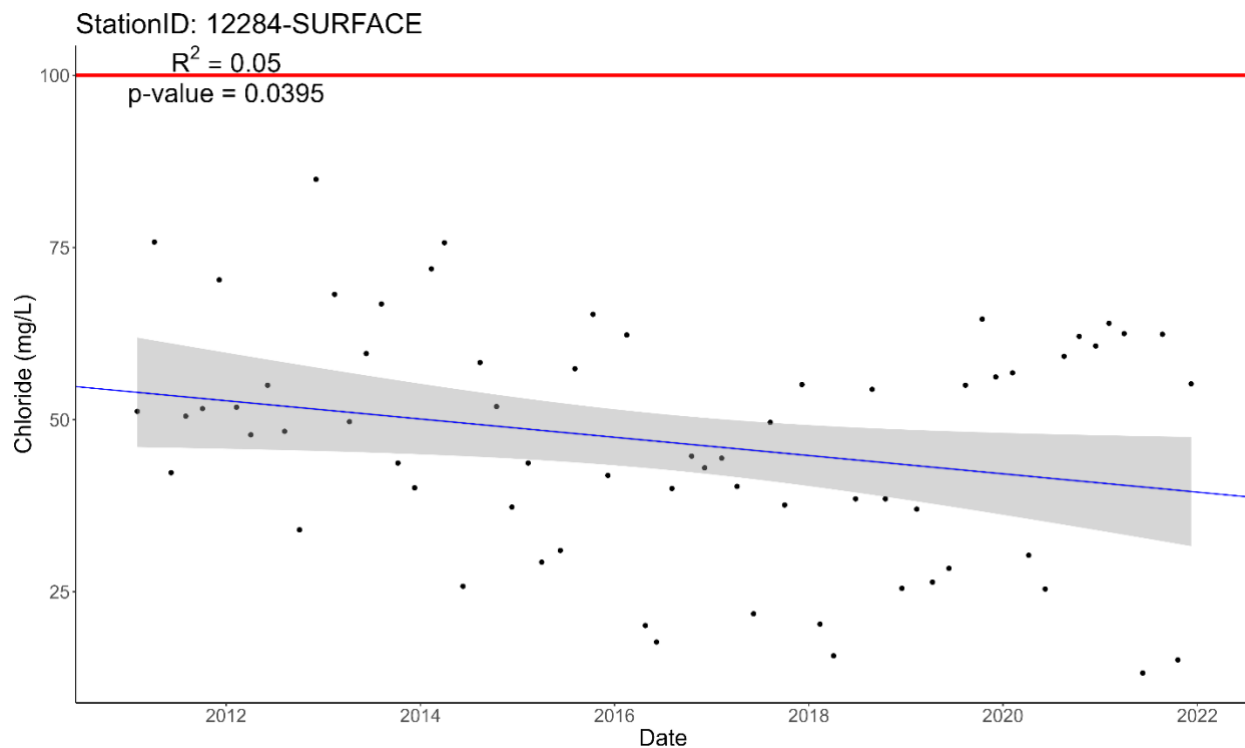
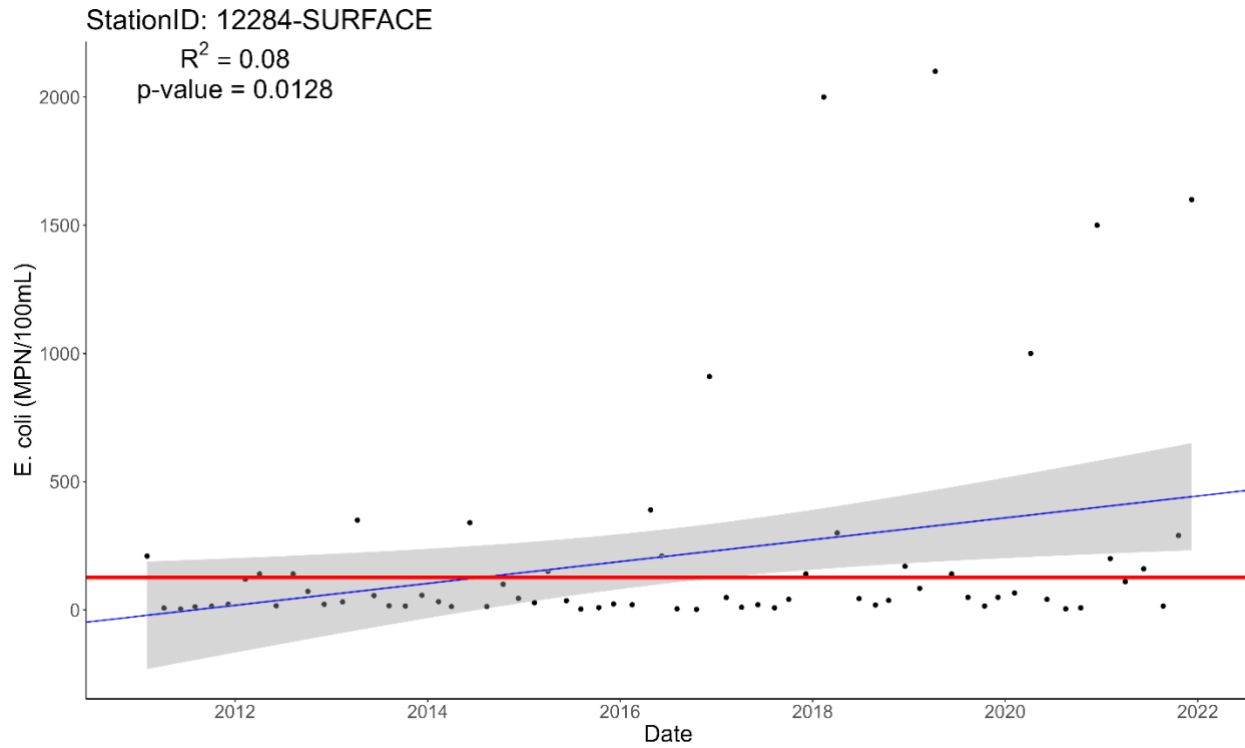


Appendix X14

Significant temporal trend graphs for all stations in the lower Colorado River basin by segment.

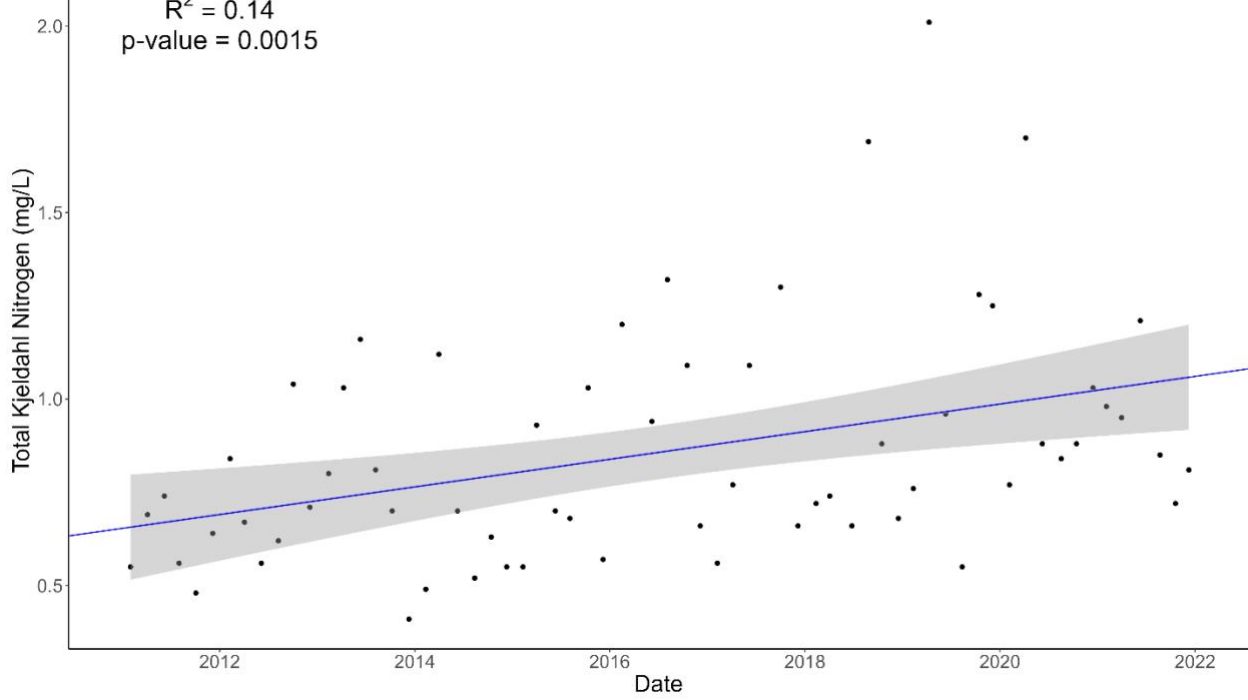
1402 – Colorado River below La Grange

Assessment Unit: 1402_01



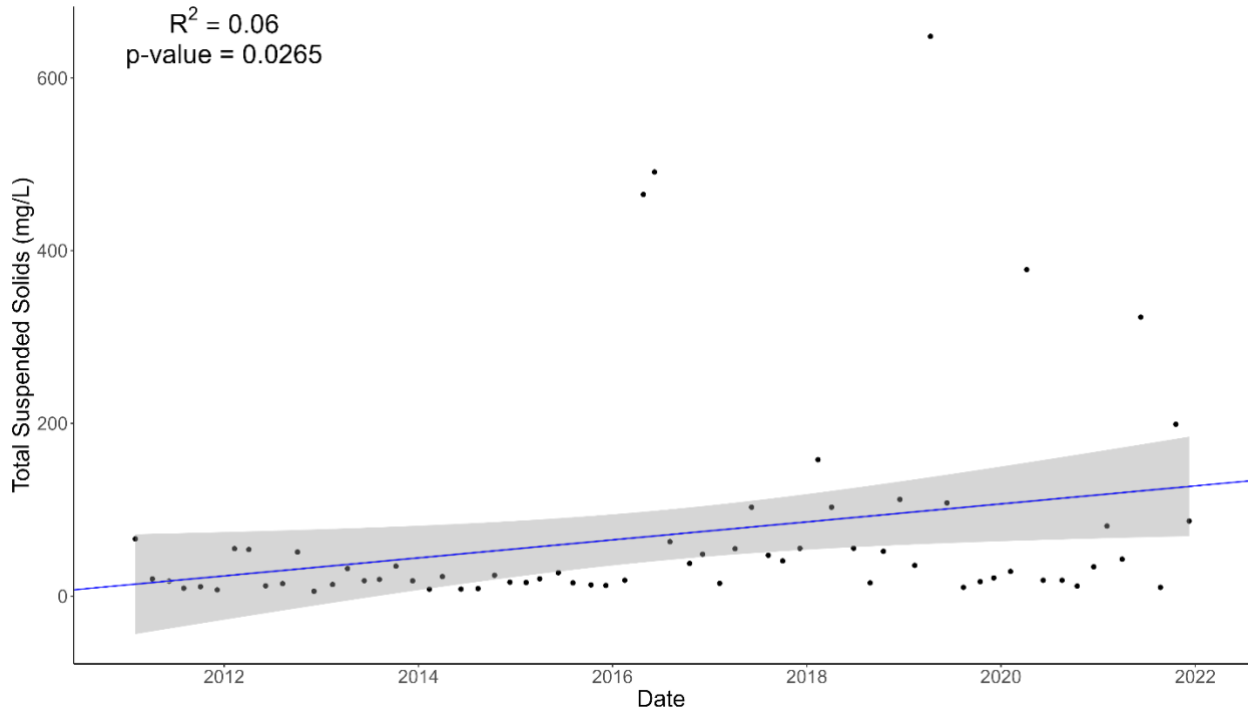
StationID: 12284-SURFACE

$R^2 = 0.14$
p-value = 0.0015

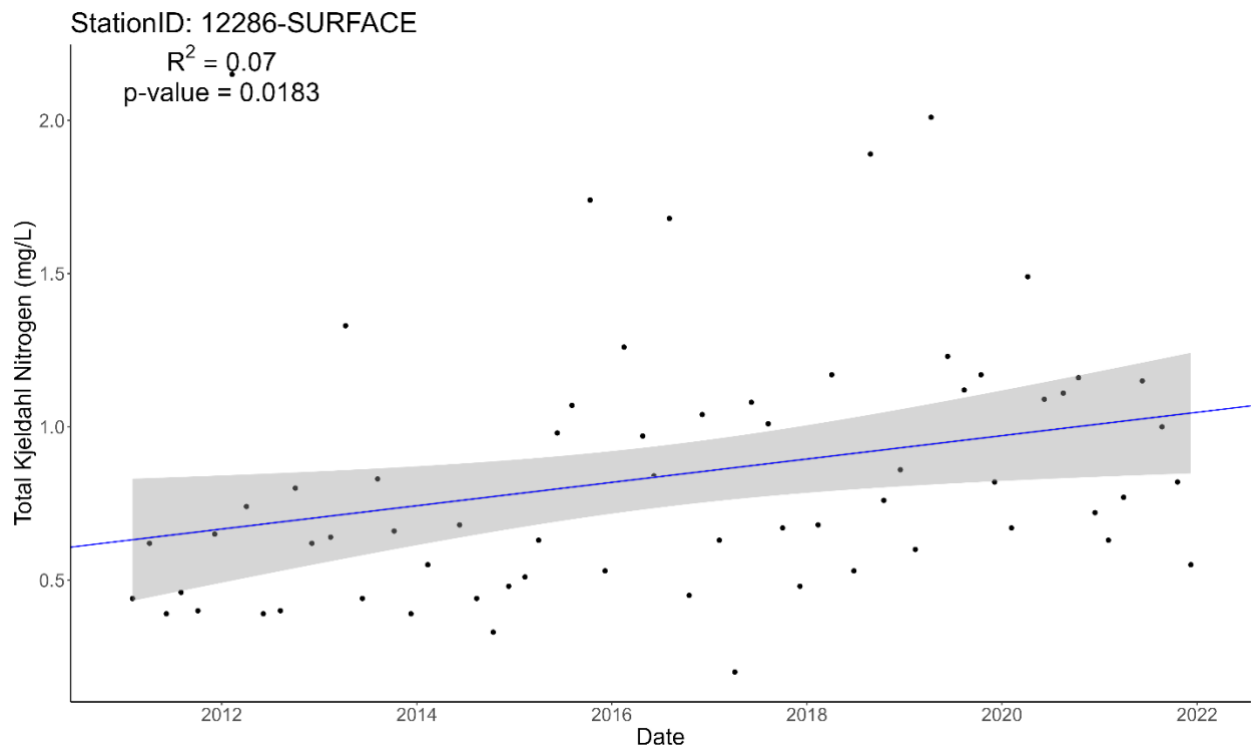
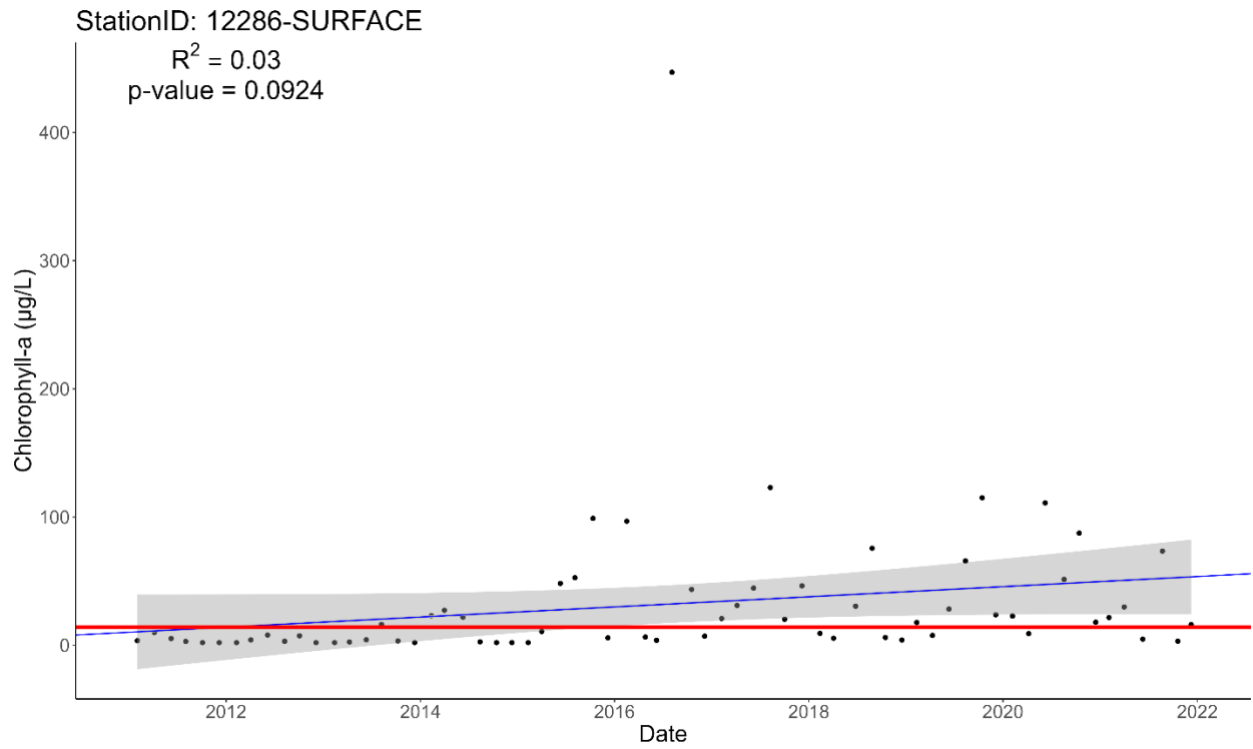


StationID: 12284-SURFACE

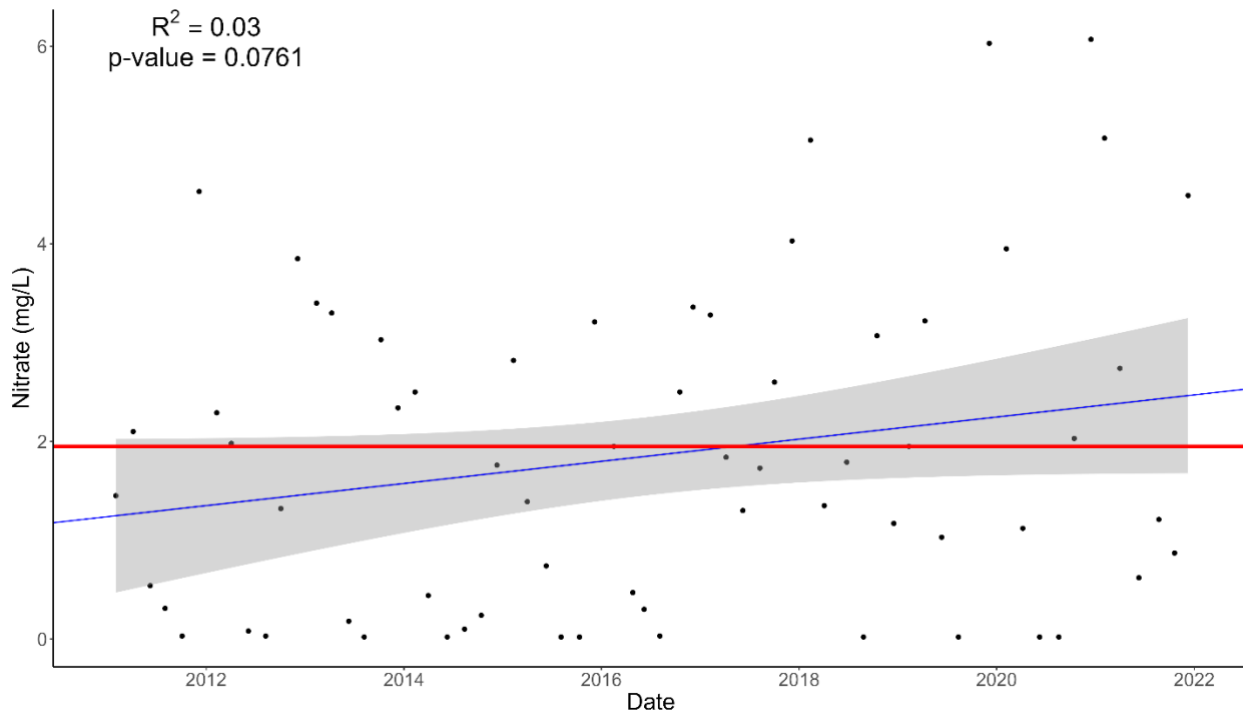
$R^2 = 0.06$
p-value = 0.0265



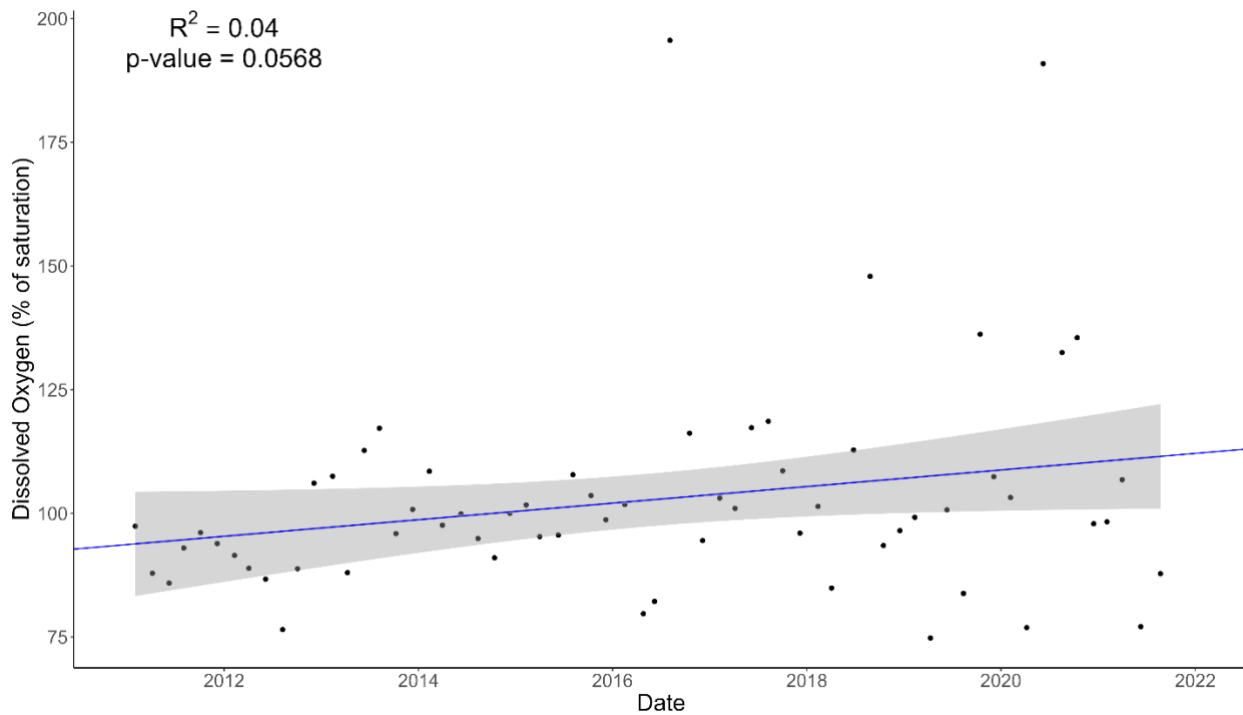
Assessment Unit: 1402_02



StationID: 12286-SURFACE



StationID: 12286-SURFACE



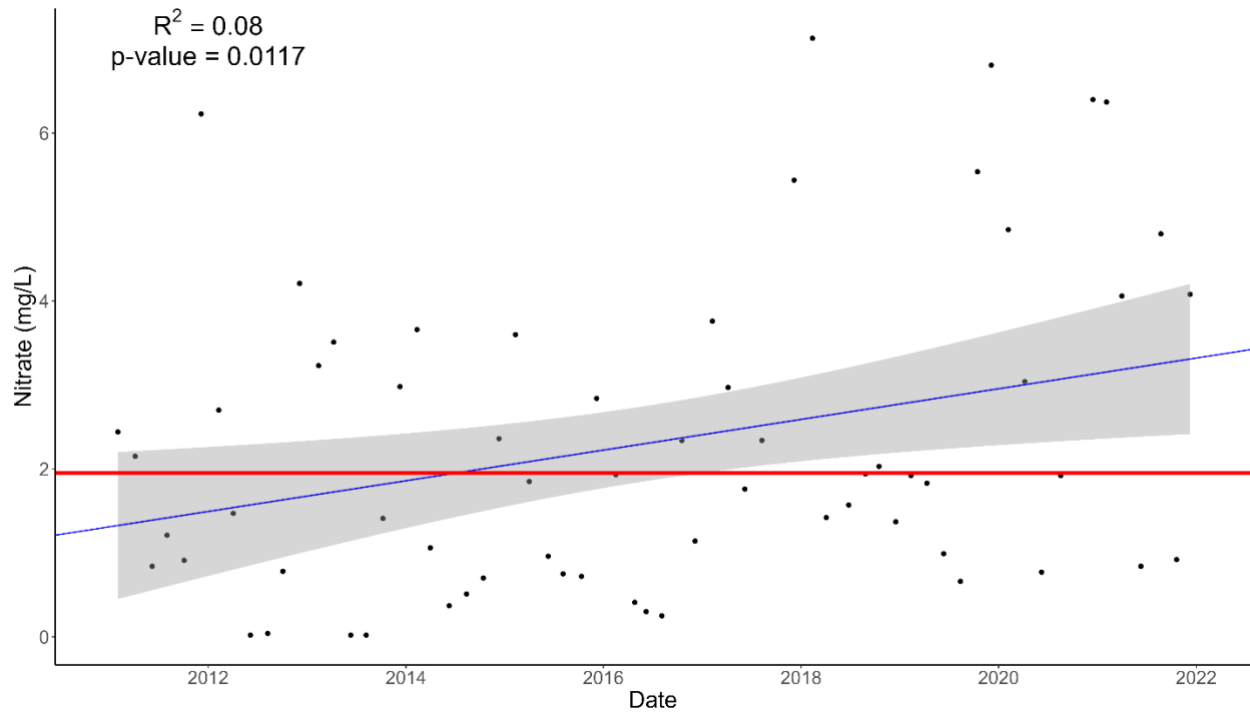
Assessment Unit: 1402_03

No significant trends.

Assessment Unit: 1402_05

StationID: 18351-SURFACE

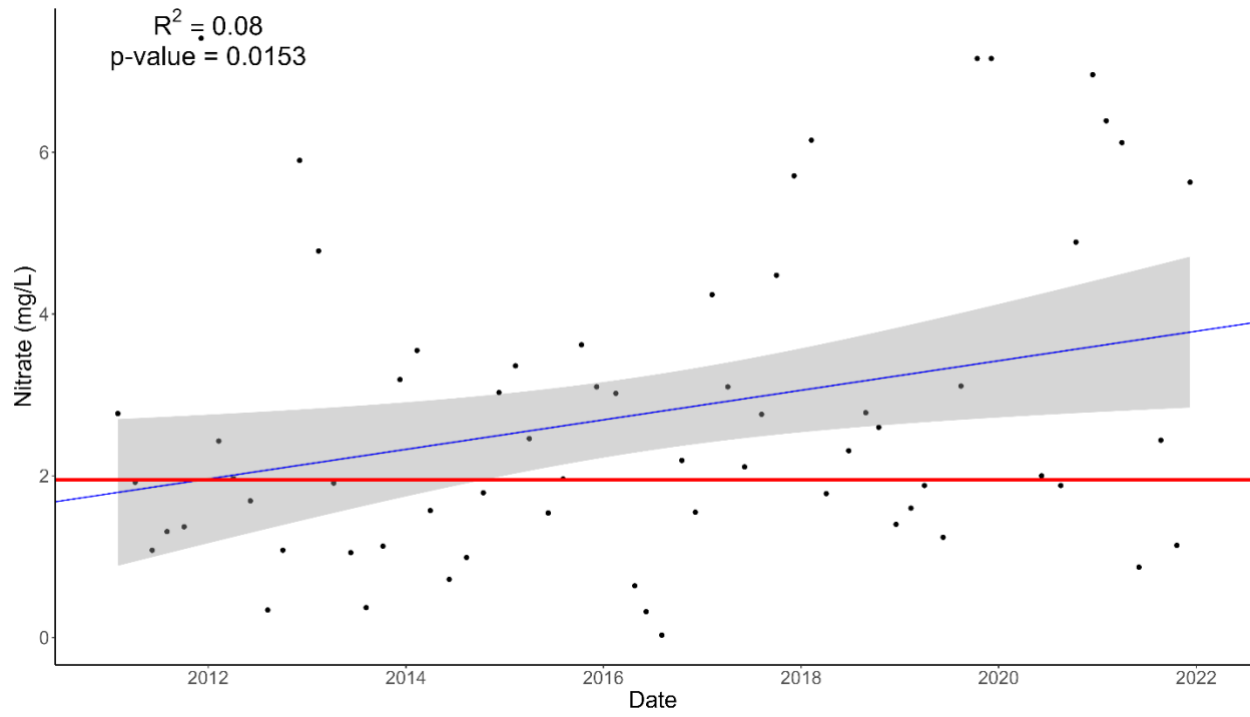
$R^2 = 0.08$
p-value = 0.0117



Assessment Unit: 1402_06

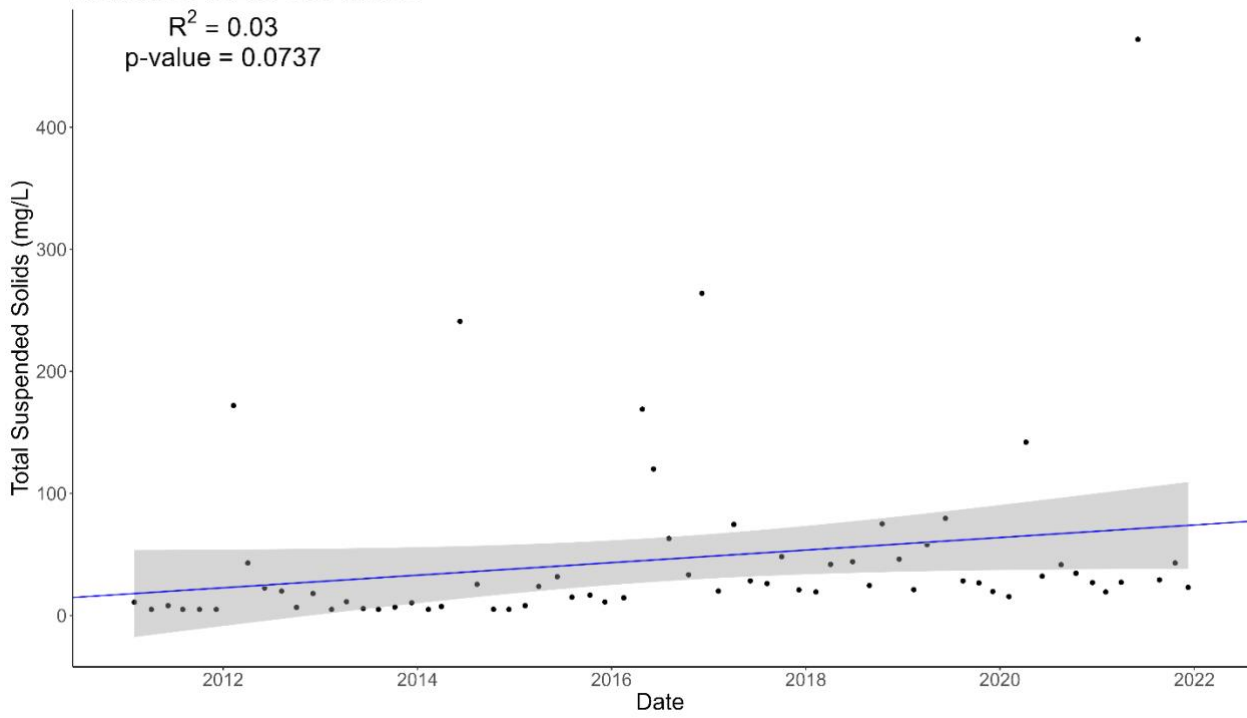
StationID: 12290-SURFACE

$R^2 = 0.08$
p-value = 0.0153



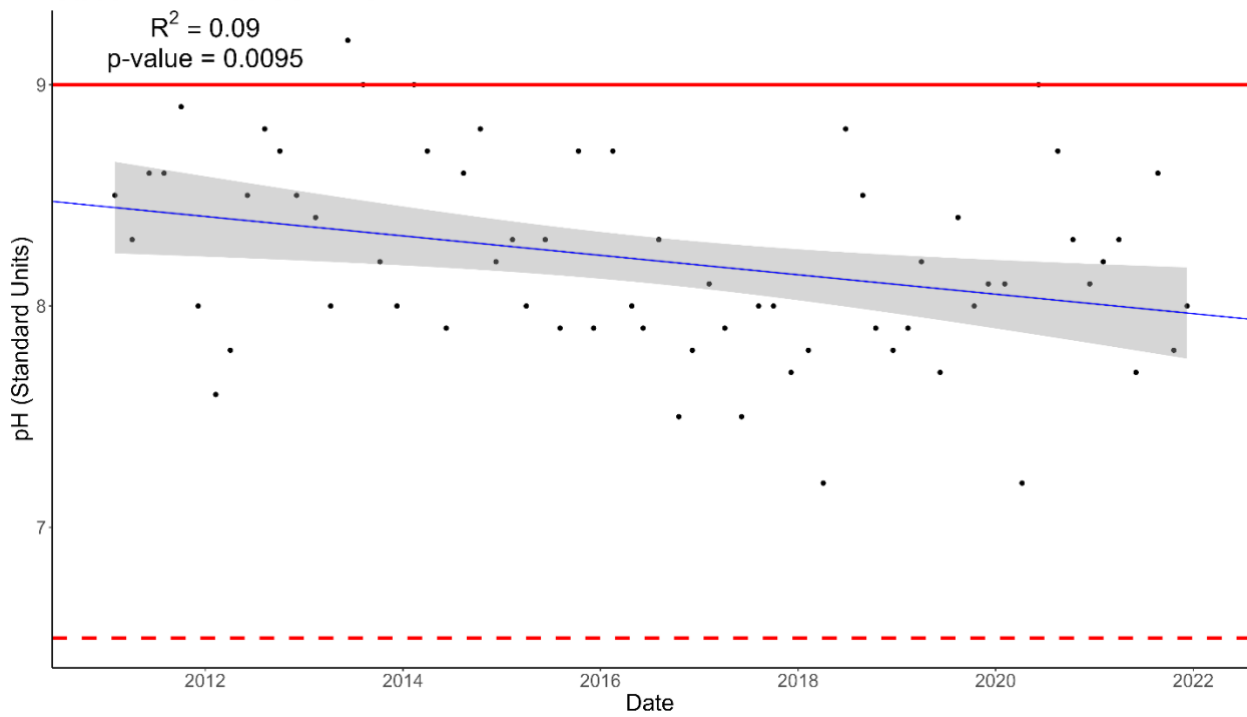
StationID: 12290-SURFACE

$R^2 = 0.03$
p-value = 0.0737



StationID: 12290-SURFACE

$R^2 = 0.09$
p-value = 0.0095



1402A – Cummins Creek

Assessment Unit: 1402A_01

No significant trends.

1402G – Cedar Creek Reservoir/Lake Fayette

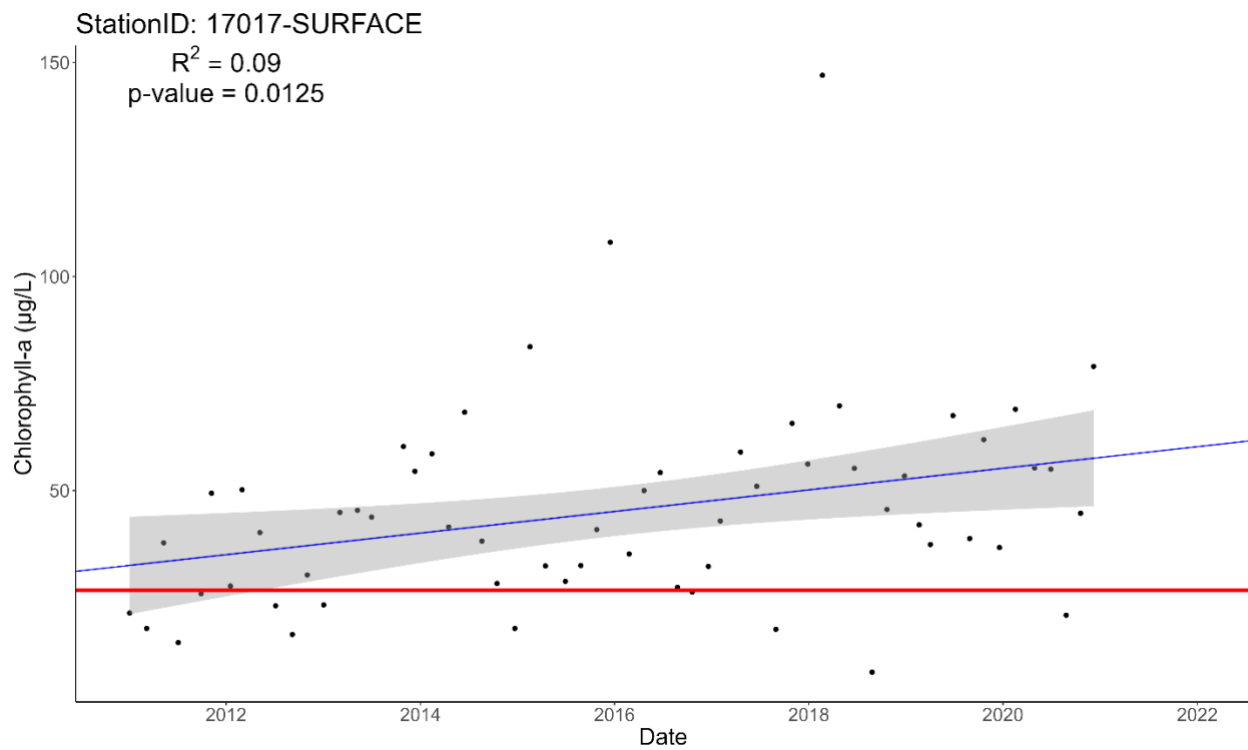
Assessment Unit: 1402G_01

No significant trends.

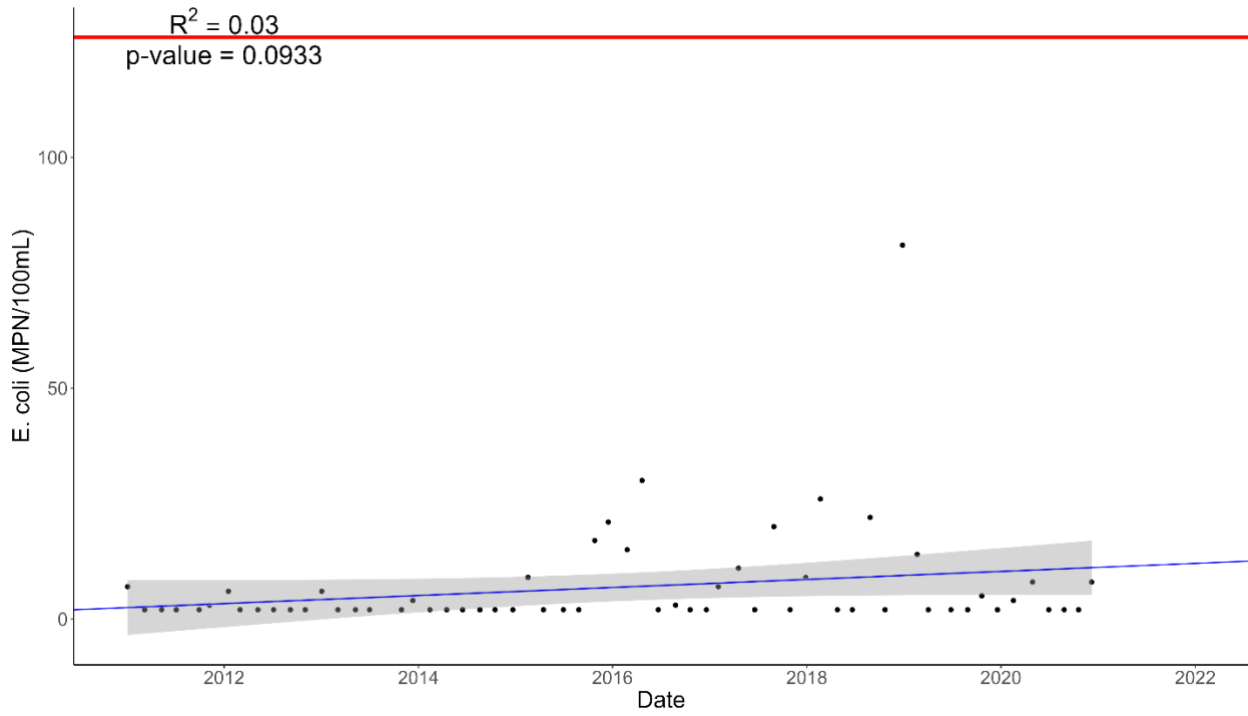
Assessment Unit: 1402G_02

No significant trends.

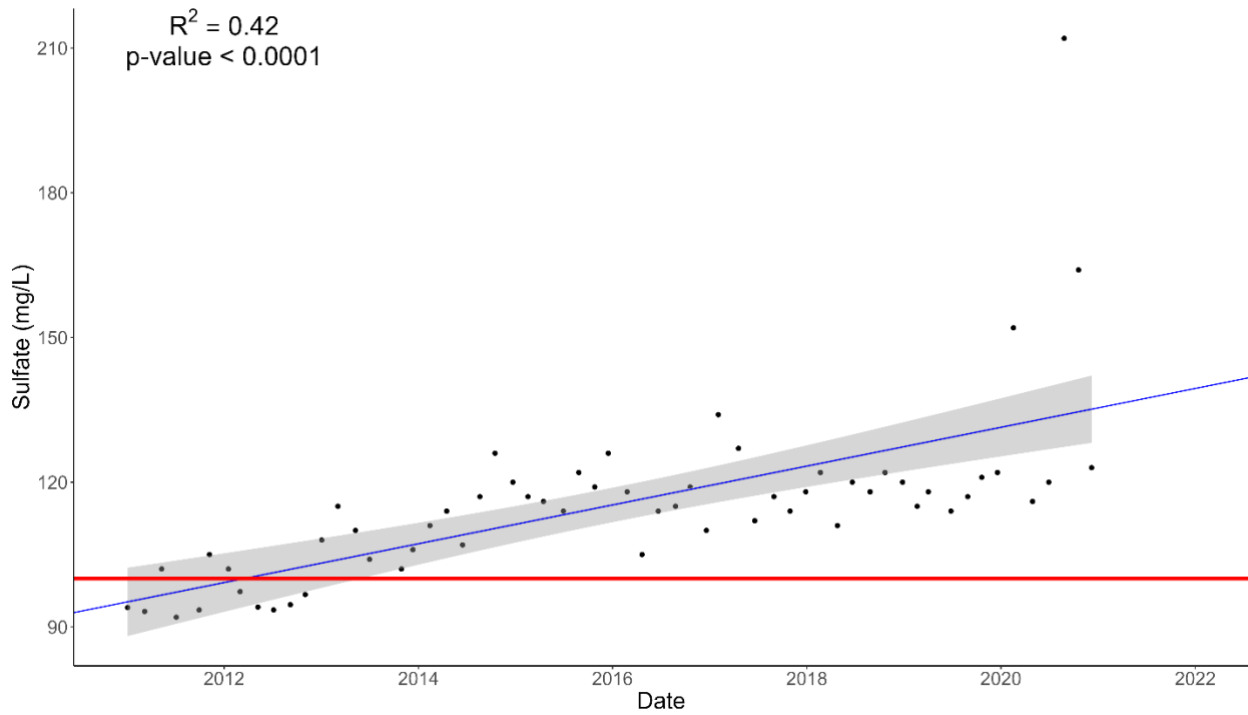
Assessment Unit: 1402G_03



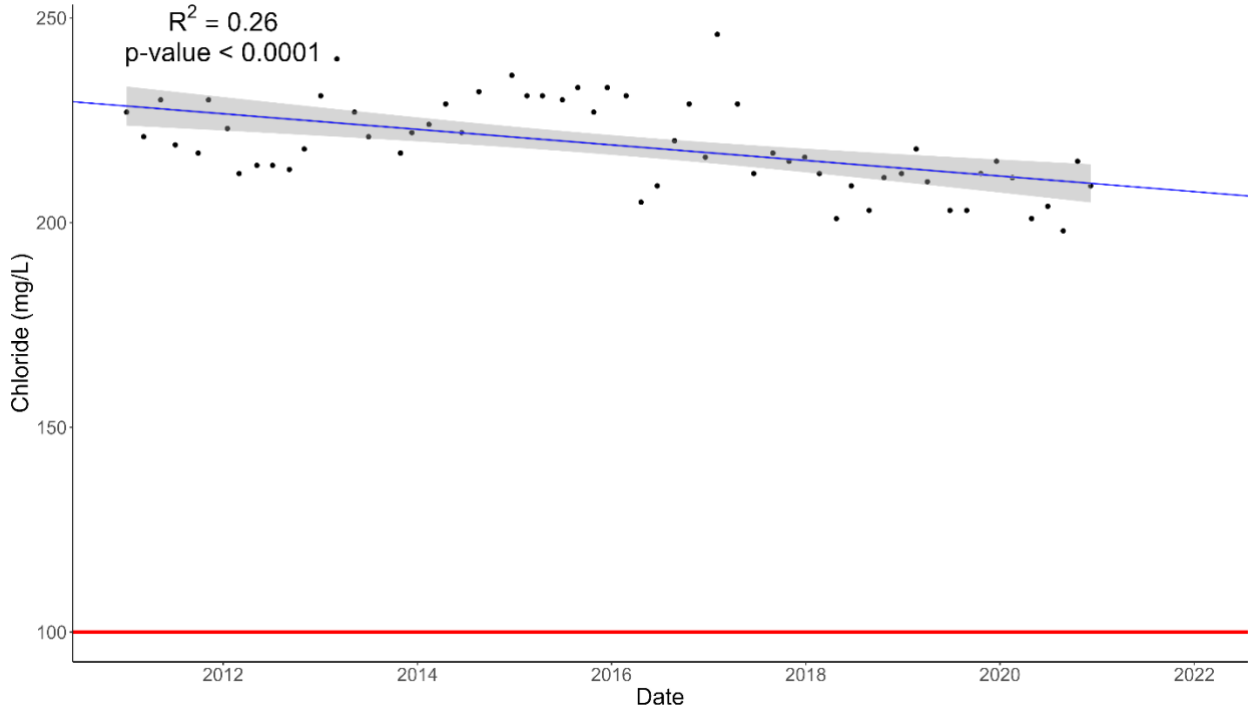
StationID: 17017-SURFACE



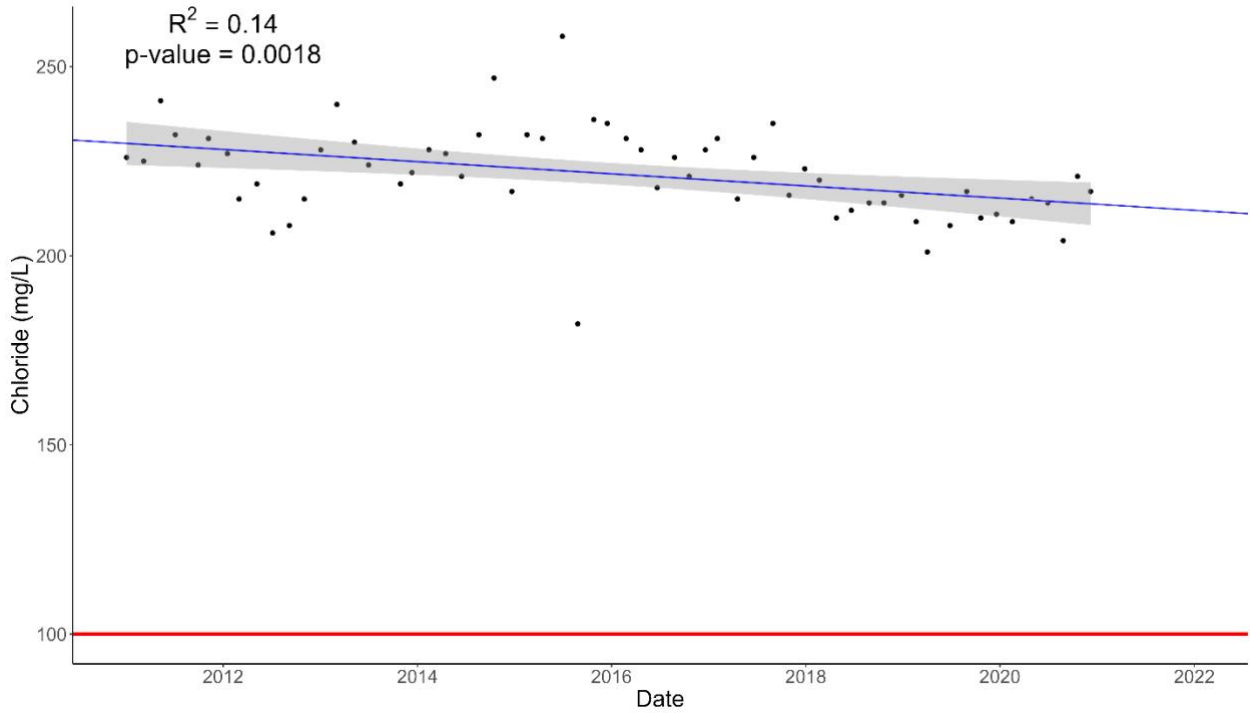
StationID: 17017-SURFACE



StationID: 17017-SURFACE

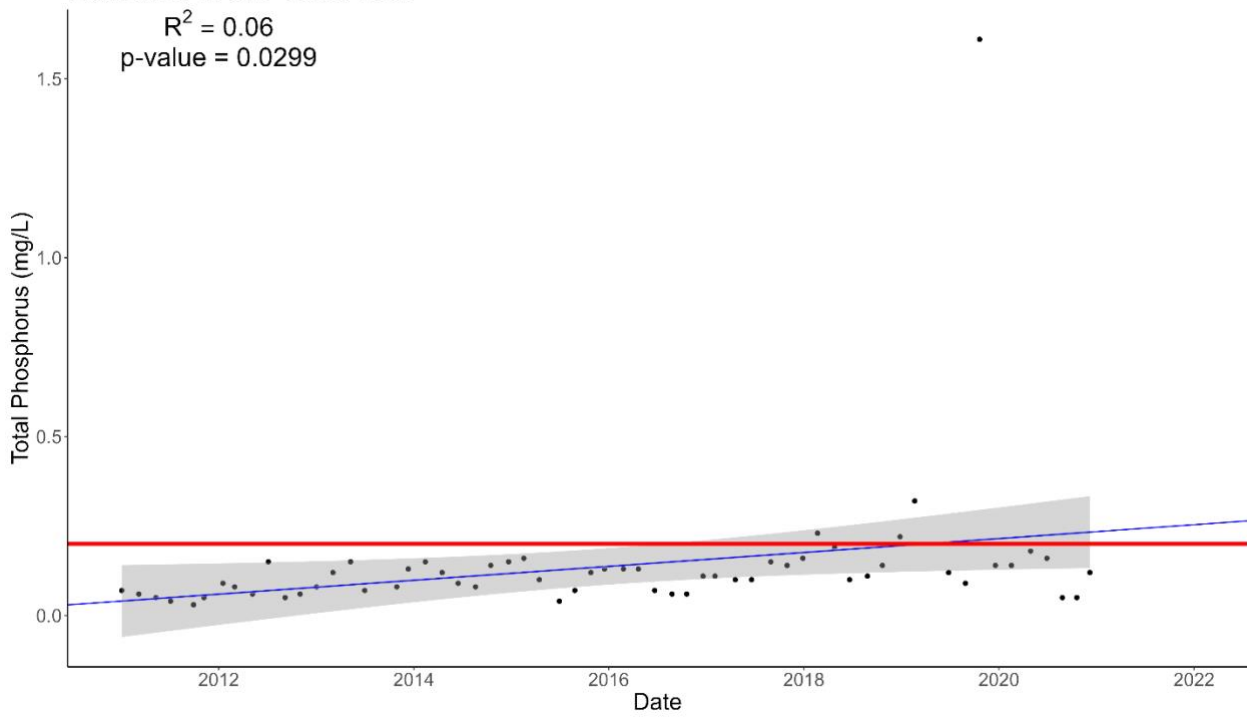


StationID: 17017-BOTTOM



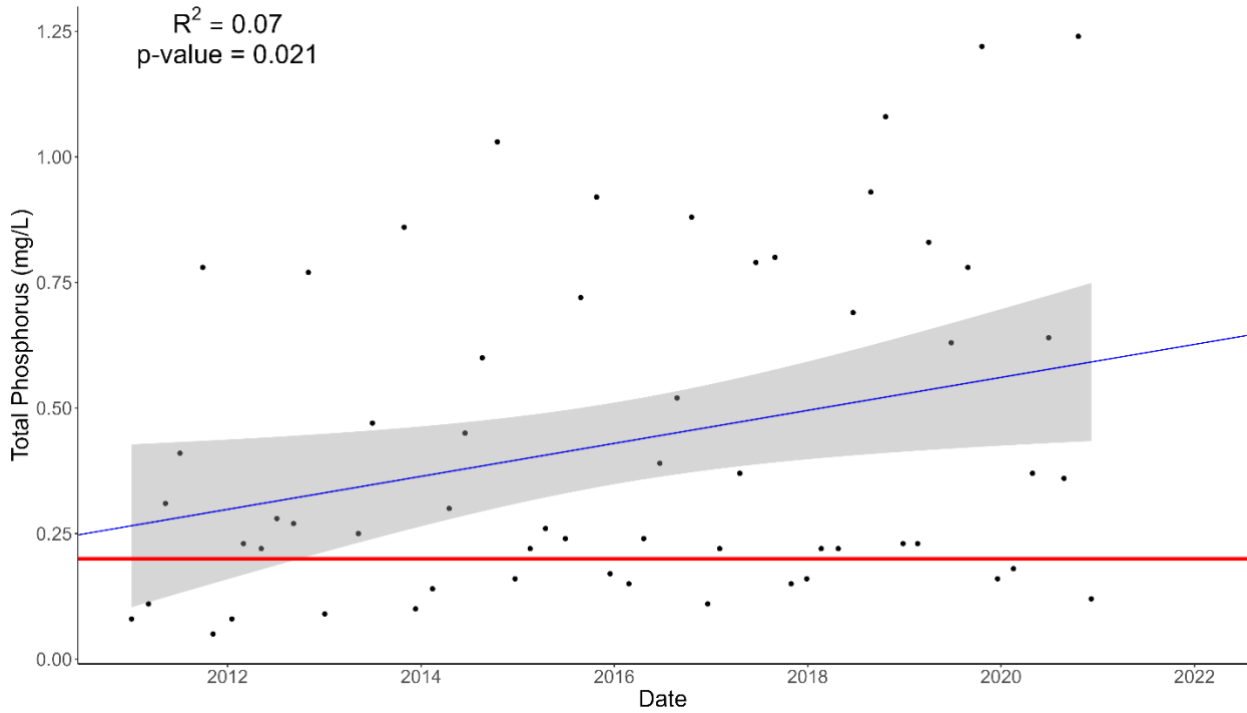
StationID: 17017-SURFACE

$R^2 = 0.06$
p-value = 0.0299



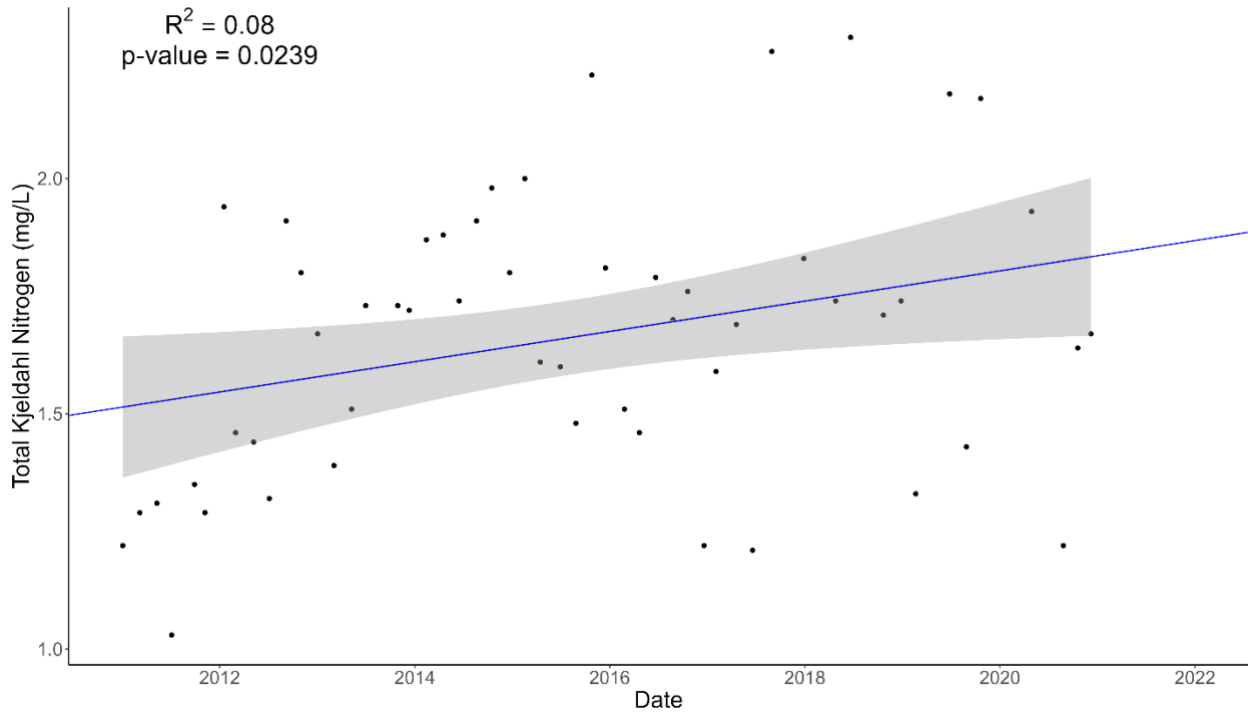
StationID: 17017-BOTTOM

$R^2 = 0.07$
p-value = 0.021



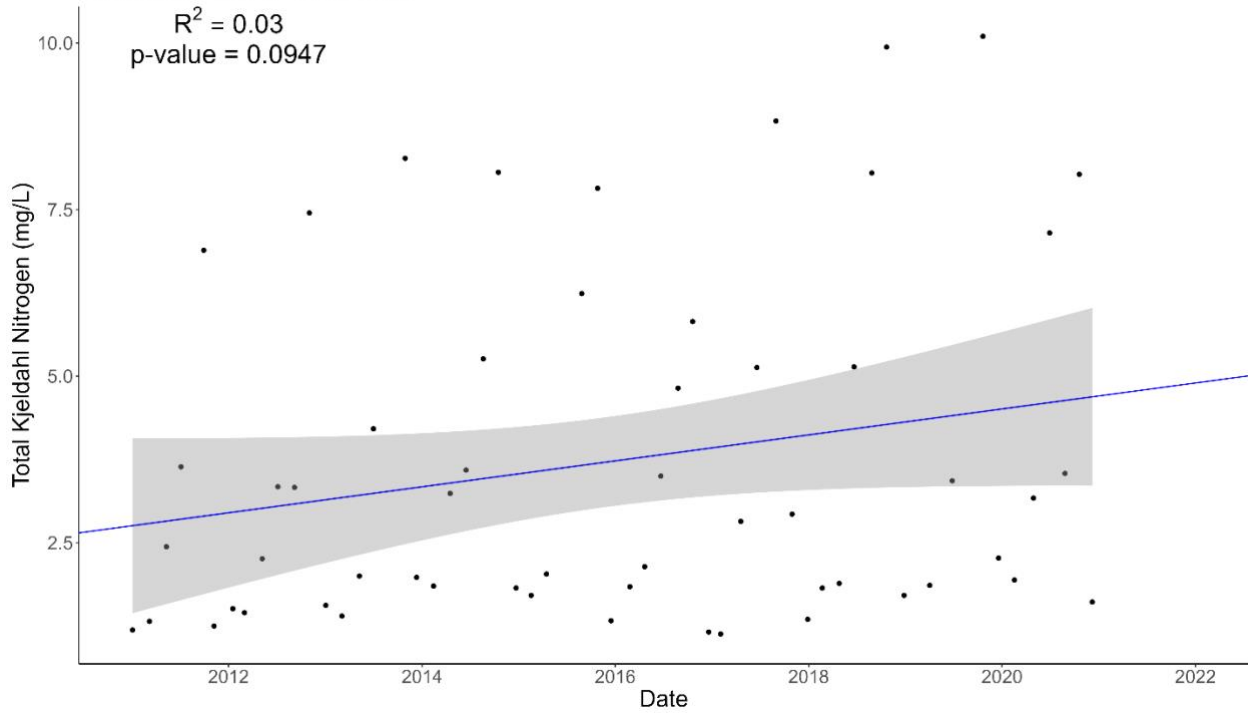
StationID: 17017-SURFACE

$R^2 = 0.08$
p-value = 0.0239



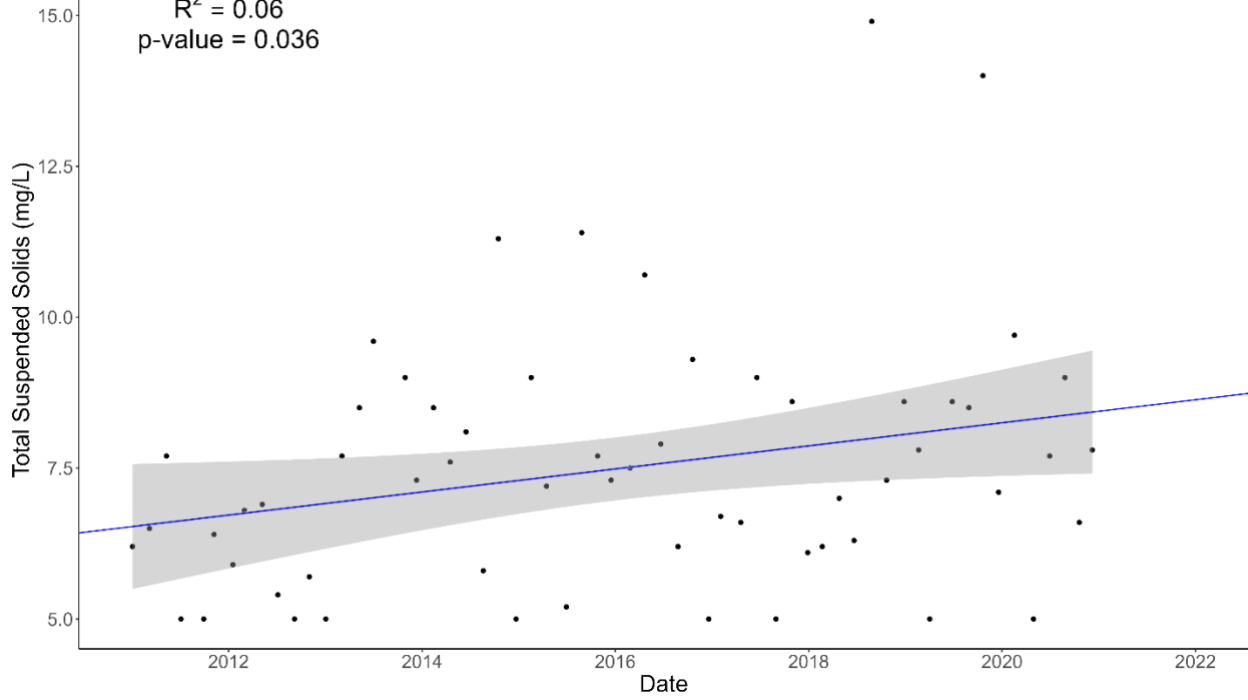
StationID: 17017-BOTTOM

$R^2 = 0.03$
p-value = 0.0947



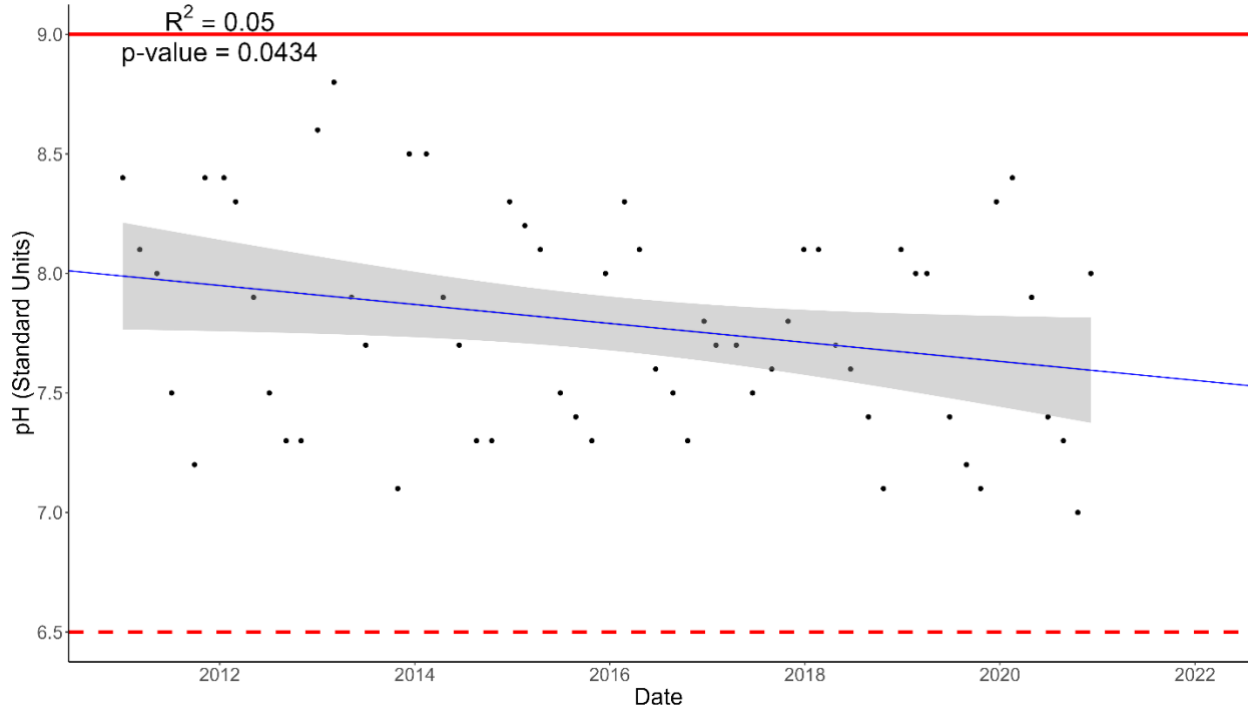
StationID: 17017-SURFACE

$R^2 = 0.06$
p-value = 0.036

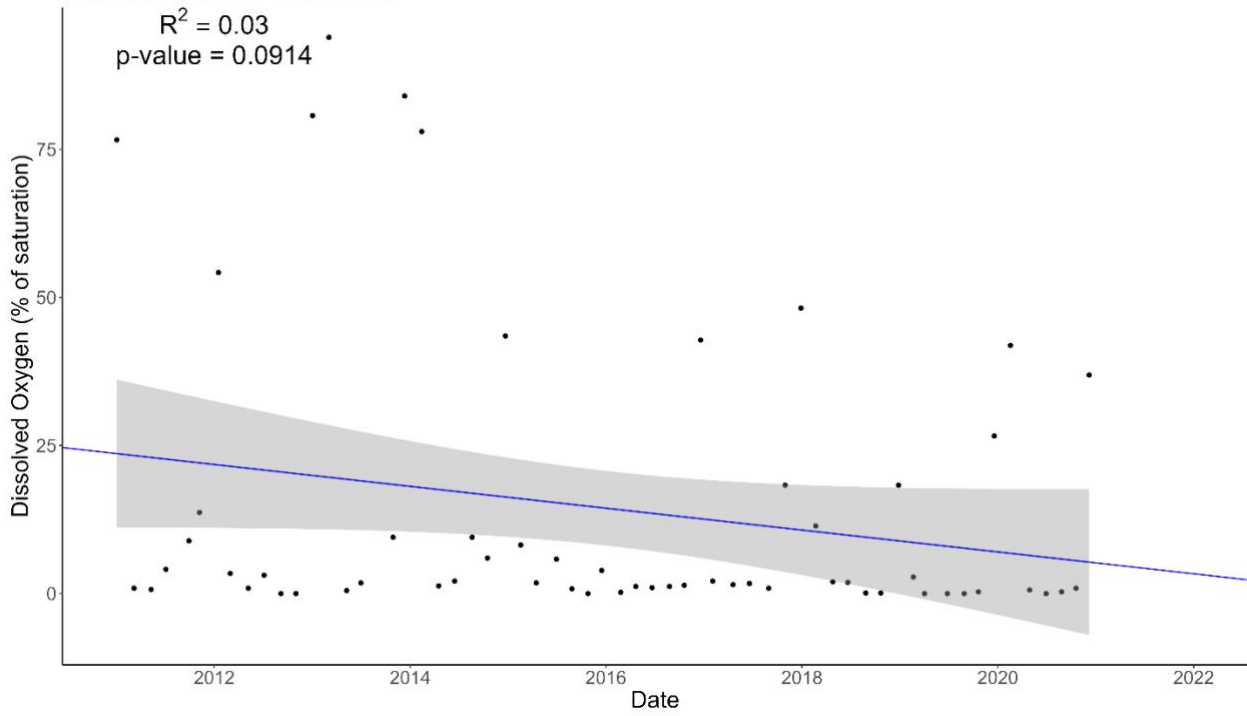


StationID: 17017-BOTTOM

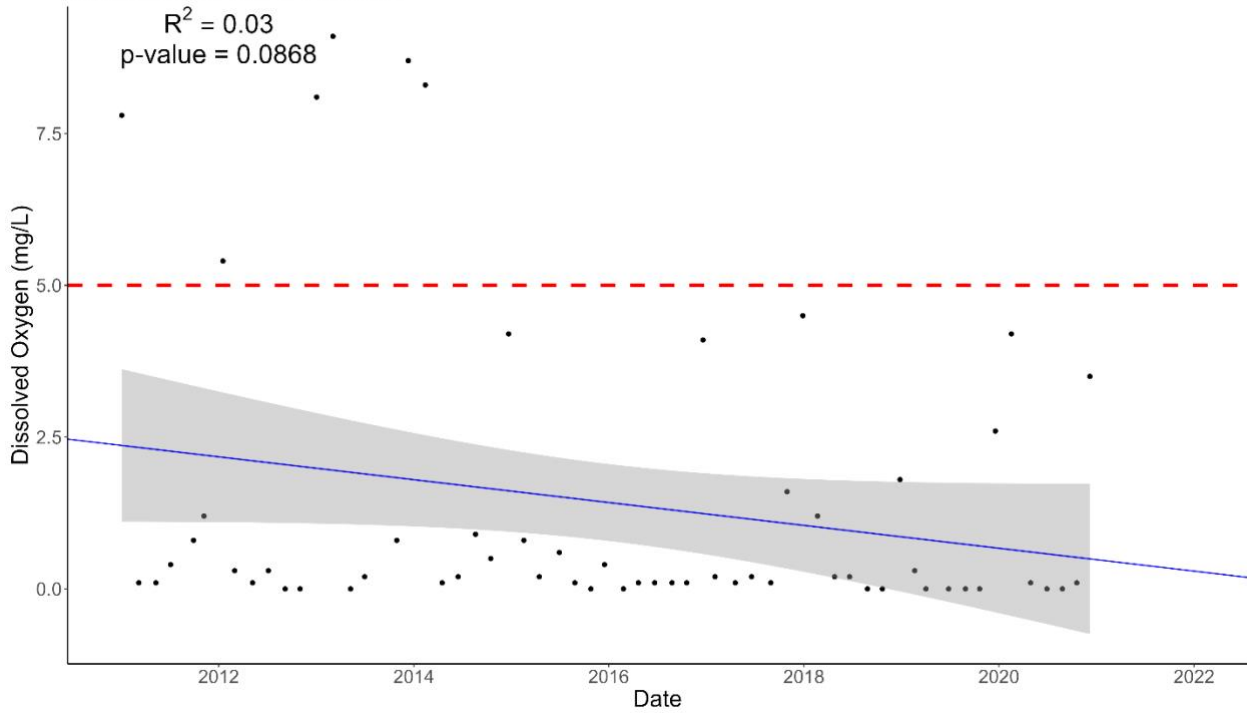
$R^2 = 0.05$
p-value = 0.0434



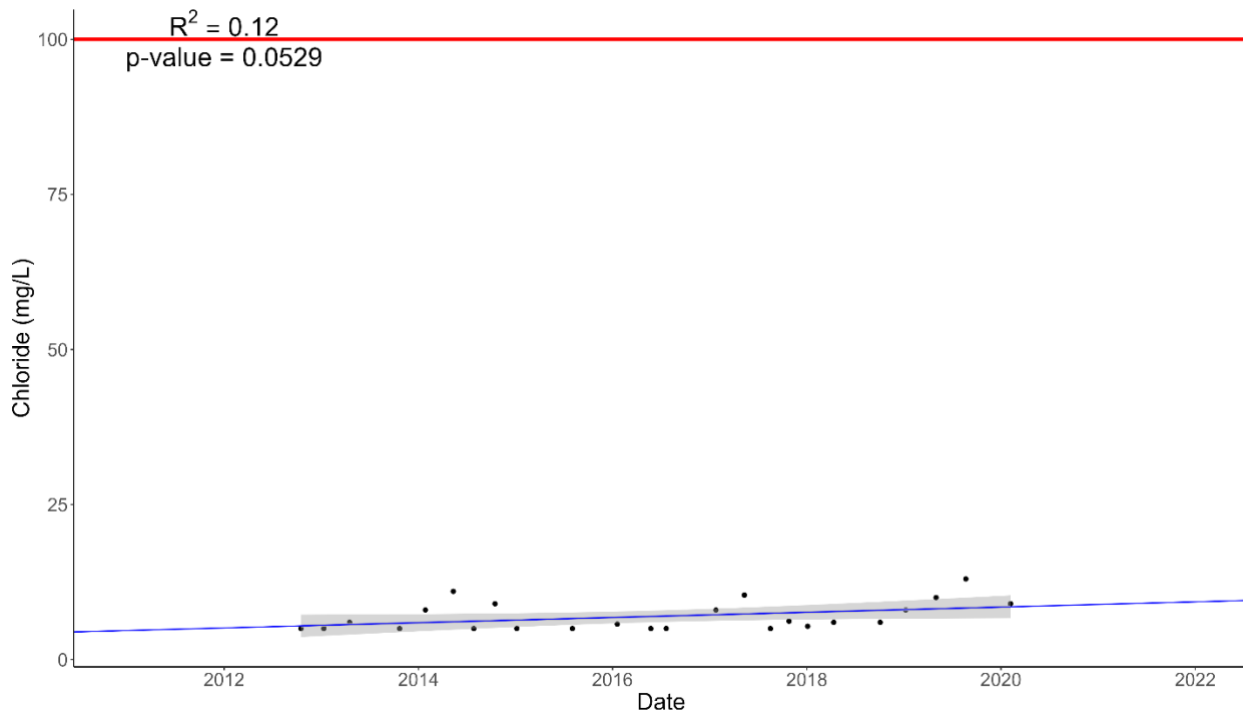
StationID: 17017-BOTTOM



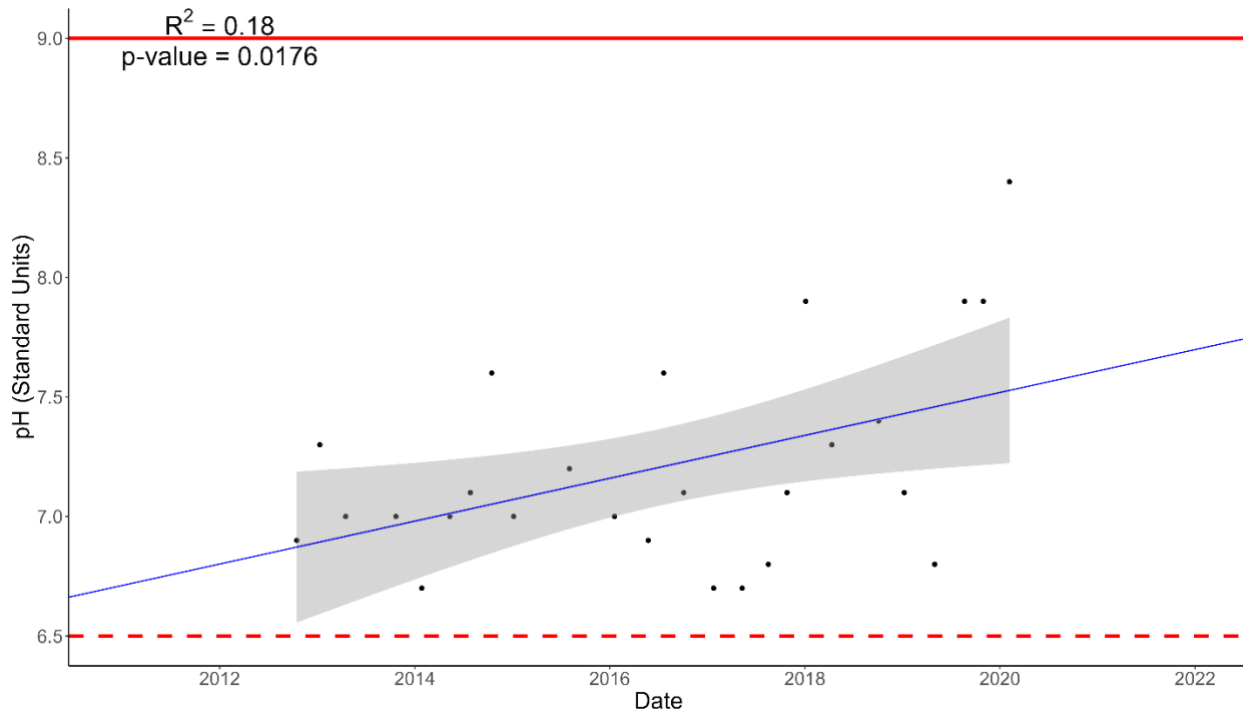
StationID: 17017-BOTTOM



StationID: 21177-SURFACE



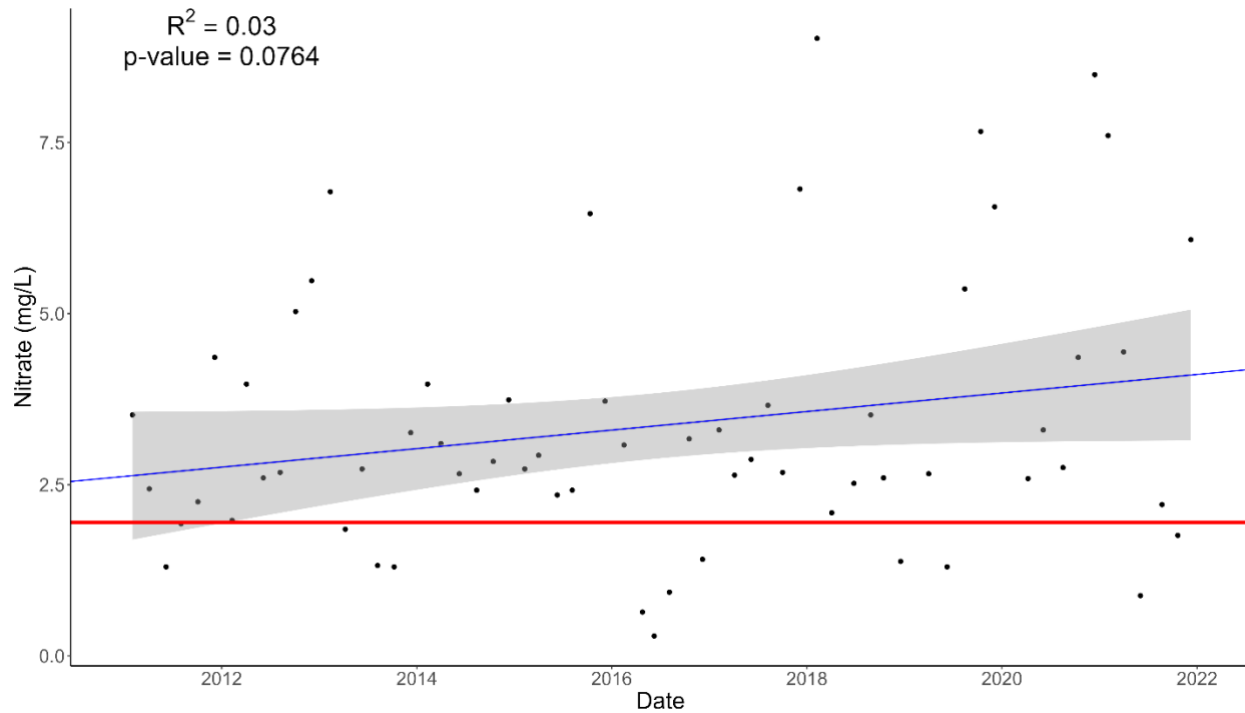
StationID: 21177-SURFACE



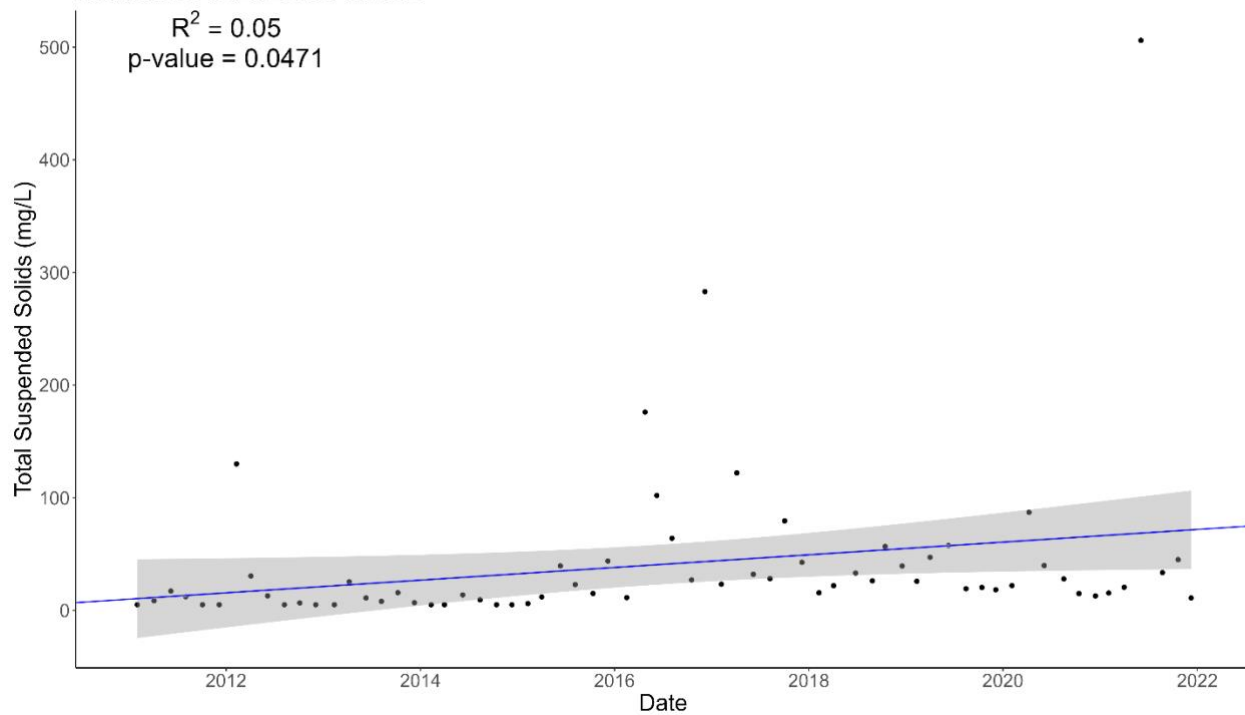
1434 – Colorado River above La Grange

Assessment Unit: 1434_01

StationID: 12292-SURFACE

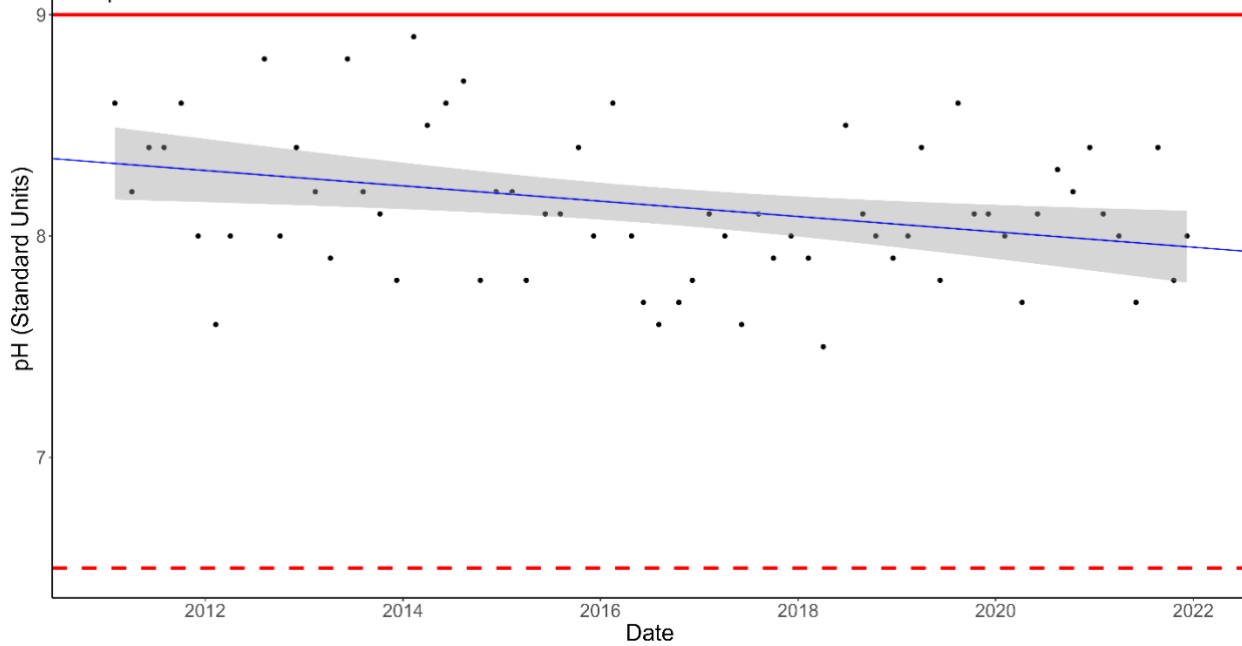


StationID: 12292-SURFACE



StationID: 12292-SURFACE

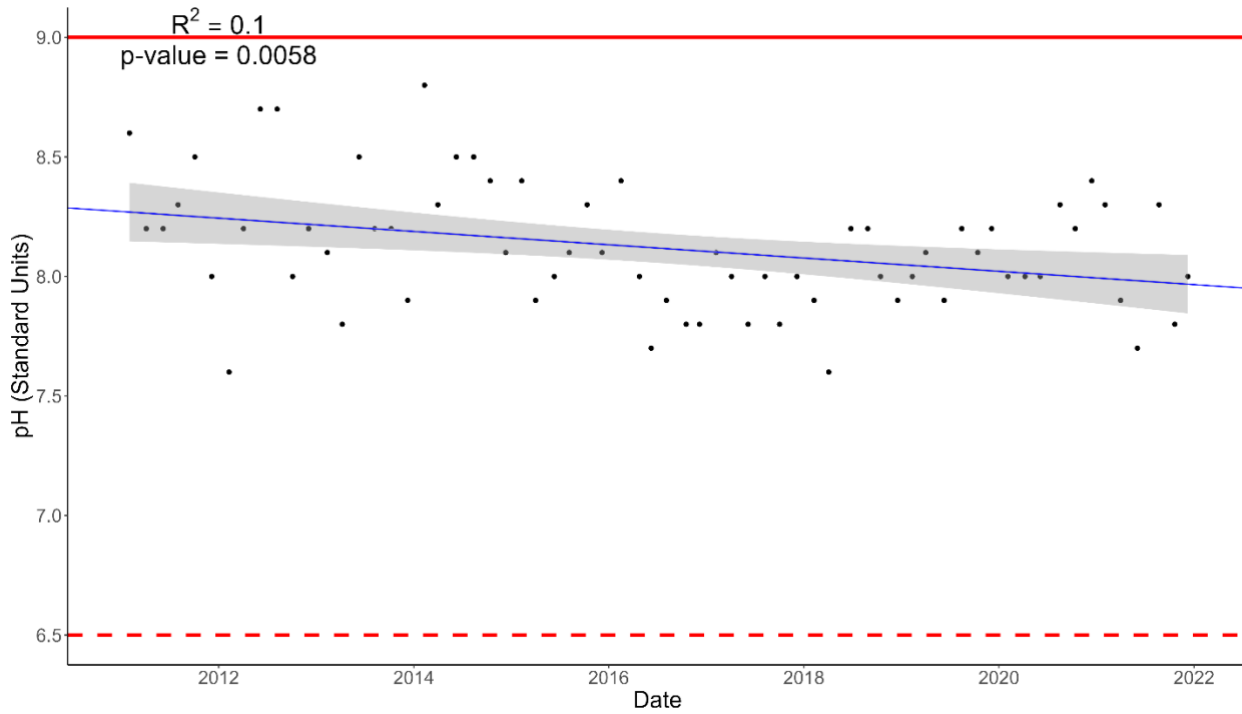
$R^2 = 0.09$
p-value = 0.0094



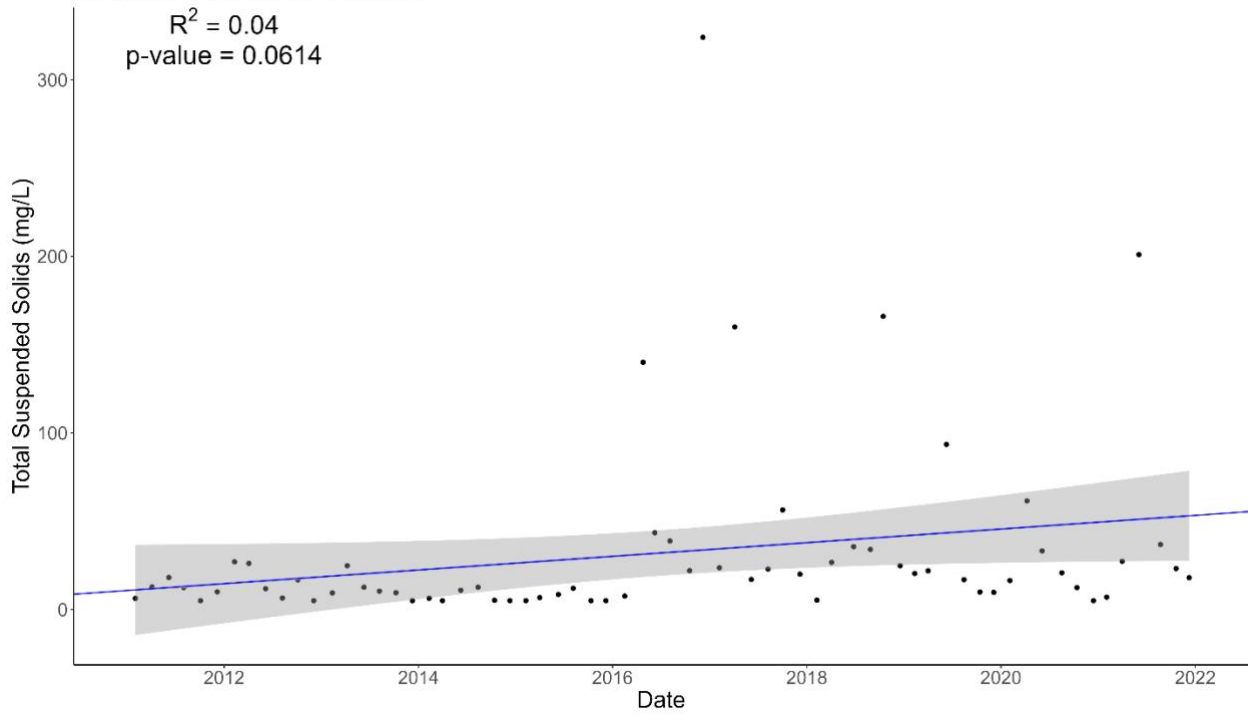
Assessment Unit: 1434_02

StationID: 12293-SURFACE

$R^2 = 0.1$
p-value = 0.0058

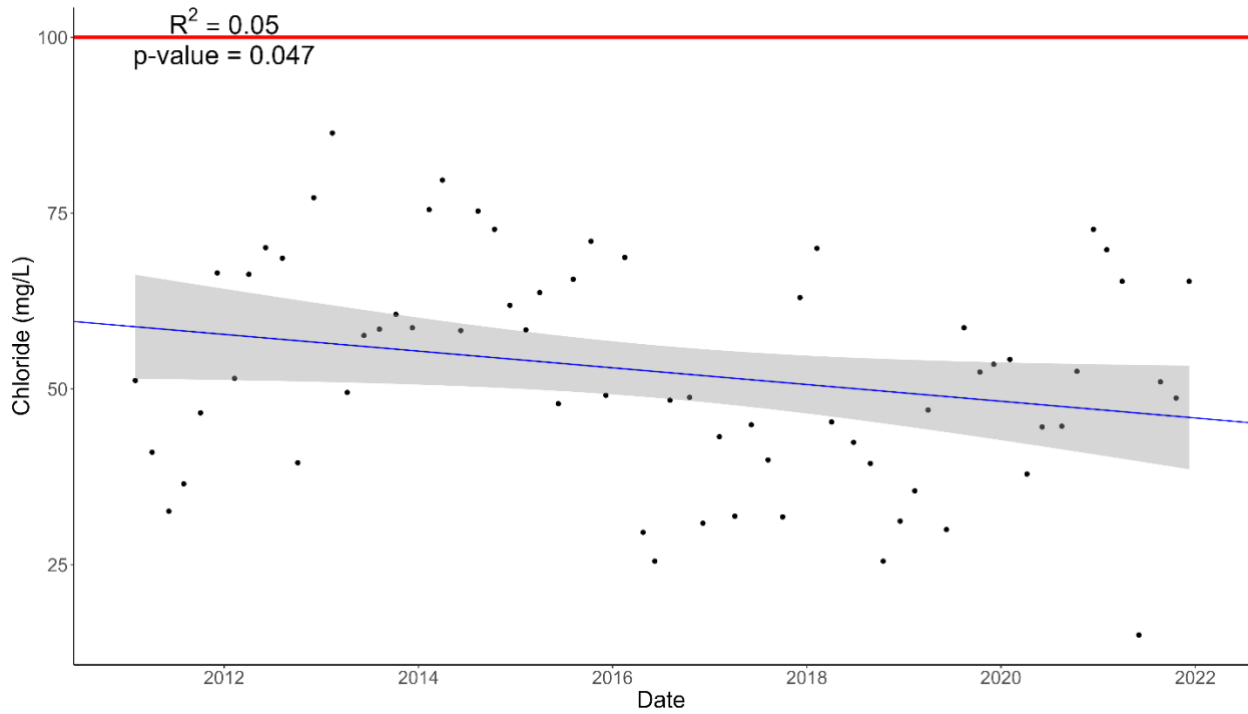


StationID: 12293-SURFACE

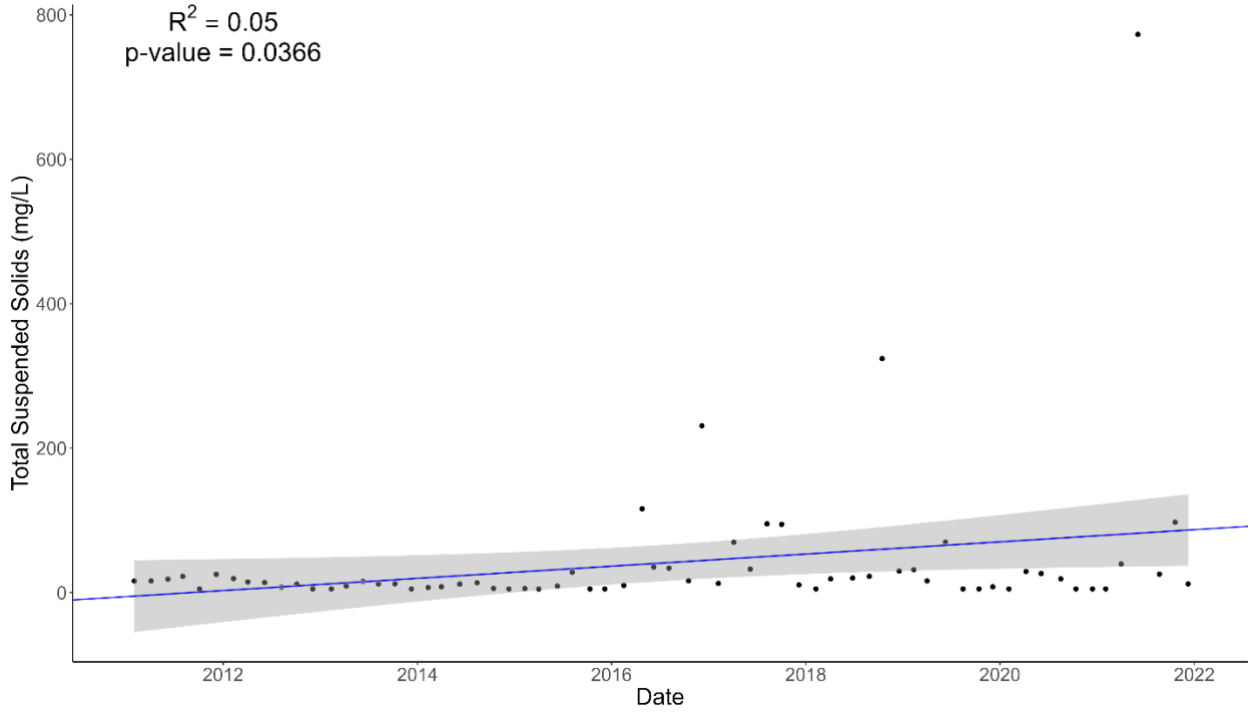


Assessment Unit: 1434_03

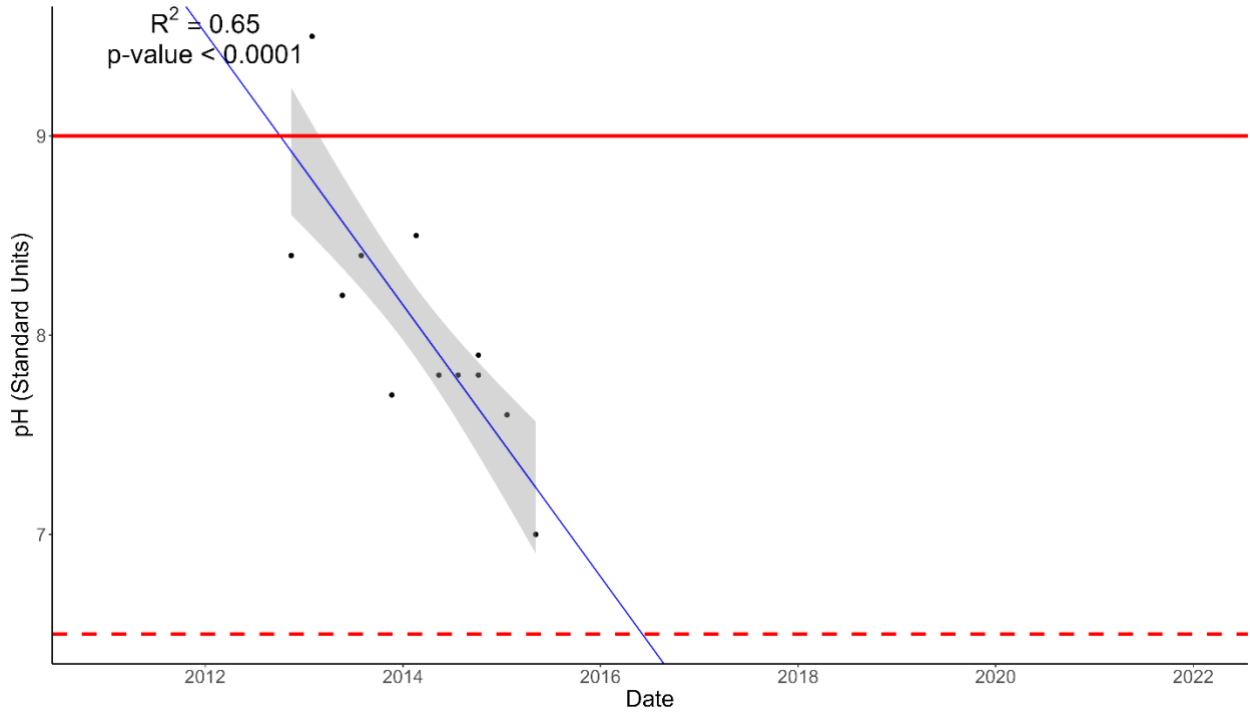
StationID: 12462-SURFACE

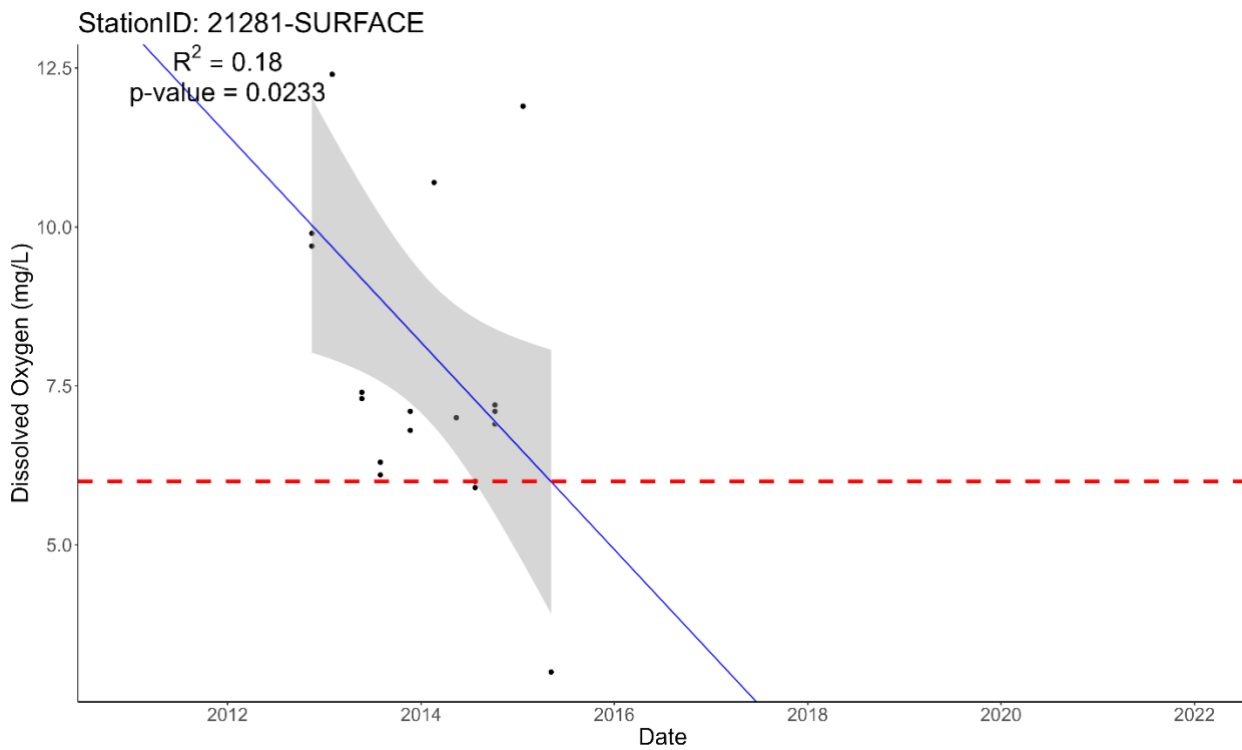


StationID: 12462-SURFACE



StationID: 21281-SURFACE





1434B – Cedar Creek

Assessment Unit: 1434B_01

No significant trends.

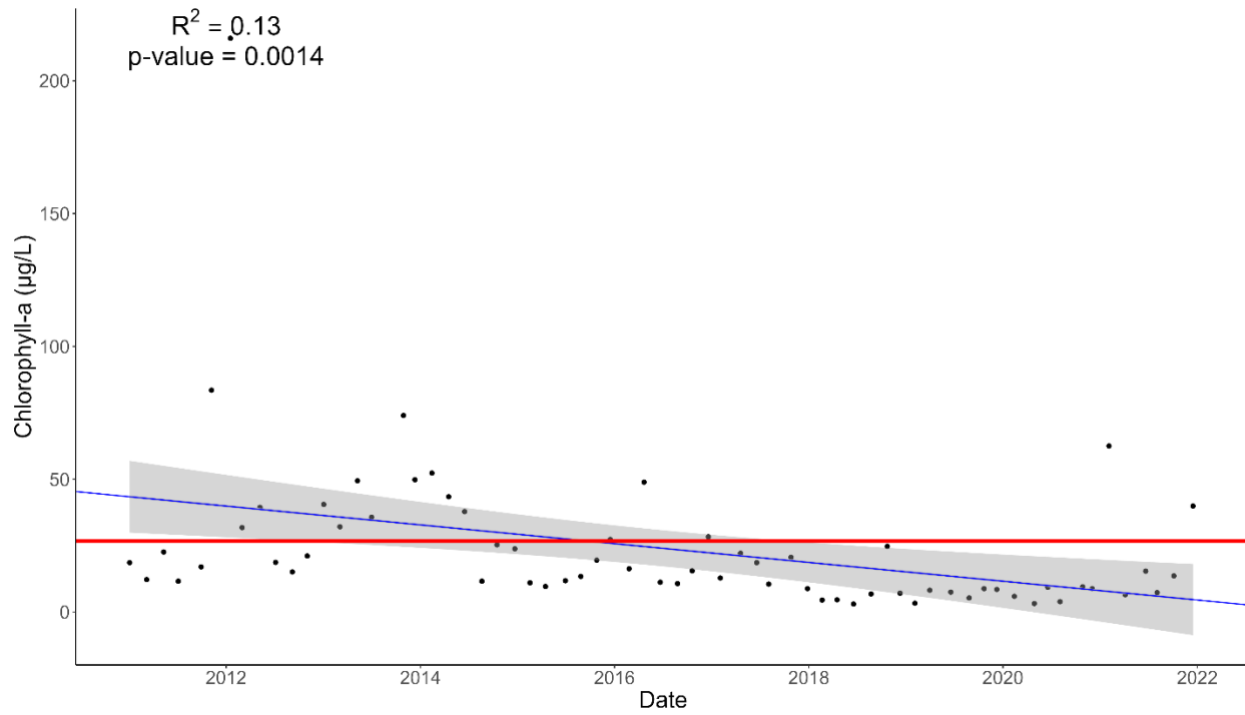
1434C – Lake Bastrop

Assessment Unit: 1434C_01

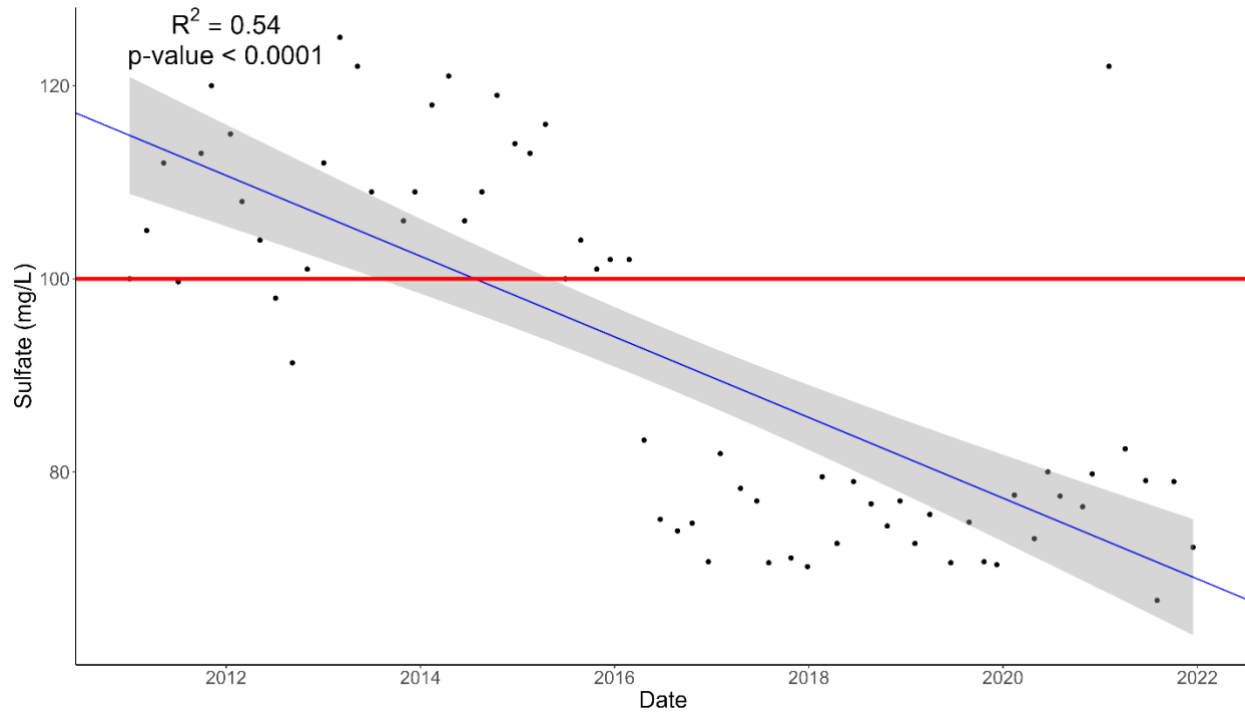
No significant trends.

Assessment Unit: 1434C_02

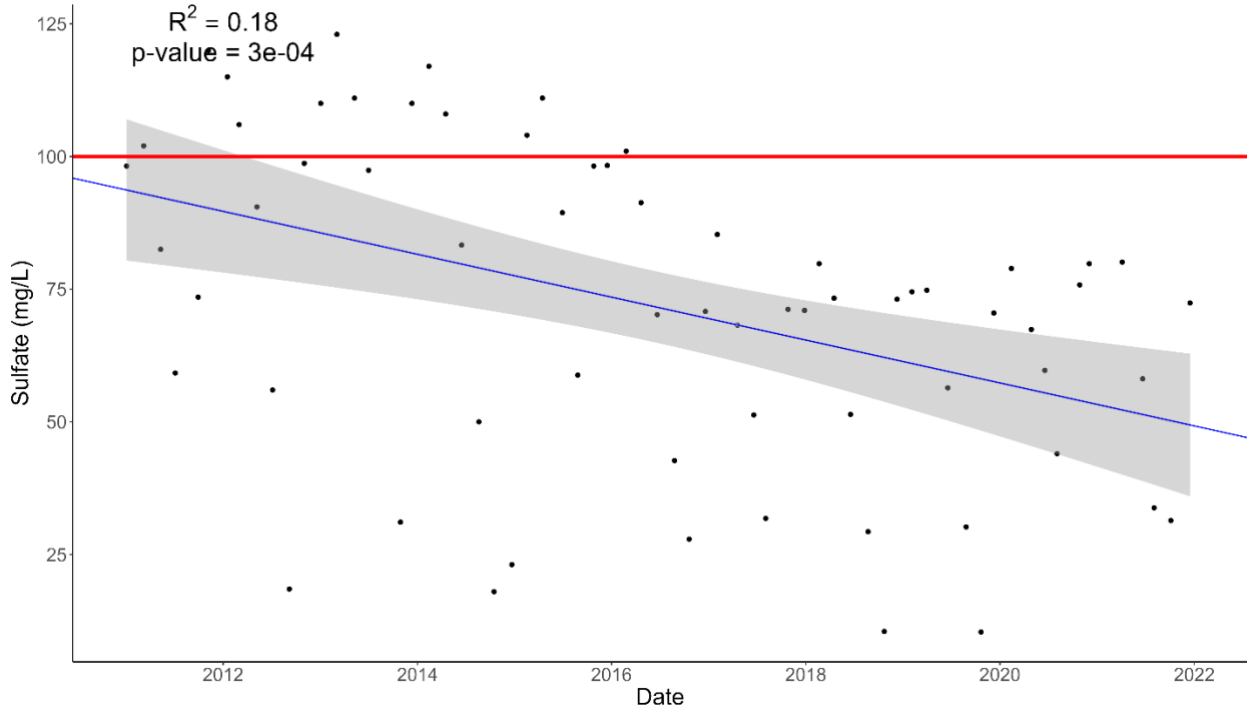
StationID: 17020-SURFACE



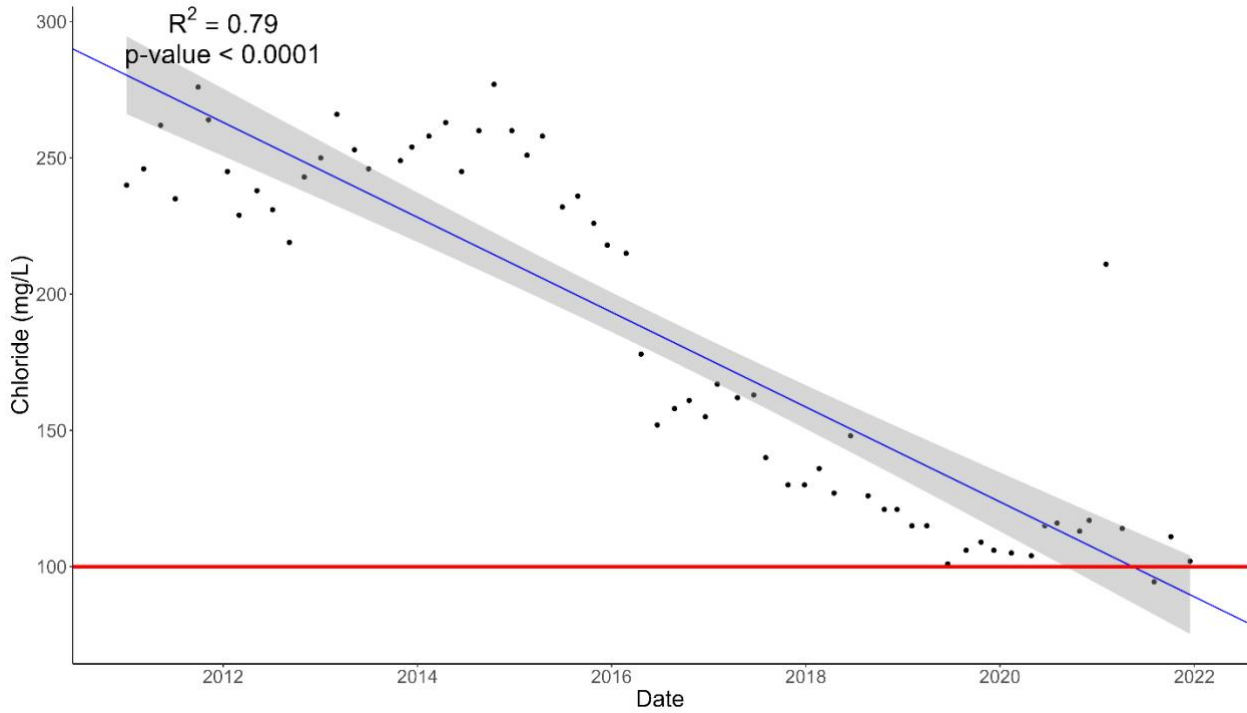
StationID: 17020-SURFACE

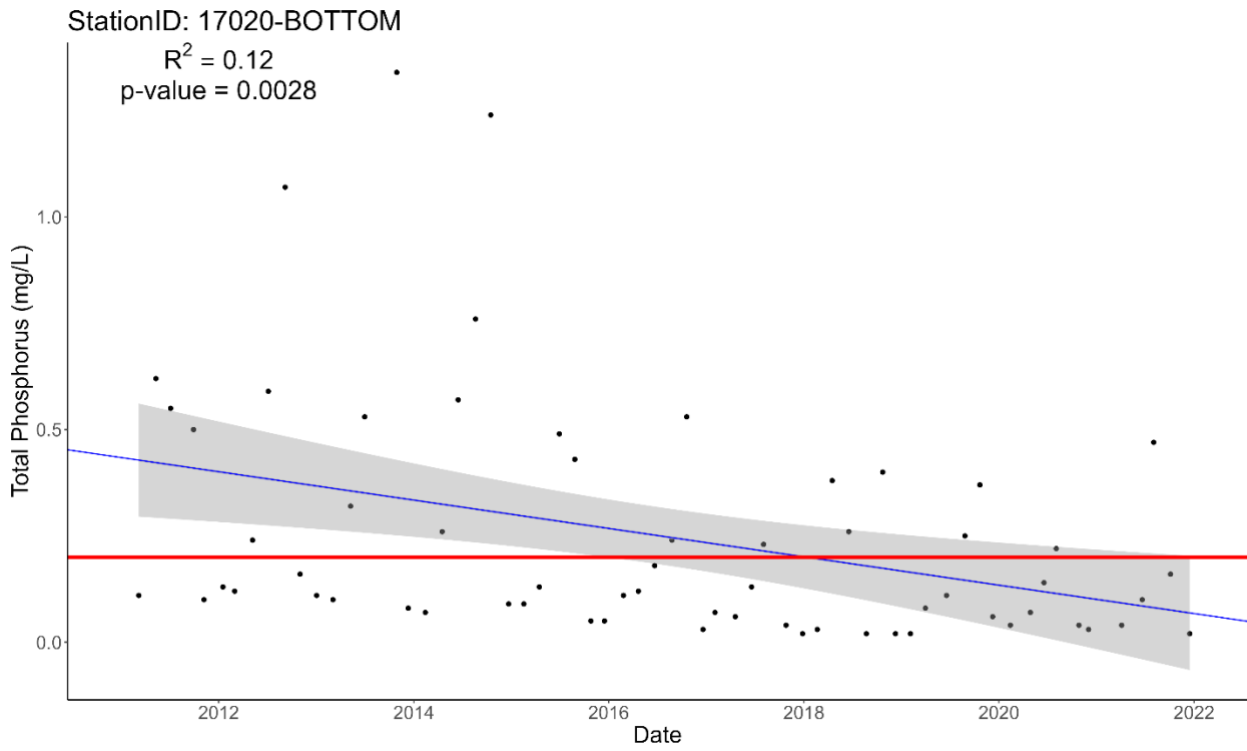
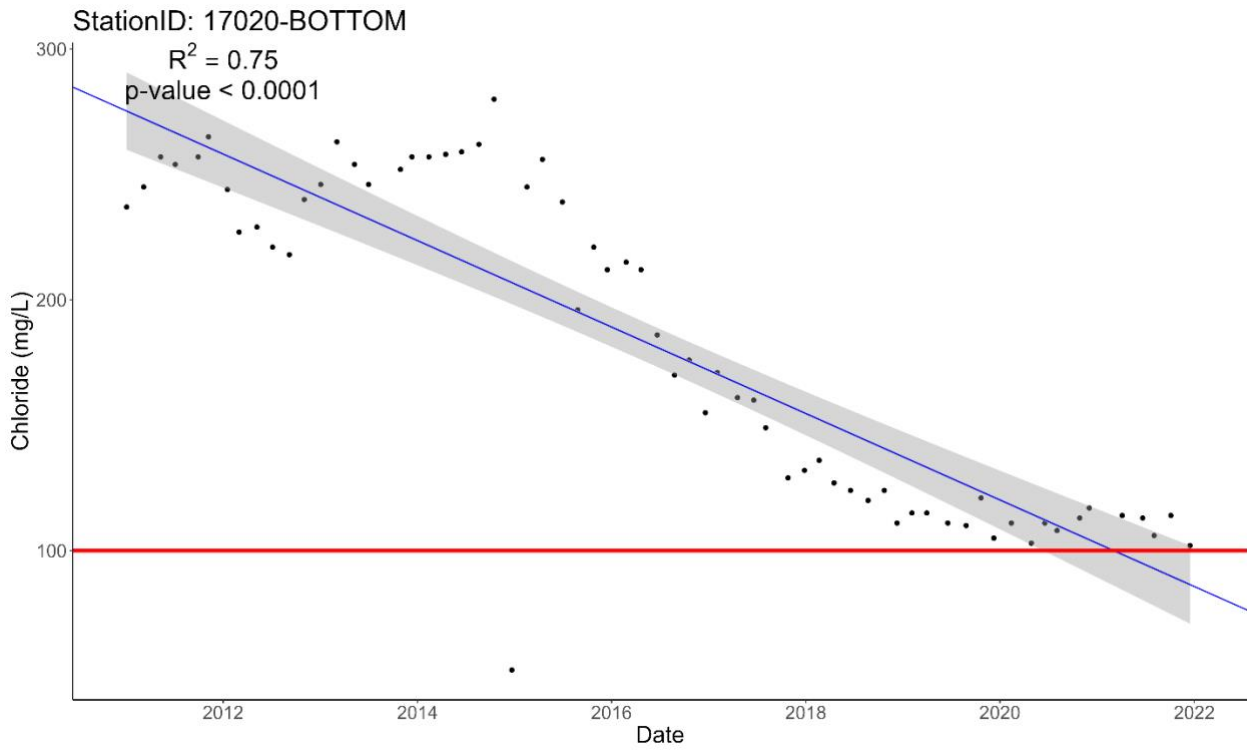


StationID: 17020-BOTTOM

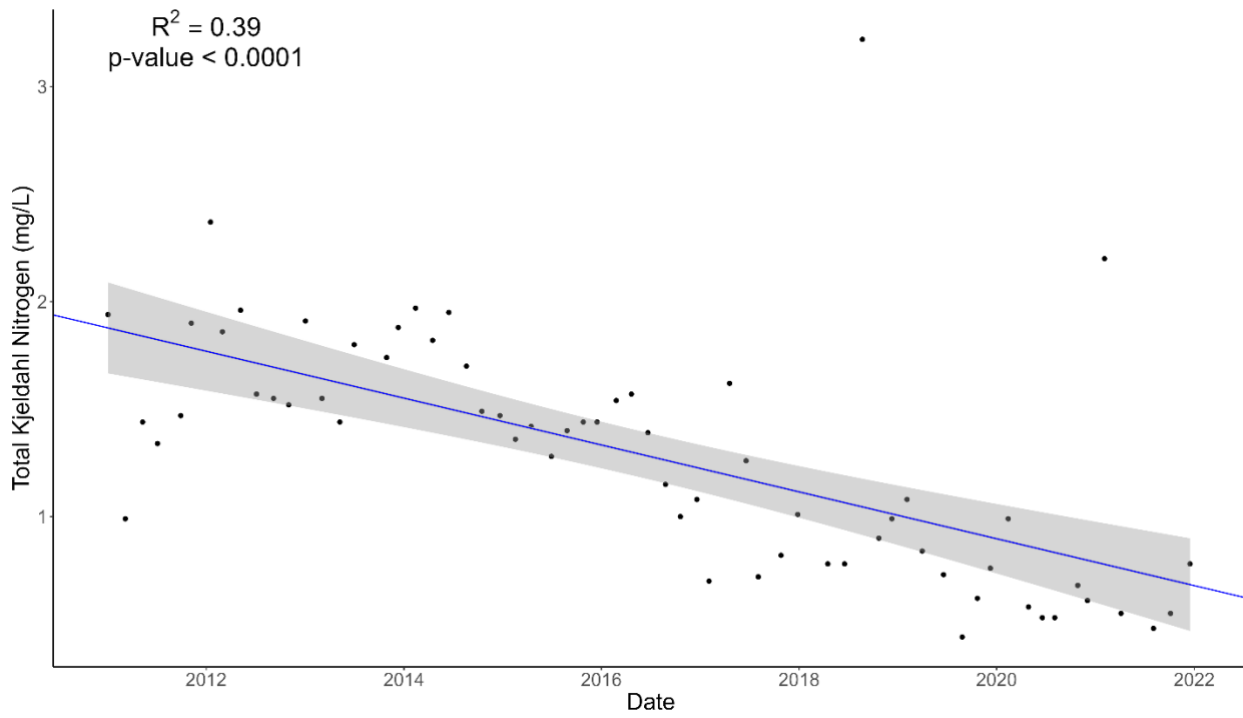


StationID: 17020-SURFACE

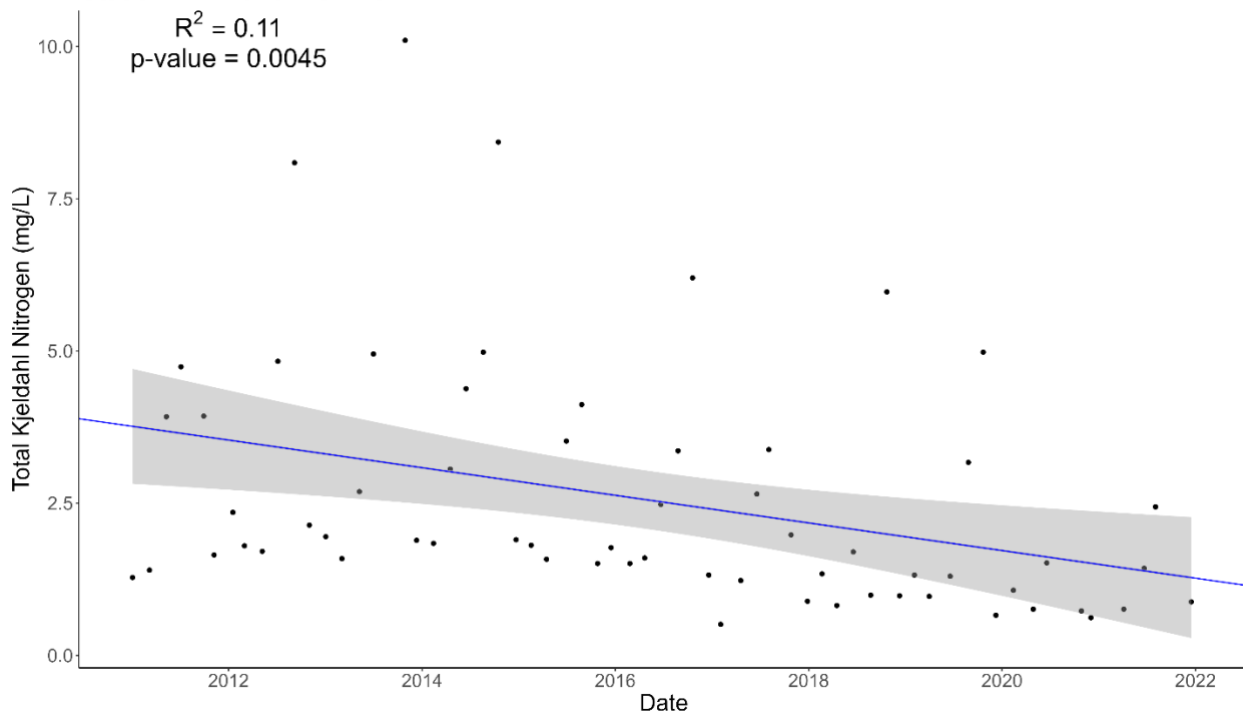




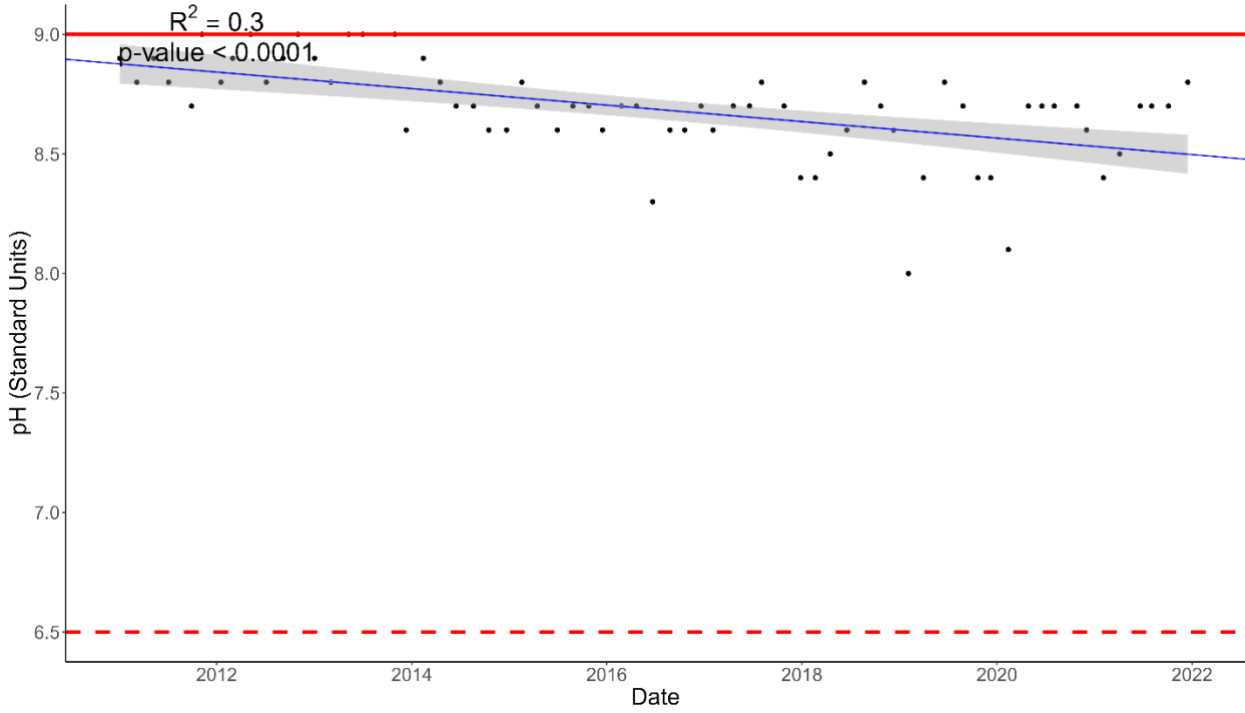
StationID: 17020-SURFACE



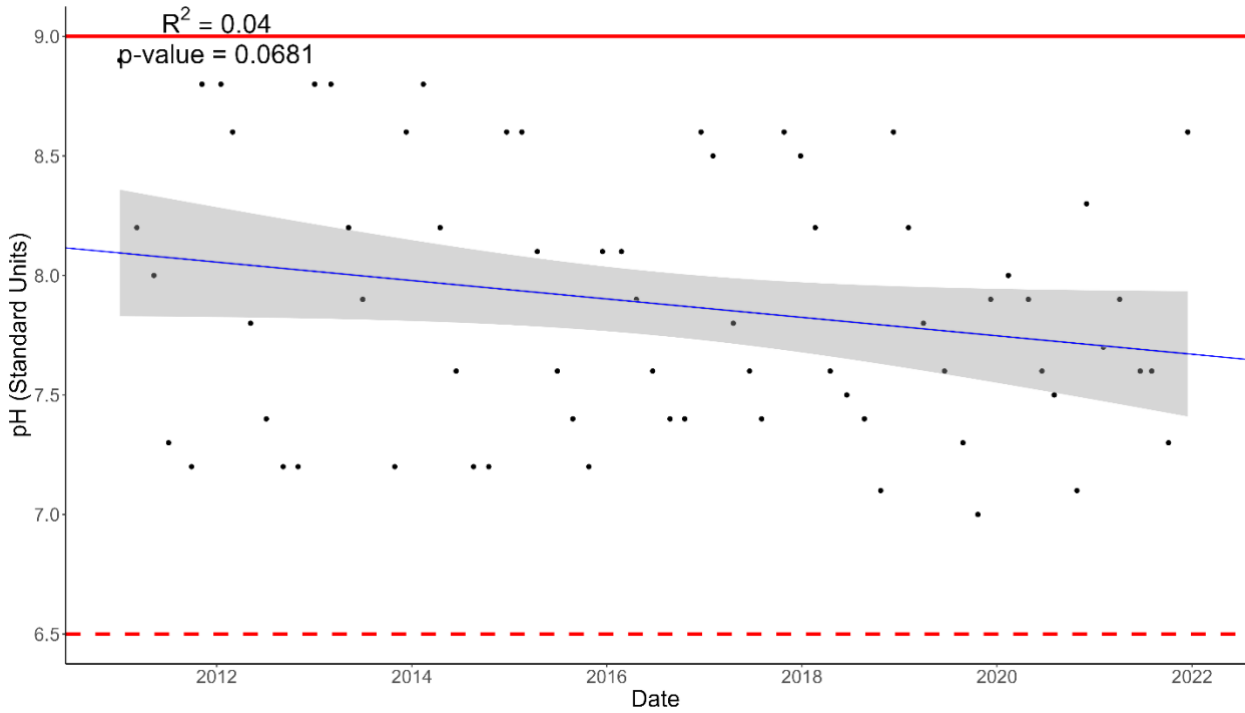
StationID: 17020-BOTTOM



StationID: 17020-SURFACE

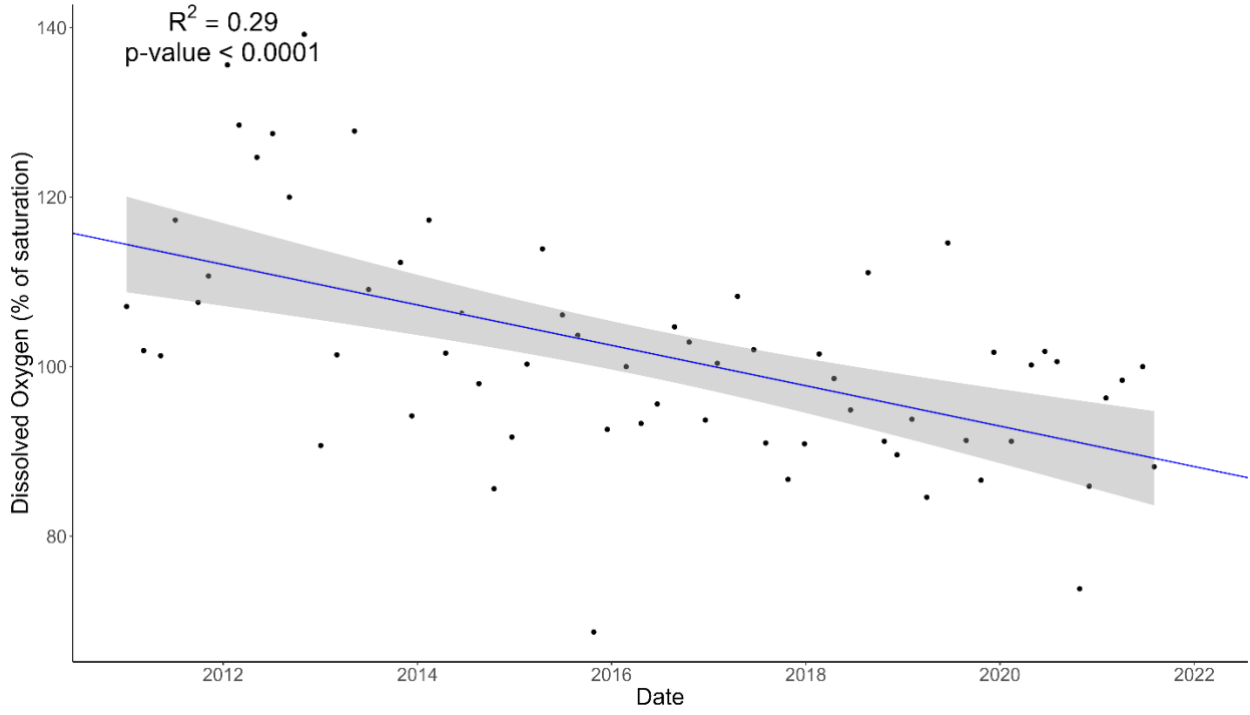


StationID: 17020-BOTTOM



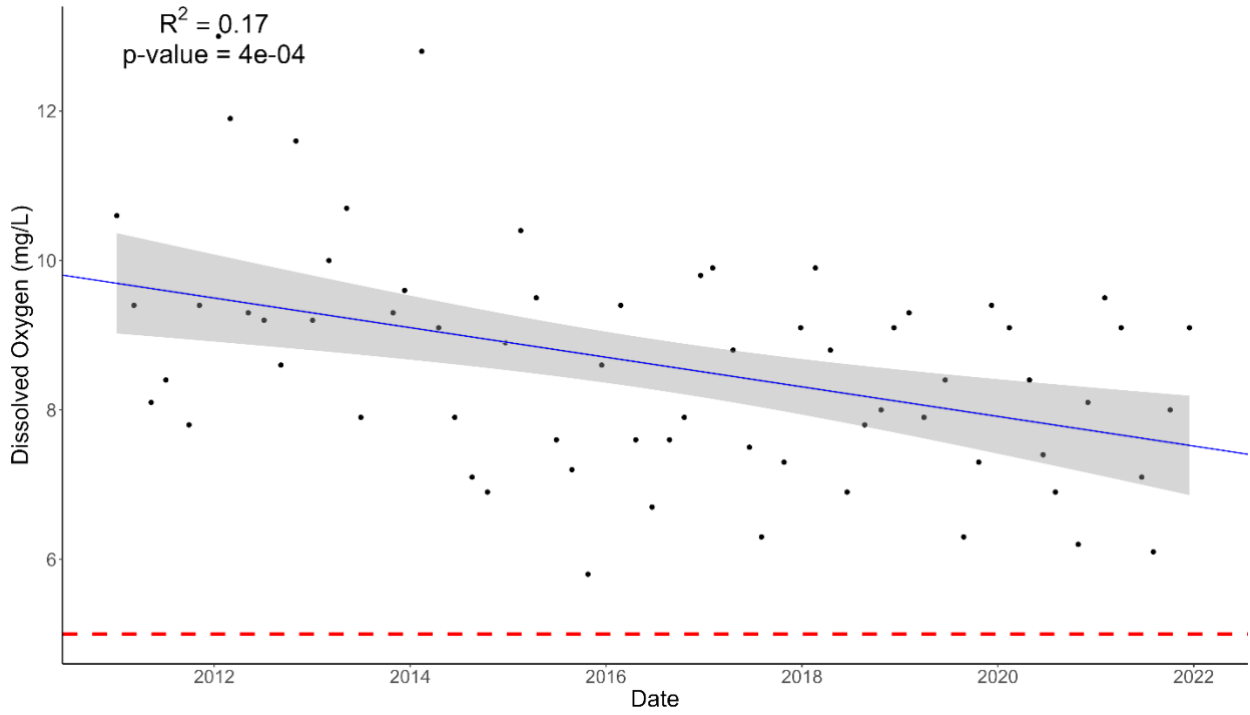
StationID: 17020-SURFACE

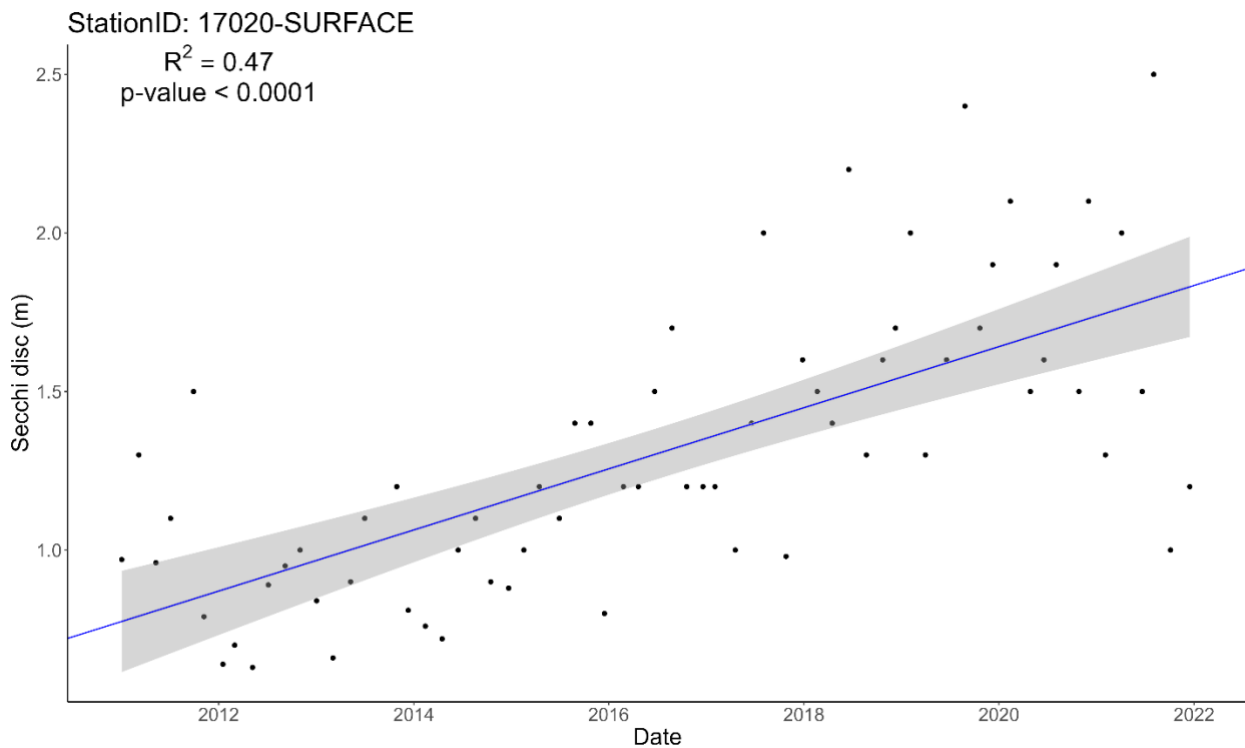
$R^2 = 0.29$
 $p\text{-value} < 0.0001$



StationID: 17020-SURFACE

$R^2 = 0.17$
 $p\text{-value} = 4e-04$





Assessment Unit: 1434C_03

No significant trends.

1434D – Wilbarger Creek

Assessment Unit: 1434D_01

No significant trends.

Assessment Unit: 1434D_02

No significant trends.

1434E – Big Sandy Creek

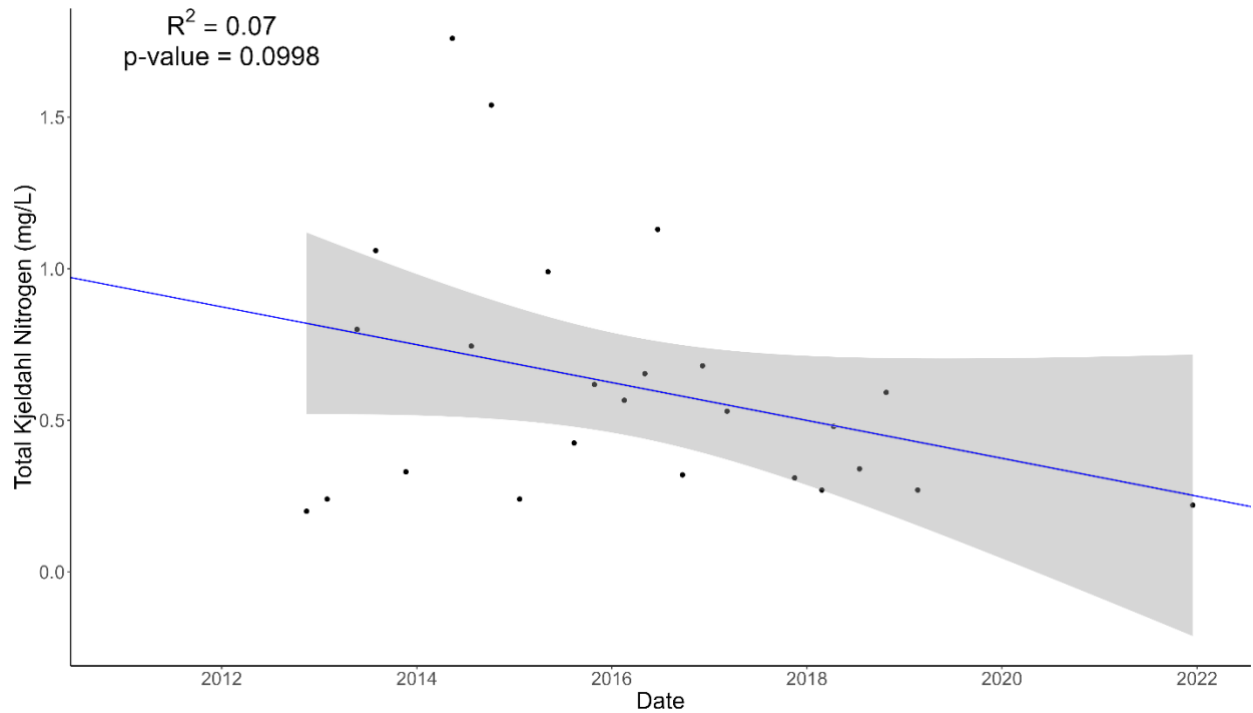
Assessment Unit: 1434E_01

No significant trends.

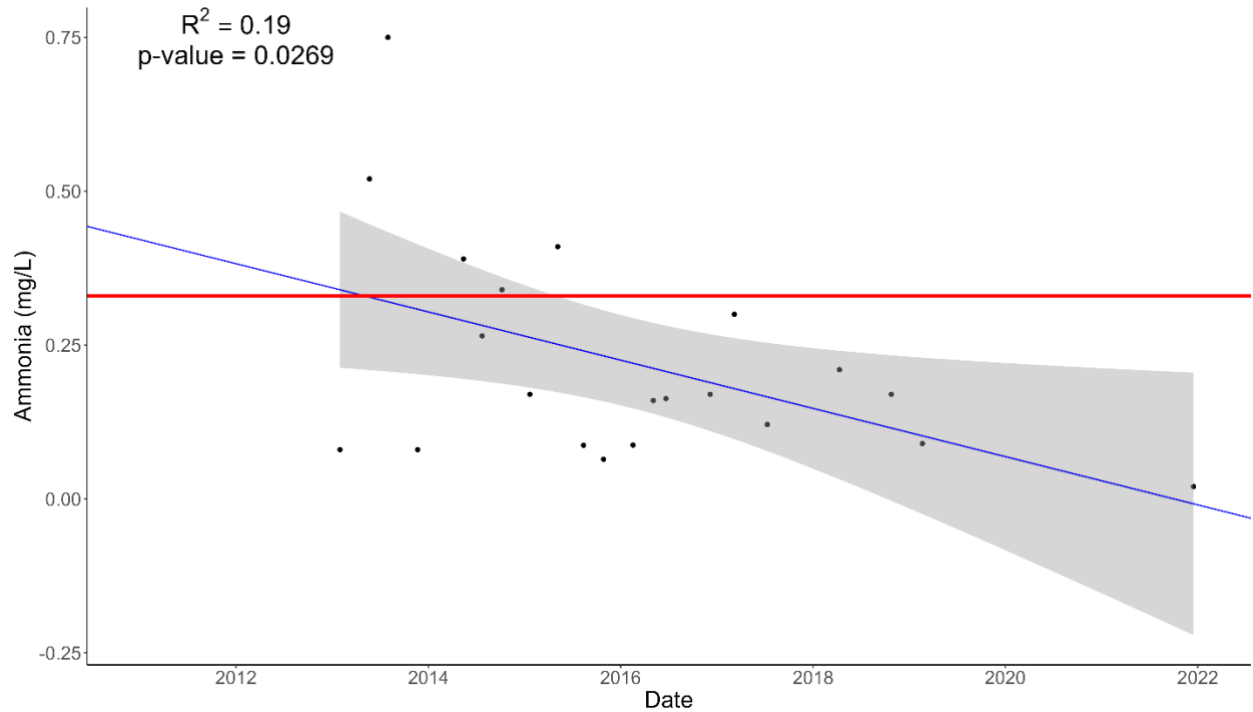
1434G – Alum Creek

Assessment Unit: 1434G_01

StationID: 16188-SURFACE



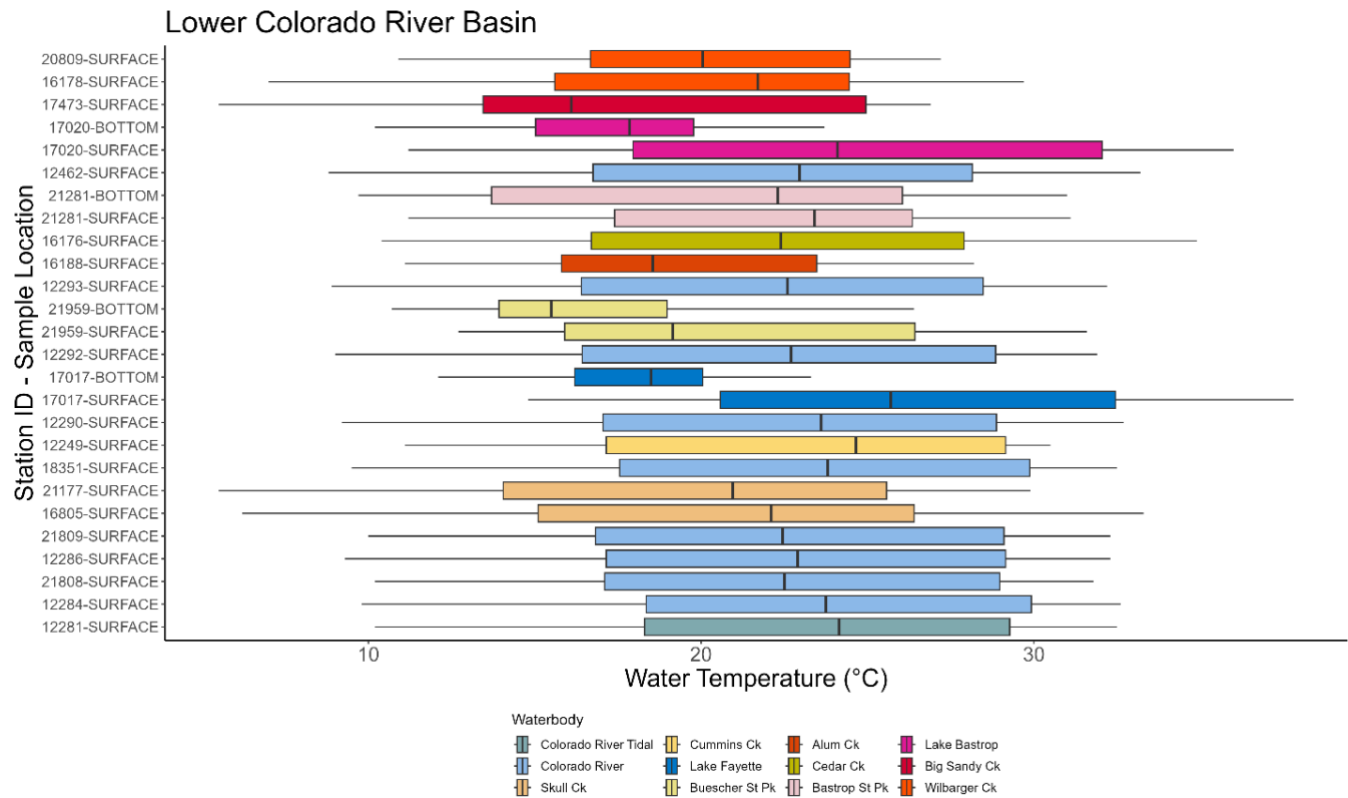
StationID: 16188-SURFACE



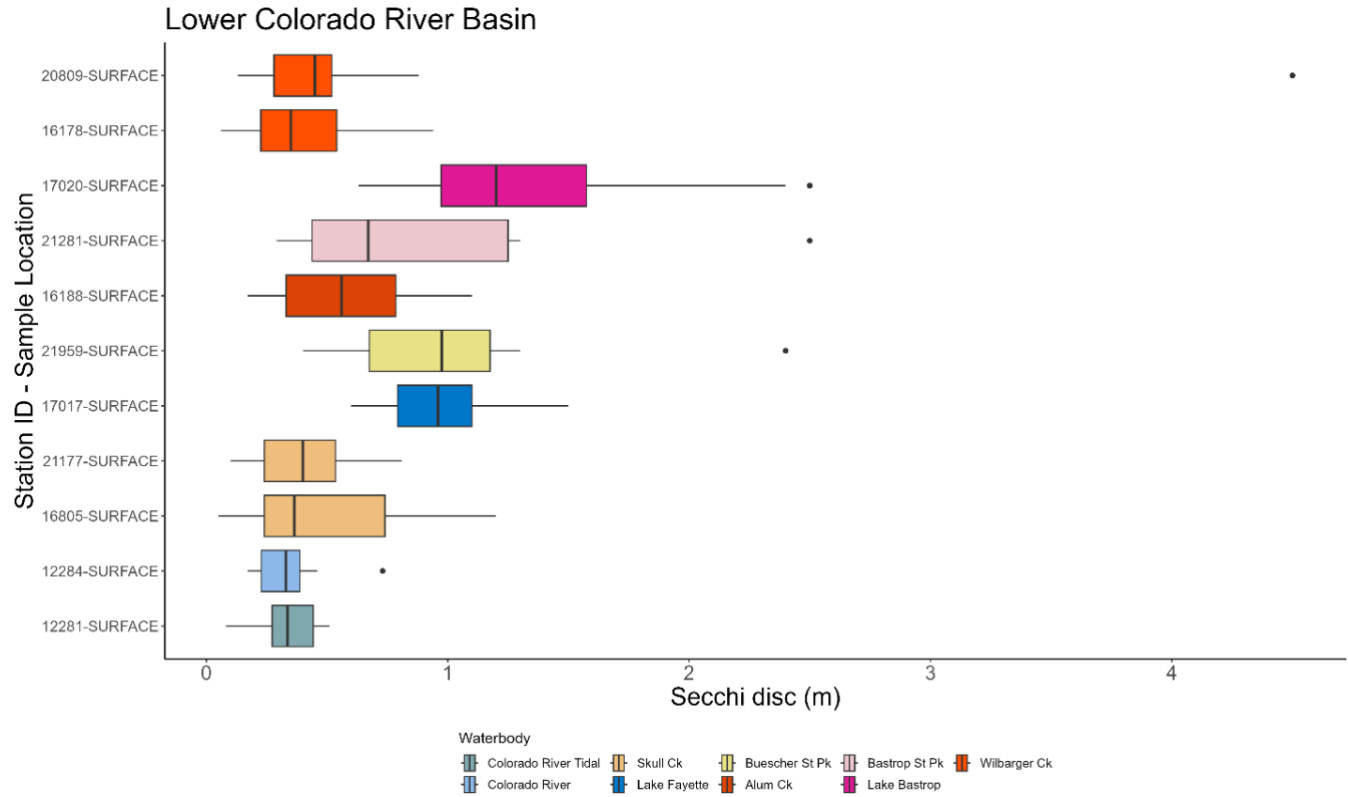
Appendix X15

Spatial comparison of parameters collected within the Lower Colorado River Basin. Boxplots of each parameter are presented first followed by a table of site-by-site comparisons using a Tukey-HSD analysis. Only statistically different station comparisons for each parameter are presented (p -value < 0.05).

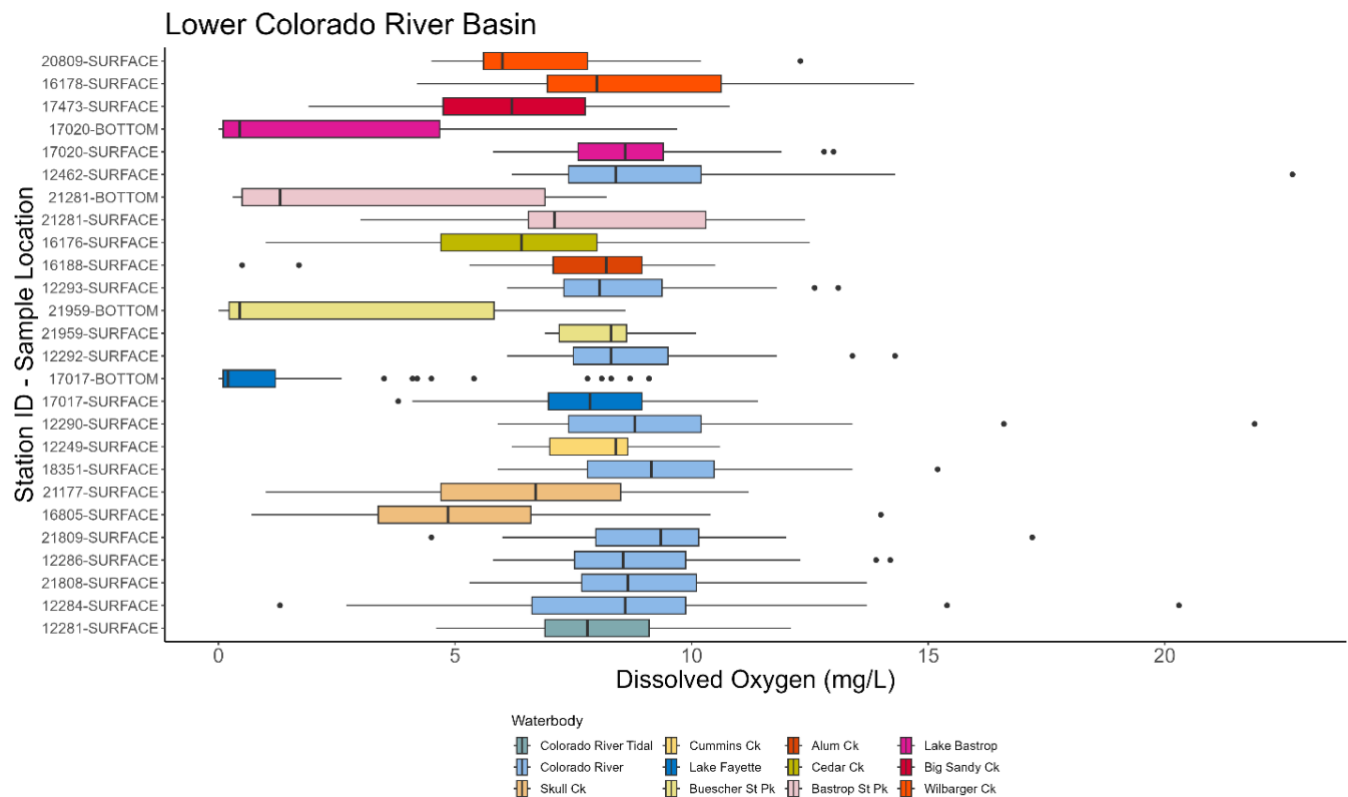
Water Temperature



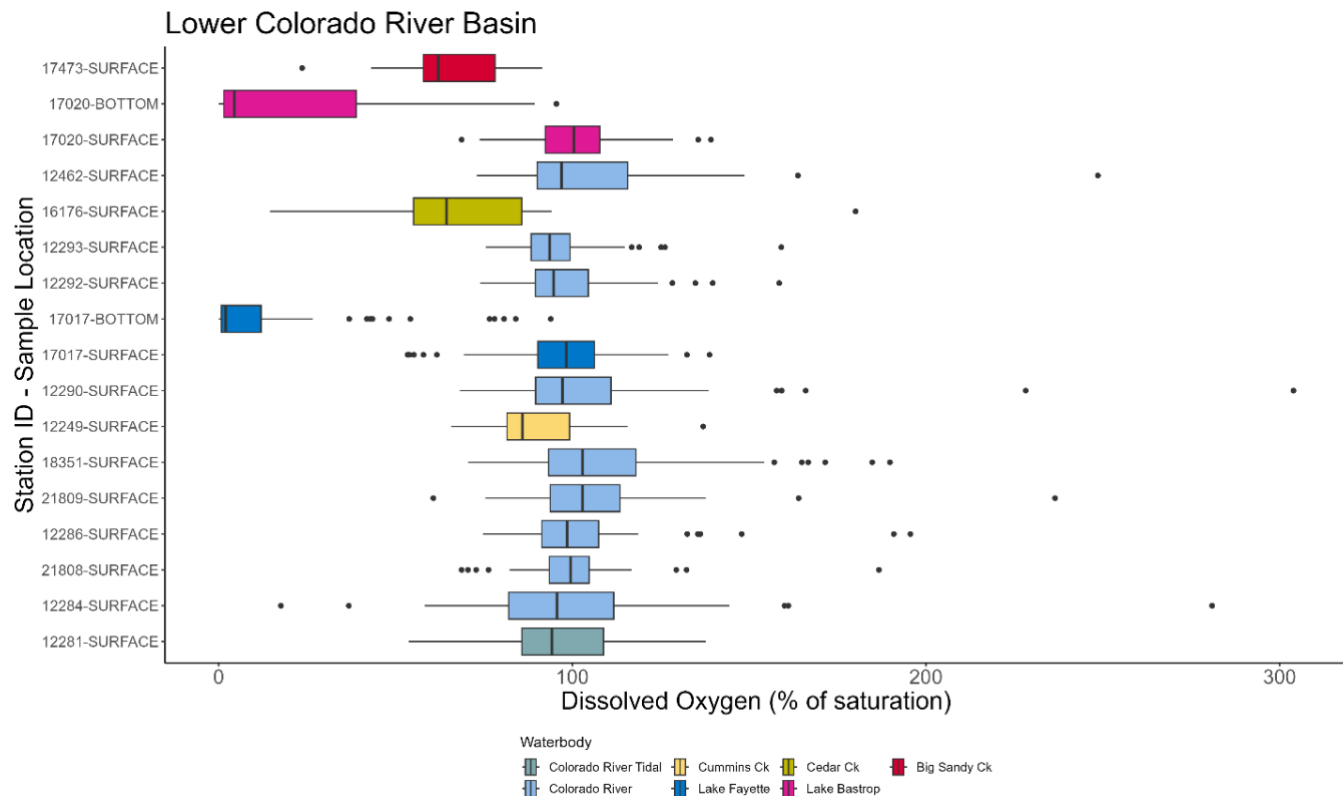
Secchi disc depth



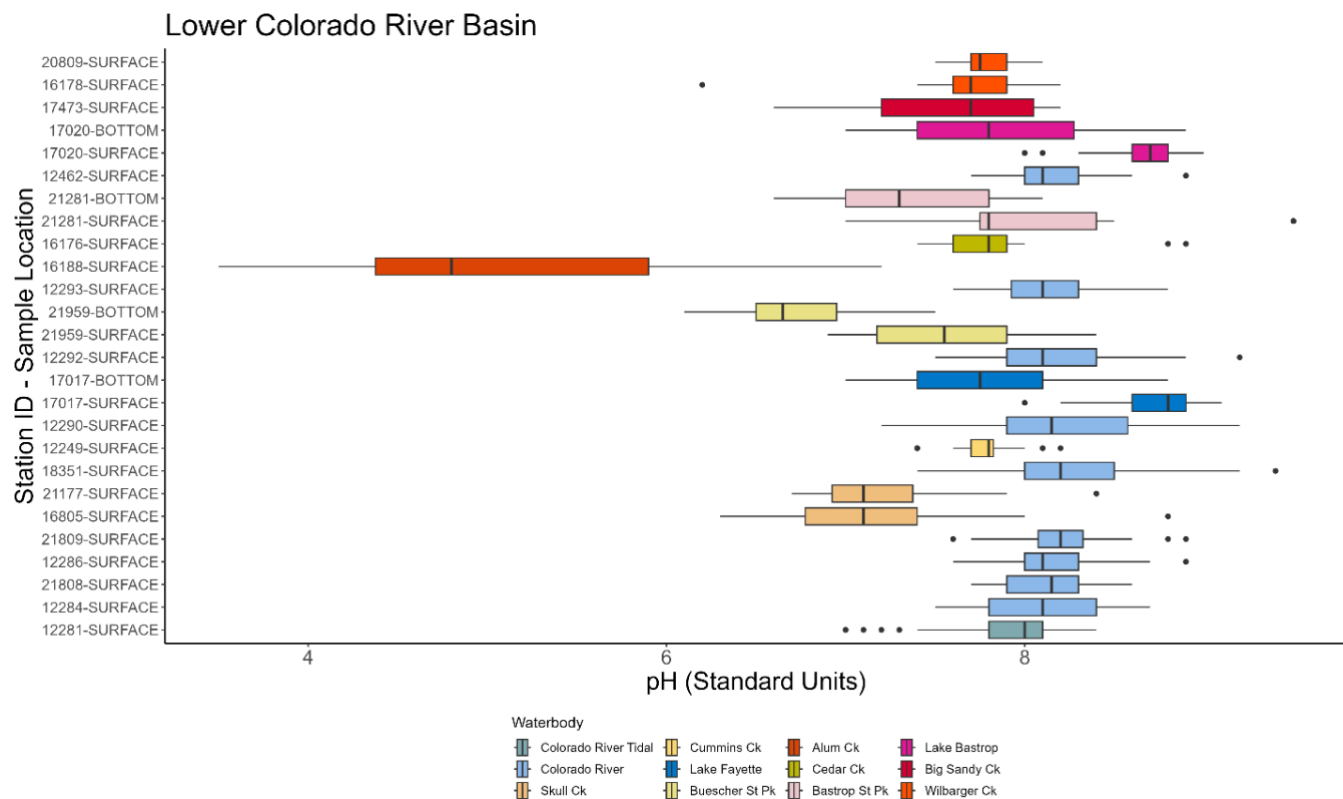
Dissolved Oxygen



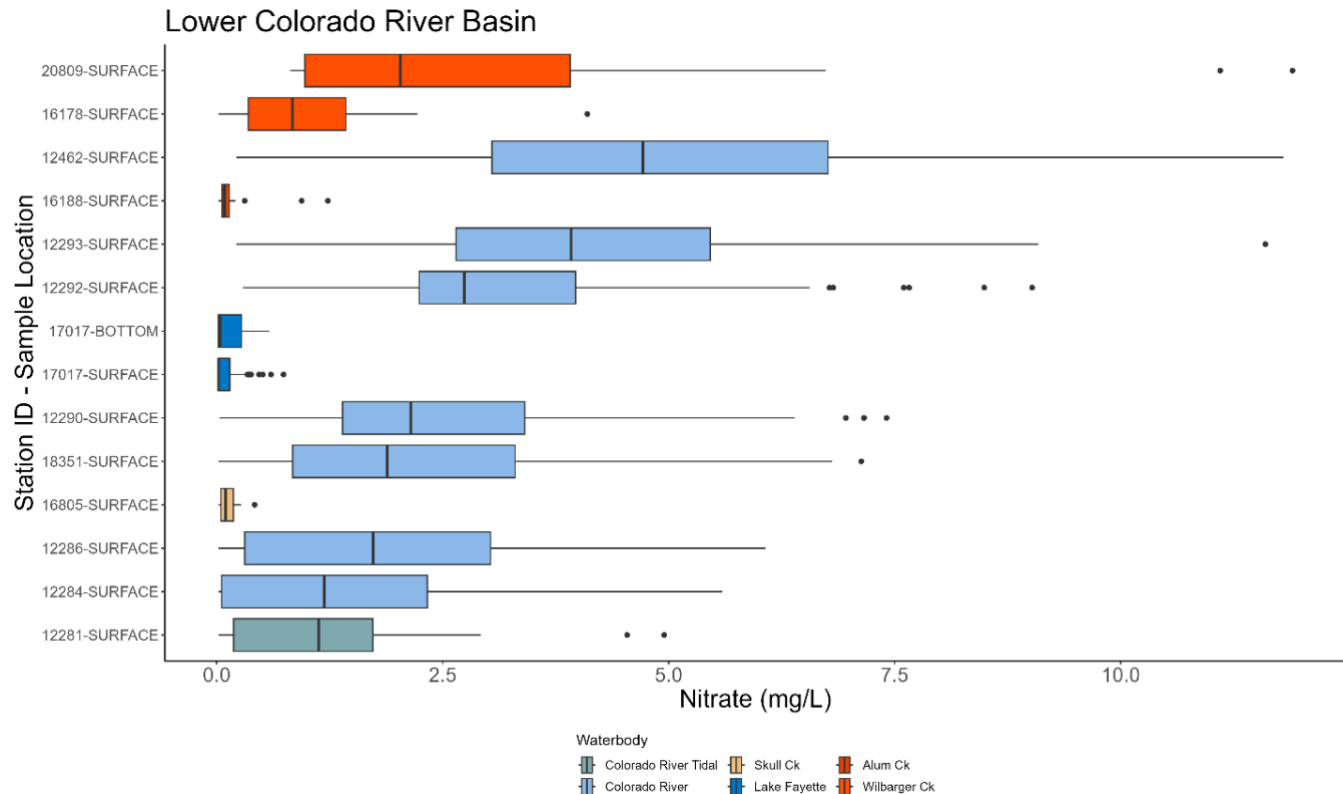
Dissolved Oxygen (% of saturation)



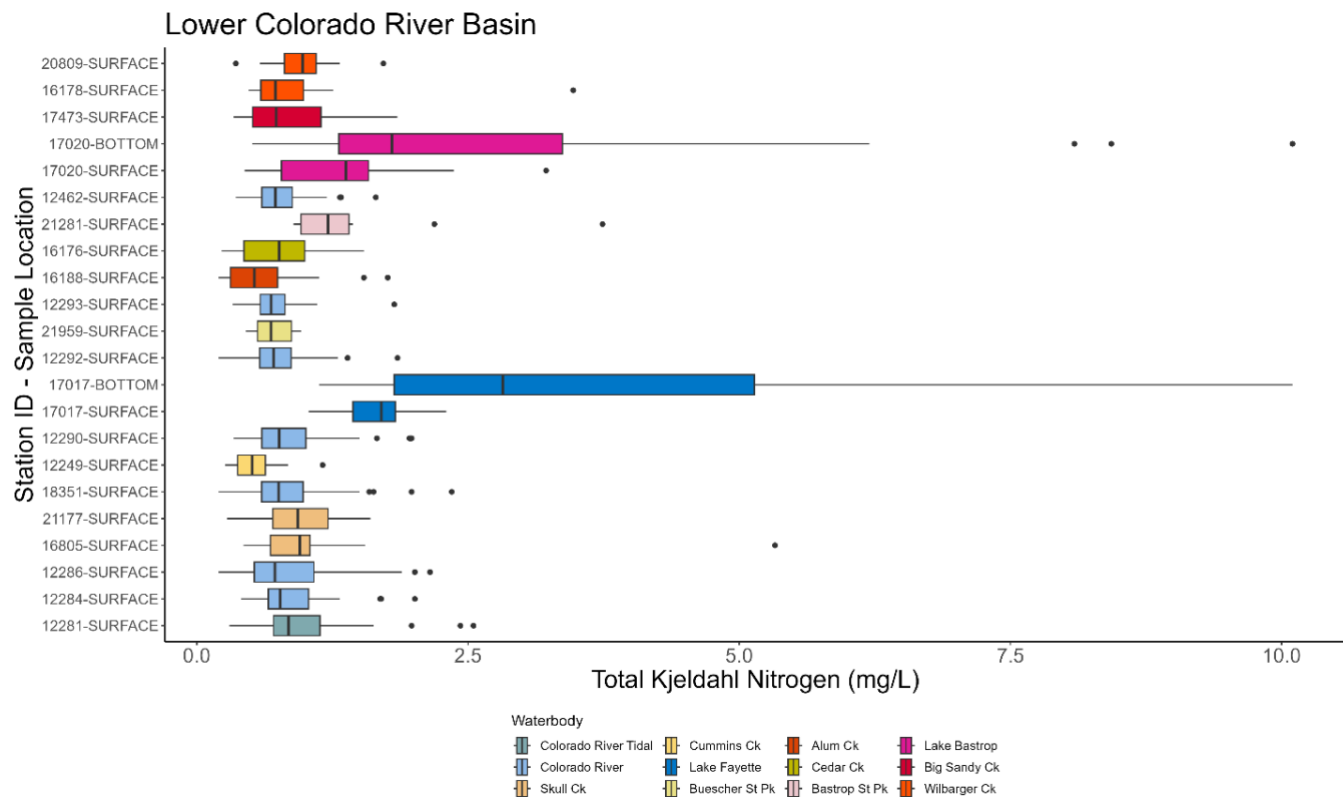
pH



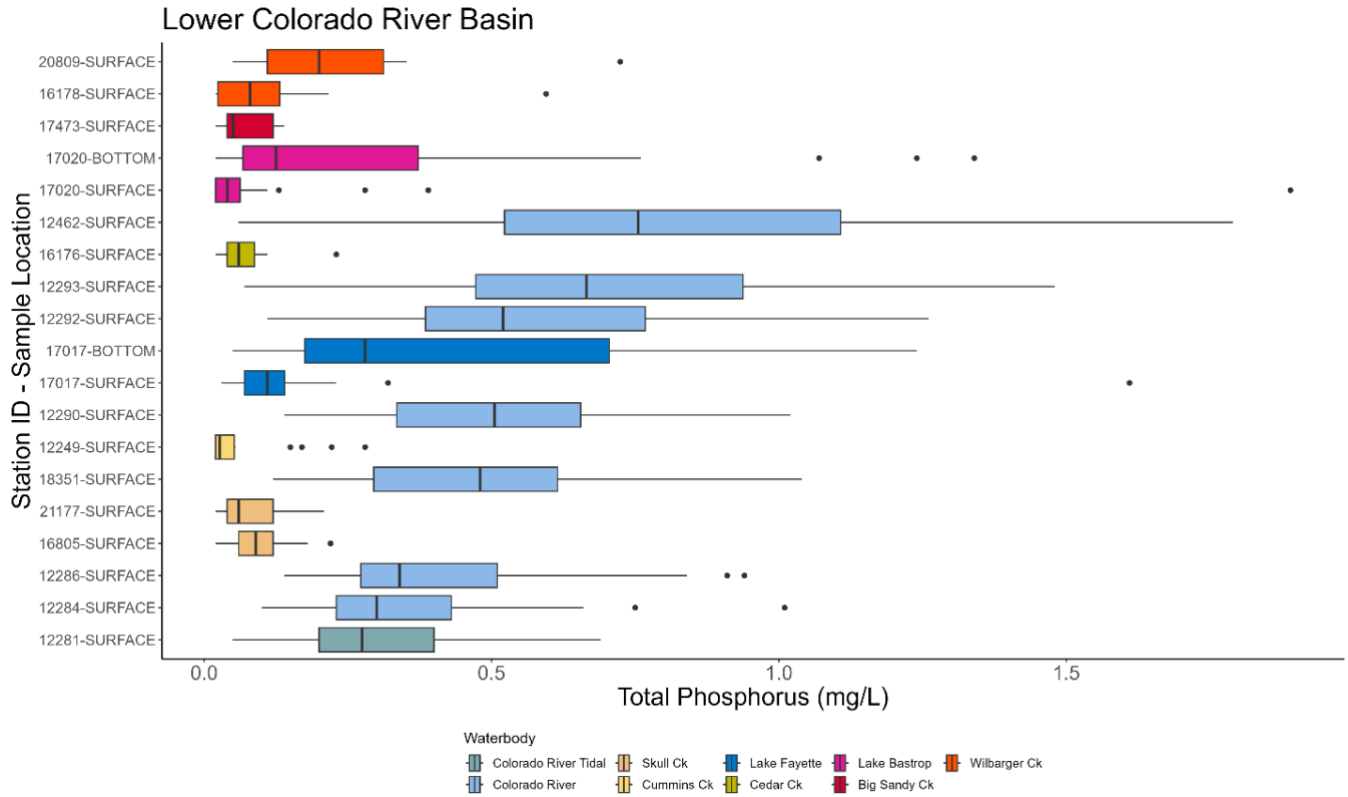
Nitrate



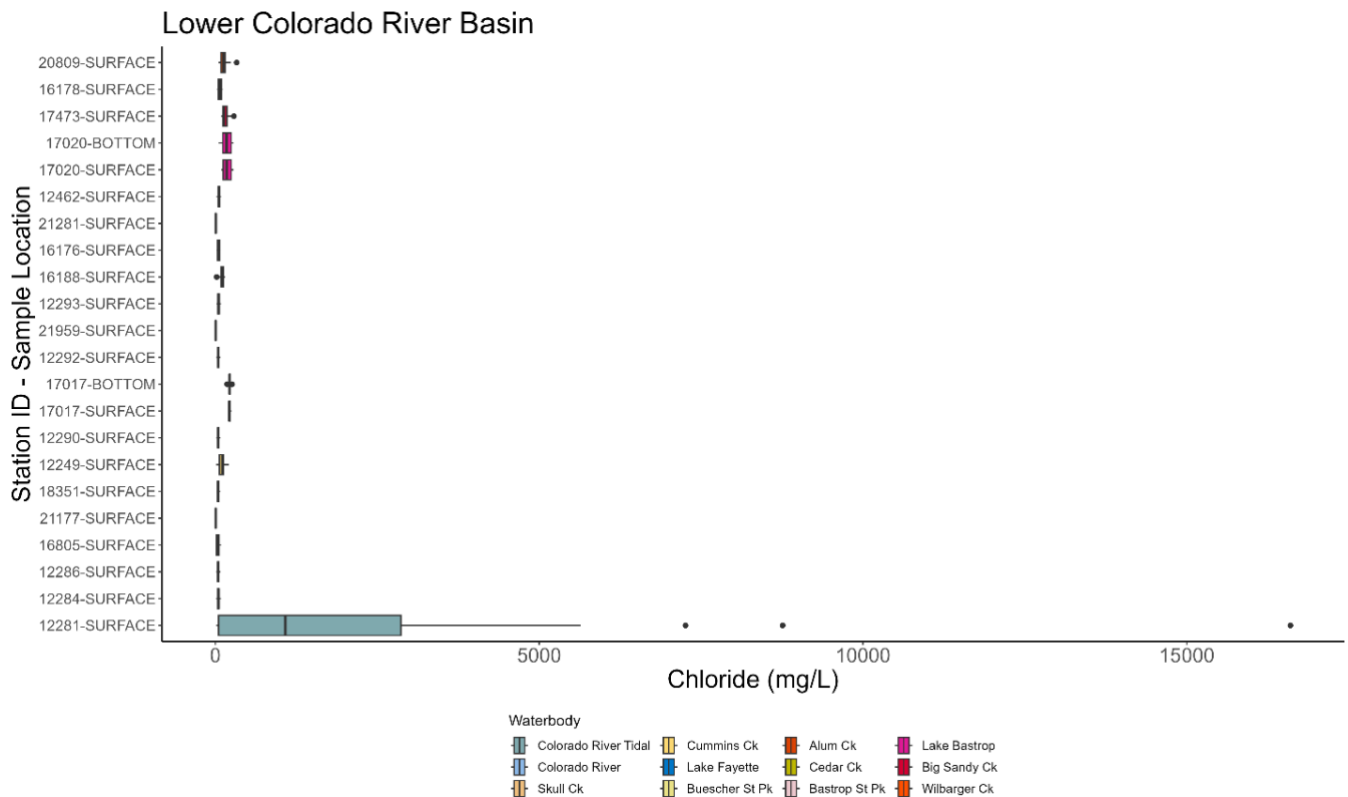
Total Kjeldahl Nitrogen



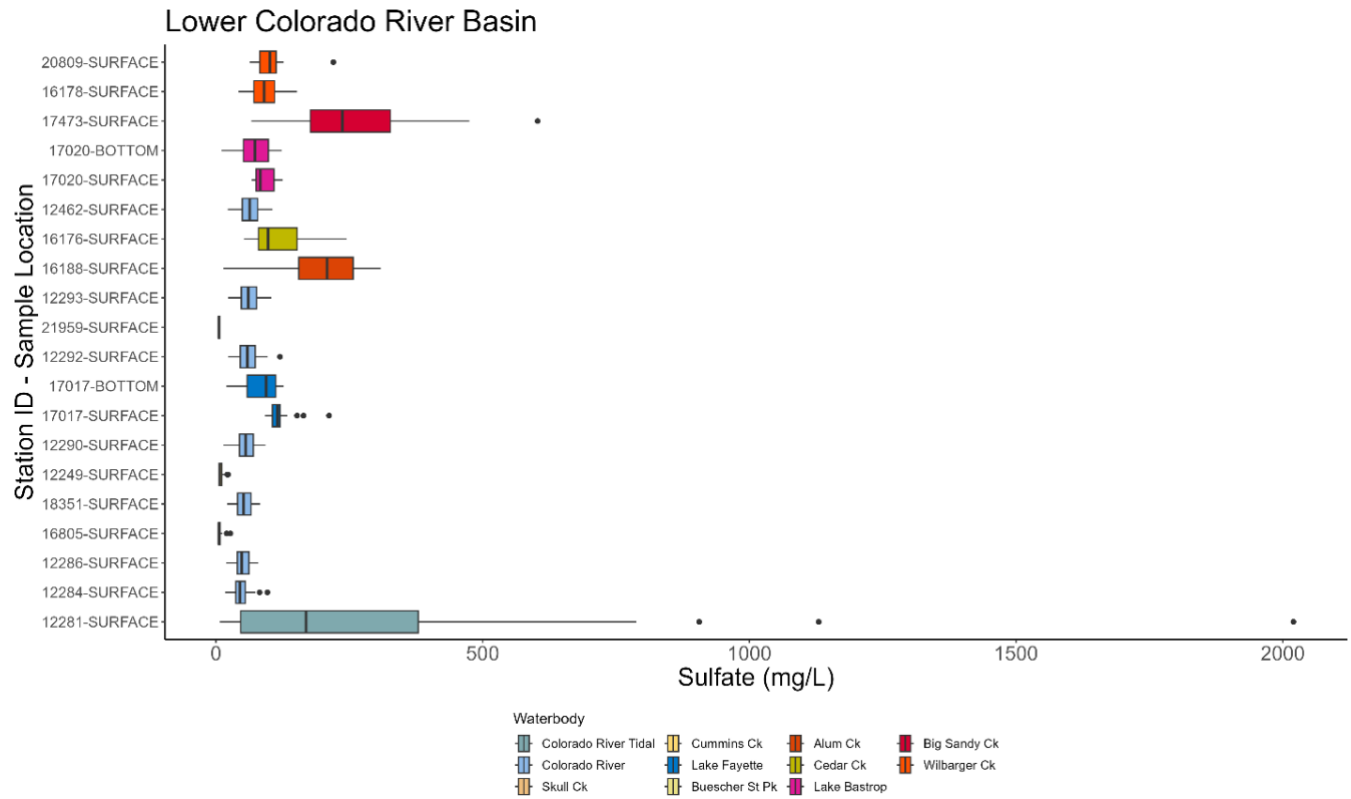
Total Phosphorus



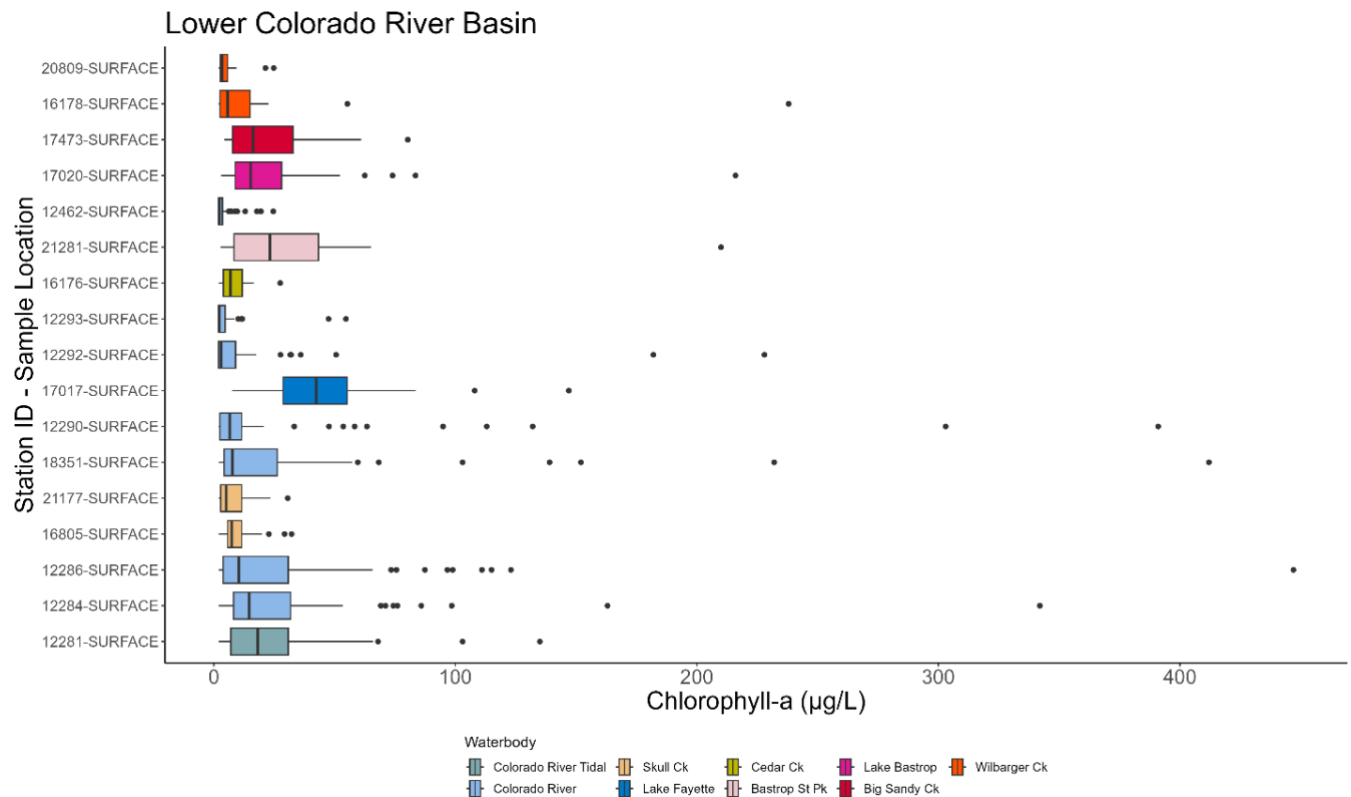
Chloride



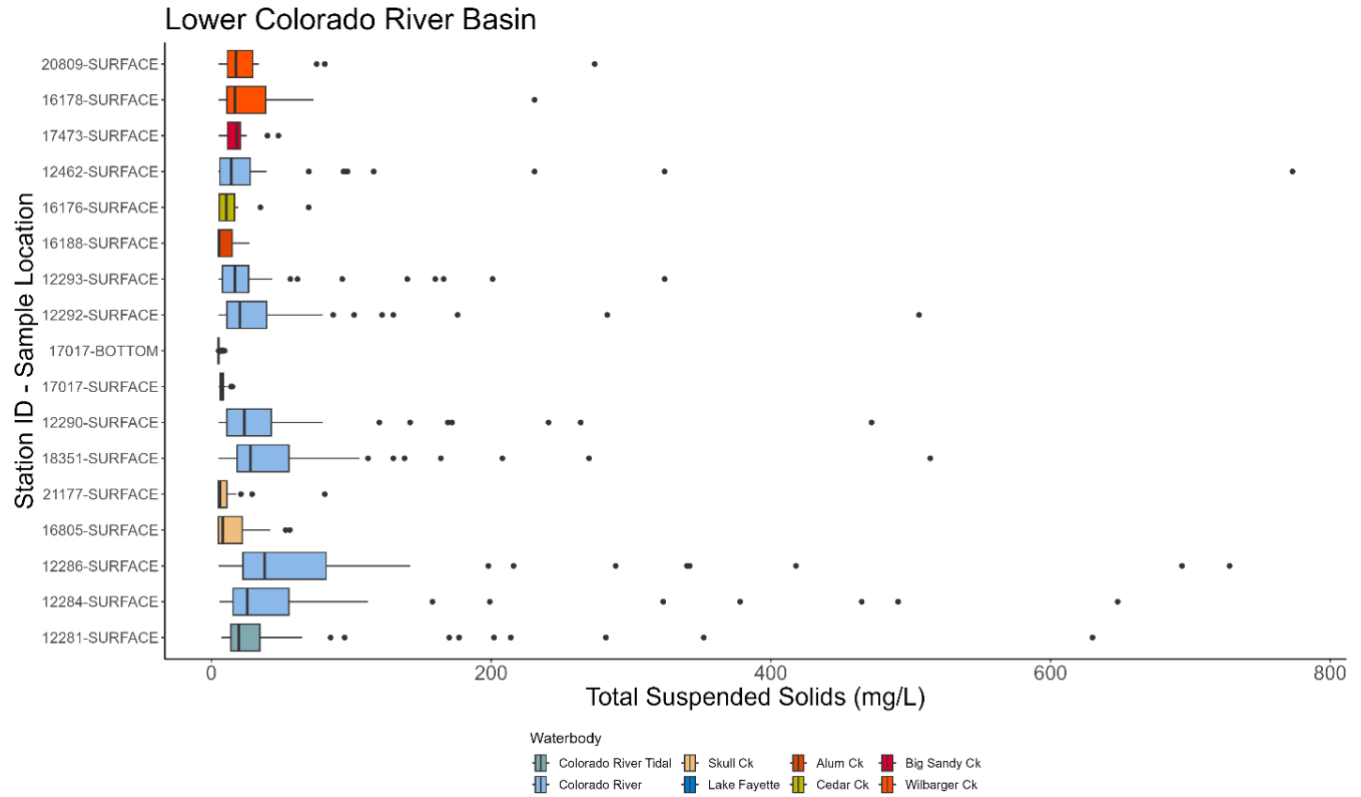
Sulfate



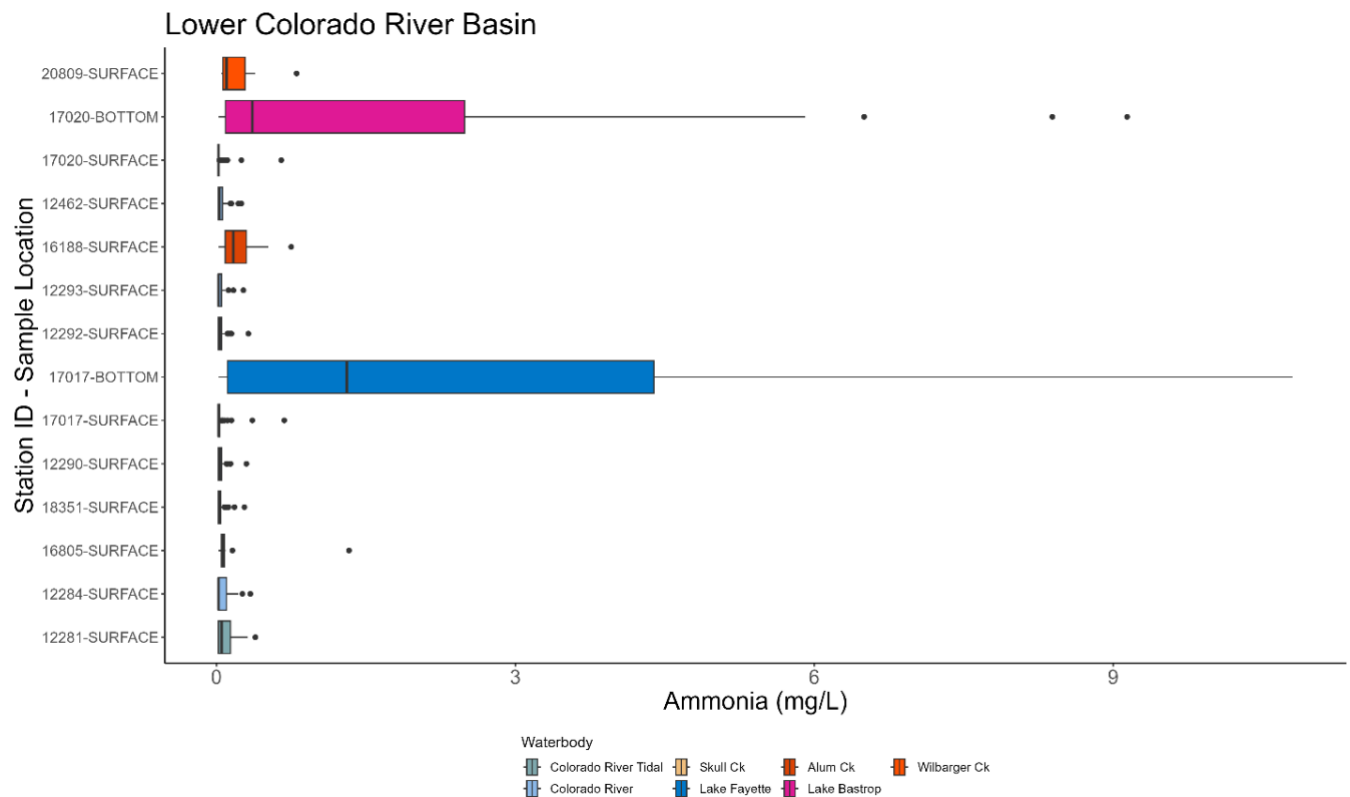
Chlorophyll a



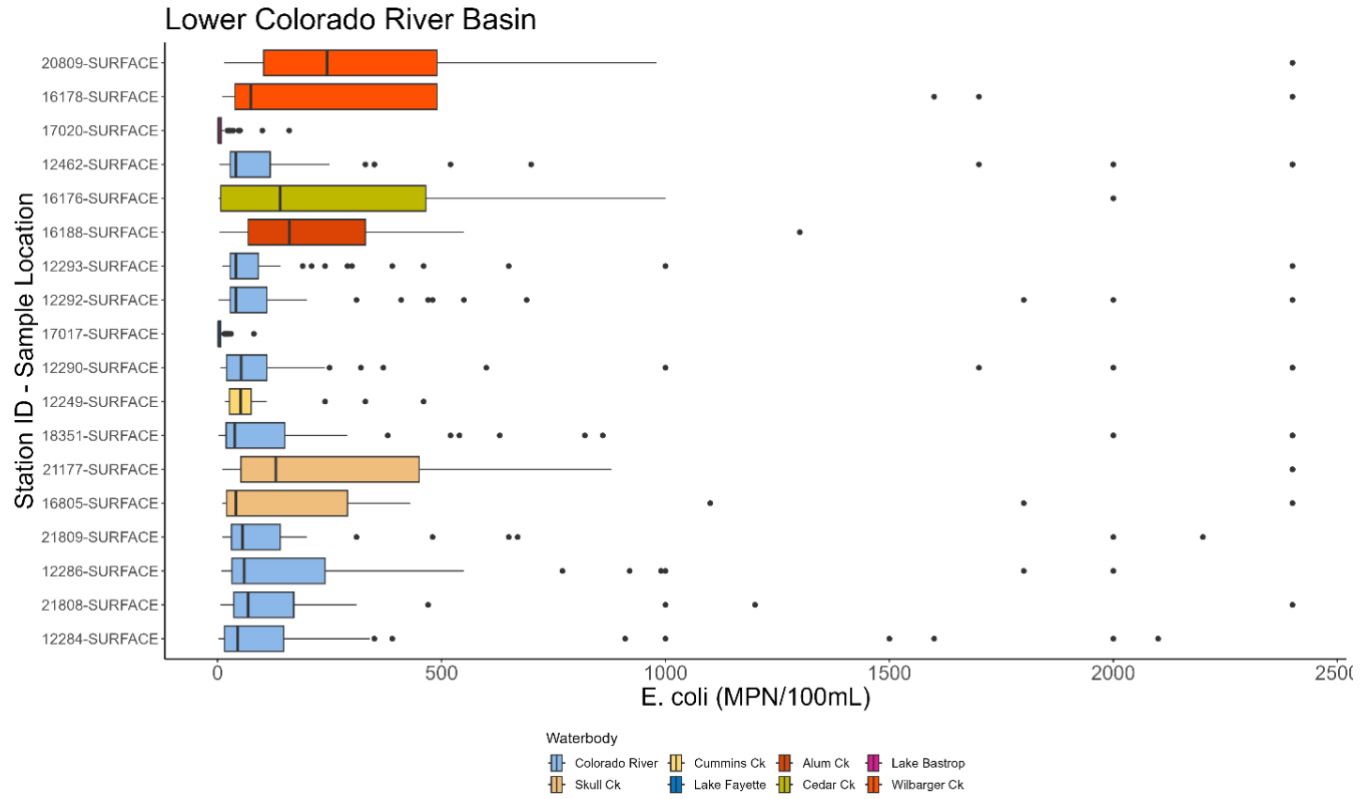
Total Suspended Solids



Ammonia



E. coli



Multiple Comparison Table

Multiple comparisons using Tukey-HSD after a significant ANOVA has been noted for the parameter. Sites that are being compared on a given row are mentioned in the Site Comparison column. The estimated difference between the sites for a given parameter is in the Difference column with the 95% confidence interval for the difference lying between the 95% Low and 95% High columns. As long as the 95% confidence interval does not contain zero, the sites should be statistically different (p-value < 0.05) for a given parameter.

Parameter Code	Parameter	WSHED	Site Comparison	Difference	95% Low Diff	95% High Diff	p-value
00010	Water Temperature (°C)	LowerBasin	17017-BOTTOM-12281-SURFACE	-5.4592	-9.6462	-1.2723	5e-04
00010	Water Temperature (°C)	LowerBasin	17020-BOTTOM-12281-SURFACE	-5.9182	-10.0042	-1.8321	<0.0001
00010	Water Temperature (°C)	LowerBasin	17017-BOTTOM-12284-SURFACE	-5.7320	-9.9189	-1.5450	2e-04
00010	Water Temperature (°C)	LowerBasin	17020-BOTTOM-12284-SURFACE	-6.1909	-10.2770	-2.1049	<0.0001
00010	Water Temperature (°C)	LowerBasin	17017-BOTTOM-12286-SURFACE	-4.7608	-8.9477	-0.5738	0.0078
00010	Water Temperature (°C)	LowerBasin	17020-BOTTOM-12286-SURFACE	-5.2197	-9.3057	-1.1336	8e-04
00010	Water Temperature (°C)	LowerBasin	17017-BOTTOM-12290-SURFACE	-4.7002	-8.8871	-0.5132	0.0096
00010	Water Temperature (°C)	LowerBasin	17020-BOTTOM-12290-SURFACE	-5.1591	-9.2451	-1.0730	0.0011
00010	Water Temperature (°C)	LowerBasin	17017-BOTTOM-12292-SURFACE	-4.2623	-8.4492	-0.0753	0.04
00010	Water Temperature (°C)	LowerBasin	17020-BOTTOM-12292-SURFACE	-4.7212	-8.8073	-0.6352	0.0059
00010	Water Temperature (°C)	LowerBasin	17017-BOTTOM-12293-SURFACE	-4.2183	-8.4053	-0.0314	0.0456
00010	Water Temperature (°C)	LowerBasin	17020-BOTTOM-12293-SURFACE	-4.6773	-8.7633	-0.5912	0.0069
00010	Water Temperature (°C)	LowerBasin	17017-BOTTOM-12462-SURFACE	-4.3926	-8.5795	-0.2056	0.0268
00010	Water Temperature (°C)	LowerBasin	17020-BOTTOM-12462-SURFACE	-4.8515	-8.9376	-0.7655	0.0036
00010	Water Temperature (°C)	LowerBasin	17017-SURFACE-16178-SURFACE	6.4728	0.1647	12.7808	0.0361
00010	Water Temperature (°C)	LowerBasin	17017-SURFACE-16188-SURFACE	6.6974	1.3252	12.0695	0.0014
00010	Water Temperature (°C)	LowerBasin	17017-SURFACE-17017-BOTTOM	8.3467	4.0612	12.6322	<0.0001
00010	Water Temperature (°C)	LowerBasin	17020-SURFACE-17017-BOTTOM	6.2895	2.1026	10.4765	<0.0001
00010	Water Temperature (°C)	LowerBasin	18351-SURFACE-17017-BOTTOM	5.3274	1.1405	9.5144	9e-04
00010	Water Temperature (°C)	LowerBasin	17020-BOTTOM-17017-SURFACE	-8.8056	-12.9926	-4.6186	<0.0001
00010	Water Temperature (°C)	LowerBasin	17473-SURFACE-17017-SURFACE	-8.5283	-15.3043	-1.7524	0.0011
00010	Water Temperature (°C)	LowerBasin	21177-SURFACE-17017-SURFACE	-6.4194	-11.9306	-0.9081	0.0051
00010	Water Temperature (°C)	LowerBasin	21959-BOTTOM-17017-SURFACE	-9.3617	-17.3791	-1.3443	0.0049
00010	Water Temperature (°C)	LowerBasin	17020-SURFACE-17020-BOTTOM	6.7485	2.6624	10.8345	<0.0001

00010	Water Temperature (°C)	LowerBasin	18351-SURFACE-17020-BOTTOM	5.7864	1.7003	9.8724	1e-04
00010	Water Temperature (°C)	LowerBasin	21808-SURFACE-17020-BOTTOM	5.1283	0.0721	10.1845	0.0419
00010	Water Temperature (°C)	LowerBasin	21809-SURFACE-17020-BOTTOM	5.2471	0.1908	10.3033	0.0311
00300	Dissolved Oxygen (mg/L)	LowerBasin	16805-SURFACE-12249-SURFACE	-2.7074	-5.1648	-0.2500	0.013
00300	Dissolved Oxygen (mg/L)	LowerBasin	17017-BOTTOM-12249-SURFACE	-6.6922	-8.9258	-4.4586	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	17020-BOTTOM-12249-SURFACE	-5.7908	-7.9998	-3.5818	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	21281-BOTTOM-12249-SURFACE	-4.8560	-8.0706	-1.6414	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	21959-BOTTOM-12249-SURFACE	-5.4405	-8.7553	-2.1257	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	16805-SURFACE-12281-SURFACE	-2.6605	-4.4882	-0.8328	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	17017-BOTTOM-12281-SURFACE	-6.6453	-8.1588	-5.1318	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	17020-BOTTOM-12281-SURFACE	-5.7439	-7.2209	-4.2669	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	21281-BOTTOM-12281-SURFACE	-4.8091	-7.5723	-2.0459	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	21959-BOTTOM-12281-SURFACE	-5.3936	-8.2728	-2.5144	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	16805-SURFACE-12284-SURFACE	-3.2272	-5.0549	-1.3995	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	17017-BOTTOM-12284-SURFACE	-7.2120	-8.7254	-5.6985	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	17020-BOTTOM-12284-SURFACE	-6.3106	-7.7876	-4.8336	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	21177-SURFACE-12284-SURFACE	-2.2423	-4.2349	-0.2497	0.0092
00300	Dissolved Oxygen (mg/L)	LowerBasin	21281-BOTTOM-12284-SURFACE	-5.3758	-8.1390	-2.6125	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	21959-BOTTOM-12284-SURFACE	-5.9603	-8.8395	-3.0811	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	16176-SURFACE-12286-SURFACE	-2.5267	-4.9536	-0.0997	0.0297
00300	Dissolved Oxygen (mg/L)	LowerBasin	16805-SURFACE-12286-SURFACE	-3.4635	-5.2912	-1.6358	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	17017-BOTTOM-12286-SURFACE	-7.4483	-8.9618	-5.9349	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	17020-BOTTOM-12286-SURFACE	-6.5470	-8.0240	-5.0700	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	17473-SURFACE-12286-SURFACE	-2.6238	-5.1204	-0.1272	0.0261
00300	Dissolved Oxygen (mg/L)	LowerBasin	21177-SURFACE-12286-SURFACE	-2.4787	-4.4712	-0.4861	0.0014
00300	Dissolved Oxygen (mg/L)	LowerBasin	21281-BOTTOM-12286-SURFACE	-5.6121	-8.3753	-2.8489	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	21959-BOTTOM-12286-SURFACE	-6.1967	-9.0759	-3.3175	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	16176-SURFACE-12290-SURFACE	-2.8888	-5.3157	-0.4618	0.0034
00300	Dissolved Oxygen (mg/L)	LowerBasin	16805-SURFACE-12290-SURFACE	-3.8257	-5.6534	-1.9980	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	17017-BOTTOM-12290-SURFACE	-7.8105	-9.3239	-6.2970	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	17020-BOTTOM-12290-SURFACE	-6.9091	-8.3861	-5.4321	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	17473-SURFACE-12290-SURFACE	-2.9859	-5.4825	-0.4893	0.0031

00300	Dissolved Oxygen (mg/L)	LowerBasin	21177-SURFACE-12290-SURFACE	-2.8408	-4.8334	-0.8482	1e-04
00300	Dissolved Oxygen (mg/L)	LowerBasin	21281-BOTTOM-12290-SURFACE	-5.9742	-8.7375	-3.2110	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	21959-BOTTOM-12290-SURFACE	-6.5588	-9.4380	-3.6796	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	16805-SURFACE-12292-SURFACE	-3.2711	-5.0988	-1.4434	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	17017-BOTTOM-12292-SURFACE	-7.2559	-8.7694	-5.7424	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	17020-BOTTOM-12292-SURFACE	-6.3545	-7.8315	-4.8775	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	21177-SURFACE-12292-SURFACE	-2.2862	-4.2788	-0.2937	0.0067
00300	Dissolved Oxygen (mg/L)	LowerBasin	21281-BOTTOM-12292-SURFACE	-5.4197	-8.1829	-2.6565	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	21959-BOTTOM-12292-SURFACE	-6.0042	-8.8834	-3.1250	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	16805-SURFACE-12293-SURFACE	-3.0651	-4.8927	-1.2374	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	17017-BOTTOM-12293-SURFACE	-7.0498	-8.5633	-5.5364	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	17020-BOTTOM-12293-SURFACE	-6.1485	-7.6255	-4.6715	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	21177-SURFACE-12293-SURFACE	-2.0802	-4.0728	-0.0876	0.0286
00300	Dissolved Oxygen (mg/L)	LowerBasin	21281-BOTTOM-12293-SURFACE	-5.2136	-7.9768	-2.4504	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	21959-BOTTOM-12293-SURFACE	-5.7982	-8.6774	-2.9190	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	16176-SURFACE-12462-SURFACE	-2.8524	-5.2794	-0.4255	0.0044
00300	Dissolved Oxygen (mg/L)	LowerBasin	16805-SURFACE-12462-SURFACE	-3.7893	-5.6170	-1.9616	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	17017-BOTTOM-12462-SURFACE	-7.7741	-9.2876	-6.2606	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	17020-BOTTOM-12462-SURFACE	-6.8727	-8.3497	-5.3957	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	17473-SURFACE-12462-SURFACE	-2.9496	-5.4461	-0.4530	0.004
00300	Dissolved Oxygen (mg/L)	LowerBasin	21177-SURFACE-12462-SURFACE	-2.8044	-4.7970	-0.8118	1e-04
00300	Dissolved Oxygen (mg/L)	LowerBasin	21281-BOTTOM-12462-SURFACE	-5.9379	-8.7011	-3.1747	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	21959-BOTTOM-12462-SURFACE	-6.5224	-9.4016	-3.6432	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	17017-BOTTOM-16176-SURFACE	-4.9217	-7.3710	-2.4723	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	17020-BOTTOM-16176-SURFACE	-4.0203	-6.4473	-1.5933	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	18351-SURFACE-16176-SURFACE	2.9888	0.5618	5.4157	0.0018
00300	Dissolved Oxygen (mg/L)	LowerBasin	21809-SURFACE-16176-SURFACE	2.8663	0.2112	5.5213	0.0177
00300	Dissolved Oxygen (mg/L)	LowerBasin	21959-BOTTOM-16176-SURFACE	-3.6700	-7.1339	-0.2061	0.0233
00300	Dissolved Oxygen (mg/L)	LowerBasin	16805-SURFACE-16178-SURFACE	-3.2358	-5.7356	-0.7359	6e-04
00300	Dissolved Oxygen (mg/L)	LowerBasin	17017-BOTTOM-16178-SURFACE	-7.2206	-9.5008	-4.9404	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	17020-BOTTOM-16178-SURFACE	-6.3192	-8.5753	-4.0630	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	21281-BOTTOM-16178-SURFACE	-5.3843	-8.6315	-2.1372	<0.0001

00300	Dissolved Oxygen (mg/L)	LowerBasin	21959-BOTTOM-16178-SURFACE	-5.9689	-9.3153	-2.6225	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	17017-BOTTOM-16188-SURFACE	-6.1531	-8.0950	-4.2112	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	17020-BOTTOM-16188-SURFACE	-5.2517	-7.1653	-3.3381	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	21281-BOTTOM-16188-SURFACE	-4.3169	-7.3361	-1.2977	1e-04
00300	Dissolved Oxygen (mg/L)	LowerBasin	21959-BOTTOM-16188-SURFACE	-4.9014	-8.0271	-1.7757	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	17017-BOTTOM-16805-SURFACE	-3.9848	-5.8421	-2.1275	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	17017-SURFACE-16805-SURFACE	2.4819	0.6246	4.3392	3e-04
00300	Dissolved Oxygen (mg/L)	LowerBasin	17020-BOTTOM-16805-SURFACE	-3.0834	-4.9111	-1.2557	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	17020-SURFACE-16805-SURFACE	3.1999	1.3722	5.0276	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	18351-SURFACE-16805-SURFACE	3.9257	2.0980	5.7534	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	21281-SURFACE-16805-SURFACE	2.6577	0.3383	4.9772	0.0068
00300	Dissolved Oxygen (mg/L)	LowerBasin	21808-SURFACE-16805-SURFACE	3.3125	1.1913	5.4337	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	21809-SURFACE-16805-SURFACE	3.8031	1.6819	5.9243	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	17017-SURFACE-17017-BOTTOM	6.4667	4.9176	8.0158	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	17020-SURFACE-17017-BOTTOM	7.1847	5.6712	8.6982	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	17473-SURFACE-17017-BOTTOM	4.8245	2.3062	7.3429	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	18351-SURFACE-17017-BOTTOM	7.9105	6.3970	9.4239	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	20809-SURFACE-17017-BOTTOM	5.5817	2.9860	8.1773	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	21177-SURFACE-17017-BOTTOM	4.9697	2.9499	6.9894	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	21281-SURFACE-17017-BOTTOM	6.6425	4.5617	8.7234	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	21808-SURFACE-17017-BOTTOM	7.2973	5.4400	9.1546	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	21809-SURFACE-17017-BOTTOM	7.7879	5.9306	9.6452	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	21959-SURFACE-17017-BOTTOM	6.7067	4.0236	9.3898	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	17020-BOTTOM-17017-SURFACE	-5.5653	-7.0788	-4.0518	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	21281-BOTTOM-17017-SURFACE	-4.6305	-7.4133	-1.8476	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	21959-BOTTOM-17017-SURFACE	-5.2150	-8.1131	-2.3169	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	17020-SURFACE-17020-BOTTOM	6.2833	4.8063	7.7603	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	17473-SURFACE-17020-BOTTOM	3.9232	1.4266	6.4197	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	18351-SURFACE-17020-BOTTOM	7.0091	5.5321	8.4861	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	20809-SURFACE-17020-BOTTOM	4.6803	2.1057	7.2549	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	21177-SURFACE-17020-BOTTOM	4.0683	2.0757	6.0609	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	21281-SURFACE-17020-BOTTOM	5.7412	3.6867	7.7956	<0.0001

00300	Dissolved Oxygen (mg/L)	LowerBasin	21808-SURFACE-17020-BOTTOM	6.3959	4.5682	8.2236	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	21809-SURFACE-17020-BOTTOM	6.8866	5.0589	8.7142	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	21959-SURFACE-17020-BOTTOM	5.8053	3.1426	8.4680	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	21177-SURFACE-17020-SURFACE	-2.2150	-4.2076	-0.2225	0.0113
00300	Dissolved Oxygen (mg/L)	LowerBasin	21281-BOTTOM-17020-SURFACE	-5.3485	-8.1117	-2.5853	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	21959-BOTTOM-17020-SURFACE	-5.9330	-8.8122	-3.0538	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	18351-SURFACE-17473-SURFACE	3.0859	0.5893	5.5825	0.0016
00300	Dissolved Oxygen (mg/L)	LowerBasin	21809-SURFACE-17473-SURFACE	2.9634	0.2446	5.6822	0.0153
00300	Dissolved Oxygen (mg/L)	LowerBasin	21959-BOTTOM-17473-SURFACE	-3.5729	-7.0859	-0.0599	0.0405
00300	Dissolved Oxygen (mg/L)	LowerBasin	21177-SURFACE-18351-SURFACE	-2.9408	-4.9334	-0.9482	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	21281-BOTTOM-18351-SURFACE	-6.0742	-8.8375	-3.3110	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	21959-BOTTOM-18351-SURFACE	-6.6588	-9.5380	-3.7796	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	21281-BOTTOM-20809-SURFACE	-3.7455	-7.2214	-0.2695	0.0182
00300	Dissolved Oxygen (mg/L)	LowerBasin	21959-BOTTOM-20809-SURFACE	-4.3300	-7.8989	-0.7611	0.0024
00300	Dissolved Oxygen (mg/L)	LowerBasin	21281-BOTTOM-21177-SURFACE	-3.1335	-6.2033	-0.0636	0.0386
00300	Dissolved Oxygen (mg/L)	LowerBasin	21808-SURFACE-21177-SURFACE	2.3276	0.0628	4.5924	0.0353
00300	Dissolved Oxygen (mg/L)	LowerBasin	21809-SURFACE-21177-SURFACE	2.8182	0.5535	5.0830	0.0014
00300	Dissolved Oxygen (mg/L)	LowerBasin	21959-BOTTOM-21177-SURFACE	-3.7180	-6.8927	-0.5433	0.0046
00300	Dissolved Oxygen (mg/L)	LowerBasin	21281-SURFACE-21281-BOTTOM	4.8063	1.6959	7.9167	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	21808-SURFACE-21281-BOTTOM	5.4611	2.4956	8.4266	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	21809-SURFACE-21281-BOTTOM	5.9517	2.9862	8.9172	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	21959-SURFACE-21281-BOTTOM	4.8705	1.3287	8.4122	1e-04
00300	Dissolved Oxygen (mg/L)	LowerBasin	21959-BOTTOM-21281-SURFACE	-5.3909	-8.6048	-2.1770	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	21959-BOTTOM-21808-SURFACE	-6.0456	-9.1195	-2.9717	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	21959-BOTTOM-21809-SURFACE	-6.5363	-9.6101	-3.4624	<0.0001
00300	Dissolved Oxygen (mg/L)	LowerBasin	21959-SURFACE-21959-BOTTOM	5.4550	1.8221	9.0879	<0.0001
00301	Dissolved Oxygen (% of saturation)	LowerBasin	17017-BOTTOM-12249-SURFACE	-77.9892	-102.1858	-53.7925	<0.0001
00301	Dissolved Oxygen (% of saturation)	LowerBasin	17020-BOTTOM-12249-SURFACE	-69.3625	-93.3994	-45.3256	<0.0001
00301	Dissolved Oxygen (% of saturation)	LowerBasin	17017-BOTTOM-12281-SURFACE	-81.5189	-96.9724	-66.0653	<0.0001
00301	Dissolved Oxygen (% of saturation)	LowerBasin	17020-BOTTOM-12281-SURFACE	-72.8922	-88.0945	-57.6899	<0.0001

00301	Dissolved Oxygen (% of saturation)	LowerBasin	17473-SURFACE-12281-SURFACE	-32.3136	-57.6869	-6.9403	0.0014
00301	Dissolved Oxygen (% of saturation)	LowerBasin	16176-SURFACE-12284-SURFACE	-28.2833	-52.9529	-3.6138	0.0084
00301	Dissolved Oxygen (% of saturation)	LowerBasin	17017-BOTTOM-12284-SURFACE	-86.0767	-101.5302	-70.6231	<0.0001
00301	Dissolved Oxygen (% of saturation)	LowerBasin	17020-BOTTOM-12284-SURFACE	-77.4500	-92.6523	-62.2477	<0.0001
00301	Dissolved Oxygen (% of saturation)	LowerBasin	17473-SURFACE-12284-SURFACE	-36.8714	-62.2447	-11.4981	1e-04
00301	Dissolved Oxygen (% of saturation)	LowerBasin	16176-SURFACE-12286-SURFACE	-30.4896	-55.1592	-5.8200	0.0024
00301	Dissolved Oxygen (% of saturation)	LowerBasin	17017-BOTTOM-12286-SURFACE	-88.2829	-103.7365	-72.8293	<0.0001
00301	Dissolved Oxygen (% of saturation)	LowerBasin	17020-BOTTOM-12286-SURFACE	-79.6563	-94.8585	-64.4540	<0.0001
00301	Dissolved Oxygen (% of saturation)	LowerBasin	17473-SURFACE-12286-SURFACE	-39.0777	-64.4510	-13.7044	<0.0001
00301	Dissolved Oxygen (% of saturation)	LowerBasin	16176-SURFACE-12290-SURFACE	-35.3036	-59.9732	-10.6341	1e-04
00301	Dissolved Oxygen (% of saturation)	LowerBasin	17017-BOTTOM-12290-SURFACE	-93.0970	-108.5506	-77.6434	<0.0001
00301	Dissolved Oxygen (% of saturation)	LowerBasin	17020-BOTTOM-12290-SURFACE	-84.4703	-99.6726	-69.2680	<0.0001
00301	Dissolved Oxygen (% of saturation)	LowerBasin	17473-SURFACE-12290-SURFACE	-43.8917	-69.2650	-18.5184	<0.0001
00301	Dissolved Oxygen (% of saturation)	LowerBasin	16176-SURFACE-12292-SURFACE	-26.5630	-51.2326	-1.8934	0.0205
00301	Dissolved Oxygen (% of saturation)	LowerBasin	17017-BOTTOM-12292-SURFACE	-84.3564	-99.8099	-68.9028	<0.0001
00301	Dissolved Oxygen (% of saturation)	LowerBasin	17020-BOTTOM-12292-SURFACE	-75.7297	-90.9320	-60.5274	<0.0001
00301	Dissolved Oxygen (% of saturation)	LowerBasin	17473-SURFACE-12292-SURFACE	-35.1511	-60.5244	-9.7778	2e-04
00301	Dissolved Oxygen (% of saturation)	LowerBasin	17017-BOTTOM-12293-SURFACE	-81.8532	-97.3068	-66.3997	<0.0001
00301	Dissolved Oxygen (% of saturation)	LowerBasin	17020-BOTTOM-12293-SURFACE	-73.2266	-88.4288	-58.0243	<0.0001
00301	Dissolved Oxygen (% of saturation)	LowerBasin	17473-SURFACE-12293-SURFACE	-32.6480	-58.0213	-7.2747	0.0011
00301	Dissolved Oxygen (% of saturation)	LowerBasin	16176-SURFACE-12462-SURFACE	-32.3693	-57.0388	-7.6997	8e-04

00301	Dissolved Oxygen (% of saturation)	LowerBasin	17017-BOTTOM-12462-SURFACE	-90.1626	-105.6162	-74.7090	<0.0001
00301	Dissolved Oxygen (% of saturation)	LowerBasin	17020-BOTTOM-12462-SURFACE	-81.5359	-96.7382	-66.3337	<0.0001
00301	Dissolved Oxygen (% of saturation)	LowerBasin	17473-SURFACE-12462-SURFACE	-40.9574	-66.3307	-15.5841	<0.0001
00301	Dissolved Oxygen (% of saturation)	LowerBasin	17017-BOTTOM-16176-SURFACE	-57.7933	-82.6186	-32.9681	<0.0001
00301	Dissolved Oxygen (% of saturation)	LowerBasin	17017-SURFACE-16176-SURFACE	25.3033	0.4781	50.1286	0.0403
00301	Dissolved Oxygen (% of saturation)	LowerBasin	17020-BOTTOM-16176-SURFACE	-49.1667	-73.8362	-24.4971	<0.0001
00301	Dissolved Oxygen (% of saturation)	LowerBasin	17020-SURFACE-16176-SURFACE	29.5224	4.8528	54.1920	0.0042
00301	Dissolved Oxygen (% of saturation)	LowerBasin	18351-SURFACE-16176-SURFACE	37.8333	13.1638	62.5029	<0.0001
00301	Dissolved Oxygen (% of saturation)	LowerBasin	21808-SURFACE-16176-SURFACE	28.7467	1.5520	55.9413	0.026
00301	Dissolved Oxygen (% of saturation)	LowerBasin	21809-SURFACE-16176-SURFACE	35.9500	8.7553	63.1447	6e-04
00301	Dissolved Oxygen (% of saturation)	LowerBasin	17017-SURFACE-17017-BOTTOM	83.0967	67.3958	98.7975	<0.0001
00301	Dissolved Oxygen (% of saturation)	LowerBasin	17020-SURFACE-17017-BOTTOM	87.3157	71.8622	102.7693	<0.0001
00301	Dissolved Oxygen (% of saturation)	LowerBasin	17473-SURFACE-17017-BOTTOM	49.2052	23.6806	74.7299	<0.0001
00301	Dissolved Oxygen (% of saturation)	LowerBasin	18351-SURFACE-17017-BOTTOM	95.6267	80.1731	111.0802	<0.0001
00301	Dissolved Oxygen (% of saturation)	LowerBasin	21808-SURFACE-17017-BOTTOM	86.5400	67.3105	105.7695	<0.0001
00301	Dissolved Oxygen (% of saturation)	LowerBasin	21809-SURFACE-17017-BOTTOM	93.7433	74.5138	112.9729	<0.0001
00301	Dissolved Oxygen (% of saturation)	LowerBasin	17020-BOTTOM-17017-SURFACE	-74.4700	-89.9236	-59.0164	<0.0001
00301	Dissolved Oxygen (% of saturation)	LowerBasin	17473-SURFACE-17017-SURFACE	-33.8914	-59.4161	-8.3668	6e-04
00301	Dissolved Oxygen (% of saturation)	LowerBasin	17020-SURFACE-17020-BOTTOM	78.6891	63.4868	93.8913	<0.0001
00301	Dissolved Oxygen (% of saturation)	LowerBasin	17473-SURFACE-17020-BOTTOM	40.5786	15.2053	65.9519	<0.0001
00301	Dissolved Oxygen (% of saturation)	LowerBasin	18351-SURFACE-17020-BOTTOM	87.0000	71.7977	102.2023	<0.0001

00301	Dissolved Oxygen (% of saturation)	LowerBasin	21808-SURFACE-17020-BOTTOM	77.9133	58.8852	96.9415	<0.0001
00301	Dissolved Oxygen (% of saturation)	LowerBasin	21809-SURFACE-17020-BOTTOM	85.1167	66.0885	104.1448	<0.0001
00301	Dissolved Oxygen (% of saturation)	LowerBasin	17473-SURFACE-17020-SURFACE	-38.1105	-63.4838	-12.7372	<0.0001
00301	Dissolved Oxygen (% of saturation)	LowerBasin	18351-SURFACE-17473-SURFACE	46.4214	21.0481	71.7947	<0.0001
00301	Dissolved Oxygen (% of saturation)	LowerBasin	21808-SURFACE-17473-SURFACE	37.3348	9.5001	65.1694	5e-04
00301	Dissolved Oxygen (% of saturation)	LowerBasin	21809-SURFACE-17473-SURFACE	44.5381	16.7035	72.3727	<0.0001
00400	pH (Standard Units)	LowerBasin	12286-SURFACE-12249-SURFACE	0.3882	0.0149	0.7614	0.0302
00400	pH (Standard Units)	LowerBasin	12290-SURFACE-12249-SURFACE	0.4261	0.0528	0.7993	0.0073
00400	pH (Standard Units)	LowerBasin	16188-SURFACE-12249-SURFACE	-2.7479	-3.1760	-2.3197	<0.0001
00400	pH (Standard Units)	LowerBasin	16805-SURFACE-12249-SURFACE	-0.6612	-1.0781	-0.2444	<0.0001
00400	pH (Standard Units)	LowerBasin	17017-SURFACE-12249-SURFACE	0.9567	0.5791	1.3342	<0.0001
00400	pH (Standard Units)	LowerBasin	17020-SURFACE-12249-SURFACE	0.9064	0.5331	1.2796	<0.0001
00400	pH (Standard Units)	LowerBasin	18351-SURFACE-12249-SURFACE	0.4852	0.1119	0.8584	6e-04
00400	pH (Standard Units)	LowerBasin	21177-SURFACE-12249-SURFACE	-0.5723	-1.0073	-0.1374	4e-04
00400	pH (Standard Units)	LowerBasin	21959-BOTTOM-12249-SURFACE	-1.0500	-1.6164	-0.4836	<0.0001
00400	pH (Standard Units)	LowerBasin	12286-SURFACE-12281-SURFACE	0.2652	0.0106	0.5197	0.0295
00400	pH (Standard Units)	LowerBasin	12290-SURFACE-12281-SURFACE	0.3030	0.0485	0.5576	0.0034
00400	pH (Standard Units)	LowerBasin	16188-SURFACE-12281-SURFACE	-2.8709	-3.2007	-2.5411	<0.0001
00400	pH (Standard Units)	LowerBasin	16805-SURFACE-12281-SURFACE	-0.7843	-1.0993	-0.4693	<0.0001
00400	pH (Standard Units)	LowerBasin	17017-SURFACE-12281-SURFACE	0.8336	0.5728	1.0945	<0.0001
00400	pH (Standard Units)	LowerBasin	17020-SURFACE-12281-SURFACE	0.7833	0.5288	1.0379	<0.0001
00400	pH (Standard Units)	LowerBasin	18351-SURFACE-12281-SURFACE	0.3621	0.1076	0.6167	1e-04
00400	pH (Standard Units)	LowerBasin	21177-SURFACE-12281-SURFACE	-0.6953	-1.0339	-0.3567	<0.0001
00400	pH (Standard Units)	LowerBasin	21281-BOTTOM-12281-SURFACE	-0.5485	-1.0247	-0.0722	0.0062
00400	pH (Standard Units)	LowerBasin	21959-BOTTOM-12281-SURFACE	-1.1730	-1.6693	-0.6768	<0.0001
00400	pH (Standard Units)	LowerBasin	16178-SURFACE-12284-SURFACE	-0.4220	-0.8198	-0.0243	0.0228
00400	pH (Standard Units)	LowerBasin	16188-SURFACE-12284-SURFACE	-3.0663	-3.3962	-2.7365	<0.0001
00400	pH (Standard Units)	LowerBasin	16805-SURFACE-12284-SURFACE	-0.9797	-1.2947	-0.6647	<0.0001
00400	pH (Standard Units)	LowerBasin	17017-BOTTOM-12284-SURFACE	-0.3085	-0.5693	-0.0476	0.0039

00400	pH (Standard Units)	LowerBasin	17017-SURFACE-12284-SURFACE	0.6382	0.3773	0.8990	<0.0001
00400	pH (Standard Units)	LowerBasin	17020-SURFACE-12284-SURFACE	0.5879	0.3333	0.8424	<0.0001
00400	pH (Standard Units)	LowerBasin	17473-SURFACE-12284-SURFACE	-0.5385	-0.9568	-0.1202	7e-04
00400	pH (Standard Units)	LowerBasin	21177-SURFACE-12284-SURFACE	-0.8908	-1.2294	-0.5522	<0.0001
00400	pH (Standard Units)	LowerBasin	21281-BOTTOM-12284-SURFACE	-0.7439	-1.2202	-0.2677	<0.0001
00400	pH (Standard Units)	LowerBasin	21959-BOTTOM-12284-SURFACE	-1.3685	-1.8647	-0.8722	<0.0001
00400	pH (Standard Units)	LowerBasin	21959-SURFACE-12284-SURFACE	-0.5652	-1.0241	-0.1062	0.0018
00400	pH (Standard Units)	LowerBasin	16178-SURFACE-12286-SURFACE	-0.4917	-0.8895	-0.0940	0.0016
00400	pH (Standard Units)	LowerBasin	16188-SURFACE-12286-SURFACE	-3.1360	-3.4659	-2.8062	<0.0001
00400	pH (Standard Units)	LowerBasin	16805-SURFACE-12286-SURFACE	-1.0494	-1.3644	-0.7344	<0.0001
00400	pH (Standard Units)	LowerBasin	17017-BOTTOM-12286-SURFACE	-0.3782	-0.6390	-0.1173	<0.0001
00400	pH (Standard Units)	LowerBasin	17017-SURFACE-12286-SURFACE	0.5685	0.3076	0.8293	<0.0001
00400	pH (Standard Units)	LowerBasin	17020-BOTTOM-12286-SURFACE	-0.2864	-0.5409	-0.0318	0.0093
00400	pH (Standard Units)	LowerBasin	17020-SURFACE-12286-SURFACE	0.5182	0.2636	0.7727	<0.0001
00400	pH (Standard Units)	LowerBasin	17473-SURFACE-12286-SURFACE	-0.6082	-1.0265	-0.1899	<0.0001
00400	pH (Standard Units)	LowerBasin	21177-SURFACE-12286-SURFACE	-0.9605	-1.2991	-0.6219	<0.0001
00400	pH (Standard Units)	LowerBasin	21281-BOTTOM-12286-SURFACE	-0.8136	-1.2899	-0.3374	<0.0001
00400	pH (Standard Units)	LowerBasin	21959-BOTTOM-12286-SURFACE	-1.4382	-1.9344	-0.9419	<0.0001
00400	pH (Standard Units)	LowerBasin	21959-SURFACE-12286-SURFACE	-0.6348	-1.0938	-0.1759	1e-04
00400	pH (Standard Units)	LowerBasin	16178-SURFACE-12290-SURFACE	-0.5296	-0.9273	-0.1319	3e-04
00400	pH (Standard Units)	LowerBasin	16188-SURFACE-12290-SURFACE	-3.1739	-3.5037	-2.8441	<0.0001
00400	pH (Standard Units)	LowerBasin	16805-SURFACE-12290-SURFACE	-1.0873	-1.4023	-0.7723	<0.0001
00400	pH (Standard Units)	LowerBasin	17017-BOTTOM-12290-SURFACE	-0.4161	-0.6769	-0.1552	<0.0001
00400	pH (Standard Units)	LowerBasin	17017-SURFACE-12290-SURFACE	0.5306	0.2698	0.7915	<0.0001
00400	pH (Standard Units)	LowerBasin	17020-BOTTOM-12290-SURFACE	-0.3242	-0.5788	-0.0697	9e-04
00400	pH (Standard Units)	LowerBasin	17020-SURFACE-12290-SURFACE	0.4803	0.2257	0.7349	<0.0001
00400	pH (Standard Units)	LowerBasin	17473-SURFACE-12290-SURFACE	-0.6461	-1.0644	-0.2278	<0.0001
00400	pH (Standard Units)	LowerBasin	21177-SURFACE-12290-SURFACE	-0.9984	-1.3370	-0.6598	<0.0001
00400	pH (Standard Units)	LowerBasin	21281-BOTTOM-12290-SURFACE	-0.8515	-1.3278	-0.3753	<0.0001
00400	pH (Standard Units)	LowerBasin	21959-BOTTOM-12290-SURFACE	-1.4761	-1.9723	-0.9798	<0.0001
00400	pH (Standard Units)	LowerBasin	21959-SURFACE-12290-SURFACE	-0.6727	-1.1317	-0.2138	<0.0001
00400	pH (Standard Units)	LowerBasin	16178-SURFACE-12292-SURFACE	-0.4629	-0.8607	-0.0652	0.0052

00400	pH (Standard Units)	LowerBasin	16188-SURFACE-12292-SURFACE	-3.1073	-3.4371	-2.7774	<0.0001
00400	pH (Standard Units)	LowerBasin	16805-SURFACE-12292-SURFACE	-1.0206	-1.3357	-0.7056	<0.0001
00400	pH (Standard Units)	LowerBasin	17017-BOTTOM-12292-SURFACE	-0.3494	-0.6102	-0.0885	3e-04
00400	pH (Standard Units)	LowerBasin	17017-SURFACE-12292-SURFACE	0.5973	0.3364	0.8581	<0.0001
00400	pH (Standard Units)	LowerBasin	17020-BOTTOM-12292-SURFACE	-0.2576	-0.5121	-0.0030	0.0432
00400	pH (Standard Units)	LowerBasin	17020-SURFACE-12292-SURFACE	0.5470	0.2924	0.8015	<0.0001
00400	pH (Standard Units)	LowerBasin	17473-SURFACE-12292-SURFACE	-0.5794	-0.9977	-0.1611	1e-04
00400	pH (Standard Units)	LowerBasin	21177-SURFACE-12292-SURFACE	-0.9317	-1.2703	-0.5931	<0.0001
00400	pH (Standard Units)	LowerBasin	21281-BOTTOM-12292-SURFACE	-0.7848	-1.2611	-0.3086	<0.0001
00400	pH (Standard Units)	LowerBasin	21959-BOTTOM-12292-SURFACE	-1.4094	-1.9056	-0.9132	<0.0001
00400	pH (Standard Units)	LowerBasin	21959-SURFACE-12292-SURFACE	-0.6061	-1.0650	-0.1471	4e-04
00400	pH (Standard Units)	LowerBasin	16178-SURFACE-12293-SURFACE	-0.4417	-0.8395	-0.0440	0.0115
00400	pH (Standard Units)	LowerBasin	16188-SURFACE-12293-SURFACE	-3.0860	-3.4159	-2.7562	<0.0001
00400	pH (Standard Units)	LowerBasin	16805-SURFACE-12293-SURFACE	-0.9994	-1.3144	-0.6844	<0.0001
00400	pH (Standard Units)	LowerBasin	17017-BOTTOM-12293-SURFACE	-0.3282	-0.5890	-0.0673	0.0011
00400	pH (Standard Units)	LowerBasin	17017-SURFACE-12293-SURFACE	0.6185	0.3576	0.8793	<0.0001
00400	pH (Standard Units)	LowerBasin	17020-SURFACE-12293-SURFACE	0.5682	0.3136	0.8227	<0.0001
00400	pH (Standard Units)	LowerBasin	17473-SURFACE-12293-SURFACE	-0.5582	-0.9765	-0.1399	3e-04
00400	pH (Standard Units)	LowerBasin	21177-SURFACE-12293-SURFACE	-0.9105	-1.2491	-0.5719	<0.0001
00400	pH (Standard Units)	LowerBasin	21281-BOTTOM-12293-SURFACE	-0.7636	-1.2399	-0.2874	<0.0001
00400	pH (Standard Units)	LowerBasin	21959-BOTTOM-12293-SURFACE	-1.3882	-1.8844	-0.8919	<0.0001
00400	pH (Standard Units)	LowerBasin	21959-SURFACE-12293-SURFACE	-0.5848	-1.0438	-0.1259	9e-04
00400	pH (Standard Units)	LowerBasin	16178-SURFACE-12462-SURFACE	-0.4720	-0.8698	-0.0743	0.0036
00400	pH (Standard Units)	LowerBasin	16188-SURFACE-12462-SURFACE	-3.1163	-3.4462	-2.7865	<0.0001
00400	pH (Standard Units)	LowerBasin	16805-SURFACE-12462-SURFACE	-1.0297	-1.3447	-0.7147	<0.0001
00400	pH (Standard Units)	LowerBasin	17017-BOTTOM-12462-SURFACE	-0.3585	-0.6193	-0.0976	1e-04
00400	pH (Standard Units)	LowerBasin	17017-SURFACE-12462-SURFACE	0.5882	0.3273	0.8490	<0.0001
00400	pH (Standard Units)	LowerBasin	17020-BOTTOM-12462-SURFACE	-0.2667	-0.5212	-0.0121	0.0273
00400	pH (Standard Units)	LowerBasin	17020-SURFACE-12462-SURFACE	0.5379	0.2833	0.7924	<0.0001
00400	pH (Standard Units)	LowerBasin	17473-SURFACE-12462-SURFACE	-0.5885	-1.0068	-0.1702	1e-04
00400	pH (Standard Units)	LowerBasin	21177-SURFACE-12462-SURFACE	-0.9408	-1.2794	-0.6022	<0.0001
00400	pH (Standard Units)	LowerBasin	21281-BOTTOM-12462-SURFACE	-0.7939	-1.2702	-0.3177	<0.0001

00400	pH (Standard Units)	LowerBasin	21959-BOTTOM-12462-SURFACE	-1.4185	-1.9147	-0.9222	<0.0001
00400	pH (Standard Units)	LowerBasin	21959-SURFACE-12462-SURFACE	-0.6152	-1.0741	-0.1562	3e-04
00400	pH (Standard Units)	LowerBasin	16188-SURFACE-16176-SURFACE	-2.8279	-3.2958	-2.3599	<0.0001
00400	pH (Standard Units)	LowerBasin	16805-SURFACE-16176-SURFACE	-0.7413	-1.1988	-0.2837	<0.0001
00400	pH (Standard Units)	LowerBasin	17017-SURFACE-16176-SURFACE	0.8767	0.4545	1.2988	<0.0001
00400	pH (Standard Units)	LowerBasin	17020-SURFACE-16176-SURFACE	0.8264	0.4081	1.2447	<0.0001
00400	pH (Standard Units)	LowerBasin	21177-SURFACE-16176-SURFACE	-0.6523	-1.1265	-0.1782	1e-04
00400	pH (Standard Units)	LowerBasin	21959-BOTTOM-16176-SURFACE	-1.1300	-1.7270	-0.5330	<0.0001
00400	pH (Standard Units)	LowerBasin	16188-SURFACE-16178-SURFACE	-2.6443	-3.0940	-2.1947	<0.0001
00400	pH (Standard Units)	LowerBasin	16805-SURFACE-16178-SURFACE	-0.5577	-0.9966	-0.1188	9e-04
00400	pH (Standard Units)	LowerBasin	17017-SURFACE-16178-SURFACE	1.0602	0.6584	1.4620	<0.0001
00400	pH (Standard Units)	LowerBasin	17020-SURFACE-16178-SURFACE	1.0099	0.6122	1.4076	<0.0001
00400	pH (Standard Units)	LowerBasin	18351-SURFACE-16178-SURFACE	0.5887	0.1909	0.9864	<0.0001
00400	pH (Standard Units)	LowerBasin	21177-SURFACE-16178-SURFACE	-0.4688	-0.9249	-0.0127	0.0353
00400	pH (Standard Units)	LowerBasin	21808-SURFACE-16178-SURFACE	0.4485	0.0096	0.8874	0.038
00400	pH (Standard Units)	LowerBasin	21809-SURFACE-16178-SURFACE	0.5079	0.0690	0.9468	0.0057
00400	pH (Standard Units)	LowerBasin	21959-BOTTOM-16178-SURFACE	-0.9465	-1.5293	-0.3637	<0.0001
00400	pH (Standard Units)	LowerBasin	16805-SURFACE-16188-SURFACE	2.0866	1.7082	2.4650	<0.0001
00400	pH (Standard Units)	LowerBasin	17017-BOTTOM-16188-SURFACE	2.7579	2.4232	3.0925	<0.0001
00400	pH (Standard Units)	LowerBasin	17017-SURFACE-16188-SURFACE	3.7045	3.3698	4.0392	<0.0001
00400	pH (Standard Units)	LowerBasin	17020-BOTTOM-16188-SURFACE	2.8497	2.5199	3.1795	<0.0001
00400	pH (Standard Units)	LowerBasin	17020-SURFACE-16188-SURFACE	3.6542	3.3244	3.9840	<0.0001
00400	pH (Standard Units)	LowerBasin	17473-SURFACE-16188-SURFACE	2.5279	2.0599	2.9958	<0.0001
00400	pH (Standard Units)	LowerBasin	18351-SURFACE-16188-SURFACE	3.2330	2.9032	3.5628	<0.0001
00400	pH (Standard Units)	LowerBasin	20809-SURFACE-16188-SURFACE	2.7679	2.3096	3.2262	<0.0001
00400	pH (Standard Units)	LowerBasin	21177-SURFACE-16188-SURFACE	2.1755	1.7773	2.5738	<0.0001
00400	pH (Standard Units)	LowerBasin	21281-BOTTOM-16188-SURFACE	2.3224	1.8020	2.8428	<0.0001
00400	pH (Standard Units)	LowerBasin	21281-SURFACE-16188-SURFACE	3.0679	2.6563	3.4794	<0.0001
00400	pH (Standard Units)	LowerBasin	21808-SURFACE-16188-SURFACE	3.0929	2.7144	3.4713	<0.0001
00400	pH (Standard Units)	LowerBasin	21809-SURFACE-16188-SURFACE	3.1522	2.7738	3.5307	<0.0001
00400	pH (Standard Units)	LowerBasin	21959-BOTTOM-16188-SURFACE	1.6979	1.1591	2.2366	<0.0001
00400	pH (Standard Units)	LowerBasin	21959-SURFACE-16188-SURFACE	2.5012	1.9966	3.0058	<0.0001

00400	pH (Standard Units)	LowerBasin	17017-BOTTOM-16805-SURFACE	0.6713	0.3511	0.9914	<0.0001
00400	pH (Standard Units)	LowerBasin	17017-SURFACE-16805-SURFACE	1.6179	1.2978	1.9380	<0.0001
00400	pH (Standard Units)	LowerBasin	17020-BOTTOM-16805-SURFACE	0.7631	0.4481	1.0781	<0.0001
00400	pH (Standard Units)	LowerBasin	17020-SURFACE-16805-SURFACE	1.5676	1.2526	1.8826	<0.0001
00400	pH (Standard Units)	LowerBasin	18351-SURFACE-16805-SURFACE	1.1464	0.8314	1.4614	<0.0001
00400	pH (Standard Units)	LowerBasin	20809-SURFACE-16805-SURFACE	0.6813	0.2335	1.1290	<0.0001
00400	pH (Standard Units)	LowerBasin	21281-SURFACE-16805-SURFACE	0.9813	0.5815	1.3810	<0.0001
00400	pH (Standard Units)	LowerBasin	21808-SURFACE-16805-SURFACE	1.0063	0.6407	1.3718	<0.0001
00400	pH (Standard Units)	LowerBasin	21809-SURFACE-16805-SURFACE	1.0656	0.7000	1.4312	<0.0001
00400	pH (Standard Units)	LowerBasin	17017-SURFACE-17017-BOTTOM	0.9467	0.6797	1.2137	<0.0001
00400	pH (Standard Units)	LowerBasin	17020-SURFACE-17017-BOTTOM	0.8964	0.6355	1.1572	<0.0001
00400	pH (Standard Units)	LowerBasin	18351-SURFACE-17017-BOTTOM	0.4752	0.2143	0.7360	<0.0001
00400	pH (Standard Units)	LowerBasin	21177-SURFACE-17017-BOTTOM	-0.5823	-0.9257	-0.2390	<0.0001
00400	pH (Standard Units)	LowerBasin	21808-SURFACE-17017-BOTTOM	0.3350	0.0149	0.6551	0.0277
00400	pH (Standard Units)	LowerBasin	21809-SURFACE-17017-BOTTOM	0.3944	0.0743	0.7145	0.0018
00400	pH (Standard Units)	LowerBasin	21959-BOTTOM-17017-BOTTOM	-1.0600	-1.5595	-0.5605	<0.0001
00400	pH (Standard Units)	LowerBasin	17020-BOTTOM-17017-SURFACE	-0.8548	-1.1157	-0.5940	<0.0001
00400	pH (Standard Units)	LowerBasin	17473-SURFACE-17017-SURFACE	-1.1767	-1.5988	-0.7545	<0.0001
00400	pH (Standard Units)	LowerBasin	18351-SURFACE-17017-SURFACE	-0.4715	-0.7324	-0.2107	<0.0001
00400	pH (Standard Units)	LowerBasin	20809-SURFACE-17017-SURFACE	-0.9367	-1.3481	-0.5252	<0.0001
00400	pH (Standard Units)	LowerBasin	21177-SURFACE-17017-SURFACE	-1.5290	-1.8723	-1.1856	<0.0001
00400	pH (Standard Units)	LowerBasin	21281-BOTTOM-17017-SURFACE	-1.3821	-1.8618	-0.9025	<0.0001
00400	pH (Standard Units)	LowerBasin	21281-SURFACE-17017-SURFACE	-0.6367	-0.9953	-0.2780	<0.0001
00400	pH (Standard Units)	LowerBasin	21808-SURFACE-17017-SURFACE	-0.6117	-0.9318	-0.2916	<0.0001
00400	pH (Standard Units)	LowerBasin	21809-SURFACE-17017-SURFACE	-0.5523	-0.8724	-0.2322	<0.0001
00400	pH (Standard Units)	LowerBasin	21959-BOTTOM-17017-SURFACE	-2.0067	-2.5062	-1.5072	<0.0001
00400	pH (Standard Units)	LowerBasin	21959-SURFACE-17017-SURFACE	-1.2033	-1.6658	-0.7409	<0.0001
00400	pH (Standard Units)	LowerBasin	17020-SURFACE-17020-BOTTOM	0.8045	0.5500	1.0591	<0.0001
00400	pH (Standard Units)	LowerBasin	18351-SURFACE-17020-BOTTOM	0.3833	0.1288	0.6379	<0.0001
00400	pH (Standard Units)	LowerBasin	21177-SURFACE-17020-BOTTOM	-0.6741	-1.0127	-0.3355	<0.0001
00400	pH (Standard Units)	LowerBasin	21281-BOTTOM-17020-BOTTOM	-0.5273	-1.0035	-0.0510	0.012
00400	pH (Standard Units)	LowerBasin	21959-BOTTOM-17020-BOTTOM	-1.1518	-1.6481	-0.6556	<0.0001

00400	pH (Standard Units)	LowerBasin	17473-SURFACE-17020-SURFACE	-1.1264	-1.5447	-0.7081	<0.0001
00400	pH (Standard Units)	LowerBasin	18351-SURFACE-17020-SURFACE	-0.4212	-0.6758	-0.1666	<0.0001
00400	pH (Standard Units)	LowerBasin	20809-SURFACE-17020-SURFACE	-0.8864	-1.2939	-0.4789	<0.0001
00400	pH (Standard Units)	LowerBasin	21177-SURFACE-17020-SURFACE	-1.4787	-1.8173	-1.1401	<0.0001
00400	pH (Standard Units)	LowerBasin	21281-BOTTOM-17020-SURFACE	-1.3318	-1.8081	-0.8556	<0.0001
00400	pH (Standard Units)	LowerBasin	21281-SURFACE-17020-SURFACE	-0.5864	-0.9405	-0.2323	<0.0001
00400	pH (Standard Units)	LowerBasin	21808-SURFACE-17020-SURFACE	-0.5614	-0.8764	-0.2464	<0.0001
00400	pH (Standard Units)	LowerBasin	21809-SURFACE-17020-SURFACE	-0.5020	-0.8170	-0.1870	<0.0001
00400	pH (Standard Units)	LowerBasin	21959-BOTTOM-17020-SURFACE	-1.9564	-2.4526	-1.4601	<0.0001
00400	pH (Standard Units)	LowerBasin	21959-SURFACE-17020-SURFACE	-1.1530	-1.6120	-0.6941	<0.0001
00400	pH (Standard Units)	LowerBasin	18351-SURFACE-17473-SURFACE	0.7052	0.2869	1.1234	<0.0001
00400	pH (Standard Units)	LowerBasin	21281-SURFACE-17473-SURFACE	0.5400	0.0547	1.0253	0.0111
00400	pH (Standard Units)	LowerBasin	21808-SURFACE-17473-SURFACE	0.5650	0.1074	1.0226	0.0017
00400	pH (Standard Units)	LowerBasin	21809-SURFACE-17473-SURFACE	0.6244	0.1668	1.0820	2e-04
00400	pH (Standard Units)	LowerBasin	21959-BOTTOM-17473-SURFACE	-0.8300	-1.4270	-0.2330	1e-04
00400	pH (Standard Units)	LowerBasin	20809-SURFACE-18351-SURFACE	-0.4652	-0.8727	-0.0576	0.0073
00400	pH (Standard Units)	LowerBasin	21177-SURFACE-18351-SURFACE	-1.0575	-1.3961	-0.7189	<0.0001
00400	pH (Standard Units)	LowerBasin	21281-BOTTOM-18351-SURFACE	-0.9106	-1.3869	-0.4344	<0.0001
00400	pH (Standard Units)	LowerBasin	21959-BOTTOM-18351-SURFACE	-1.5352	-2.0314	-1.0389	<0.0001
00400	pH (Standard Units)	LowerBasin	21959-SURFACE-18351-SURFACE	-0.7318	-1.1907	-0.2729	<0.0001
00400	pH (Standard Units)	LowerBasin	21177-SURFACE-20809-SURFACE	-0.5923	-1.0570	-0.1276	9e-04
00400	pH (Standard Units)	LowerBasin	21959-BOTTOM-20809-SURFACE	-1.0700	-1.6595	-0.4805	<0.0001
00400	pH (Standard Units)	LowerBasin	21281-SURFACE-21177-SURFACE	0.8923	0.4737	1.3109	<0.0001
00400	pH (Standard Units)	LowerBasin	21808-SURFACE-21177-SURFACE	0.9173	0.5312	1.3034	<0.0001
00400	pH (Standard Units)	LowerBasin	21809-SURFACE-21177-SURFACE	0.9767	0.5906	1.3628	<0.0001
00400	pH (Standard Units)	LowerBasin	21281-SURFACE-21281-BOTTOM	0.7455	0.2094	1.2815	1e-04
00400	pH (Standard Units)	LowerBasin	21808-SURFACE-21281-BOTTOM	0.7705	0.2593	1.2816	<0.0001
00400	pH (Standard Units)	LowerBasin	21809-SURFACE-21281-BOTTOM	0.8298	0.3187	1.3409	<0.0001
00400	pH (Standard Units)	LowerBasin	21959-BOTTOM-21281-SURFACE	-1.3700	-1.9239	-0.8161	<0.0001
00400	pH (Standard Units)	LowerBasin	21959-SURFACE-21281-SURFACE	-0.5667	-1.0874	-0.0459	0.0157
00400	pH (Standard Units)	LowerBasin	21959-BOTTOM-21808-SURFACE	-1.3950	-1.9248	-0.8652	<0.0001
00400	pH (Standard Units)	LowerBasin	21959-SURFACE-21808-SURFACE	-0.5917	-1.0867	-0.0967	0.0032

00400	pH (Standard Units)	LowerBasin	21959-BOTTOM-21809-SURFACE	-1.4544	-1.9842	-0.9246	<0.0001
00400	pH (Standard Units)	LowerBasin	21959-SURFACE-21809-SURFACE	-0.6510	-1.1461	-0.1560	4e-04
00400	pH (Standard Units)	LowerBasin	21959-SURFACE-21959-BOTTOM	0.8033	0.1772	1.4295	7e-04
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	17017-BOTTOM-12249-SURFACE	3.1807	2.2813	4.0802	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	17017-SURFACE-12249-SURFACE	1.1314	0.2239	2.0390	0.0016
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	17020-BOTTOM-12249-SURFACE	2.0315	1.1425	2.9206	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	17017-BOTTOM-12281-SURFACE	2.7562	2.1245	3.3879	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	17017-SURFACE-12281-SURFACE	0.7069	0.0637	1.3501	0.0143
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	17020-BOTTOM-12281-SURFACE	1.6070	0.9901	2.2239	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	17017-BOTTOM-12284-SURFACE	2.8542	2.2484	3.4601	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	17017-SURFACE-12284-SURFACE	0.8049	0.1871	1.4227	6e-04
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	17020-BOTTOM-12284-SURFACE	1.7050	1.1146	2.2954	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	17017-BOTTOM-12286-SURFACE	2.8716	2.2679	3.4752	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	17017-SURFACE-12286-SURFACE	0.8223	0.2066	1.4379	4e-04
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	17020-BOTTOM-12286-SURFACE	1.7224	1.1342	2.3105	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	17017-BOTTOM-12290-SURFACE	2.8490	2.2409	3.4572	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	17017-SURFACE-12290-SURFACE	0.7997	0.1797	1.4198	8e-04
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	17020-BOTTOM-12290-SURFACE	1.6998	1.1071	2.2926	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	17017-BOTTOM-12292-SURFACE	2.9543	2.3462	3.5624	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	17017-SURFACE-12292-SURFACE	0.9050	0.2849	1.5250	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	17020-BOTTOM-12292-SURFACE	1.8051	1.2124	2.3978	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	17017-BOTTOM-12293-SURFACE	3.0027	2.3968	3.6085	<0.0001

00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	17017-SURFACE-12293-SURFACE	0.9534	0.3355	1.5712	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	17020-BOTTOM-12293-SURFACE	1.8535	1.2631	2.4439	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	17017-BOTTOM-12462-SURFACE	2.9464	2.3406	3.5523	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	17017-SURFACE-12462-SURFACE	0.8971	0.2793	1.5149	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	17020-BOTTOM-12462-SURFACE	1.7972	1.2068	2.3876	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	17017-BOTTOM-16176-SURFACE	2.9616	1.9962	3.9269	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	17020-BOTTOM-16176-SURFACE	1.8124	0.8567	2.7681	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	17017-BOTTOM-16178-SURFACE	2.7922	1.8729	3.7115	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	17020-BOTTOM-16178-SURFACE	1.6430	0.7338	2.5522	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	17017-BOTTOM-16188-SURFACE	3.0992	2.3012	3.8972	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	17017-SURFACE-16188-SURFACE	1.0499	0.2427	1.8570	7e-04
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	17020-BOTTOM-16188-SURFACE	1.9500	1.1637	2.7363	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	17017-BOTTOM-16805-SURFACE	2.6562	1.8884	3.4239	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	17020-BOTTOM-16805-SURFACE	1.5070	0.7514	2.2625	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	17017-SURFACE-17017-BOTTOM	-2.0493	-2.6841	-1.4145	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	17020-BOTTOM-17017-BOTTOM	-1.1492	-1.7573	-0.5411	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	17020-SURFACE-17017-BOTTOM	-2.4233	-3.0292	-1.8174	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	17473-SURFACE-17017-BOTTOM	-2.8416	-3.8069	-1.8762	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	18351-SURFACE-17017-BOTTOM	-2.8760	-3.4818	-2.2701	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	20809-SURFACE-17017-BOTTOM	-2.7446	-3.7368	-1.7523	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	21177-SURFACE-17017-BOTTOM	-2.7640	-3.6286	-1.8995	<0.0001

00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	21281-SURFACE-17017-BOTTOM	-2.2298	-3.3703	-1.0893	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	21959-SURFACE-17017-BOTTOM	-3.0071	-4.1476	-1.8666	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	17020-BOTTOM-17017-SURFACE	0.9001	0.2801	1.5202	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	18351-SURFACE-17017-SURFACE	-0.8266	-1.4445	-0.2088	4e-04
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	17020-SURFACE-17020-BOTTOM	-1.2741	-1.8645	-0.6837	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	17473-SURFACE-17020-BOTTOM	-1.6924	-2.6481	-0.7367	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	18351-SURFACE-17020-BOTTOM	-1.7268	-2.3172	-1.1364	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	20809-SURFACE-17020-BOTTOM	-1.5954	-2.5783	-0.6125	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	21177-SURFACE-17020-BOTTOM	-1.6148	-2.4686	-0.7610	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	LowerBasin	21959-SURFACE-17020-BOTTOM	-1.8579	-2.9903	-0.7255	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	12281-SURFACE-12249-SURFACE	0.2328	0.0041	0.4614	0.0407
00665	Total Phosphorus (mg/L)	LowerBasin	12284-SURFACE-12249-SURFACE	0.2791	0.0509	0.5074	0.0027
00665	Total Phosphorus (mg/L)	LowerBasin	12286-SURFACE-12249-SURFACE	0.3407	0.1128	0.5686	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	12290-SURFACE-12249-SURFACE	0.4627	0.2348	0.6905	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	12292-SURFACE-12249-SURFACE	0.5257	0.2978	0.7536	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	12293-SURFACE-12249-SURFACE	0.6452	0.4174	0.8731	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	12462-SURFACE-12249-SURFACE	0.7668	0.5389	0.9946	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	17017-BOTTOM-12249-SURFACE	0.3659	0.1350	0.5967	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	18351-SURFACE-12249-SURFACE	0.4136	0.1857	0.6414	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	12290-SURFACE-12281-SURFACE	0.2299	0.0763	0.3834	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	12292-SURFACE-12281-SURFACE	0.2929	0.1394	0.4465	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	12293-SURFACE-12281-SURFACE	0.4125	0.2589	0.5660	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	12462-SURFACE-12281-SURFACE	0.5340	0.3804	0.6875	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	16805-SURFACE-12281-SURFACE	-0.2003	-0.3962	-0.0044	0.0386
00665	Total Phosphorus (mg/L)	LowerBasin	17017-SURFACE-12281-SURFACE	-0.1621	-0.3201	-0.0042	0.0368
00665	Total Phosphorus (mg/L)	LowerBasin	17020-SURFACE-12281-SURFACE	-0.2156	-0.3703	-0.0609	2e-04
00665	Total Phosphorus (mg/L)	LowerBasin	18351-SURFACE-12281-SURFACE	0.1808	0.0273	0.3343	0.0051

00665	Total Phosphorus (mg/L)	LowerBasin	12290-SURFACE-12284-SURFACE	0.1836	0.0306	0.3365	0.0037
00665	Total Phosphorus (mg/L)	LowerBasin	12292-SURFACE-12284-SURFACE	0.2466	0.0937	0.3995	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	12293-SURFACE-12284-SURFACE	0.3661	0.2132	0.5191	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	12462-SURFACE-12284-SURFACE	0.4877	0.3347	0.6406	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	16176-SURFACE-12284-SURFACE	-0.2715	-0.5294	-0.0136	0.0268
00665	Total Phosphorus (mg/L)	LowerBasin	16805-SURFACE-12284-SURFACE	-0.2466	-0.4421	-0.0512	0.0015
00665	Total Phosphorus (mg/L)	LowerBasin	17017-SURFACE-12284-SURFACE	-0.2085	-0.3658	-0.0511	5e-04
00665	Total Phosphorus (mg/L)	LowerBasin	17020-SURFACE-12284-SURFACE	-0.2620	-0.4161	-0.1078	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	17473-SURFACE-12284-SURFACE	-0.2751	-0.5410	-0.0092	0.0335
00665	Total Phosphorus (mg/L)	LowerBasin	21177-SURFACE-12284-SURFACE	-0.2585	-0.4782	-0.0388	0.0052
00665	Total Phosphorus (mg/L)	LowerBasin	12292-SURFACE-12286-SURFACE	0.1850	0.0326	0.3374	0.003
00665	Total Phosphorus (mg/L)	LowerBasin	12293-SURFACE-12286-SURFACE	0.3045	0.1522	0.4569	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	12462-SURFACE-12286-SURFACE	0.4261	0.2737	0.5784	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	16176-SURFACE-12286-SURFACE	-0.3331	-0.5906	-0.0756	9e-04
00665	Total Phosphorus (mg/L)	LowerBasin	16178-SURFACE-12286-SURFACE	-0.2934	-0.5373	-0.0496	0.0035
00665	Total Phosphorus (mg/L)	LowerBasin	16805-SURFACE-12286-SURFACE	-0.3082	-0.5032	-0.1132	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	17017-SURFACE-12286-SURFACE	-0.2701	-0.4269	-0.1133	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	17020-BOTTOM-12286-SURFACE	-0.1568	-0.3104	-0.0033	0.0391
00665	Total Phosphorus (mg/L)	LowerBasin	17020-SURFACE-12286-SURFACE	-0.3235	-0.4771	-0.1700	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	17473-SURFACE-12286-SURFACE	-0.3367	-0.6022	-0.0711	0.0013
00665	Total Phosphorus (mg/L)	LowerBasin	21177-SURFACE-12286-SURFACE	-0.3201	-0.5394	-0.1008	1e-04
00665	Total Phosphorus (mg/L)	LowerBasin	12293-SURFACE-12290-SURFACE	0.1826	0.0302	0.3349	0.0038
00665	Total Phosphorus (mg/L)	LowerBasin	12462-SURFACE-12290-SURFACE	0.3041	0.1517	0.4564	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	16176-SURFACE-12290-SURFACE	-0.4551	-0.7126	-0.1975	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	16178-SURFACE-12290-SURFACE	-0.4154	-0.6593	-0.1715	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	16805-SURFACE-12290-SURFACE	-0.4302	-0.6252	-0.2352	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	17017-SURFACE-12290-SURFACE	-0.3920	-0.5488	-0.2352	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	17020-BOTTOM-12290-SURFACE	-0.2788	-0.4323	-0.1253	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	17020-SURFACE-12290-SURFACE	-0.4455	-0.5990	-0.2920	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	17473-SURFACE-12290-SURFACE	-0.4586	-0.7242	-0.1931	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	20809-SURFACE-12290-SURFACE	-0.3016	-0.5520	-0.0513	0.0035
00665	Total Phosphorus (mg/L)	LowerBasin	21177-SURFACE-12290-SURFACE	-0.4421	-0.6614	-0.2228	<0.0001

00665	Total Phosphorus (mg/L)	LowerBasin	12462-SURFACE-12292-SURFACE	0.2411	0.0887	0.3934	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	16176-SURFACE-12292-SURFACE	-0.5181	-0.7756	-0.2606	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	16178-SURFACE-12292-SURFACE	-0.4784	-0.7223	-0.2346	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	16805-SURFACE-12292-SURFACE	-0.4932	-0.6882	-0.2982	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	17017-BOTTOM-12292-SURFACE	-0.1598	-0.3166	-0.0030	0.0401
00665	Total Phosphorus (mg/L)	LowerBasin	17017-SURFACE-12292-SURFACE	-0.4551	-0.6119	-0.2983	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	17020-BOTTOM-12292-SURFACE	-0.3418	-0.4954	-0.1883	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	17020-SURFACE-12292-SURFACE	-0.5085	-0.6621	-0.3550	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	17473-SURFACE-12292-SURFACE	-0.5217	-0.7872	-0.2561	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	20809-SURFACE-12292-SURFACE	-0.3646	-0.6150	-0.1143	1e-04
00665	Total Phosphorus (mg/L)	LowerBasin	21177-SURFACE-12292-SURFACE	-0.5051	-0.7244	-0.2858	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	16176-SURFACE-12293-SURFACE	-0.6376	-0.8952	-0.3801	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	16178-SURFACE-12293-SURFACE	-0.5980	-0.8419	-0.3541	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	16805-SURFACE-12293-SURFACE	-0.6128	-0.8077	-0.4178	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	17017-BOTTOM-12293-SURFACE	-0.2793	-0.4362	-0.1225	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	17017-SURFACE-12293-SURFACE	-0.5746	-0.7314	-0.4178	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	17020-BOTTOM-12293-SURFACE	-0.4614	-0.6149	-0.3078	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	17020-SURFACE-12293-SURFACE	-0.6281	-0.7816	-0.4746	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	17473-SURFACE-12293-SURFACE	-0.6412	-0.9068	-0.3756	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	18351-SURFACE-12293-SURFACE	-0.2317	-0.3840	-0.0793	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	20809-SURFACE-12293-SURFACE	-0.4842	-0.7345	-0.2339	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	21177-SURFACE-12293-SURFACE	-0.6247	-0.8439	-0.4054	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	16176-SURFACE-12462-SURFACE	-0.7592	-1.0167	-0.5016	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	16178-SURFACE-12462-SURFACE	-0.7195	-0.9634	-0.4756	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	16805-SURFACE-12462-SURFACE	-0.7343	-0.9293	-0.5393	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	17017-BOTTOM-12462-SURFACE	-0.4009	-0.5577	-0.2441	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	17017-SURFACE-12462-SURFACE	-0.6961	-0.8529	-0.5393	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	17020-BOTTOM-12462-SURFACE	-0.5829	-0.7364	-0.4293	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	17020-SURFACE-12462-SURFACE	-0.7496	-0.9031	-0.5961	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	17473-SURFACE-12462-SURFACE	-0.7627	-1.0283	-0.4972	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	18351-SURFACE-12462-SURFACE	-0.3532	-0.5055	-0.2008	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	20809-SURFACE-12462-SURFACE	-0.6057	-0.8560	-0.3554	<0.0001

00665	Total Phosphorus (mg/L)	LowerBasin	21177-SURFACE-12462-SURFACE	-0.7462	-0.9654	-0.5269	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	17017-BOTTOM-16176-SURFACE	0.3583	0.0981	0.6185	2e-04
00665	Total Phosphorus (mg/L)	LowerBasin	18351-SURFACE-16176-SURFACE	0.4060	0.1485	0.6635	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	17017-BOTTOM-16178-SURFACE	0.3186	0.0720	0.5653	9e-04
00665	Total Phosphorus (mg/L)	LowerBasin	18351-SURFACE-16178-SURFACE	0.3663	0.1224	0.6102	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	17017-BOTTOM-16805-SURFACE	0.3334	0.1349	0.5319	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	18351-SURFACE-16805-SURFACE	0.3811	0.1861	0.5761	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	17017-SURFACE-17017-BOTTOM	-0.2953	-0.4564	-0.1341	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	17020-BOTTOM-17017-BOTTOM	-0.1820	-0.3400	-0.0241	0.0073
00665	Total Phosphorus (mg/L)	LowerBasin	17020-SURFACE-17017-BOTTOM	-0.3487	-0.5067	-0.1908	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	17473-SURFACE-17017-BOTTOM	-0.3619	-0.6300	-0.0937	4e-04
00665	Total Phosphorus (mg/L)	LowerBasin	21177-SURFACE-17017-BOTTOM	-0.3453	-0.5677	-0.1229	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	18351-SURFACE-17017-SURFACE	0.3429	0.1861	0.4997	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	17020-SURFACE-17020-BOTTOM	-0.1667	-0.3214	-0.0120	0.0197
00665	Total Phosphorus (mg/L)	LowerBasin	18351-SURFACE-17020-BOTTOM	0.2297	0.0762	0.3832	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	18351-SURFACE-17020-SURFACE	0.3964	0.2429	0.5500	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	18351-SURFACE-17473-SURFACE	0.4095	0.1440	0.6751	<0.0001
00665	Total Phosphorus (mg/L)	LowerBasin	20809-SURFACE-18351-SURFACE	-0.2525	-0.5029	-0.0022	0.0453
00665	Total Phosphorus (mg/L)	LowerBasin	21177-SURFACE-18351-SURFACE	-0.3930	-0.6123	-0.1737	<0.0001
00940	Chloride (mg/L)	LowerBasin	12281-SURFACE-12249-SURFACE	1895.8924	1221.6431	2570.1417	<0.0001
00940	Chloride (mg/L)	LowerBasin	12284-SURFACE-12281-SURFACE	-1953.9485	-2404.7681	-1503.1288	<0.0001
00940	Chloride (mg/L)	LowerBasin	12286-SURFACE-12281-SURFACE	-1955.7755	-2408.3257	-1503.2253	<0.0001
00940	Chloride (mg/L)	LowerBasin	12290-SURFACE-12281-SURFACE	-1954.8288	-2405.6484	-1504.0092	<0.0001
00940	Chloride (mg/L)	LowerBasin	12292-SURFACE-12281-SURFACE	-1953.2030	-2404.0227	-1502.3834	<0.0001
00940	Chloride (mg/L)	LowerBasin	12293-SURFACE-12281-SURFACE	-1950.7909	-2403.3411	-1498.2407	<0.0001
00940	Chloride (mg/L)	LowerBasin	12462-SURFACE-12281-SURFACE	-1948.3106	-2399.1302	-1497.4910	<0.0001
00940	Chloride (mg/L)	LowerBasin	16176-SURFACE-12281-SURFACE	-1952.6391	-2693.4113	-1211.8668	<0.0001
00940	Chloride (mg/L)	LowerBasin	16178-SURFACE-12281-SURFACE	-1930.8277	-2635.2002	-1226.4552	<0.0001

00940	Chloride (mg/L)	LowerBasin	16188-SURFACE-12281-SURFACE	- 1902.1244	- 2510.3134	- 1293.9355	<0.0001
00940	Chloride (mg/L)	LowerBasin	16805-SURFACE-12281-SURFACE	- 1964.5958	- 2534.8425	- 1394.3490	<0.0001
00940	Chloride (mg/L)	LowerBasin	17017-BOTTOM-12281-SURFACE	- 1779.0591	- 2241.0118	- 1317.1064	<0.0001
00940	Chloride (mg/L)	LowerBasin	17017-SURFACE-12281-SURFACE	- 1781.7772	- 2245.7759	- 1317.7784	<0.0001
00940	Chloride (mg/L)	LowerBasin	17020-BOTTOM-12281-SURFACE	- 1819.2093	- 2271.7596	- 1366.6591	<0.0001
00940	Chloride (mg/L)	LowerBasin	17020-SURFACE-12281-SURFACE	- 1814.9324	- 2267.4827	- 1362.3822	<0.0001
00940	Chloride (mg/L)	LowerBasin	17473-SURFACE-12281-SURFACE	- 1845.4391	- 2586.2113	- 1104.6668	<0.0001
00940	Chloride (mg/L)	LowerBasin	18351-SURFACE-12281-SURFACE	- 1955.9393	- 2410.2673	- 1501.6113	<0.0001
00940	Chloride (mg/L)	LowerBasin	20809-SURFACE-12281-SURFACE	- 1870.9674	- 2592.6310	- 1149.3039	<0.0001
00940	Chloride (mg/L)	LowerBasin	21177-SURFACE-12281-SURFACE	- 1993.7487	- 2611.0589	- 1376.4385	<0.0001
00940	Chloride (mg/L)	LowerBasin	21281-SURFACE-12281-SURFACE	- 1994.2106	- 2837.6169	- 1150.8043	<0.0001
00940	Chloride (mg/L)	LowerBasin	21959-SURFACE-12281-SURFACE	- 1994.8344	- 2873.6437	- 1116.0252	<0.0001
00945	Sulfate (mg/L)	LowerBasin	12281-SURFACE-12249-SURFACE	271.0285	185.5138	356.5431	<0.0001
00945	Sulfate (mg/L)	LowerBasin	16188-SURFACE-12249-SURFACE	184.1454	84.5004	283.7904	<0.0001
00945	Sulfate (mg/L)	LowerBasin	17017-SURFACE-12249-SURFACE	105.4450	18.9417	191.9483	0.0027
00945	Sulfate (mg/L)	LowerBasin	17473-SURFACE-12249-SURFACE	258.9533	144.5202	373.3864	<0.0001
00945	Sulfate (mg/L)	LowerBasin	12284-SURFACE-12281-SURFACE	-234.8909	-293.2114	-176.5704	<0.0001
00945	Sulfate (mg/L)	LowerBasin	12286-SURFACE-12281-SURFACE	-231.5731	-290.1175	-173.0287	<0.0001
00945	Sulfate (mg/L)	LowerBasin	12290-SURFACE-12281-SURFACE	-224.8955	-283.2160	-166.5750	<0.0001
00945	Sulfate (mg/L)	LowerBasin	12292-SURFACE-12281-SURFACE	-220.9331	-279.4775	-162.3887	<0.0001
00945	Sulfate (mg/L)	LowerBasin	12293-SURFACE-12281-SURFACE	-219.7864	-278.1069	-161.4659	<0.0001
00945	Sulfate (mg/L)	LowerBasin	12462-SURFACE-12281-SURFACE	-218.5393	-277.0836	-159.9949	<0.0001
00945	Sulfate (mg/L)	LowerBasin	16176-SURFACE-12281-SURFACE	-165.5285	-261.3588	-69.6981	<0.0001
00945	Sulfate (mg/L)	LowerBasin	16178-SURFACE-12281-SURFACE	-188.9085	-284.7388	-93.0781	<0.0001
00945	Sulfate (mg/L)	LowerBasin	16188-SURFACE-12281-SURFACE	-86.8831	-164.4566	-9.3096	0.0111
00945	Sulfate (mg/L)	LowerBasin	16805-SURFACE-12281-SURFACE	-273.2472	-346.1948	-200.2995	<0.0001

00945	Sulfate (mg/L)	LowerBasin	17017-BOTTOM-12281-SURFACE	-195.7352	-255.4959	-135.9744	<0.0001
00945	Sulfate (mg/L)	LowerBasin	17017-SURFACE-12281-SURFACE	-165.5835	-225.3442	-105.8228	<0.0001
00945	Sulfate (mg/L)	LowerBasin	17020-BOTTOM-12281-SURFACE	-209.2562	-267.8006	-150.7118	<0.0001
00945	Sulfate (mg/L)	LowerBasin	17020-SURFACE-12281-SURFACE	-189.1076	-247.4281	-130.7871	<0.0001
00945	Sulfate (mg/L)	LowerBasin	18351-SURFACE-12281-SURFACE	-228.3439	-286.8883	-169.7995	<0.0001
00945	Sulfate (mg/L)	LowerBasin	20809-SURFACE-12281-SURFACE	-177.5672	-270.9256	-84.2089	<0.0001
00945	Sulfate (mg/L)	LowerBasin	21959-SURFACE-12281-SURFACE	-275.1665	-388.8541	-161.4789	<0.0001
00945	Sulfate (mg/L)	LowerBasin	16188-SURFACE-12284-SURFACE	148.0078	70.4343	225.5813	<0.0001
00945	Sulfate (mg/L)	LowerBasin	17017-SURFACE-12284-SURFACE	69.3074	9.5467	129.0682	0.0064
00945	Sulfate (mg/L)	LowerBasin	17473-SURFACE-12284-SURFACE	222.8158	126.9854	318.6461	<0.0001
00945	Sulfate (mg/L)	LowerBasin	16188-SURFACE-12286-SURFACE	144.6900	66.9480	222.4320	<0.0001
00945	Sulfate (mg/L)	LowerBasin	17017-SURFACE-12286-SURFACE	65.9896	6.0104	125.9689	0.0145
00945	Sulfate (mg/L)	LowerBasin	17473-SURFACE-12286-SURFACE	219.4979	123.5312	315.4647	<0.0001
00945	Sulfate (mg/L)	LowerBasin	16188-SURFACE-12290-SURFACE	138.0124	60.4388	215.5859	<0.0001
00945	Sulfate (mg/L)	LowerBasin	17473-SURFACE-12290-SURFACE	212.8203	116.9899	308.6507	<0.0001
00945	Sulfate (mg/L)	LowerBasin	16188-SURFACE-12292-SURFACE	134.0500	56.3080	211.7920	<0.0001
00945	Sulfate (mg/L)	LowerBasin	17473-SURFACE-12292-SURFACE	208.8579	112.8912	304.8247	<0.0001
00945	Sulfate (mg/L)	LowerBasin	16188-SURFACE-12293-SURFACE	132.9033	55.3297	210.4768	<0.0001
00945	Sulfate (mg/L)	LowerBasin	17473-SURFACE-12293-SURFACE	207.7112	111.8808	303.5416	<0.0001
00945	Sulfate (mg/L)	LowerBasin	16188-SURFACE-12462-SURFACE	131.6562	53.9142	209.3981	<0.0001
00945	Sulfate (mg/L)	LowerBasin	17473-SURFACE-12462-SURFACE	206.4641	110.4973	302.4309	<0.0001
00945	Sulfate (mg/L)	LowerBasin	16805-SURFACE-16176-SURFACE	-107.7187	-213.0920	-2.3454	0.0386
00945	Sulfate (mg/L)	LowerBasin	17473-SURFACE-16176-SURFACE	153.4533	31.1192	275.7875	0.0016
00945	Sulfate (mg/L)	LowerBasin	17473-SURFACE-16178-SURFACE	176.8333	54.4992	299.1675	1e-04
00945	Sulfate (mg/L)	LowerBasin	16805-SURFACE-16188-SURFACE	-186.3641	-275.4580	-97.2702	<0.0001
00945	Sulfate (mg/L)	LowerBasin	17017-BOTTOM-16188-SURFACE	-108.8521	-187.5141	-30.1900	2e-04
00945	Sulfate (mg/L)	LowerBasin	17017-SURFACE-16188-SURFACE	-78.7004	-157.3624	-0.0384	0.0497
00945	Sulfate (mg/L)	LowerBasin	17020-BOTTOM-16188-SURFACE	-122.3731	-200.1151	-44.6311	<0.0001
00945	Sulfate (mg/L)	LowerBasin	17020-SURFACE-16188-SURFACE	-102.2245	-179.7980	-24.6510	6e-04
00945	Sulfate (mg/L)	LowerBasin	18351-SURFACE-16188-SURFACE	-141.4608	-219.2027	-63.7188	<0.0001
00945	Sulfate (mg/L)	LowerBasin	21959-SURFACE-16188-SURFACE	-188.2834	-312.9479	-63.6189	<0.0001
00945	Sulfate (mg/L)	LowerBasin	17017-BOTTOM-16805-SURFACE	77.5120	3.4079	151.6162	0.0289

00945	Sulfate (mg/L)	LowerBasin	17017-SURFACE-16805-SURFACE	107.6637	33.5596	181.7678	1e-04
00945	Sulfate (mg/L)	LowerBasin	17020-SURFACE-16805-SURFACE	84.1396	11.1920	157.0873	0.007
00945	Sulfate (mg/L)	LowerBasin	17473-SURFACE-16805-SURFACE	261.1720	155.7987	366.5454	<0.0001
00945	Sulfate (mg/L)	LowerBasin	17473-SURFACE-17017-BOTTOM	183.6600	86.9464	280.3736	<0.0001
00945	Sulfate (mg/L)	LowerBasin	17473-SURFACE-17017-SURFACE	153.5083	56.7947	250.2219	<0.0001
00945	Sulfate (mg/L)	LowerBasin	18351-SURFACE-17017-SURFACE	-62.7604	-122.7396	-2.7811	0.0288
00945	Sulfate (mg/L)	LowerBasin	17473-SURFACE-17020-BOTTOM	197.1810	101.2142	293.1478	<0.0001
00945	Sulfate (mg/L)	LowerBasin	17473-SURFACE-17020-SURFACE	177.0324	81.2021	272.8628	<0.0001
00945	Sulfate (mg/L)	LowerBasin	18351-SURFACE-17473-SURFACE	-216.2687	-312.2355	-120.3019	<0.0001
00945	Sulfate (mg/L)	LowerBasin	20809-SURFACE-17473-SURFACE	-165.4921	-285.8996	-45.0846	2e-04
00945	Sulfate (mg/L)	LowerBasin	21959-SURFACE-17473-SURFACE	-263.0913	-399.8650	-126.3176	<0.0001
31699	E. coli (MPN/100mL)	LowerBasin	17017-SURFACE-16178-SURFACE	-534.0897	-1033.7189	-34.4606	0.0223
31699	E. coli (MPN/100mL)	LowerBasin	17020-SURFACE-16178-SURFACE	-530.0615	-1026.2568	-33.8663	0.0224
31699	E. coli (MPN/100mL)	LowerBasin	21177-SURFACE-17017-SURFACE	492.2971	91.7689	892.8253	0.0025
31699	E. coli (MPN/100mL)	LowerBasin	21177-SURFACE-17020-SURFACE	488.2689	92.0325	884.5053	0.0024
00078	Secchi disc (m)	LowerBasin	17017-SURFACE-12281-SURFACE	0.6270	0.1528	1.1011	0.0012
00078	Secchi disc (m)	LowerBasin	17020-SURFACE-12281-SURFACE	0.9738	0.5039	1.4437	<0.0001
00078	Secchi disc (m)	LowerBasin	21959-SURFACE-12281-SURFACE	0.7130	0.0937	1.3323	0.0102
00078	Secchi disc (m)	LowerBasin	17017-SURFACE-12284-SURFACE	0.6120	0.1378	1.0861	0.0019
00078	Secchi disc (m)	LowerBasin	17020-SURFACE-12284-SURFACE	0.9588	0.4889	1.4287	<0.0001
00078	Secchi disc (m)	LowerBasin	21959-SURFACE-12284-SURFACE	0.6980	0.0787	1.3173	0.0134
00078	Secchi disc (m)	LowerBasin	17017-SURFACE-16178-SURFACE	0.5330	0.1319	0.9341	0.0011
00078	Secchi disc (m)	LowerBasin	17020-SURFACE-16178-SURFACE	0.8798	0.4837	1.2758	<0.0001
00078	Secchi disc (m)	LowerBasin	21959-SURFACE-16178-SURFACE	0.6190	0.0537	1.1843	0.019
00078	Secchi disc (m)	LowerBasin	17020-SURFACE-16188-SURFACE	0.7231	0.3270	1.1192	<0.0001
00078	Secchi disc (m)	LowerBasin	17017-SURFACE-16805-SURFACE	0.4672	0.1485	0.7858	2e-04
00078	Secchi disc (m)	LowerBasin	17020-SURFACE-16805-SURFACE	0.8140	0.5017	1.1263	<0.0001
00078	Secchi disc (m)	LowerBasin	21959-SURFACE-16805-SURFACE	0.5532	0.0431	1.0633	0.0213
00078	Secchi disc (m)	LowerBasin	17020-SURFACE-17017-SURFACE	0.3468	0.0976	0.5960	5e-04
00078	Secchi disc (m)	LowerBasin	21177-SURFACE-17017-SURFACE	-0.5616	-0.9028	-0.2204	<0.0001
00078	Secchi disc (m)	LowerBasin	20809-SURFACE-17020-SURFACE	-0.6198	-1.0158	-0.2237	<0.0001

00078	Secchi disc (m)	LowerBasin	21177-SURFACE-17020-SURFACE	-0.9084	-1.2437	-0.5731	<0.0001
00078	Secchi disc (m)	LowerBasin	21959-SURFACE-21177-SURFACE	0.6476	0.1231	1.1721	0.0038
00530	Total Suspended Solids (mg/L)	LowerBasin	17017-BOTTOM-12284-SURFACE	-65.1323	-114.7321	-15.5324	7e-04
00530	Total Suspended Solids (mg/L)	LowerBasin	17017-SURFACE-12284-SURFACE	-63.1039	-112.7038	-13.5041	0.0014
00530	Total Suspended Solids (mg/L)	LowerBasin	12293-SURFACE-12286-SURFACE	-55.5424	-103.9469	-7.1379	0.0083
00530	Total Suspended Solids (mg/L)	LowerBasin	16188-SURFACE-12286-SURFACE	-77.5929	-141.1158	-14.0700	0.003
00530	Total Suspended Solids (mg/L)	LowerBasin	16805-SURFACE-12286-SURFACE	-71.6976	-132.2422	-11.1530	0.005
00530	Total Suspended Solids (mg/L)	LowerBasin	17017-BOTTOM-12286-SURFACE	-82.2005	-131.8003	-32.6006	<0.0001
00530	Total Suspended Solids (mg/L)	LowerBasin	17017-SURFACE-12286-SURFACE	-80.1721	-129.7720	-30.5723	<0.0001
00530	Total Suspended Solids (mg/L)	LowerBasin	21177-SURFACE-12286-SURFACE	-75.6186	-142.9476	-8.2897	0.0114
00610	Ammonia (mg/L)	LowerBasin	17017-BOTTOM-12281-SURFACE	2.3400	1.7291	2.9509	<0.0001
00610	Ammonia (mg/L)	LowerBasin	17020-BOTTOM-12281-SURFACE	1.4608	0.8648	2.0567	<0.0001
00610	Ammonia (mg/L)	LowerBasin	17017-BOTTOM-12284-SURFACE	2.3642	1.7555	2.9729	<0.0001
00610	Ammonia (mg/L)	LowerBasin	17020-BOTTOM-12284-SURFACE	1.4850	0.8913	2.0787	<0.0001
00610	Ammonia (mg/L)	LowerBasin	17017-BOTTOM-12290-SURFACE	2.3839	1.7752	2.9926	<0.0001
00610	Ammonia (mg/L)	LowerBasin	17020-BOTTOM-12290-SURFACE	1.5047	0.9110	2.0984	<0.0001
00610	Ammonia (mg/L)	LowerBasin	17017-BOTTOM-12292-SURFACE	2.3849	1.7740	2.9958	<0.0001
00610	Ammonia (mg/L)	LowerBasin	17020-BOTTOM-12292-SURFACE	1.5057	0.9097	2.1016	<0.0001
00610	Ammonia (mg/L)	LowerBasin	17017-BOTTOM-12293-SURFACE	2.3878	1.7769	2.9987	<0.0001
00610	Ammonia (mg/L)	LowerBasin	17020-BOTTOM-12293-SURFACE	1.5086	0.9127	2.1046	<0.0001
00610	Ammonia (mg/L)	LowerBasin	17017-BOTTOM-12462-SURFACE	2.3790	1.7703	2.9877	<0.0001
00610	Ammonia (mg/L)	LowerBasin	17020-BOTTOM-12462-SURFACE	1.4998	0.9061	2.0935	<0.0001
00610	Ammonia (mg/L)	LowerBasin	17017-BOTTOM-16188-SURFACE	2.2066	1.3433	3.0699	<0.0001
00610	Ammonia (mg/L)	LowerBasin	17020-BOTTOM-16188-SURFACE	1.3274	0.4746	2.1802	<0.0001
00610	Ammonia (mg/L)	LowerBasin	17017-BOTTOM-16805-SURFACE	2.2649	1.2240	3.3058	<0.0001
00610	Ammonia (mg/L)	LowerBasin	17020-BOTTOM-16805-SURFACE	1.3857	0.3535	2.4179	6e-04
00610	Ammonia (mg/L)	LowerBasin	17017-SURFACE-17017-BOTTOM	-2.3816	-3.0045	-1.7587	<0.0001
00610	Ammonia (mg/L)	LowerBasin	17020-BOTTOM-17017-BOTTOM	-0.8792	-1.4901	-0.2683	1e-04

00610	Ammonia (mg/L)	LowerBasin	17020-SURFACE-17017-BOTTOM	-2.3889	-2.9998	-1.7780	<0.0001
00610	Ammonia (mg/L)	LowerBasin	18351-SURFACE-17017-BOTTOM	-2.3871	-2.9958	-1.7783	<0.0001
00610	Ammonia (mg/L)	LowerBasin	20809-SURFACE-17017-BOTTOM	-2.2276	-3.2100	-1.2452	<0.0001
00610	Ammonia (mg/L)	LowerBasin	17020-BOTTOM-17017-SURFACE	1.5024	0.8942	2.1107	<0.0001
00610	Ammonia (mg/L)	LowerBasin	17020-SURFACE-17020-BOTTOM	-1.5097	-2.1056	-0.9137	<0.0001
00610	Ammonia (mg/L)	LowerBasin	18351-SURFACE-17020-BOTTOM	-1.5079	-2.1016	-0.9142	<0.0001
00610	Ammonia (mg/L)	LowerBasin	20809-SURFACE-17020-BOTTOM	-1.3484	-2.3216	-0.3752	3e-04
00620	Nitrate (mg/L)	LowerBasin	12290-SURFACE-12281-SURFACE	1.5897	0.5039	2.6754	1e-04
00620	Nitrate (mg/L)	LowerBasin	12292-SURFACE-12281-SURFACE	2.1786	1.0928	3.2644	<0.0001
00620	Nitrate (mg/L)	LowerBasin	12293-SURFACE-12281-SURFACE	3.0645	1.9788	4.1503	<0.0001
00620	Nitrate (mg/L)	LowerBasin	12462-SURFACE-12281-SURFACE	3.9461	2.8603	5.0319	<0.0001
00620	Nitrate (mg/L)	LowerBasin	18351-SURFACE-12281-SURFACE	1.1272	0.0414	2.2129	0.0332
00620	Nitrate (mg/L)	LowerBasin	20809-SURFACE-12281-SURFACE	2.2323	0.4974	3.9671	0.0014
00620	Nitrate (mg/L)	LowerBasin	12290-SURFACE-12284-SURFACE	1.2905	0.2398	2.3412	0.0032
00620	Nitrate (mg/L)	LowerBasin	12292-SURFACE-12284-SURFACE	1.8794	0.8287	2.9301	<0.0001
00620	Nitrate (mg/L)	LowerBasin	12293-SURFACE-12284-SURFACE	2.7653	1.7147	3.8160	<0.0001
00620	Nitrate (mg/L)	LowerBasin	12462-SURFACE-12284-SURFACE	3.6469	2.5962	4.6976	<0.0001
00620	Nitrate (mg/L)	LowerBasin	17017-BOTTOM-12284-SURFACE	-1.3114	-2.4545	-0.1684	0.0092
00620	Nitrate (mg/L)	LowerBasin	17017-SURFACE-12284-SURFACE	-1.3636	-2.4319	-0.2953	0.0016
00620	Nitrate (mg/L)	LowerBasin	20809-SURFACE-12284-SURFACE	1.9331	0.2200	3.6462	0.0116
00620	Nitrate (mg/L)	LowerBasin	12292-SURFACE-12286-SURFACE	1.5039	0.4493	2.5586	2e-04
00620	Nitrate (mg/L)	LowerBasin	12293-SURFACE-12286-SURFACE	2.3899	1.3352	3.4445	<0.0001
00620	Nitrate (mg/L)	LowerBasin	12462-SURFACE-12286-SURFACE	3.2714	2.2168	4.3261	<0.0001
00620	Nitrate (mg/L)	LowerBasin	16188-SURFACE-12286-SURFACE	-1.6608	-3.1641	-0.1575	0.0155
00620	Nitrate (mg/L)	LowerBasin	17017-BOTTOM-12286-SURFACE	-1.6869	-2.8336	-0.5402	1e-04
00620	Nitrate (mg/L)	LowerBasin	17017-SURFACE-12286-SURFACE	-1.7391	-2.8113	-0.6668	<0.0001
00620	Nitrate (mg/L)	LowerBasin	12293-SURFACE-12290-SURFACE	1.4748	0.4161	2.5336	3e-04
00620	Nitrate (mg/L)	LowerBasin	12462-SURFACE-12290-SURFACE	2.3564	1.2977	3.4151	<0.0001
00620	Nitrate (mg/L)	LowerBasin	16188-SURFACE-12290-SURFACE	-2.5758	-4.0820	-1.0697	<0.0001
00620	Nitrate (mg/L)	LowerBasin	16805-SURFACE-12290-SURFACE	-2.6305	-4.5145	-0.7465	3e-04
00620	Nitrate (mg/L)	LowerBasin	17017-BOTTOM-12290-SURFACE	-2.6019	-3.7524	-1.4515	<0.0001
00620	Nitrate (mg/L)	LowerBasin	17017-SURFACE-12290-SURFACE	-2.6541	-3.7303	-1.5778	<0.0001

00620	Nitrate (mg/L)	LowerBasin	12462-SURFACE-12292-SURFACE	1.7675	0.7088	2.8262	<0.0001
00620	Nitrate (mg/L)	LowerBasin	16178-SURFACE-12292-SURFACE	-2.2472	-3.9653	-0.5292	0.001
00620	Nitrate (mg/L)	LowerBasin	16188-SURFACE-12292-SURFACE	-3.1647	-4.6709	-1.6586	<0.0001
00620	Nitrate (mg/L)	LowerBasin	16805-SURFACE-12292-SURFACE	-3.2194	-5.1034	-1.3354	<0.0001
00620	Nitrate (mg/L)	LowerBasin	17017-BOTTOM-12292-SURFACE	-3.1908	-4.3413	-2.0404	<0.0001
00620	Nitrate (mg/L)	LowerBasin	17017-SURFACE-12292-SURFACE	-3.2430	-4.3192	-2.1668	<0.0001
00620	Nitrate (mg/L)	LowerBasin	16178-SURFACE-12293-SURFACE	-3.1332	-4.8512	-1.4151	<0.0001
00620	Nitrate (mg/L)	LowerBasin	16188-SURFACE-12293-SURFACE	-4.0507	-5.5568	-2.5445	<0.0001
00620	Nitrate (mg/L)	LowerBasin	16805-SURFACE-12293-SURFACE	-4.1054	-5.9894	-2.2213	<0.0001
00620	Nitrate (mg/L)	LowerBasin	17017-BOTTOM-12293-SURFACE	-4.0768	-5.2273	-2.9263	<0.0001
00620	Nitrate (mg/L)	LowerBasin	17017-SURFACE-12293-SURFACE	-4.1289	-5.2051	-3.0527	<0.0001
00620	Nitrate (mg/L)	LowerBasin	18351-SURFACE-12293-SURFACE	-1.9373	-2.9961	-0.8786	<0.0001
00620	Nitrate (mg/L)	LowerBasin	16178-SURFACE-12462-SURFACE	-4.0147	-5.7328	-2.2967	<0.0001
00620	Nitrate (mg/L)	LowerBasin	16188-SURFACE-12462-SURFACE	-4.9322	-6.4384	-3.4261	<0.0001
00620	Nitrate (mg/L)	LowerBasin	16805-SURFACE-12462-SURFACE	-4.9869	-6.8709	-3.1029	<0.0001
00620	Nitrate (mg/L)	LowerBasin	17017-BOTTOM-12462-SURFACE	-4.9583	-6.1088	-3.8079	<0.0001
00620	Nitrate (mg/L)	LowerBasin	17017-SURFACE-12462-SURFACE	-5.0105	-6.0867	-3.9343	<0.0001
00620	Nitrate (mg/L)	LowerBasin	18351-SURFACE-12462-SURFACE	-2.8189	-3.8776	-1.7602	<0.0001
00620	Nitrate (mg/L)	LowerBasin	20809-SURFACE-16178-SURFACE	2.3009	0.1140	4.4878	0.0285
00620	Nitrate (mg/L)	LowerBasin	18351-SURFACE-16188-SURFACE	2.1133	0.6072	3.6195	2e-04
00620	Nitrate (mg/L)	LowerBasin	20809-SURFACE-16188-SURFACE	3.2184	1.1938	5.2431	<0.0001
00620	Nitrate (mg/L)	LowerBasin	18351-SURFACE-16805-SURFACE	2.1680	0.2840	4.0520	0.0088
00620	Nitrate (mg/L)	LowerBasin	20809-SURFACE-16805-SURFACE	3.2731	0.9536	5.5927	2e-04
00620	Nitrate (mg/L)	LowerBasin	18351-SURFACE-17017-BOTTOM	2.1394	0.9890	3.2899	<0.0001
00620	Nitrate (mg/L)	LowerBasin	20809-SURFACE-17017-BOTTOM	3.2445	1.4685	5.0206	<0.0001
00620	Nitrate (mg/L)	LowerBasin	18351-SURFACE-17017-SURFACE	2.1916	1.1153	3.2678	<0.0001
00620	Nitrate (mg/L)	LowerBasin	20809-SURFACE-17017-SURFACE	3.2967	1.5678	5.0256	<0.0001
70953	Chlorophyll-a (µg/L)	LowerBasin	12293-SURFACE-12284-SURFACE	-25.5664	-49.6655	-1.4672	0.0248
70953	Chlorophyll-a (µg/L)	LowerBasin	12462-SURFACE-12284-SURFACE	-26.4315	-50.5307	-2.3324	0.016
70953	Chlorophyll-a (µg/L)	LowerBasin	12293-SURFACE-12286-SURFACE	-26.8315	-50.9307	-2.7324	0.0129
70953	Chlorophyll-a (µg/L)	LowerBasin	12462-SURFACE-12286-SURFACE	-27.6967	-51.7958	-3.5975	0.0081
70953	Chlorophyll-a (µg/L)	LowerBasin	17017-SURFACE-12292-SURFACE	31.9455	7.1609	56.7300	0.0011

70953	Chlorophyll-a (µg/L)	LowerBasin	17017-SURFACE-12293-SURFACE	40.1064	15.4121	64.8006	<0.0001
70953	Chlorophyll-a (µg/L)	LowerBasin	17017-SURFACE-12462-SURFACE	40.9715	16.2772	65.6658	<0.0001
70953	Chlorophyll-a (µg/L)	LowerBasin	18351-SURFACE-12462-SURFACE	24.8845	0.7854	48.9837	0.0346
70953	Chlorophyll-a (µg/L)	LowerBasin	17017-SURFACE-16805-SURFACE	35.0787	3.3943	66.7631	0.014
70953	Chlorophyll-a (µg/L)	LowerBasin	21177-SURFACE-17017-SURFACE	-36.3389	-69.2940	-3.3839	0.0148