likely as Not	0	68 (56.3 - 82.3)
VA41A	Total Suspended Solids	2007-2012, 2014-2020	99% Likelihood Downward	-0.161	13.4 (6.36 - 28)
VA41A	Turbidity	2007-2012, 2014-2020	79% Likelihood Upward	0.045	5.71 (3.19 - 10.2)
VA41A	Temperature	2007-2012, 2014-2020	99% Likelihood Upward	0.0739	9.45 (8.52 - 10.4)
VA41A	Dissolved Oxygen	2007-2012, 2014-2020	89% Likelihood Upward	0.0167	11 (10.6 - 11.3)
VA41A	pH	2007-2012, 2014-2020	78% Likelihood Upward	0.00333	7.46 (7.42 - 7.5)
VA41A	Conductivity	2007-2012, 2014-2020	100% Likelihood Downward	-0.703	130 (124 - 137)
VA41A	Total Alkalinity	2007-2012, 2014-2020	84% Likelihood Downward	-0.0844	47 (43.4 - 50.6)
VA42A	Ammonia Nitrogen	2007-2020	71% Likelihood Upward	0.0337	11.1 (9.93 - 12.3)
VA42A	Nitrite + Nitrate Nitrogen	2007-2020	100% Likelihood Downward	-9.93	897 (875 - 919)
VA42A	Total Nitrogen	2007-2020	100% Likelihood Downward	-10	1220 (1120 - 1330)
VA42A	Fecal Coliform	2007-2020	95% Likelihood Downward	-1.33	222 (98.5 - 500)
VA42A	Orthophosphate Phosphorus	2007-2020	99% Likelihood Downward	-0.175	23.7 (21.9 - 25.6)
VA42A	Total Phosphorus	2007-2020	71% Likelihood Upward	0.12	49.2 (39.9 - 60.8)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
VA42A	Total Suspended Solids	2007-2020	93% Likelihood Upward	0.0667	10.3 (4.72 - 22.3)
VA42A	Turbidity	2007-2020	100% Likelihood Upward	0.075	5.12 (3.02 - 8.71)
VA42A	Temperature	2007-2020	97% Likelihood Upward	0.0585	9.35 (8.46 - 10.3)
VA42A	Dissolved Oxygen	2007-2020	Trend About as Likely as Not	0	11.2 (10.8 - 11.5)
VA42A	pH	2007-2020	81% Likelihood Downward	-0.0025	7.61 (7.56 - 7.65)
VA42A	Conductivity	2007-2020	93% Likelihood Upward	0.25	134 (127 - 141)
VA42A	Total Alkalinity	2007-2020	Trend About as Likely as Not	0.0333	50.3 (47.3 - 53.3)
VA45A	Ammonia Nitrogen	2007-2012, 2014-2020	88% Likelihood Downward	-0.04	11.7 (5.02 - 27.1)
VA45A	Nitrite + Nitrate Nitrogen	2007-2012, 2014-2020	100% Likelihood Downward	-37.2	2340 (1960 - 2810)
VA45A	Total Nitrogen	2007-2012, 2014-2020	100% Likelihood Downward	-45.2	2720 (2320 - 3180)
VA45A	Fecal Coliform	2007-2012, 2014-2019	91% Likelihood Downward	-0.536	75.4 (28.8 - 197)
VA45A	Orthophosphate Phosphorus	2007-2012, 2014-2020	100% Likelihood Upward	0.192	10.8 (7.67 - 15.2)
VA45A	Total Phosphorus	2007-2012, 2014-2020	89% Likelihood Upward	0.22	30.3 (24.3 - 37.7)
VA45A	Total Suspended Solids	2007-2012, 2014-2020	99% Likelihood Downward	-0.0763	3.76 (1.95 - 7.25)
VA45A	Turbidity	2007-2012, 2014-2020	93% Likelihood Downward	-0.0509	4.93 (3.76 - 6.46)
VA45A	Temperature	2007-2012, 2014-2020	78% Likelihood Upward	0.025	9.6 (8.72 - 10.5)
VA45A	Dissolved Oxygen	2007-2012, 2014-2020	100% Likelihood Downward	-0.05	9.28 (8.52 - 10)
VA45A	pH	2007-2012, 2014-2020	99% Likelihood Downward	-0.01	6.82 (6.75 - 6.89)
VA45A	Conductivity	2007-2012, 2014-2020	67% Likelihood Upward	0.17	114 (106 - 122)

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
VA45A	Total Alkalinity	2007-2012, 2014-2020	100% Likelihood Upward	0.4	28.1 (25 - 31.3)
VA65A	Ammonia Nitrogen	2007-2010, 2013-2020	99% Likelihood Downward	-0.08	9 (8.07 - 10)
VA65A	Nitrite + Nitrate Nitrogen	2007-2010, 2013-2020	99% Likelihood Downward	-16	1310 (1230 - 1390)
VA65A	Total Nitrogen	2007-2010, 2013-2020	100% Likelihood Downward	-21.7	1550 (1470 - 1630)
VA65A	Fecal Coliform	2007-2010, 2013-2020	98% Likelihood Upward	1	75.5 (34.6 - 165)
VA65A	Orthophosphate Phosphorus	2007-2010, 2013-2020	95% Likelihood Downward	-0.178	36.8 (31.8 - 42.6)
VA65A	Total Phosphorus	2007-2010, 2013-2020	Trend About as Likely as Not	-0.00917	62.8 (48 - 82.3)
VA65A	Total Suspended Solids	2007-2010, 2013-2020	91% Likelihood Downward	-0.0973	11.7 (4.25 - 32.2)
VA65A	Turbidity	2007-2010, 2013-2020	96% Likelihood Upward	0.065	5.64 (2.35 - 13.5)
VA65A	Temperature	2007-2010, 2013-2020	67% Likelihood Upward	0.025	9.42 (8.26 - 10.6)
VA65A	Dissolved Oxygen	2007-2010, 2013-2020	100% Likelihood Upward	0.0714	10.8 (10.6 - 11)
VA65A	pH	2007-2010, 2013-2020	92% Likelihood Downward	-0.00333	7.61 (7.56 - 7.66)
VA65A	Conductivity	2007-2010, 2013-2020	100% Likelihood Downward	-1	157 (147 - 167)
VA65A	Total Alkalinity	2007-2010, 2013-2020	100% Likelihood Downward	-0.31	60.2 (55.3 - 65.1)
X630	Ammonia Nitrogen	1979-2008, 2013-2020	100% Likelihood Upward	0.547	68.8 (57.9 - 81.7)
X630	Nitrite + Nitrate Nitrogen	1979-2008, 2013-2020	100% Likelihood Downward	-8.32	1170 (990 - 1390)
X630	Total Nitrogen	1993-2008, 2013-2020	100% Likelihood Downward	-15.3	1380 (1230 - 1550)
X630	Fecal Coliform	1979-2008, 2013-2020	100% Likelihood Downward	-2.82	316 (142 - 703)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)
X630	Orthophosphate Phosphorus	1979-2008, 2013-2020	100% Likelihood Downward	-0.229	19.7 (16 - 24.3)
X630	Total Phosphorus	1979-2008, 2013-2020	100% Likelihood Upward	0.564	47.6 (35.3 - 64.2)
X630	Total Suspended Solids	1979-2008, 2013-2020	100% Likelihood Downward	-0.0824	9.97 (5.1 - 19.5)
X630	Turbidity	1979-2008, 2013-2020	100% Likelihood Downward	-0.0326	8.42 (5.43 - 13)
X630	Temperature	1979-2008, 2013-2020	100% Likelihood Upward	0.0526	10.9 (10.3 - 11.5)
X630	Dissolved Oxygen	1979-2008, 2013-2020	100% Likelihood Downward	-0.0222	10.1 (9.86 - 10.3)
X630	pH	1979-2008, 2013-2020	Trend About as Likely as Not	0	7.28 (7.17 - 7.39)
X630	Conductivity	1979-2008, 2013-2020	82% Likelihood Downward	-0.154	238 (185 - 292)
X630	Total Alkalinity	1998-2008, 2013-2020	76% Likelihood Downward	-0.0947	71 (65.8 - 76.1)

Figure B-1. Trend detection analysis results for hydrological metrics. All parameters in cfs, except high pulse count (HPC) in number of pulses per year.

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)	Average of Last 5 Years
02a	HPC	1988-2020	82% Likelihood Upward	0.0465	7.76 (4.09 - 11.4)	9.5
02a	Mean Annual Discharge	1988-2020	90% Likelihood Upward	0.375	77.1 (59 - 95.3)	77.7
02a	Maximum Seven-Day Average Discharge	1988-2020	93% Likelihood Upward	2.87	342 (176 - 508)	353
02a	Minimum Seven-Day Average Discharge	1988-2020	81% Likelihood Downward	-0.0588	15.9 (12.7 - 19)	15.3
02e	HPC	1995-2020	Trend About as Likely as Not	0	8.77 (5.58 - 12)	10

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)	Average of Last 5 Years
02e	Mean Annual Discharge	1995-2020	74% Likelihood Upward	0.146	29 (23.7 - 34.3)	30.8
02e	Maximum Seven-Day Average Discharge	1995-2020	68% Likelihood Upward	0.508	138 (82.8 - 193)	142
02e	Minimum Seven-Day Average Discharge	1995-2020	99% Likelihood Upward	0.0568	5.5 (4.72 - 6.28)	5.94
02g	HPC	2002-2020	84% Likelihood Upward	0.2	7.21 (4.88 - 9.54)	8.5
02g	Mean Annual Discharge	2002-2020	85% Likelihood Upward	0.165	17.6 (14.8 - 20.4)	18.3
02g	Maximum Seven-Day Average Discharge	2002-2020	81% Likelihood Upward	1.14	70.1 (48.2 - 92)	72.1
02g	Minimum Seven-Day Average Discharge	2002-2020	100% Likelihood Upward	0.112	5.28 (4.74 - 5.83)	6.07
05A	HPC	2002-2020	81% Likelihood Upward	0.154	9.21 (6.09 - 12.3)	10
05A	Mean Annual Discharge	2002-2020	97% Likelihood Upward	0.904	54.6 (45.2 - 63.9)	56
05A	Maximum Seven-Day Average Discharge	2002-2020	Trend About as Likely as Not	0.0346	303 (205 - 400)	302
05A	Minimum Seven-Day Average Discharge	2002-2020	Trend About as Likely as Not	0.00679	1.88 (1.38 - 2.37)	1.57
09a	HPC	1989-2020	69% Likelihood Upward	0	4.22 (1.4 - 7.04)	4
09a	Mean Annual Discharge	1989-2020	80% Likelihood Upward	0.164	32.2 (20.9 - 43.6)	33.9
09a	Maximum Seven-Day Average Discharge	1989-2020	Trend About as Likely as Not	0.446	165 (68.3 - 262)	174
09a	Minimum Seven-Day Average Discharge	1989-2020	Trend About as Likely as Not	-0.00148	1.77 (1.35 - 2.19)	1.65
11c	HPC	1992-2020	94% Likelihood Downward	-0.121	18.4 (15.1 - 21.7)	17.3

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)	Average of Last 5 Years
11c	Mean Annual Discharge	1992-2020	78% Likelihood Upward	0.00972	2.23 (1.63 - 2.83)	2.3
11c	Maximum Seven-Day Average Discharge	1992-2020	68% Likelihood Upward	0.0835	14.7 (7.15 - 22.2)	13.5
11c	Minimum Seven-Day Average Discharge	1992-2020	99% Likelihood Upward	0.00429	0.199 (0.137 - 0.262)	0.251
11d	HPC	1992-2020	94% Likelihood Downward	-0.143	14.8 (11.4 - 18.3)	12.7
11d	Mean Annual Discharge	1992-2020	Trend About as Likely as Not	0.00754	6.97 (5.05 - 8.89)	7.22
11d	Maximum Seven-Day Average Discharge	1992-2020	72% Likelihood Downward	-0.301	42.8 (24.3 - 61.3)	39.2
11d	Minimum Seven-Day Average Discharge	1992-2020	77% Likelihood Downward	-0.00378	0.914 (0.738 - 1.09)	0.916
11f	HPC	1997-2020	97% Likelihood Downward	-0.191	15.6 (12.2 - 19.1)	13.2
11f	Mean Annual Discharge	1997-2020	Trend About as Likely as Not	-0.015	4.48 (3.53 - 5.42)	4.45
11f	Maximum Seven-Day Average Discharge	1997-2020	83% Likelihood Downward	-0.369	29.2 (18.3 - 40.1)	24.9
11f	Minimum Seven-Day Average Discharge	1997-2020	94% Likelihood Downward	-0.00929	0.233 (0.156 - 0.31)	0.2
11g	HPC	1999-2002, 2006-2019	Trend About as Likely as Not	0	13.9 (9.84 - 17.9)	13.7
11g	Mean Annual Discharge	1999-2002, 2006-2019	Trend About as Likely as Not	-0.00564	2.22 (1.65 - 2.79)	2.17
11g	Maximum Seven-Day Average Discharge	1999-2002, 2006-2019	86% Likelihood Downward	-0.241	15.4 (8.92 - 22)	12.4
11g	Minimum Seven-Day Average Discharge	1999-2002, 2006-2019	98% Likelihood Upward	0.00295	0.0556 (0.0231 - 0.0882)	0.0893
11h	HPC	1999-2001, 2005-2013, 2015, 2017-2020	80% Likelihood Upward	0.106	14.5 (11.6 - 17.5)	15.2

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)	Average of Last 5 Years
11h	Mean Annual Discharge	1999-2001, 2005-2013, 2015, 2017-2020	83% Likelihood Downward	-0.00884	0.982 (0.78 - 1.18)	0.9
11h	Maximum Seven-Day Average Discharge	1999-2001, 2005-2013, 2015, 2017-2020	93% Likelihood Downward	-0.12	7 (4.35 - 9.64)	5.49
11h	Minimum Seven-Day Average Discharge	1999-2001, 2005-2013, 2015, 2017-2020	Trend About as Likely as Not	0	0.0103 (-0.00165 - 0.0223)	0.00571
12097850	HPC	1975-1976, 1983-1995, 2009-2020	71% Likelihood Upward	0.0278	7.22 (4.15 - 10.3)	7.67
12097850	Mean Annual Discharge	1975-1976, 1983-1995, 2009-2020	85% Likelihood Upward	4.57	1390 (1180 - 1600)	1460
12097850	Maximum Seven-Day Average Discharge	1975-1976, 1983-1995, 2009-2020	Trend About as Likely as Not	9.68	5160 (3260 - 7060)	5890
12097850	Minimum Seven-Day Average Discharge	1975-1976, 1983-1995, 2009-2020	Trend About as Likely as Not	0.25	386 (314 - 459)	375
12099200	HPC	2004-2020	89% Likelihood Upward	0.225	7.12 (4.1 - 10.1)	8.17
12099200	Mean Annual Discharge	2004-2020	92% Likelihood Upward	14.8	1430 (1210 - 1650)	1460
12099200	Maximum Seven-Day Average Discharge	2004-2020	Trend About as Likely as Not	-29.8	5180 (3580 - 6780)	4870
12099200	Minimum Seven-Day Average Discharge	2004-2020	86% Likelihood Upward	5.38	388 (318 - 459)	369
12099600	HPC	1978-1981, 1983-2020	95% Likelihood Upward	0.0833	10.2 (6.3 - 14.1)	12.8
12099600	Mean Annual Discharge	1978-1981, 1983-2020	92% Likelihood Upward	0.148	34 (25.8 - 42.1)	36.3
12099600	Maximum Seven-Day Average Discharge	1978-1981, 1983-2020	85% Likelihood Upward	1.11	175 (97.7 - 253)	216
12099600	Minimum Seven-Day Average Discharge	1978-1981, 1983-2020	100% Likelihood Downward	-0.0596	4.68 (3.54 - 5.82)	2.88
12106700	HPC	1964-2020	84% Likelihood Downward	-0.023	8 (4.8 - 11.2)	7.17

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)	Average of Last 5 Years
12106700	Mean Annual Discharge	1964-2020	68% Likelihood Downward	-0.7	950 (719 - 1180)	925
12106700	Maximum Seven-Day Average Discharge	1964-2020	87% Likelihood Downward	-18.6	5050 (3260 - 6850)	4530
12106700	Minimum Seven-Day Average Discharge	1964-2020	100% Likelihood Upward	0.612	122 (96.8 - 147)	147
12108500	HPC	1945-1950, 1953-2020	97% Likelihood Downward	-0.0323	9.59 (5.47 - 13.7)	7.33
12108500	Mean Annual Discharge	1945-1950, 1953-2020	95% Likelihood Downward	-0.124	58.9 (45.7 - 72.2)	57
12108500	Maximum Seven-Day Average Discharge	1945-1950, 1953-2020	99% Likelihood Downward	-1.21	270 (152 - 388)	254
12108500	Minimum Seven-Day Average Discharge	1945-1950, 1953-2020	100% Likelihood Downward	-0.0868	13.7 (11.1 - 16.3)	10.1
12112600	HPC	1961-2020	91% Likelihood Upward	0.0233	5.45 (2.72 - 8.18)	6.17
12112600	Mean Annual Discharge	1961-2020	86% Likelihood Upward	0.294	126 (94.1 - 158)	137
12112600	Maximum Seven-Day Average Discharge	1961-2020	Trend About as Likely as Not	-0.494	530 (305 - 754)	568
12112600	Minimum Seven-Day Average Discharge	1961-2020	79% Likelihood Upward	0.0367	25.1 (21.8 - 28.4)	26.9
12113000	HPC	1937-2020	85% Likelihood Downward	0	7.77 (4.41 - 11.1)	6.83
12113000	Mean Annual Discharge	1937-2020	71% Likelihood Upward	0.855	1350 (1050 - 1650)	1370
12113000	Maximum Seven-Day Average Discharge	1937-2020	94% Likelihood Upward	15.5	6090 (3980 - 8210)	6280
12113000	Minimum Seven-Day Average Discharge	1937-2020	100% Likelihood Upward	1.7	222 (185 - 260)	280
12113346	HPC	1994-2020	72% Likelihood Downward	-0.0714	18 (15.7 - 20.3)	16.3

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)	Average of Last 5 Years
12113346	Mean Annual Discharge	1994-2020	71% Likelihood Upward	0.0287	10.4 (8.14 - 12.6)	10.6
12113346	Maximum Seven-Day Average Discharge	1994-2020	95% Likelihood Downward	-0.797	70.2 (7.61 - 133)	43.2
12113346	Minimum Seven-Day Average Discharge	1994-2020	91% Likelihood Upward	0.0343	2.19 (1.82 - 2.55)	2.12
12113347	HPC	1995-2007, 2009-2020	Trend About as Likely as Not	0	12.6 (9.61 - 15.7)	13
12113347	Mean Annual Discharge	1995-2007, 2009-2020	79% Likelihood Upward	0.0312	4.08 (3.03 - 5.12)	4.78
12113347	Maximum Seven-Day Average Discharge	1995-2007, 2009-2020	Trend About as Likely as Not	0.121	25.4 (13.5 - 37.4)	30.5
12113347	Minimum Seven-Day Average Discharge	1995-2007, 2009-2020	85% Likelihood Upward	0.00398	0.737 (0.639 - 0.835)	0.751
12113349	HPC	1995-2020	86% Likelihood Downward	-0.111	16.3 (13.3 - 19.4)	15.7
12113349	Mean Annual Discharge	1995-2020	67% Likelihood Upward	0.0628	15.7 (12.1 - 19.2)	17.2
12113349	Maximum Seven-Day Average Discharge	1995-2020	Trend About as Likely as Not	-0.202	85.6 (55.2 - 116)	83.7
12113349	Minimum Seven-Day Average Discharge	1995-2020	100% Likelihood Downward	-0.0389	0.885 (0.592 - 1.18)	0.343
12114500	HPC	1946-1963, 1976-2020	72% Likelihood Upward	0	8.48 (5.37 - 11.6)	9.5
12114500	Mean Annual Discharge	1946-1963, 1976-2020	87% Likelihood Downward	-0.211	164 (134 - 194)	164
12114500	Maximum Seven-Day Average Discharge	1946-1963, 1976-2020	68% Likelihood Downward	-0.81	759 (507 - 1010)	829
12114500	Minimum Seven-Day Average Discharge	1946-1963, 1976-2020	100% Likelihood Downward	-0.0961	20.8 (16.2 - 25.3)	16.2
12115000	HPC	1946-2020	76% Likelihood Downward	0	9.03 (6 - 12)	9.17

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)	Average of Last 5 Years
12115000	Mean Annual Discharge	1946-2020	92% Likelihood Downward	-0.361	258 (209 - 307)	261
12115000	Maximum Seven-Day Average Discharge	1946-2020	Trend About as Likely as Not	-0.4	1190 (759 - 1620)	1260
12115000	Minimum Seven-Day Average Discharge	1946-2020	100% Likelihood Downward	-0.15	31.4 (24.5 - 38.3)	24.3
12115500	HPC	1946-2020	90% Likelihood Downward	-0.0278	11.7 (7.77 - 15.7)	11.5
12115500	Mean Annual Discharge	1946-2020	85% Likelihood Downward	-0.122	101 (81.1 - 120)	98.6
12115500	Maximum Seven-Day Average Discharge	1946-2020	70% Likelihood Upward	0.458	520 (328 - 712)	546
12115500	Minimum Seven-Day Average Discharge	1946-2020	100% Likelihood Downward	-0.0523	8.32 (5.53 - 11.1)	5.85
12115700	HPC	1984-2000, 2002-2020	Trend About as Likely as Not	0	11.3 (7.64 - 15)	10.7
12115700	Mean Annual Discharge	1984-2000, 2002-2020	74% Likelihood Upward	0.0414	24.7 (19.7 - 29.7)	23.6
12115700	Maximum Seven-Day Average Discharge	1984-2000, 2002-2020	72% Likelihood Upward	0.464	158 (88 - 229)	148
12115700	Minimum Seven-Day Average Discharge	1984-2000, 2002-2020	86% Likelihood Upward	4.62E-16	0.156 (-0.122 - 0.433)	-1.00E-13
12116100	HPC	1946-2020	84% Likelihood Downward	0	1.4 (0.447 - 2.35)	1.5
12116100	Mean Annual Discharge	1946-2020	82% Likelihood Downward	-0.0215	15.1 (10.7 - 19.5)	14.6
12116100	Maximum Seven-Day Average Discharge	1946-2020	89% Likelihood Downward	-0.134	49.3 (31.5 - 67.1)	45.1
12116100	Minimum Seven-Day Average Discharge	1946-2020	93% Likelihood Upward	0.00714	1.34 (0.362 - 2.31)	0.897
12116400	HPC	2002-2020	68% Likelihood Upward	0	5.58 (2.86 - 8.3)	5.83

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)	Average of Last 5 Years
12116400	Mean Annual Discharge	2002-2020	96% Likelihood Upward	3.54	123 (85.4 - 160)	142
12116400	Maximum Seven-Day Average Discharge	2002-2020	73% Likelihood Upward	11.4	1040 (413 - 1670)	1010
12116400	Minimum Seven-Day Average Discharge	2002-2020	89% Likelihood Upward	0.2	32.3 (29 - 35.6)	35.5
12116500	HPC	1915-2020	99% Likelihood Upward	0.0308	6.71 (3.56 - 9.86)	7.5
12116500	Mean Annual Discharge	1915-2020	88% Likelihood Upward	0.408	321 (229 - 414)	336
12116500	Maximum Seven-Day Average Discharge	1915-2020	100% Likelihood Upward	5.15	1410 (508 - 2300)	1710
12116500	Minimum Seven-Day Average Discharge	1915-2020	95% Likelihood Downward	-0.127	43.9 (18 - 69.8)	42.1
12117000	HPC	1957-2020	Trend About as Likely as Not	0	7.7 (4.31 - 11.1)	7.67
12117000	Mean Annual Discharge	1957-2020	70% Likelihood Downward	-0.0776	97.2 (77.2 - 117)	97.8
12117000	Maximum Seven-Day Average Discharge	1957-2020	Trend About as Likely as Not	0.29	381 (251 - 511)	405
12117000	Minimum Seven-Day Average Discharge	1957-2020	Trend About as Likely as Not	-0.00472	20.5 (17.1 - 23.9)	19
12117500	HPC	1897-1898, 1902-2020	92% Likelihood Upward	0	3.61 (1.02 - 6.2)	5.17
12117500	Mean Annual Discharge	1897-1898, 1902-2020	Trend About as Likely as Not	0.0374	686 (544 - 827)	701
12117500	Maximum Seven-Day Average Discharge	1897-1898, 1902-2020	73% Likelihood Upward	1.16	2170 (1050 - 3290)	2460
12117500	Minimum Seven-Day Average Discharge	1897-1898, 1902-2020	100% Likelihood Upward	0.438	245 (210 - 281)	252
12117600	HPC	1993-2020	94% Likelihood Upward	0.14	5.54 (2.38 - 8.69)	6.5

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)	Average of Last 5 Years
12117600	Mean Annual Discharge	1993-2020	96% Likelihood Upward	7.28	571 (426 - 717)	604
12117600	Maximum Seven-Day Average Discharge	1993-2020	94% Likelihood Upward	31.5	2240 (1050 - 3440)	2480
12117600	Minimum Seven-Day Average Discharge	1993-2020	Trend About as Likely as Not	0.0879	113 (93.4 - 134)	109
12118400	HPC	1957-1962, 2002-2020	Trend About as Likely as Not	0	2.36 (0.813 - 3.91)	2.17
12118400	Mean Annual Discharge	1957-1962, 2002-2020	69% Likelihood Upward	0.0311	15 (10.4 - 19.5)	15.9
12118400	Maximum Seven-Day Average Discharge	1957-1962, 2002-2020	90% Likelihood Upward	0.316	61.7 (25.9 - 97.6)	83.6
12118400	Minimum Seven-Day Average Discharge	1957-1962, 2002-2020	100% Likelihood Downward	-0.0349	2.84 (2.08 - 3.6)	1.89
12118500	HPC	1946-1952, 1954-1973, 2002, 2004-2020	77% Likelihood Upward	0	2.33 (0.566 - 4.1)	2.5
12118500	Mean Annual Discharge	1946-1952, 1954-1973, 2002, 2004-2020	96% Likelihood Downward	-0.0587	19.1 (13.5 - 24.7)	18.7
12118500	Maximum Seven-Day Average Discharge	1946-1952, 1954-1973, 2002, 2004-2020	Trend About as Likely as Not	0.0678	76.1 (35.5 - 117)	89.1
12118500	Minimum Seven-Day Average Discharge	1946-1952, 1954-1973, 2002, 2004-2020	100% Likelihood Downward	-0.0437	2.96 (2.09 - 3.83)	1.74
12119000	HPC	1946-2020	74% Likelihood Downward	0	5.28 (2.32 - 8.24)	6.17
12119000	Mean Annual Discharge	1946-2020	Trend About as Likely as Not	-0.06	680 (521 - 839)	731
12119000	Maximum Seven-Day Average Discharge	1946-2020	71% Likelihood Upward	2.64	2590 (1340 - 3850)	2920
12119000	Minimum Seven-Day Average Discharge	1946-2020	100% Likelihood Upward	0.84	122 (90.6 - 154)	131

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)	Average of Last 5 Years
12120600	HPC	1987, 1989-2020	91% Likelihood Upward	0.0851	8.85 (4.88 - 12.8)	10.7
12120600	Mean Annual Discharge	1987, 1989-2020	95% Likelihood Upward	0.385	49.2 (36.5 - 61.8)	53.4
12120600	Maximum Seven-Day Average Discharge	1987, 1989-2020	Trend About as Likely as Not	0.264	243 (142 - 344)	258
12120600	Minimum Seven-Day Average Discharge	1987, 1989-2020	Trend About as Likely as Not	0.00395	8.87 (7.56 - 10.2)	8.51
12121600	HPC	1964-2020	70% Likelihood Upward	0	8.46 (5.05 - 11.9)	9.83
12121600	Mean Annual Discharge	1964-2020	70% Likelihood Downward	-0.161	132 (102 - 163)	142
12121600	Maximum Seven-Day Average Discharge	1964-2020	87% Likelihood Downward	-2.13	655 (414 - 895)	625
12121600	Minimum Seven-Day Average Discharge	1964-2020	100% Likelihood Downward	-0.131	21.6 (17.9 - 25.2)	19.3
12141300	HPC	1962-1991, 1993-2020	88% Likelihood Upward	0.0312	12.4 (8.17 - 16.7)	13
12141300	Mean Annual Discharge	1962-1991, 1993-2020	Trend About as Likely as Not	0.252	1240 (1010 - 1480)	1240
12141300	Maximum Seven-Day Average Discharge	1962-1991, 1993-2020	70% Likelihood Upward	7.88	5690 (3900 - 7480)	6280
12141300	Minimum Seven-Day Average Discharge	1962-1991, 1993-2020	100% Likelihood Downward	-1.21	171 (125 - 218)	126
12142000	HPC	1930-1949, 1962-1989, 1991-2020	69% Likelihood Upward	0	14.3 (9.58 - 19)	13.8
12142000	Mean Annual Discharge	1930-1949, 1962-1989, 1991-2020	92% Likelihood Upward	0.607	509 (415 - 603)	524
12142000	Maximum Seven-Day Average Discharge	1930-1949, 1962-1989, 1991-2020	99% Likelihood Upward	7.29	2230 (1580 - 2880)	2650
12142000	Minimum Seven-Day Average Discharge	1930-1949, 1962-1989, 1991-2020	100% Likelihood Downward	-0.23	57.1 (41.4 - 72.9)	35.2

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)	Average of Last 5 Years
12143400	HPC	1961-1989, 1991-2020	76% Likelihood Upward	0	10.8 (7.1 - 14.5)	11.8
12143400	Mean Annual Discharge	1961-1989, 1991-2020	Trend About as Likely as Not	-0.065	297 (240 - 355)	290
12143400	Maximum Seven-Day Average Discharge	1961-1989, 1991-2020	Trend About as Likely as Not	1.15	1360 (894 - 1830)	1350
12143400	Minimum Seven-Day Average Discharge	1961-1989, 1991-2020	100% Likelihood Downward	-0.205	33.5 (24.7 - 42.3)	25.4
12143600	HPC	1964-1965, 1984-2020	77% Likelihood Upward	0.0233	11.2 (7.34 - 15)	11.2
12143600	Mean Annual Discharge	1964-1965, 1984-2020	Trend About as Likely as Not	0.174	436 (353 - 519)	418
12143600	Maximum Seven-Day Average Discharge	1964-1965, 1984-2020	70% Likelihood Upward	5.08	2060 (1300 - 2820)	2100
12143600	Minimum Seven-Day Average Discharge	1964-1965, 1984-2020	85% Likelihood Downward	-0.137	56.7 (47.4 - 66)	52.3
12143700	HPC	1946-2020	97% Likelihood Downward	0	1.36 (0.435 - 2.29)	1.5
12143700	Mean Annual Discharge	1946-2020	97% Likelihood Downward	-0.079	23.1 (15 - 31.1)	21.1
12143700	Maximum Seven-Day Average Discharge	1946-2020	100% Likelihood Downward	-0.523	77.1 (48.7 - 106)	61.5
12143700	Minimum Seven-Day Average Discharge	1946-2020	100% Likelihood Upward	0.0171	1.53 (0.213 - 2.85)	1.74
12143900	HPC	1982-2020	81% Likelihood Upward	0	1.59 (0.0388 - 3.14)	1.83
12143900	Mean Annual Discharge	1982-2020	93% Likelihood Upward	0.203	42.3 (35.1 - 49.5)	43.2
12143900	Maximum Seven-Day Average Discharge	1982-2020	70% Likelihood Upward	0.235	106 (68.2 - 145)	117
12143900	Minimum Seven-Day Average Discharge	1982-2020	94% Likelihood Upward	0.123	16.9 (12.4 - 21.3)	14.9

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)	Average of Last 5 Years
12144000	HPC	1909, 1911-1912, 1914-1926, 1930-1938, 1946-1949, 1961-1973, 1985-2020	99% Likelihood Upward	0.025	9.08 (5.69 - 12.5)	10
12144000	Mean Annual Discharge	1909, 1911-1912, 1914-1926, 1930-1938, 1946-1949, 1961-1973, 1985-2020	Trend About as Likely as Not	0.163	550 (441 - 659)	541
12144000	Maximum Seven-Day Average Discharge	1909, 1911-1912, 1914-1926, 1930-1938, 1946-1949, 1961-1973, 1985-2020	87% Likelihood Upward	2.34	2140 (1380 - 2890)	2240
12144000	Minimum Seven-Day Average Discharge	1909, 1911-1912, 1914-1926, 1930-1938, 1946-1949, 1961-1973, 1985-2020	98% Likelihood Upward	0.128	103 (83.6 - 122)	97.3
12144500	HPC	1903, 1927, 1959-2020	74% Likelihood Upward	0	11.5 (7.19 - 15.9)	12.5
12144500	Mean Annual Discharge	1903, 1927, 1959-2020	Trend About as Likely as Not	-0.539	2700 (2200 - 3200)	2710
12144500	Maximum Seven-Day Average Discharge	1903, 1927, 1959-2020	71% Likelihood Upward	11	11500 (7630 - 15400)	12600
12144500	Minimum Seven-Day Average Discharge	1903, 1927, 1959-2020	100% Likelihood Downward	-1.89	429 (333 - 525)	336
12145500	HPC	1946-1950, 1965-1972, 1975-2020	68% Likelihood Downward	0	11.4 (8.07 - 14.7)	12.2
12145500	Mean Annual Discharge	1946-1950, 1965-1972, 1975-2020	Trend About as Likely as Not	-0.0592	133 (106 - 161)	139
12145500	Maximum Seven-Day Average Discharge	1946-1950, 1965-1972, 1975-2020	Trend About as Likely as Not	-0.0379	731 (483 - 980)	732
12145500	Minimum Seven-Day Average Discharge	1946-1950, 1965-1972, 1975-2020	100% Likelihood Downward	-0.0446	10.8 (8.37 - 13.2)	8.94

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)	Average of Last 5 Years
12147600	HPC	1961-1963, 1969-2020	Trend About as Likely as Not	0	16.4 (12 - 20.8)	15.3
12147600	Mean Annual Discharge	1961-1963, 1969-2020	87% Likelihood Upward	0.103	56.1 (46.4 - 65.8)	61.7
12147600	Maximum Seven-Day Average Discharge	1961-1963, 1969-2020	99% Likelihood Upward	1.84	298 (209 - 387)	390
12147600	Minimum Seven-Day Average Discharge	1961-1963, 1969-2020	99% Likelihood Downward	-0.0294	4.27 (2.8 - 5.74)	3.24
12148000	HPC	1953-1963, 1970-2020	100% Likelihood Downward	-0.182	7.31 (3.54 - 11.1)	3.67
12148000	Mean Annual Discharge	1953-1963, 1970-2020	100% Likelihood Downward	-1.4	116 (84 - 148)	88.4
12148000	Maximum Seven-Day Average Discharge	1953-1963, 1970-2020	100% Likelihood Downward	-6.43	576 (326 - 826)	437
12148000	Minimum Seven-Day Average Discharge	1953-1963, 1970-2020	100% Likelihood Upward	0.481	41.8 (35.1 - 48.6)	50.7
12148300	HPC	1983-2020	Trend About as Likely as Not	0	5.79 (2.93 - 8.65)	5.67
12148300	Mean Annual Discharge	1983-2020	87% Likelihood Upward	0.654	150 (110 - 190)	154
12148300	Maximum Seven-Day Average Discharge	1983-2020	79% Likelihood Downward	-2.78	681 (405 - 956)	656
12148300	Minimum Seven-Day Average Discharge	1983-2020	100% Likelihood Upward	0.543	62.8 (56.4 - 69.1)	68.1
12148500	HPC	1929-1931, 1938-2020	99% Likelihood Downward	-0.0492	11.6 (7.25 - 16)	10.5
12148500	Mean Annual Discharge	1929-1931, 1938-2020	71% Likelihood Downward	-0.317	577 (470 - 684)	573
12148500	Maximum Seven-Day Average Discharge	1929-1931, 1938-2020	Trend About as Likely as Not	0.268	2240 (1530 - 2940)	2460
12148500	Minimum Seven-Day Average Discharge	1929-1931, 1938-2020	100% Likelihood Upward	0.489	113 (91.4 - 134)	114

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)	Average of Last 5 Years
12149000	HPC	1930-2020	86% Likelihood Downward	-0.0137	10.3 (6.42 - 14.2)	10
12149000	Mean Annual Discharge	1930-2020	Trend About as Likely as Not	-1.18	3720 (3000 - 4450)	3680
12149000	Maximum Seven-Day Average Discharge	1930-2020	81% Likelihood Upward	18.8	15000 (9740 - 20300)	15600
12149000	Minimum Seven-Day Average Discharge	1930-2020	84% Likelihood Upward	0.524	616 (446 - 786)	538
14b	HPC	2005-2020	97% Likelihood Upward	0.333	9.19 (6.28 - 12.1)	10.3
14b	Mean Annual Discharge	2005-2020	96% Likelihood Upward	0.512	24.6 (20.5 - 28.8)	26.6
14b	Maximum Seven-Day Average Discharge	2005-2020	Trend About as Likely as Not	1.21	136 (94.5 - 178)	150
14b	Minimum Seven-Day Average Discharge	2005-2020	99% Likelihood Downward	-0.0273	2.49 (2.22 - 2.75)	2.4
15c	HPC	1992-2020	79% Likelihood Upward	0	6.9 (4.53 - 9.26)	7.17
15c	Mean Annual Discharge	1992-2020	85% Likelihood Upward	0.0621	5.88 (3.86 - 7.9)	6.14
15c	Maximum Seven-Day Average Discharge	1992-2020	Trend About as Likely as Not	-0.0422	39.1 (16.9 - 61.3)	38.2
15c	Minimum Seven-Day Average Discharge	1992-2020	69% Likelihood Upward	0.000976	0.171 (0.0847 - 0.257)	0.173
16b	HPC	1996-2004, 2007-2019	94% Likelihood Downward	-0.312	15.5 (10.5 - 20.6)	13.5
16b	Mean Annual Discharge	1996-2004, 2007-2019	79% Likelihood Downward	-0.0176	1.38 (1.01 - 1.75)	1.3
16b	Maximum Seven-Day Average Discharge	1996-2004, 2007-2019	83% Likelihood Downward	-0.124	10.1 (5.13 - 15)	7.91
16b	Minimum Seven-Day Average Discharge	1996-2004, 2007-2019	77% Likelihood Downward	-0.00088	0.0961 (0.0749 - 0.117)	0.107

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)	Average of Last 5 Years
18a	HPC	1988-2020	Trend About as Likely as Not	0	6.18 (3.26 - 9.1)	6.83
18a	Mean Annual Discharge	1988-2020	98% Likelihood Upward	0.194	20.5 (16.2 - 24.9)	21.9
18a	Maximum Seven-Day Average Discharge	1988-2020	83% Likelihood Upward	0.585	90.4 (48.4 - 132)	114
18a	Minimum Seven-Day Average Discharge	1988-2020	99% Likelihood Downward	-0.0403	3.26 (2.43 - 4.08)	2.94
21A	HPC	2002-2020	74% Likelihood Upward	0	7.84 (5.62 - 10.1)	8.5
21A	Mean Annual Discharge	2002-2020	97% Likelihood Upward	0.67	36.6 (30.3 - 43)	38.2
21A	Maximum Seven-Day Average Discharge	2002-2020	67% Likelihood Upward	1.04	211 (141 - 281)	202
21A	Minimum Seven-Day Average Discharge	2002-2020	Trend About as Likely as Not	0.00224	2.51 (2.07 - 2.96)	2.18
22A	HPC	2002-2020	77% Likelihood Upward	0.0833	9 (5.81 - 12.2)	9.83
22A	Mean Annual Discharge	2002-2020	99% Likelihood Upward	0.329	16.8 (14.1 - 19.6)	17.6
22A	Maximum Seven-Day Average Discharge	2002-2020	75% Likelihood Upward	0.967	94.7 (62.1 - 127)	94.5
22A	Minimum Seven-Day Average Discharge	2002-2020	77% Likelihood Upward	0.00987	0.534 (0.426 - 0.641)	0.381
26a	HPC	1989-2020	87% Likelihood Upward	0.0646	4.34 (1.89 - 6.8)	5
26a	Mean Annual Discharge	1989-2020	100% Likelihood Upward	0.423	41.8 (33.2 - 50.4)	50.4
26a	Maximum Seven-Day Average Discharge	1989-2020	77% Likelihood Upward	0.595	142 (78 - 206)	153
26a	Minimum Seven-Day Average Discharge	1989-2020	100% Likelihood Upward	0.271	11.4 (9.49 - 13.3)	16.4

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)	Average of Last 5 Years
27a	HPC	1964-1972, 1975-1989, 1993-1994, 1999-2001, 2005-2020	100% Likelihood Upward	0.156	15 (10.7 - 19.3)	21.8
27a	Mean Annual Discharge	1964-1972, 1975-1989, 1993-1994, 1999-2001, 2005-2020	Trend About as Likely as Not	0.0018	11 (8.69 - 13.3)	11.3
27a	Maximum Seven-Day Average Discharge	1964-1972, 1975-1989, 1993-1994, 1999-2001, 2005-2020	82% Likelihood Upward	0.117	49.7 (32.6 - 66.9)	50.3
27a	Minimum Seven-Day Average Discharge	1964-1972, 1975-1989, 1993-1994, 1999-2001, 2005-2020	100% Likelihood Downward	-0.0157	2.38 (1.82 - 2.94)	1.83
28a	HPC	2000-2020	Trend About as Likely as Not	0	11 (6.67 - 15.3)	11.7
28a	Mean Annual Discharge	2000-2020	72% Likelihood Upward	0.0498	6.1 (4.67 - 7.53)	6.74
28a	Maximum Seven-Day Average Discharge	2000-2020	84% Likelihood Upward	0.54	36.8 (27.3 - 46.4)	37
28a	Minimum Seven-Day Average Discharge	2000-2020	Trend About as Likely as Not	0.00699	1.46 (1.28 - 1.63)	1.46
31d	HPC	1989, 1992- 1998, 2002- 2020	98% Likelihood Upward	0.222	13 (9.95 - 16)	15.2
31d	Mean Annual Discharge	1989, 1992- 1998, 2002- 2020	100% Likelihood Upward	0.0608	4.14 (3.26 - 5.03)	4.84
31d	Maximum Seven-Day Average Discharge	1989, 1992- 1998, 2002- 2020	86% Likelihood Upward	0.217	21.5 (14.2 - 28.7)	23.4
31d	Minimum Seven-Day Average Discharge	1989, 1992- 1998, 2002- 2020	97% Likelihood Upward	0.00693	0.981 (0.846 - 1.12)	1.17
31i	HPC	1992-1994, 2009-2020	85% Likelihood Upward	0.167	12.7 (9.98 - 15.4)	13.3
31i	Mean Annual Discharge	1992-1994, 2009-2020	86% Likelihood Upward	0.0724	8.25 (7.16 - 9.34)	8.42

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)	Average of Last 5 Years
31i	Maximum Seven-Day Average Discharge	1992-1994, 2009-2020	87% Likelihood Upward	0.349	38.1 (25.6 - 50.7)	40.8
31i	Minimum Seven-Day Average Discharge	1992-1994, 2009-2020	99% Likelihood Downward	-0.0254	1.04 (0.778 - 1.3)	0.747
34a	HPC	1992-1995, 1999-2002, 2005, 2008-2020	80% Likelihood Upward	0.115	17.1 (12.4 - 21.8)	19.8
34a	Mean Annual Discharge	1992-1995, 1999-2002, 2005, 2008-2020	94% Likelihood Upward	0.0508	4.93 (3.76 - 6.1)	5.65
34a	Maximum Seven-Day Average Discharge	1992-1995, 1999-2002, 2005, 2008-2020	Trend About as Likely as Not	0.0297	24.9 (13.5 - 36.2)	28.8
34a	Minimum Seven-Day Average Discharge	1992-1995, 1999-2002, 2005, 2008-2020	Trend About as Likely as Not	0.00161	1.04 (0.831 - 1.26)	0.926
35c	HPC	1992-2020	Trend About as Likely as Not	0	7.28 (4.17 - 10.4)	8.67
35c	Mean Annual Discharge	1992-2020	Trend About as Likely as Not	-0.0035	13.1 (10.9 - 15.3)	13.3
35c	Maximum Seven-Day Average Discharge	1992-2020	76% Likelihood Downward	-0.282	50.9 (33.9 - 67.9)	44.2
35c	Minimum Seven-Day Average Discharge	1992-2020	83% Likelihood Downward	-0.019	4.4 (3.97 - 4.83)	4.52
37a	HPC	1965-1971, 1990-2020	67% Likelihood Upward	0	8.18 (4.79 - 11.6)	9.5
37a	Mean Annual Discharge	1965-1971, 1990-2020	78% Likelihood Upward	0.0478	22.8 (16.9 - 28.6)	23.7
37a	Maximum Seven-Day Average Discharge	1965-1971, 1990-2020	Trend About as Likely as Not	0.34	139 (71.9 - 205)	133
37a	Minimum Seven-Day Average Discharge	1965-1971, 1990-2020	99% Likelihood Downward	-0.0113	3.16 (2.69 - 3.63)	2.82
40d	HPC	1995-2020	Trend About as Likely as Not	0	2.58 (-0.655 - 5.81)	4.33

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)	Average of Last 5 Years
40d	Mean Annual Discharge	1995-2020	91% Likelihood Upward	0.0561	8.23 (6.72 - 9.73)	8.98
40d	Maximum Seven-Day Average Discharge	1995-2020	87% Likelihood Upward	0.244	19.1 (12.3 - 25.9)	23.6
40d	Minimum Seven-Day Average Discharge	1995-2020	77% Likelihood Upward	0.00964	3.99 (3.62 - 4.36)	3.6
41c	HPC	1989-1991, 2005-2008, 2012-2020	Trend About as Likely as Not	0	7.88 (4.62 - 11.1)	8.33
41c	Mean Annual Discharge	1989-1991, 2005-2008, 2012-2020	83% Likelihood Downward	-0.0472	5.6 (4.17 - 7.04)	5.3
41c	Maximum Seven-Day Average Discharge	1989-1991, 2005-2008, 2012-2020	99% Likelihood Downward	-0.999	39.3 (24.5 - 54.2)	28
41c	Minimum Seven-Day Average Discharge	1989-1991, 2005-2008, 2012-2020	Trend About as Likely as Not	0.00273	0.305 (0.192 - 0.418)	0.331
42a	HPC	1991-2010, 2014-2020	78% Likelihood Upward	0.0714	15 (11.7 - 18.4)	15.8
42a	Mean Annual Discharge	1991-2010, 2014-2020	Trend About as Likely as Not	-0.00453	7.78 (5.45 - 10.1)	7.74
42a	Maximum Seven-Day Average Discharge	1991-2010, 2014-2020	Trend About as Likely as Not	0.165	46.8 (25 - 68.7)	42.7
42a	Minimum Seven-Day Average Discharge	1991-2010, 2014-2020	81% Likelihood Downward	-0.004	1.38 (1.16 - 1.59)	1.19
42b	HPC	1990-2020	100% Likelihood Downward	-0.267	14.3 (10.3 - 18.3)	11.5
42b	Mean Annual Discharge	1990-2020	95% Likelihood Downward	-0.0242	2.44 (1.48 - 3.4)	1.97
42b	Maximum Seven-Day Average Discharge	1990-2020	92% Likelihood Downward	-0.257	16.9 (3.53 - 30.3)	11.6
42b	Minimum Seven-Day Average Discharge	1990-2020	100% Likelihood Downward	-0.00648	0.155 (0.0638 - 0.247)	0.0464
42e	HPC	1993-1996, 2000-2020	95% Likelihood Upward	0.189	13.5 (9.24 - 17.8)	15.7

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)	Average of Last 5 Years
42e	Mean Annual Discharge	1993-1996, 2000-2020	98% Likelihood Upward	0.0263	2.77 (2.32 - 3.21)	3.07
42e	Maximum Seven-Day Average Discharge	1993-1996, 2000-2020	79% Likelihood Upward	0.0677	9.79 (6.78 - 12.8)	10.6
42e	Minimum Seven-Day Average Discharge	1993-1996, 2000-2020	99% Likelihood Upward	0.0144	1.21 (1.04 - 1.38)	1.32
43a	HPC	1999-2020	80% Likelihood Upward	0.143	8.59 (5.1 - 12.1)	9.83
43a	Mean Annual Discharge	1999-2020	Trend About as Likely as Not	0.00591	4.71 (3.5 - 5.91)	4.82
43a	Maximum Seven-Day Average Discharge	1999-2020	71% Likelihood Upward	0.206	27.5 (18.9 - 36.2)	26.5
43a	Minimum Seven-Day Average Discharge	1999-2020	96% Likelihood Upward	0.016	1.56 (1.33 - 1.79)	1.68
46a	HPC	1988-2020	91% Likelihood Upward	0.0833	9.48 (6.39 - 12.6)	10.5
46a	Mean Annual Discharge	1988-2020	92% Likelihood Upward	0.0591	7.14 (5.28 - 9.01)	8.15
46a	Maximum Seven-Day Average Discharge	1988-2020	Trend About as Likely as Not	0.106	41.1 (21.2 - 61)	38.4
46a	Minimum Seven-Day Average Discharge	1988-2020	Trend About as Likely as Not	-0.0014	0.585 (0.357 - 0.814)	0.565
48c	HPC	1991, 1996-2006, 2009-2019	93% Likelihood Upward	0.154	10.8 (7.33 - 14.2)	12.5
48c	Mean Annual Discharge	1991, 1996-2006, 2009-2019	Trend About as Likely as Not	0.00835	3.27 (2.4 - 4.13)	3.39
48c	Maximum Seven-Day Average Discharge	1991, 1996-2006, 2009-2019	78% Likelihood Upward	0.146	20.9 (12.3 - 29.5)	21.9
48c	Minimum Seven-Day Average Discharge	1991, 1996-2006, 2009-2019	Trend About as Likely as Not	0	0.00422 (-0.00374 - 0.0122)	0.00167
51T	HPC	1966-2020	Trend About as Likely as Not	0	3.89 (1.69 - 6.09)	4.83

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)	Average of Last 5 Years
51T	Mean Annual Discharge	1966-2020	Trend About as Likely as Not	-0.238	308 (239 - 378)	323
51T	Maximum Seven-Day Average Discharge	1966-2020	85% Likelihood Downward	-3.69	1180 (785 - 1580)	1190
51T	Minimum Seven-Day Average Discharge	1966-2020	100% Likelihood Downward	-0.218	50.2 (41.1 - 59.2)	42
54h	HPC	1995-2020	79% Likelihood Upward	0.0667	11.8 (9.1 - 14.4)	12.5
54h	Mean Annual Discharge	1995-2020	Trend About as Likely as Not	-0.0242	7.62 (5.34 - 9.89)	7.31
54h	Maximum Seven-Day Average Discharge	1995-2020	Trend About as Likely as Not	0.181	56.1 (22.6 - 89.5)	50.4
54h	Minimum Seven-Day Average Discharge	1995-2020	Trend About as Likely as Not	0.000536	0.191 (0.135 - 0.247)	0.156
54i	HPC	1996-2020	92% Likelihood Downward	-0.118	7.56 (4.45 - 10.7)	6.67
54i	Mean Annual Discharge	1996-2020	91% Likelihood Downward	-0.0344	5.24 (4.39 - 6.09)	4.71
54i	Maximum Seven-Day Average Discharge	1996-2020	93% Likelihood Downward	-0.426	27.4 (10 - 44.8)	22.4
54i	Minimum Seven-Day Average Discharge	1996-2020	99% Likelihood Upward	0.0196	1.64 (1.44 - 1.84)	1.71
58A	HPC	1946, 1962-1968, 1997-2020	Trend About as Likely as Not	0	14.7 (9.96 - 19.5)	15.3
58A	Mean Annual Discharge	1946, 1962-1968, 1997-2020	99% Likelihood Downward	-0.0459	10.6 (9.49 - 11.7)	10.2
58A	Maximum Seven-Day Average Discharge	1946, 1962-1968, 1997-2020	82% Likelihood Downward	-0.0661	32.5 (25.1 - 39.9)	28
58A	Minimum Seven-Day Average Discharge	1946, 1962-1968, 1997-2020	98% Likelihood Downward	-0.029	3.13 (2.32 - 3.95)	2.75
63a	HPC	2000-2008, 2014-2020	77% Likelihood Upward	0.117	13.1 (8.36 - 17.8)	14.8

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)	Average of Last 5 Years
63a	Mean Annual Discharge	2000-2008, 2014-2020	93% Likelihood Upward	0.0397	4.04 (3.19 - 4.89)	4.5
63a	Maximum Seven-Day Average Discharge	2000-2008, 2014-2020	78% Likelihood Upward	0.36	26.3 (15 - 37.6)	25.9
63a	Minimum Seven-Day Average Discharge	2000-2008, 2014-2020	91% Likelihood Downward	-0.00571	0.241 (0.16 - 0.322)	0.209
65A	HPC	2005-2020	97% Likelihood Upward	0.558	9.38 (6.38 - 12.4)	11.5
65A	Mean Annual Discharge	2005-2020	87% Likelihood Upward	0.0186	0.845 (0.595 - 1.09)	0.946
65A	Maximum Seven-Day Average Discharge	2005-2020	Trend About as Likely as Not	-0.0232	5.26 (3.05 - 7.47)	5.11
65A	Minimum Seven-Day Average Discharge	2005-2020	67% Likelihood Upward	0.0018	0.204 (0.164 - 0.245)	0.225
65B	HPC	2005-2020	85% Likelihood Upward	0.31	9.12 (6.02 - 12.2)	9.83
65B	Mean Annual Discharge	2005-2020	70% Likelihood Upward	0.0107	1.62 (1.21 - 2.04)	1.72
65B	Maximum Seven-Day Average Discharge	2005-2020	Trend About as Likely as Not	-0.0472	8.01 (5.03 - 11)	7.47
65B	Minimum Seven-Day Average Discharge	2005-2020	79% Likelihood Upward	0.0054	0.463 (0.339 - 0.586)	0.499
bl2	HPC	1998-2020	80% Likelihood Upward	0.0625	8.83 (6.19 - 11.5)	8.5
bl2	Mean Annual Discharge	1998-2020	Trend About as Likely as Not	0.000289	0.866 (0.586 - 1.14)	0.811
bl2	Maximum Seven-Day Average Discharge	1998-2020	81% Likelihood Upward	0.0712	6.12 (3.78 - 8.46)	6.72
bl2	Minimum Seven-Day Average Discharge	1998-2020	NA	0	0 (0 - 0)	0
bl4	HPC	1998-2000, 2002-2020	80% Likelihood Upward	0.0714	4.95 (2.32 - 7.59)	5.33

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Site	Parameter	Years Monitored	Trend Likelihood	Slope (units per year)	Long-term Average (+/- SD)	Average of Last 5 Years
bl4	Mean Annual Discharge	1998-2000, 2002-2020	80% Likelihood Downward	-0.0219	1.68 (1.03 - 2.32)	1.43
bl4	Maximum Seven-Day Average Discharge	1998-2000, 2002-2020	90% Likelihood Upward	0.287	13.2 (7.76 - 18.6)	14.3
bl4	Minimum Seven-Day Average Discharge	1998-2000, 2002-2020	NA	0	0 (0 - 0)	0
COB_MCF	HPC	1956-2020	100% Likelihood Upward	0.125	18.3 (13.2 - 23.4)	20.7
COB_MCF	Mean Annual Discharge	1956-2020	80% Likelihood Upward	0.0243	22.6 (18.4 - 26.8)	23.3
COB_MCF	Maximum Seven-Day Average Discharge	1956-2020	90% Likelihood Upward	0.279	106 (69.1 - 142)	100
COB_MCF	Minimum Seven-Day Average Discharge	1956-2020	77% Likelihood Upward	0.00696	5.83 (5.09 - 6.56)	5.43

Appendix G: Land Use Classifications

Routine Stream Monitoring Sites

Stream monitoring site drainage land use based on 2019 National Land Cover Data. Note that the drainage area refers only to the area contributing to the stream at and above the monitoring location. Developed land use includes all developed categories (high-, moderate-, and low-intensity, and open). Forested includes deciduous, evergreen, and mixed. Agriculture includes pasture/hay and cultivated crops. Wetlands includes woody wetlands and emergent herbaceous wetlands. Percent perennial ice/snow is not included because no site exceeded 1%.

Locator	Stream	Land Use	Drainage Area (sq. km)	Percent Open Water	Percent Developed	Percent Agriculture	Percent Herbaceous	Percent Shrubland	Percent Forested	Percent Barren Land	Percent Wetlands
322	Newaukum	Agricultural	80	<1	26	36	1	2	29	<1	6
AMES_1	Ames Creek	Agricultural	19	2	19	18	2	4	52	<1	2
BSE_1MUDMTRD	Boise	Agricultural	42	<1	15	11	2	6	60	2	4
VA41A	Fisher	Agricultural	5	<1	16	20	<1	2	61	<1	<1
CHERRY_1	Cherry Creek	Forested	53	1	6	<1	1	4	83	<1	4
GRIFFIN	Griffin Creek	Forested	43	<1	<1	<1	2	12	80	<1	6
MFK_SNQ	Snoqualmie - Middle Fork	Forested	443	2	1	<1	3	7	83	4	<1
NFK_SNQ	Snoqualmie - North Fork	Forested	267	2	1	<1	4	10	81	<1	1
RAGING_MTH	Raging River	Forested	84	<1	6	<1	3	3	86	<1	<1
SFK_SNQ	Snoqualmie - South Fork	Forested	219	<1	8	<1	3	8	79	<1	<1
TOLT_MTH	Tolt River	Forested	250	2	2	<1	3	9	82	<1	2
311	Green, Lower 2	Major River	1113	<1	22	5	1	5	64	<1	2

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Locator	Stream	Land Use	Drainage Area (sq. km)	Percent Open Water	Percent Developed	Percent Agriculture	Percent Herbaceous	Percent Shrubland	Percent Forested	Percent Barren Land	Percent Wetlands
438	Cedar	Major River	494	2	15	<1	<1	4	77	<1	2
486	Sammamish, Upper	Major River	263	8	37	2	<1	1	49	<1	2
3106	Green, Lower 1	Major River	1113	<1	22	5	1	5	64	<1	2
0450CC	Sammamish, Middle	Major River	420	5	46	2	<1	1	41	<1	3
A319	Green, Middle 1	Major River	832	<1	7	5	1	6	79	<1	2
A438	Cedar, Upper	Major River	447	2	9	<1	<1	4	82	<1	2
B319	Green, Middle 2	Major River	710	<1	3	<1	1	6	87	<1	<1
SKYKOMISH	Skykomish	Major River	639	1	2	<1	1	7	84	4	<1
SNQDUVALL	Snoqualmie	Major River	1661	1	6	2	3	8	76	1	2
321	Crisp	Rural	11	<1	27	3	3	2	60	<1	4
631	Issaquah	Rural	145	<1	21	3	1	2	70	<1	1
A631	Issaquah, Upper	Rural	106	<1	18	4	1	3	72	1	1
FF321	Crisp, Upper	Rural	6	<1	28	<1	2	2	60	<1	6
HARRIS_1	Harris Creek	Rural	21	2	19	<1	1	9	64	<1	5
LSIN1	Rock	Rural	18	2	22	3	5	6	52	3	8
LSIN9	Ravensdale	Rural	9	1	12	1	1	18	60	<1	5
PATTER_3	Patterson Creek	Rural	53	<1	25	8	<1	2	59	<1	6
VA12A	Shinglemill	Rural	8	<1	29	4	2	2	61	<1	2
VA37A	Tahlequah	Rural	4	<1	18	<1	<1	1	80		<1
VA42A	Judd	Rural	12		20	10	2	3	60	<1	4

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Locator	Stream	Land Use	Drainage Area (sq. km)	Percent Open Water	Percent Developed	Percent Agriculture	Percent Herbaceous	Percent Shrubland	Percent Forested	Percent Barren Land	Percent Wetlands
VA45A	Mileta	Rural	1		11	5	3	5	74	4	
X630	Tibbetts	Rural	11	<1	20	<1	<1	<1	78	<1	<1
440	May	Suburban	33	<1	52	<1	<1	1	43	<1	2
442	Coal	Suburban	15	<1	57	<1	<1	<1	42	<1	<1
478	Little Bear	Suburban	39	<1	69	<1	<1	<1	27	<1	3
484	Bear	Suburban	124	<1	56	2	<1	<1	34	<1	6
632	Issaquah, Middle	Suburban	10	<1	47	<1	1	1	43	2	5
A320	Soos	Suburban	174	2	59	3	1	3	27	<1	5
A499	Cochran Springs	Suburban	1		66				33	<1	
A617	Lewis	Suburban	5		73	<1	<1	1	25	<1	<1
A670	Laughing Jacobs	Suburban	15	2	75	<1	<1	<1	20	<1	3
A680	Pine Lake	Suburban	5	7	64	<1	<1		26		3
A685	Ebright	Suburban	3		70		<1	<1	26		3
A687	Zackuse	Suburban	1		66				34		
A690	Eden	Suburban	11	<1	72	<1	<1	1	19	<1	5
B484	Evans	Suburban	33	<1	57	1	<1	<1	33	<1	7
B499	Yarrow	Suburban	7		73	<1	<1		24	<1	2
C320	Covington	Suburban	18	7	57	2	<1	2	30	<1	1
C484	Bear, Middle	Suburban	84	<1	55	<1	<1	<1	36	<1	5
D320	Jenkins	Suburban	42	2	68	1	<1	1	23	<1	4
G320	Little Soos	Suburban	10	<1	64	4	<1	1	27	<1	3
N484	Cottage Lake Creek	Suburban	28	2	60	<1	<1	<1	33	<1	5
S478	Little Bear, Upper	Suburban	14	<1	65	<1	<1	<1	29	<1	5
S484	Evans, Upper	Suburban	24	<1	57	<1	<1	1	35	<1	6

Water Quality Status and Trends in 75 King County Streams (2016-2020)

Locator	Stream	Land Use	Drainage Area (sq. km)	Percent Open Water	Percent Developed	Percent Agriculture	Percent Herbaceous	Percent Shrubland	Percent Forested	Percent Barren Land	Percent Wetlands
VA65A	Gorsuch	Suburban	1	<1	61	2	<1	1	34	<1	
317	Springbrook	Urban	57	<1	91	1	<1	<1	4	<1	3
430	Lyon	Urban	10	<1	90	<1		<1	10	<1	<1
434	Thornton	Urban	31	<1	98	<1	<1	<1	2	<1	<1
444	Kelsey	Urban	37	<1	87	<1	<1	<1	10	<1	2
446	Juanita	Urban	17	<1	91	<1	<1	<1	7	<1	<1
470	Swamp	Urban	64	<1	89	<1	<1	<1	6	<1	4
474	North	Urban	74	<1	87	<1	<1	<1	7	<1	4
A315	Mill	Urban	34	<1	81	4	<1	<1	8	<1	5
A432	McAleer	Urban	20	2	93	<1	<1	<1	5	<1	<1
A456	Forbes, Upper	Urban	7	<1	93	<1	<1	<1	6	<1	<1
A620	Idylwood	Urban	1		91				9		
BB470	Swamp, Upper	Urban	56	<1	91	<1	<1	<1	5	<1	3
C370	Longfellow	Urban	10	<1	94	<1		<1	5	<1	<1
D474	North, Upper	Urban	67	<1	88	<1	<1	<1	7	<1	4
KSHZ06	Pipers	Urban	7	<1	90		<1	<1	8	<1	2
KTHA01	Pipers, Upper	Urban	4	<1	94		<1	<1	5	<1	<1
KTHA02	Pipers, Middle	Urban	5	<1	93		<1	<1	6	<1	<1
KTHA03	Venema	Urban	2		92				5		3

Gaging Sites

Site Code	Site Name	Land Cover Type
12149000	Snoqualmie River Near Carnation, WA	Major River
12144500	Snoqualmie River Near Snoqualmie, WA	Major River
12141300	Middle Fork Snoqualmie River Near Tanner, WA	Forested
12142000	NF Snoqualmie River Near Snoqualmie Falls, WA	Forested
12143400	SFSnoqualmie River Ab Alice Creek Near Garcia, WA	Forested
12144000	SF Snoqualmie River At North Bend, WA	Forested
12143600	SF Snoqualmie River At Edgewick, WA	Forested
12143700	Boxley Creek Near Cedar Falls, WA	Rural
12143900	Boxley Creek Near Edgewick, WA	Rural
12145500	Raging River Near Fall City, WA	Forested
12148500	Tolt River Near Carnation, WA	Dammed
12148000	South Fork Tolt River Near Carnation, WA	Dammed
12148300	SF Tolt River BI Regulating Basin Nr Carnation, WA	Dammed
12147600	South Fork Tolt River Near Index, WA	Forested
21A	Griffin Creek	Forested
22A	Harris Creek	Rural
05A	Cherry Creek	Forested
48c	Upper Patterson @ Fall City-Redmond Road	Exurban
27a	Juanita Creek at Mouth (formerly USGS 12119600)	Urban
34a	Lyon Creek near Mouth in Lake Forest Park	Urban
35c	McAleer @ Mouth	Urban
37a	May Creek @ Mouth (formerly USGS 12120500)	Exurban
58A	Thornton Creek near Mouth, STA046, USGS 1212800 data before	Urban
16b	O.O.Denny Creek	Exurban
COB_MCF	City of Bellevue Mercer Creek, former USGS 12120000	Urban
51T		Major River

Site Code	Site Name	Land Cover Type
	Sammamish River at NE 116th ST, USGS gage 12125200 data	
02a	Bear Creek @ Union Hill RD	Exurban
02e	Bear Creek at 133rd ST NE, near Redmond	Exurban
02g	Cottage Lake Creek at Avondale RD NE, Bear-Evans Watershed	Exurban
18a	Evans Creek @ Union Hill Road	Exurban
63a	Lewis Creek at West Lake Sammamish Parkway SE	Exurban
15c	Laughing Jacobs Creek at E Lake Sammamish Pkwy	Exurban
bl1	Beaver Lake 1	Exurban
bl2	Beaver Lake 2	Exurban
12121600	Issaquah Creek Near Mouth Near Issaquah, WA	Rural
12120600	Issaquah Creek Near Hobart, WA	Rural
46a	Issaquah Creek, North Fork	Exurban
14b	East Fork Issaquah Creek @ NE Birch	Rural
12119000	Cedar River At Renton, WA	Dammed
12114500	Cedar River Below Bear Creek Near Cedar Falls, WA	Forested
12115000	Cedar River Near Cedar Falls, WA	Forested
12115500	Rex River Near Cedar Falls, WA	Forested
12115700	Boulder Creek Near Cedar Falls, WA	Forested
12116100	Canyon Creek Near Cedar Falls, WA	Forested
12116400	Cedar River At Powerplant At Cedar Falls, WA	Dammed
12116500	Cedar River At Cedar Falls, WA	Dammed
12117000	Taylor Creek Near Selleck, WA	Forested
12117500	Cedar River Near Landsburg, WA	Dammed
31d	Madsen Creek above Sedimentation Pond	Exurban
12117600	Cedar River Below Diversion Near Landsburg, WA	Dammed
12118400	Rock Creek At Highway 516 Near Ravensdale, WA	Rural
12118500	Rock Creek Near Maple Valley, WA	Rural
12113000	Green River Near Auburn, WA	Dammed
12106700	Green River At Purification Plant Near Palmer, WA	Dammed

Site Code	Site Name	Land Cover Type
12113346	Springbrook Creek At Orillia, WA	Urban
12113347	Mill Creek At Earthworks Park At Kent, WA	Urban
12113349	Mill Creek Near Mouth At Orillia, WA	Urban
12112600	Big Soos Creek Above Hatchery Near Auburn, WA	Exurban
09a	Covington Creek near Mouth, Soos CR Watershed	Exurban
26a	Jenkins Creek near Mouth - Soos Creek Watershed	Exurban
54h	Soosette Creek Above SR 18	Urban
54i	Little Soos Creek at SE 272nd	Exurban
40d	Crisp Creek at Green River RD	Rural
41c	Mill Creek at Peaseley Canyon RD	Exurban
12108500	Newaukum Creek Near Black Diamond, WA	Agricultural
11c	Des Moines Creek above Tye Regional Pond	Urban
11d	Des Moines Creek below SR 509, Des Moines (near mouth)	Urban
11f	Des Moines Tributary 0377 at Tye Weir	Urban
11g	NW Ponds Outlet Des Moines CR 0379	Urban
11h	Bow Lake	Urban
42a	Miller Creek near Mouth	Urban
42b	Miller Creek Detention Facility	Urban
42e	Walker Creek, 13th SW, in Normandy Park	Urban
12099600	Boise Creek At Buckley, WA	Agricultural
12097850	White River Below Clearwater River Nr Buckley, WA	Major River
12099200	White River Above Boise Creek At Buckley, WA	Major River
28a	Judd Creek, Vashon Island	Rural
43a	Shingle Mill Creek, Vashon Island	Rural
65B	Fisher Creek at mouth, Vashon Island	Rural
65A	Tahlequah Creek at mouth, Vashon Island	Rural

Appendix H: Development Category Classifications

Development categories for stream monitoring sites evaluated for long-term trends.

Locator	Stream	Development Category
309	Duwamish	Major River
311	Green	Major River
317	Springbrook	1960 and 70s Suburbanization
321	Crisp	Low Development
322	Newaukum	Low Development
430	Lyon	Post-World War II Boom
434	Thornton	Post-World War II Boom
438	Cedar	Major River
440	May	1960 and 70s Suburbanization
442	Coal	1960 and 70s Suburbanization
444	Kelsey	Post-World War II Boom
446	Juanita	1960 and 70s Suburbanization
450	Sammamish	Major River
470	Swamp	1960 and 70s Suburbanization
474	North	1960 and 70s Suburbanization
478	Little Bear	1980s and 90s Suburbanization
484	Bear	1980s and 90s Suburbanization
486	Sammamish	Major River
498	Fairweather	Post-World War II Boom
631	Issaquah	Low Development
632	Issaquah	21 st Century Suburbanization
3106	Green	Major River
0450CC	Sammamish	Major River
A315	Mill	1960 and 70s Suburbanization
A319	Green	Major River
A320	Soos	1960 and 70s Suburbanization
A432	McAleer	Post-World War II Boom
A438	Cedar	Major River
A456	Forbes	Low Development
A499	Cochran Springs	1960 and 70s Suburbanization
A617	Lewis	1980s and 90s Suburbanization
A620	Idylwood	1960 and 70s Suburbanization
A631	Issaquah	Low Development
A670	Laughing Jacobs	1980s and 90s Suburbanization
A680	Pine Lake	1960 and 70s Suburbanization
A685	Ebright	21 st Century Suburbanization
A687	Zackuse	1960 and 70s Suburbanization
A690	Eden	1980s and 90s Suburbanization
AMES_1	Ames Creek	Low Development
B319	Green	Major River
B484	Evans	1980s and 90s Suburbanization
B499	Yarrow	Post-World War II Boom
BB470	Swamp	1960 and 70s Suburbanization
BSE_1MUDMTNRD	Boise	Low Development

Locator	Stream	Development Category
C320	Covington	21st Century Suburbanization
C370	Longfellow	Post-World War II Boom
C446	Juanita	1960 and 70s Suburbanization
C484	Bear	1980s and 90s Suburbanization
CHERRY_1	Cherry Creek	Forest
D320	Jenkins	1960 and 70s Suburbanization
D444	Kelsey	Post-World War II Boom
D474	North	1960 and 70s Suburbanization
FF321	Crisp	Low Development
G320	Little Soos	Low Development
GRIFFIN	Griffin Creek	Forest
HARRIS_1	Harris Creek	Low Development
J370	Longfellow	Post-World War II Boom
J484	Bear	1980s and 90s Suburbanization
KSHZ06	Pipers	Post-World War II Boom
KTHA01	Pipers	Post-World War II Boom
KTHA02	Pipers	Post-World War II Boom
KTHA03	Venema	Post-World War II Boom
LSIN1	Rock	Low Development
LSIN9	Ravensdale	Low Development
MFK_SNQ	Snoqualmie - Middle Fork	Forest
N484	Cottage Lake Creek	1960 and 70s Suburbanization
NFK_SNQ	Snoqualmie - North Fork	Forest
PATTER_3	Patterson Creek	Low Development
RAGING_MTH	Raging River	Forest
S478	Little Bear	1980s and 90s Suburbanization
S484	Evans	1980s and 90s Suburbanization
SFK_SNQ	Snoqualmie - South Fork	Forest
SKYKOMISH	Skykomish	Forest
SNQDUVALL	Snoqualmie	Major River
TOLT_MTH	Tolt River	Forest
VA12A	Shinglemill	Low Development
VA37A	Tahlequah	Low Development
VA41A	Fisher	Low Development
VA42A	Judd	Low Development
VA45A	Mileta	Low Development
VA65A	Gorsuch	Low Development
X630	Tibbetts	21st Century Suburbanization