

# North Fork St. Lucie Aquatic Preserve

## SEACAR Discrete Water Quality Analysis

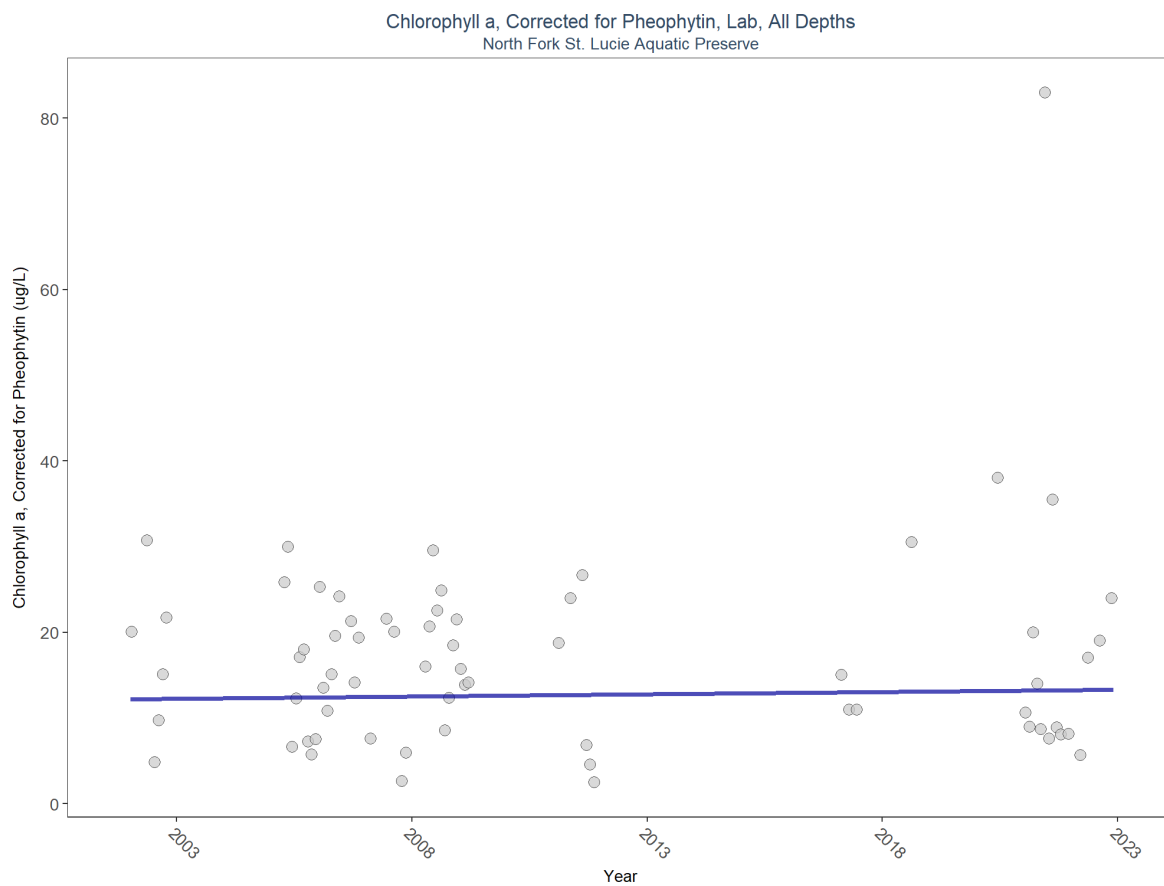
Last compiled on 26 June, 2024

### Contents

<b>Parameters</b>	<b>2</b>
Chlorophyll a, Corrected for Pheophytin . . . . .	2
Chlorophyll a, Uncorrected for Pheophytin . . . . .	3
Dissolved Oxygen . . . . .	4
pH . . . . .	5
Salinity . . . . .	6
Secchi Depth . . . . .	7
Total Nitrogen . . . . .	8
Total Phosphorus . . . . .	9
Total Suspended Solids . . . . .	10
Turbidity . . . . .	11
Water Temperature . . . . .	12

# Parameters

## Chlorophyll a, Corrected for Pheophytin

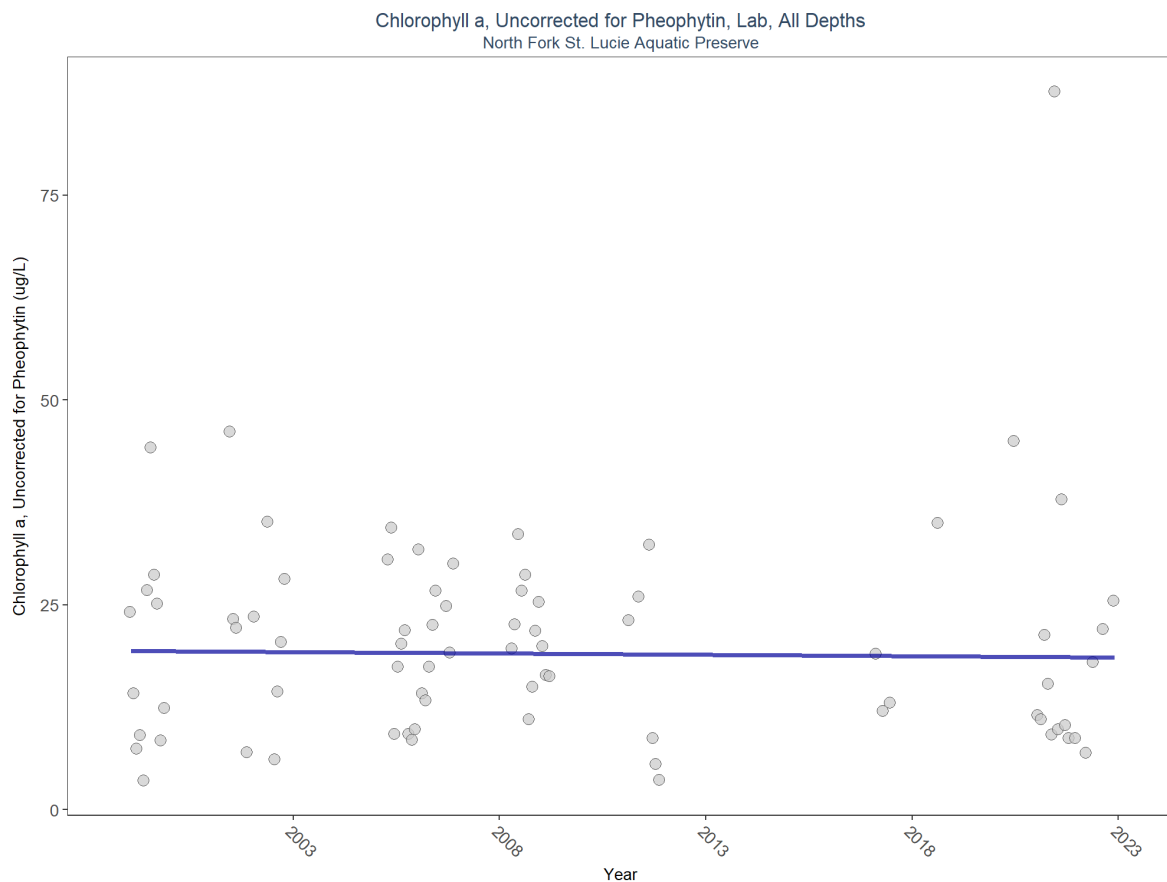


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	340	12	12	TRUE	-0.0018	0.8256	0.0525	12.23563	19.9408	0.0462	0

$p < 0.00005$  appear as 0 due to rounding.

SennIntercept is intercept value at beginning of  
record for monitoring location

## Chlorophyll a, Uncorrected for Pheophytin

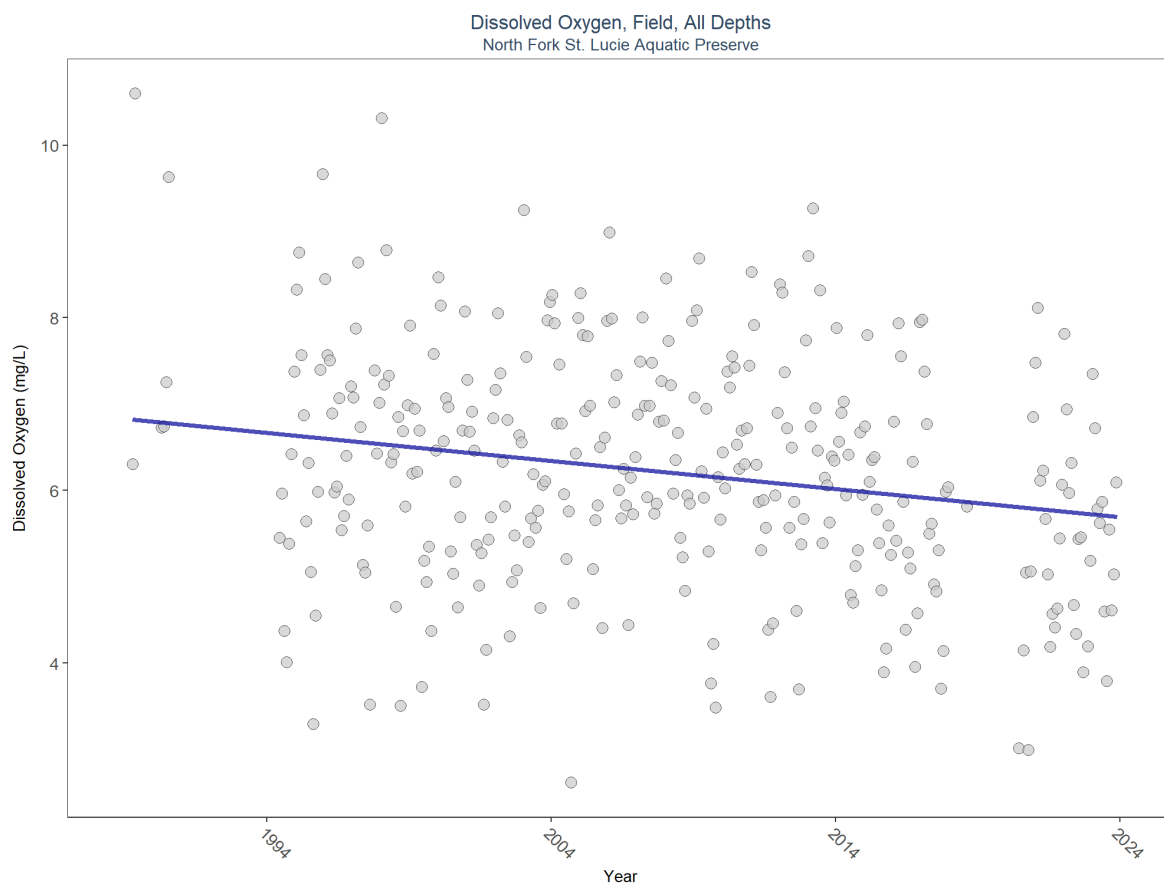


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	374	13	15	TRUE	-0.077	0.7143	-0.03125	19.33548	11.1221	0.4331	0

$p < 0.00005$  appear as 0 due to rounding.

*SennIntercept* is intercept value at beginning of record for monitoring location

# Dissolved Oxygen

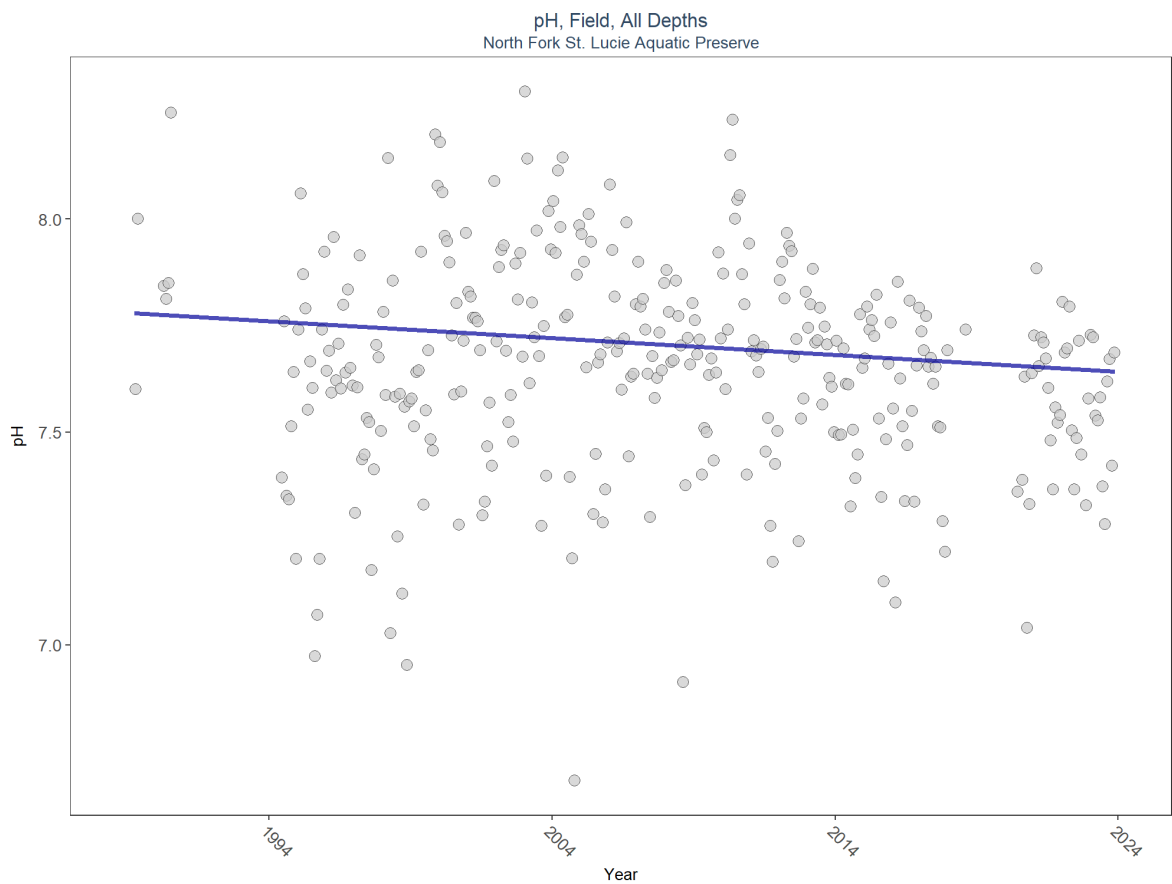


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	5937	31	6.2	TRUE	-0.2037	0.0000	-0.03242844	6.828684	12.6766	0.315	-1

$p < 0.00005$  appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

pH

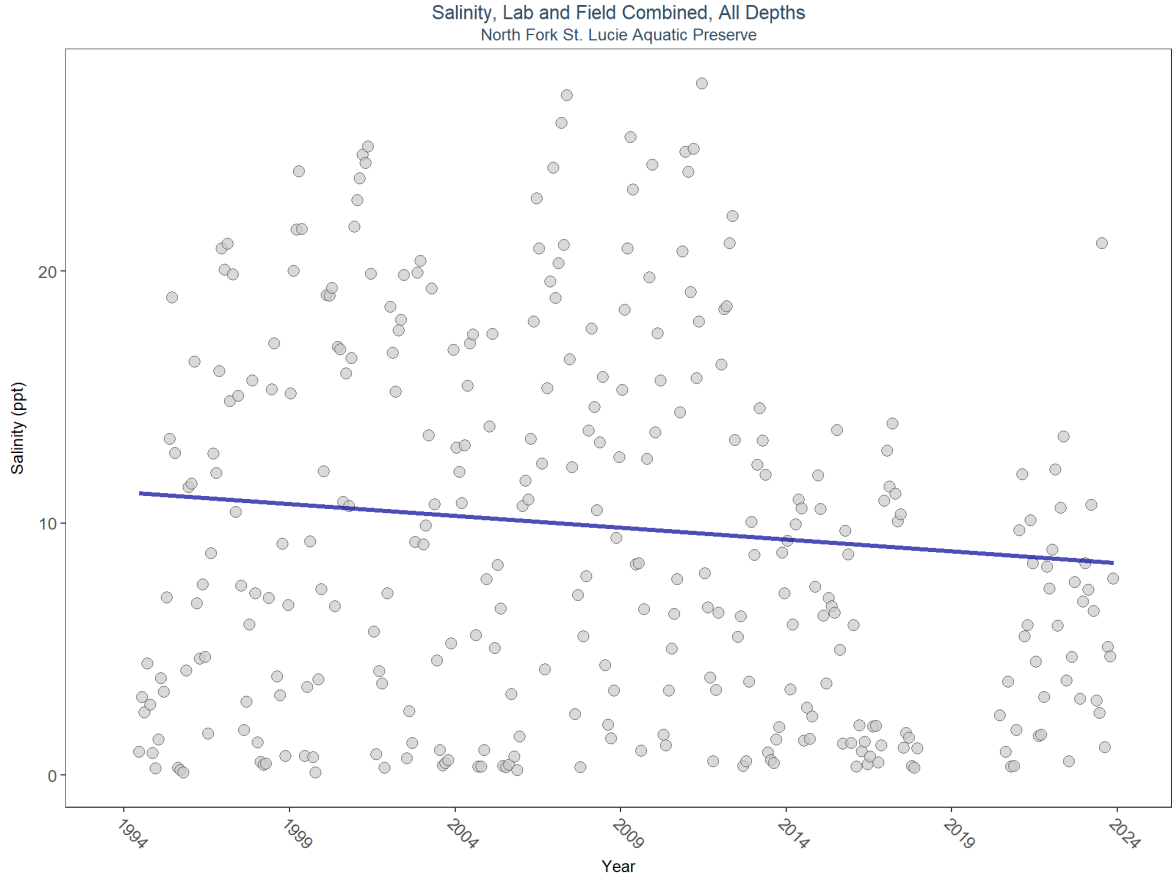


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	6010	31	7.64	TRUE	-0.1104	0.0059	-0.003951613	7.779635	9.1821	0.6051	-1

*p < 0.00005 appear as 0 due to rounding.*

*SennIntercept is intercept value at beginning of  
record for monitoring location*

Salinity

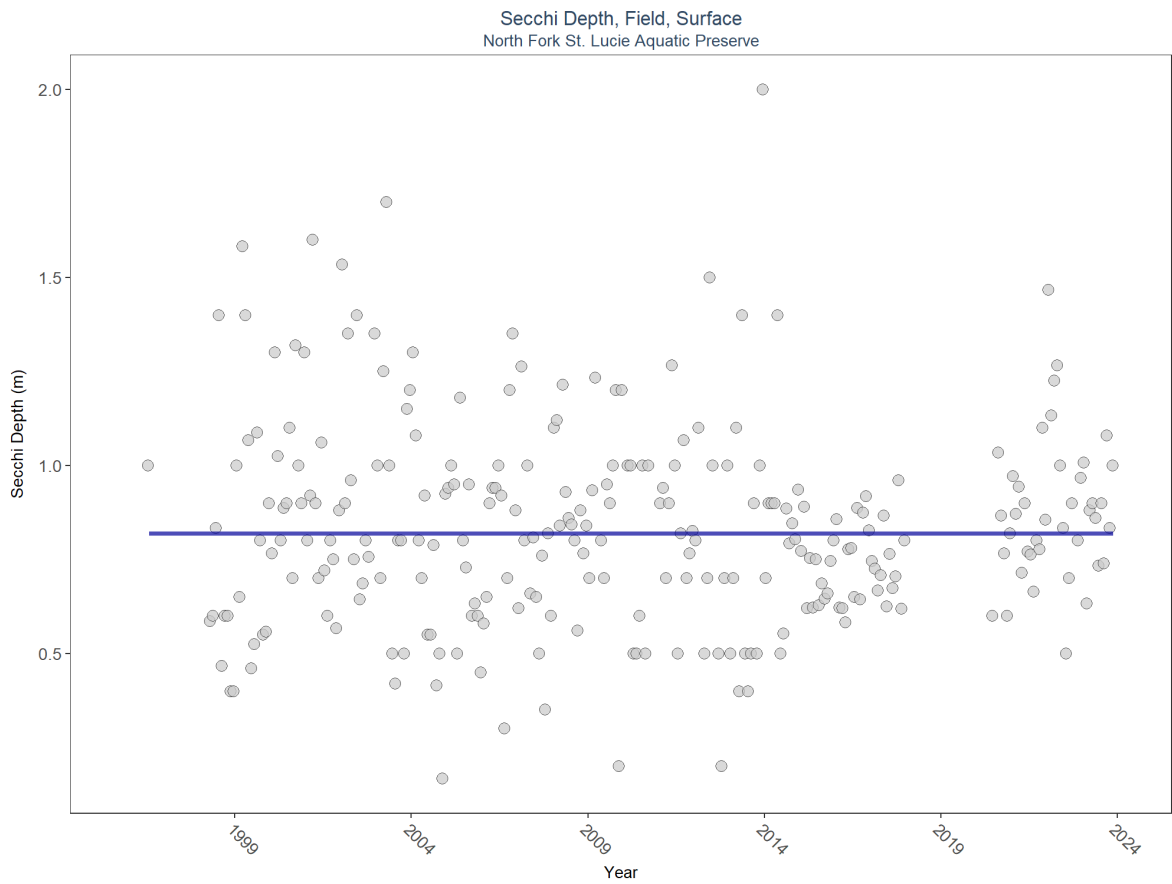


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	5436	28	5.405	TRUE	-0.1193	0.0029	-0.09384665	11.22008	3.4062	0.9842	-1

*p < 0.00005 appear as 0 due to rounding.*

*SennIntercept is intercept value at beginning of  
record for monitoring location*

Secchi Depth

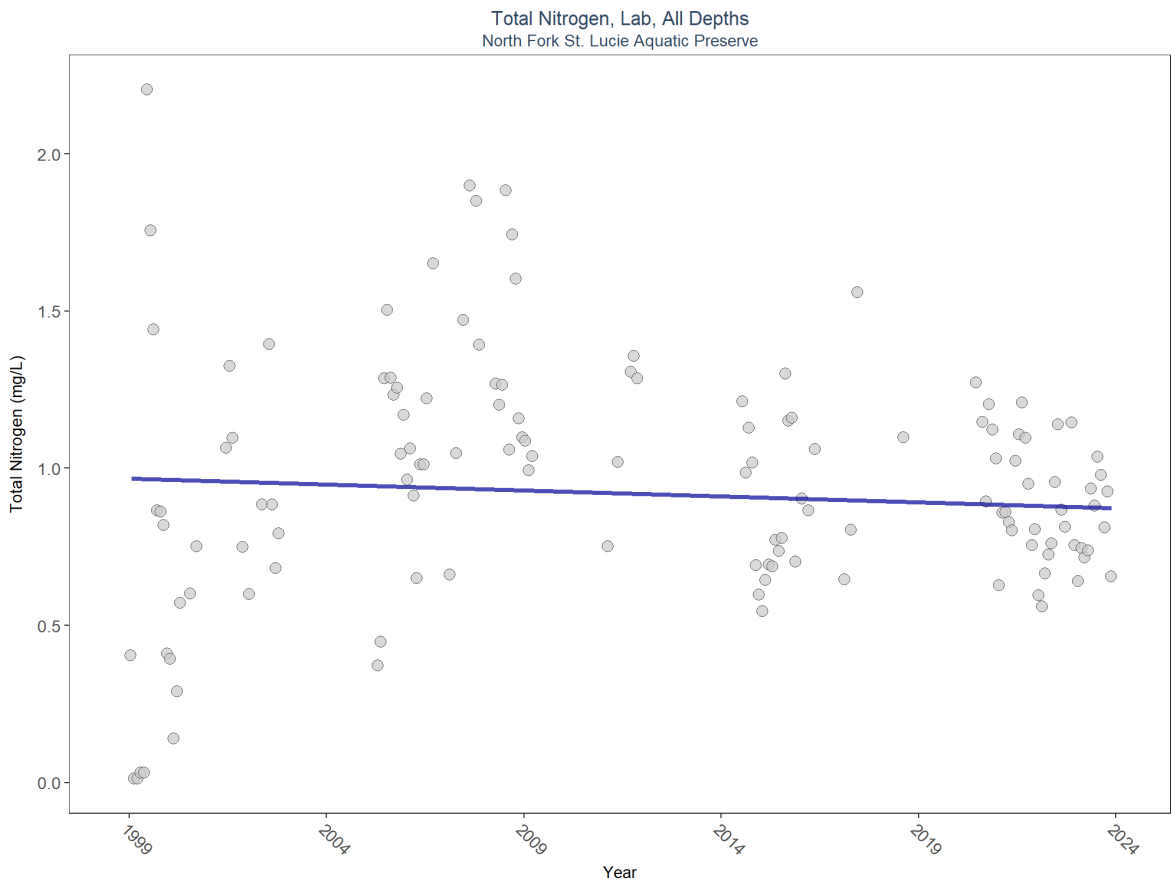


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
Surface	1610	25	0.8	TRUE	-0.0227	0.6425	0	0.8192208	13.2426	0.2778	0

*p < 0.00005 appear as 0 due to rounding.*

*SennIntercept is intercept value at beginning of  
record for monitoring location*

Total Nitrogen



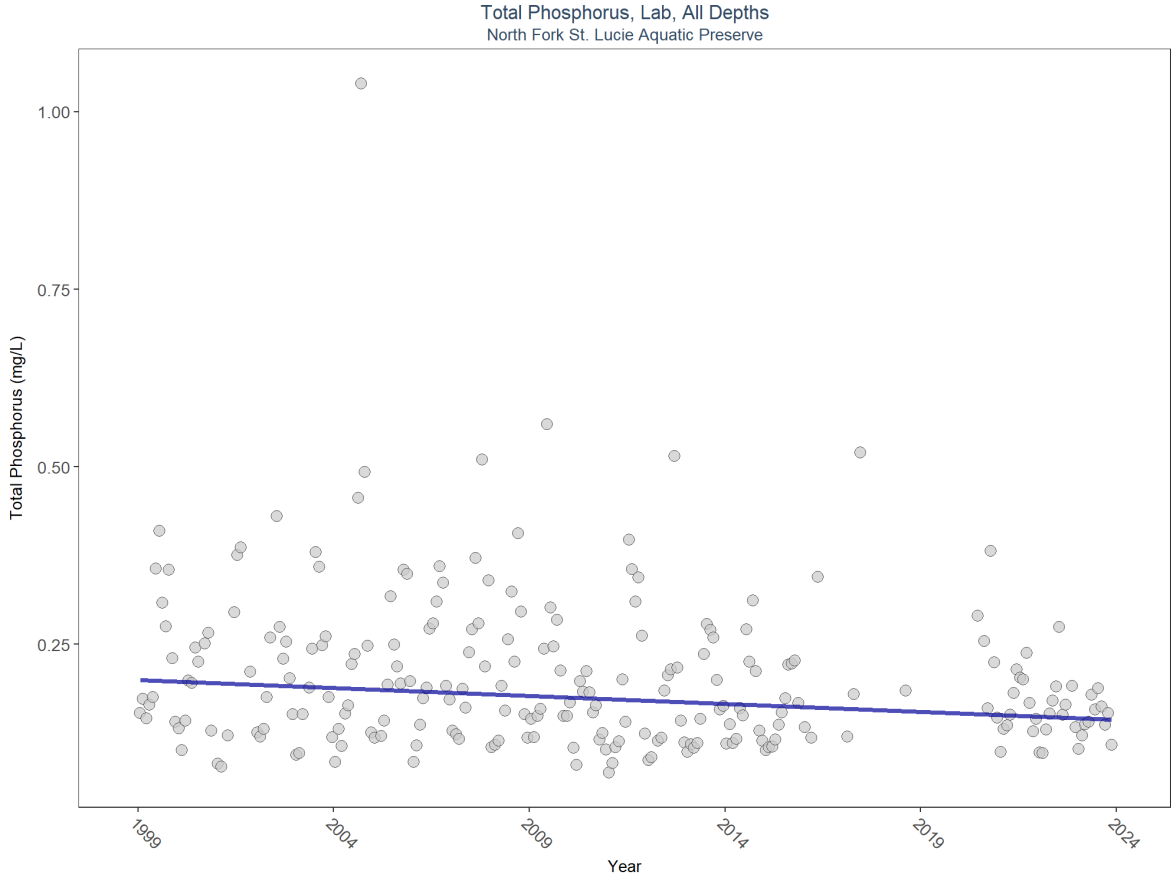
RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	528	19	1.005	TRUE	-0.0482	0.3706	-0.003763889	0.9670951	13.1555	0.2833	0

*p < 0.00005 appear as 0 due to rounding.*

*SennIntercept is intercept value at beginning of  
record for monitoring location*



Total Phosphorus

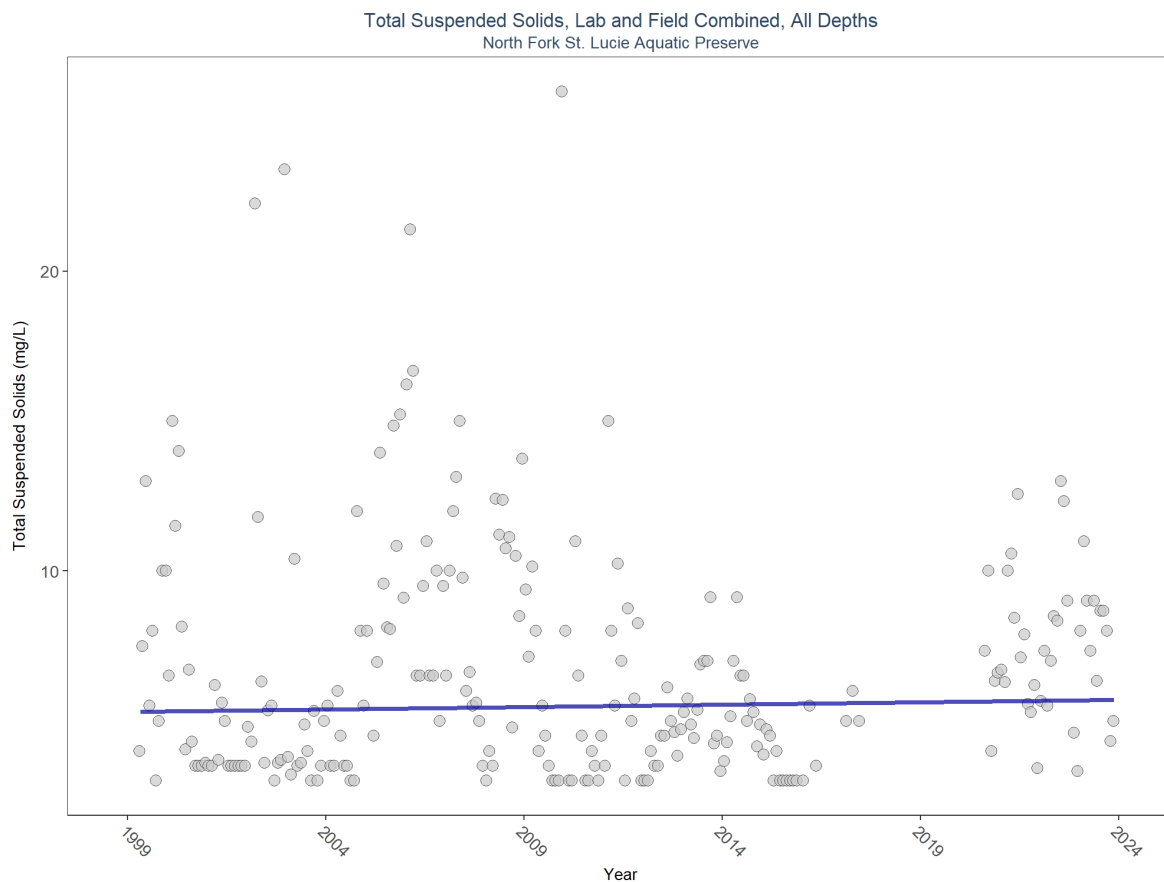


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	989	24	0.18	TRUE	-0.2441	0.0000	-0.00225	0.1999496	9.8286	0.5459	-1

*p < 0.00005 appear as 0 due to rounding.*

*SennIntercept is intercept value at beginning of  
record for monitoring location*

## Total Suspended Solids

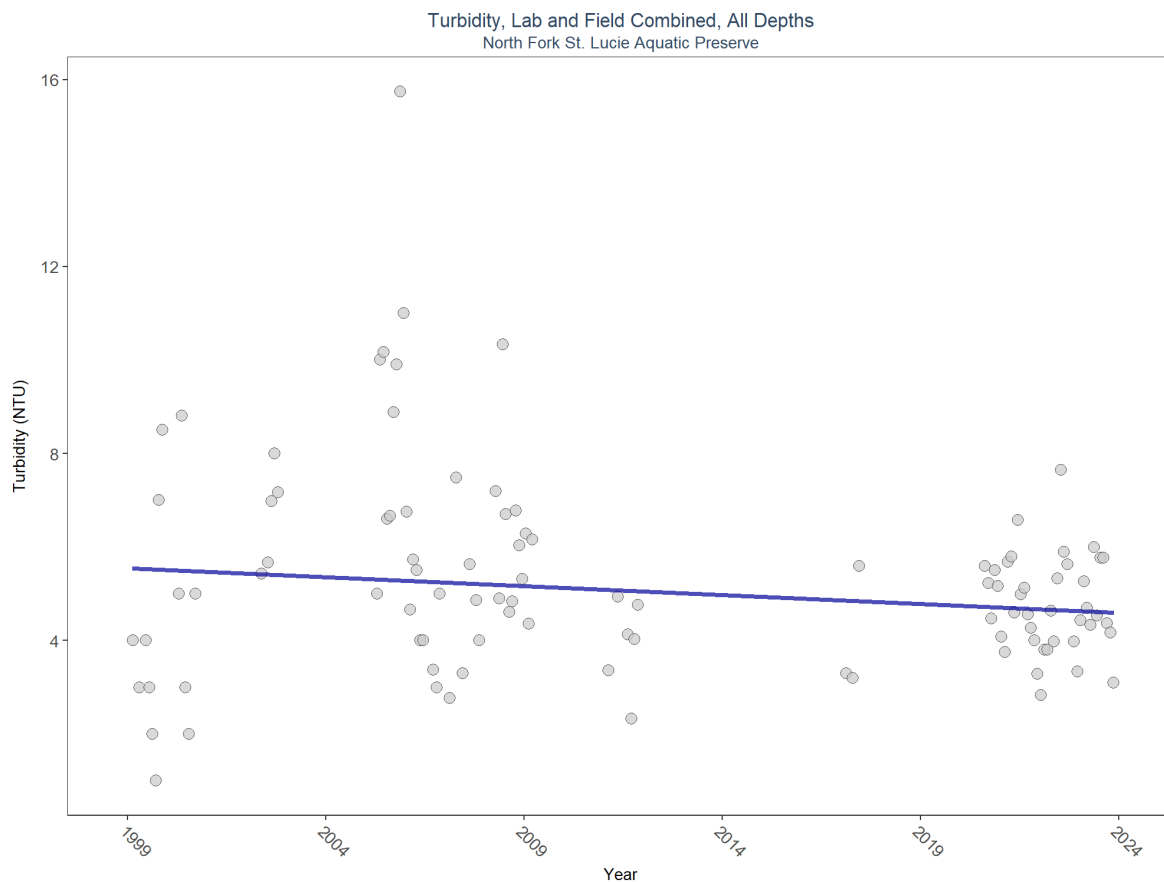


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	1013	23	6	TRUE	0.0417	0.3458	0.01560761	5.313474	11.4892	0.4032	0

$p < 0.00005$  appear as 0 due to rounding.

*SennIntercept is intercept value at beginning of  
record for monitoring location*

# Turbidity

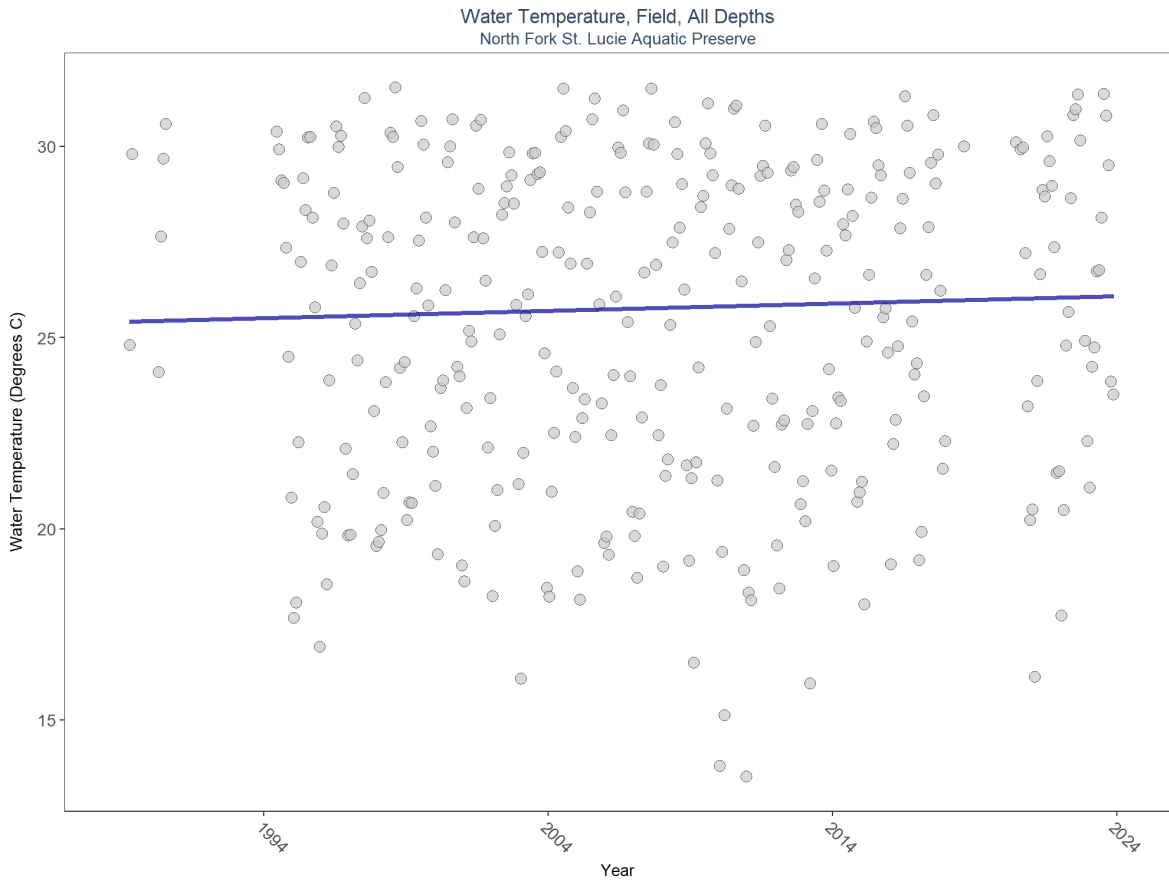


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	520	14	5	TRUE	-0.1593	0.1293	-0.03796296	5.543973	19.1313	0.0588	0

$p < 0.00005$  appear as 0 due to rounding.

*SennIntercept is intercept value at beginning of record for monitoring location*

# Water Temperature



RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	6076	31	26.015	TRUE	0.0838	0.0339	0.01880535	25.4208	6.2499	0.8562	1

$p < 0.00005$  appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location